

**Global climate influenced the evolutionary history of brain size increase in some mammalian lineages, but not in hominins**

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Dear editors of Evolutionary Biology,

My co-authors and I are pleased to submit our manuscript titled “*Global climate influenced the evolutionary history of brain size increase in some mammalian lineages, but not in hominins*” for review by Evolutionary Biology. To our knowledge, this represents the first study that directly tests the proposed relationships between several aspects of global climate (trend, variability, rate of change) and mammalian brain size evolution in a statistically rigorous procedure that accounts for potentially confounding factors such as temporal autocorrelation.

Cranial capacity of fossil specimens ( $n = 227$ ), as well as ancestral cranial capacities computationally reconstructed from extant taxa ( $n = 299$ ), were used as complementary independent datasets. We found that some taxa (e.g. Perissodactyla, Carnivora) did indeed show evidence of relationships between the deep-sea core oxygen isotope records (as a proxy for global temperature/aridity) and evolutionary changes in cranial capacity. However, importantly, hominins ( $n = 189$  individuals) demonstrated no evidence of such brain-climate interactions once data had been properly detrended to account for temporal autocorrelation. These results counter previously proposed hypotheses of paleoclimate being a primary driver of brain size increase and behavioral flexibility in hominin evolution. Furthermore, we have provided an R script and the necessary raw data so that others may replicate all analyses and plots presented in this manuscript, allowing for automatic reproducibility of the study in its entirety. We believe that this study provides a much-needed statistically rigorous test of long standing hypotheses of brain-climate interactions in mammalian evolution.

The work presented in this manuscript is not currently under consideration by any other journal and has been reviewed and approved by all co-authors in its final version. All persons entitled to authorship have been included as co-authors. Thank you very much for your time and consideration. We look forward to the opportunity to publish in Evolutionary Biology.

Many thanks,

The co-authors of the submitted manuscript (*names and affiliations omitted per Author Guidelines*)

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**Full title:** Global climate influenced the evolutionary history of brain size increase in some mammalian lineages, but not in hominins

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## INTRODUCTION

Since the divergence of hominins from the genus *Pan* ~5–7 Ma, our lineage has undergone a massive expansion in brain size, such that modern humans have brains that are over three times larger than those of the other great apes, our closest extant relatives (Schwartz & Tattersall, 2004; Holloway, 2008; Sherwood *et al.*, 2008; Klein, 2009; Shultz *et al.*, 2012b). However this phenomenon is not unique to hominins, as evolutionary increases in brain size have also been demonstrated in Primates, Carnivora, Artiodactyla and birds (Lefebvre *et al.*, 2004; Shultz & Dunbar, 2010).

While the precise causes of evolutionary brain enlargement remain unclear, many hypotheses revolve around enhanced cognitive flexibility (Lefebvre *et al.*, 2004; Sol *et al.*, 2005; Sol, 2009; Krubitzer, 2009). Organisms may evolve larger brain size as an adaptation to more efficiently solve novel problems and thus flexibly respond to changes in their dietary niche (Broadhurst *et al.*, 1998; Carmody & Wrangham, 2010) or to navigate complex social networks (Dunbar, 1998; Shultz & Dunbar, 2007; 2010). Large-scale changes in climate have also been proposed as a driver of brain evolution. However, which aspects of climatic change are most significant for brain evolution is a matter of ongoing debate, particularly in the field of human origins (Behrensmeyer, 2006; Potts, 2013). Trend-based hypotheses implicate long-term directional changes in aspects of the climate, such as temperature and/or aridity as the primary drivers of evolution (e.g. savannah hypothesis, aridity hypothesis, and aspects of turnover pulse hypothesis) (Vrba *et al.*, 1994; deMenocal, 2004; Domínguez-Rodrigo, 2014). Alternatively, variability-based hypotheses implicate increasingly severe climatic fluctuations (e.g. variability selection hypothesis, variability pulse hypothesis) (Potts, 1996; 1998b; Bobe *et al.*, 2002; Trauth *et al.*, 2007; 2010; Maslin *et al.*, 2014; 2015). More specifically, variability-based hypotheses posit that increases in the amplitude and periodicity of global environmental fluctuations may influence some species to become more versatile and thus to more effectively adapt to rapidly changing environments. In this scenario, hominins responded to this increased demand for versatility by evolving larger brains capable of enhanced behavioral plasticity (Potts, 2012). Lastly, some have suggested the rapidity at which climate change occurs may be a catalyst of evolution, here referred to as rate-based hypotheses (e.g. turnover pulse hypothesis) (Vrba, 1993a; 1995; 1996).

While often conceptualized as mutually exclusive, there is in fact considerable overlap among these hypotheses. Changes in trend, variability, and rate are highly interactive aspects of the global climate that can in turn have complex downstream effects on environment at the

35 level of continents, regions, local habitats, and communities of organisms (Zachos *et al.*, 2001; Maslin & Christensen, 2007). Therefore, it seems more appropriate to test these hypotheses within a single comprehensive model.

While there have been numerous claims of a relationship between hominin brain size and climate (Vrba *et al.*, 1994; Vrba, 1995; 1996; Potts, 1998a; 2012; Shultz & Maslin, 2013; 40 Maslin *et al.*, 2015) only a few studies have attempted to statistically test this relationship. Ash & Gallup (2007) examined the relationship between brain evolution and climate, finding that both global cooling trends and global temperature variability significantly correlated with increasing hominin CC (n=109 specimens) over the last 2 Ma. In a subsequent multivariate analysis of the Ash & Gallup (2007) dataset, Bailey & Geary (2009) found that climatic trends towards global 45 cooling and increased variability as well as other predictors of CC (e.g. estimated population density, parasitic load) predicted hominin CC. Despite these efforts, the conclusions that can be drawn from these studies have some notable limitations. First, no study to date has included a sample of other mammalian taxa to determine whether climate variables are related to brain size variation as a general principle of mammalian evolution outside of hominins. The 50 paleontological record demonstrates that brain size has increased across many different taxa (Jerison, 1973; Montgomery *et al.*, 2010; Boddy *et al.*, 2012) but it remains to be determined whether these increases relate to climatic shifts. Second, previous studies have not included measures of the rate or speed of climatic change as factors that might also be associated with brain size evolution. Lastly, and perhaps most importantly, the confounding effects of temporal 55 autocorrelation in time-series data (such as brain size change over time vs. climatic change over time) have not been accounted for in any prior investigations, leaving open the possibility that previous associations between hominin brain size and climate are spurious. Fortunately, there is a wide body of research devoted towards accounting for such statistical complications.

The use of time series data is common in many fields, including ecology. Temporal 60 autocorrelation, or the tendency of a dataset to correlate with itself over points in time, may result in non-stationary (trended) time-series data (Chatfield, 2013). This can lead to spurious cross-correlations between two time-series that are in fact not causally related. Just one of numerous examples of this error is the relationship between the westward tectonic movement of North America and the global isotope record (Alroy *et al.*, 2000). Both datasets show directional 65 change over time (i.e. are non-stationary) and thus show strong cross-correlations despite being causally unrelated to one another. This renders any interpretations of causality between trended time series as highly suspect, as temporal autocorrelation can often cause even random walks to produce significant cross-correlations. Alroy and colleagues (2000) discuss the pitfalls of

failing to account for the effects of temporal auto-correlation in the context of relating oxygen  
70 isotope time series to biotic data (e.g. Cenozoic mammalian diversity and body mass over time). This clearly demonstrates the potential for spurious correlations (and thus unfounded conclusions) that can come about when correlating time-series data with directional trends. The authors note that while it is tempting to observe two strong trends over time and declare that they are causally related, it is far more informative to observe the how the variables change  
75 between time intervals, and to ask whether these changes are correlated. Correlations in these “*blow-by-blow, interval-by-interval*” differences in time series data are much more informative than correlations in trended time series.

The first goal of the present study was to identify which mammalian taxa (if any) display evidence for evolutionary increases in brain size over time. This was assessed using two  
80 independent sources of CC data: fossil CCs and ancestral state reconstructions derived from extant mammalian CCs. The fossil record is limited in a number of ways, including the error associated with various dating techniques (Ludwig & Renne, 2000) and the possibility that the earliest representatives of phylogenetic lineages have not yet been discovered. The fragmentary nature of many fossils often make taxonomic placement of these specimens  
85 challenging or sometimes inconclusive. Furthermore, taphonomic processes can potentially deform the endocranial cavity of the skull, thus affecting the ultimate estimate of CC (Holloway, 2008). Thus uncertainties in dating and morphological estimates in the fossil record pose some notable sources of error.

We used ancestral state reconstruction as a complementary method to computationally  
90 infer the most probable state of a common ancestor shared between two or more species. While this method avoids some of the limitations of the fossil record, it possesses several of its own inherent sources of error and assumptions. Notably, it inherits errors associated with the estimation of molecular divergence dates and species relationships from the chosen phylogenetic tree. Despite this, in the way we employ it here ancestral state reconstruction has  
95 the advantage of being derived from precise estimates of CC as they are directly measured from an extant sample of mammalian specimens. Here we employ both fossil and ancestral CCs in our analyses under the supposition that concurrence of results between both methods increases confidence in results showing a relationship between CC and climate variables.

The second goal was to test for potential relationships between changes in CC and  
100 changes in global climate, using the deep-sea oxygen isotope record as a proxy. In order to address the possibility of multiple climatic factors simultaneously influencing brain evolution, we used multiple regression models with CC as the response variable and three different measures

of climatic change as the predictor variables. Each climatic measure was intended to represent a different climatic hypothesis (Fig. 1):

- 105        1) *Trend*: This measure represents directional change-based hypotheses (e.g. deMenocal's (2004) aridity hypothesis ), which predict that trends towards colder temperatures and increased aridity correlate with increased CC in hominins. This was quantified as mean oxygen isotope values in a given time interval.
- 110        2) *Variability*: This measure represents variability-based hypotheses (e.g. Potts' (1996; a; b; 2012; 2013) variability selection hypothesis) which predict that increased fluctuations in global temperature and aridity lead to increased CC in hominins. This was quantified as standard deviation of oxygen isotope values in a given time interval.
- 115        3) *Rate*: This measure draws from aspects in both trend- and variability-based hypotheses as well as the rapid changes envisioned in turnover-pulse hypothesis (Vrba, 1993b; 1996). The rate-based hypothesis proposed here predicts that increases in the rate of change in global temperature and aridity lead to increases in CC. This was quantified as the slope of the linear regression of oxygen isotope values in a given time interval.

The third goal of this study was to assess whether correcting for temporal autocorrelation has 120 any effects on the relationship between CC and global climate.

Each taxon has its own evolutionary history, array of ecological niches, and distribution across habitats, which can influence how they respond to a given environmental pressure. Thus we predicted that each taxon may be differentially affected by various aspects of global climatic shifts over time (i.e. trend, variability, rate), if at all.

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## MATERIALS AND METHODS

The R script and all datasets necessary to replicate the analyses and figures presented in this study are provided in the Supplementary Appendix.

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### **Fossil CC Data**

CCs for 227 mammalian fossil species from six different taxa (Artiodactyla ( $n = 20$  species), Carnivora ( $n = 129$ ), Cetacea ( $n = 26$ ), Perissodactyla ( $n = 14$ ), and non-hominin Primates ( $n = 135$ )) were extracted from the Shultz & Dunbar supplementary dataset (2010). For the hominin sample, CC and date (in Ma) for 189 individual specimens were extracted from Shultz, Nelson,

& Dunbar (2012b), Schoenemann (2013), and Berger et al. (2010). These individuals were fit into a scheme of 19 different hominin species including: *Ardipithecus ramidus* (n = 1), *Australopithecus afarensis* (n = 5), *Australopithecus africanus* (n = 8), *Australopithecus garhi* (n = 1), *Australopithecus sediba* (n = 1), *Kenyanthropus platyops* (n = 1), *Homo habilis* (n = 10), *Homo rudolfensis* (n = 3), *Homo ergaster* (n = 6), *Homo georgicus* (n = 3), *Homo erectus* (n = 33), *Homo floresiensis* (n = 1), *Homo antecessor* (n = 3), *Homo heidelbergensis* (n = 21), *Homo neanderthalensis* (n = 27), *Homo sapiens* (n = 58), and the robust australopiths *Paranthropus aethiopicus* (n = 1), *Paranthropus boisei* (n = 6), and *Paranthropus robustus* (n = 3). Species averages were calculated when multiple specimens per species were available.

Each specimen was assigned an associated date (Ma) corresponding to the First Appearance Datum (FAD) of that fossil species as an approximation of its emergence. We assume that any error associated with these measures was equally distributed across all taxa (Shultz & Dunbar, 2010).

While a complete set of analyses investigating CC, body size, encephalization quotient (EQ) (Martin, 1981; 1984) and their interrelated dynamics would be worthwhile, reliable estimates of body mass in fossil taxa are relatively sparse. In the Shultz & Dunbar dataset (2010), fossil body mass was often estimated based on cranial orbit measurements. However recent evidence (Elliott et al., 2014) suggests that orbit dimensions are not reliable estimators of hominin body mass, as previously suggested (Aiello & Wood, 1994). This issue is further compounded when comparing specimens across multiple mammalian taxa with highly variable relationships between orbit dimensions and overall body size. Furthermore, some evidence suggests that total CC is the a better predictor than EQ of measures of intelligence (Deaner et al., 2007) and the ability to adapt to novel environments (Deaner et al., 2007; Sol et al., 2008).

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### **Ancestral CC Data**

To provide an independent source of CC data, ancestral state reconstructions were calculated via Restricted Maximum Likelihood (REML) estimation using the Analysis of Phylogenetics and Evolution (APE) package (Paradis et al., 2004) in R version 3.2.3 (R Development Core Team, 2015). The REML method assumes species diverge according to Brownian motion and takes into account branch length. It has proven capable of reliably generating reconstructions of biological measurements (e.g. brain size) that can be cross-validated with the fossil record. Previous investigations have utilized this method to reconstruct the brain size of ancestral

170 Primates (Montgomery *et al.*, 2010; Boddy *et al.*, 2012), Carnivora (Finarelli & Flynn, 2007),  
Cetacea (Montgomery *et al.*, 2013) and other mammalian taxa (Boddy *et al.*, 2012).

Extant CCs tip data for Artiodactyla ( $n = 25$ ), Carnivora ( $n = 157$ ), and Cetacea ( $n = 32$ )  
were taken from the Shultz & Dunbar dataset (2010) while Primate data ( $n = 76$ ) were taken  
from the Boddy *et al.* dataset (2012). The authors acknowledge that Cetacea and Artiodactyla  
175 represent the monophyletic clade known as Cetartiodactyla. However for the purposes of this  
study the clade is subdivided due to their drastically different ecologies, which are likely to be  
differently affected by global climatic changes. Tree data were derived from the Bininda-Emonds  
et al. (2007) mammalian supertree. Polytomies were resolved by assigning a branch length of  
0.1 Ma in these instances, which sufficiently differentiated a given shared node into several  
180 independent nodes while minimizing the effect of altering the branch lengths on the ancestral  
state reconstruction results. This alteration proved necessary, as branch lengths of 0 resulted in  
computational errors in the REML calculations. The REML produced 289 total ancestral CCs  
with the following distribution by taxon: Artiodactyla ( $n = 22$ ), Carnivora ( $n = 156$ ), Cetacea ( $n =$   
31), Perissodactyla ( $n = 8$ ), Primates ( $n = 72$ ).

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### **Climatic Data**

The deep-sea oxygen isotope record serves as a proxy for mean ocean temperature, which  
tracks global temperature over long periods of time. A high-resolution oxygen-isotope ( $\delta^{18}\text{O}$ )  
190 record calibrated to the standard geomagnetic polarity time scale (GPTS) were extracted from  
the literature (Zachos *et al.*, 2001). These data were originally culled from deep-sea core  
isotope records from 40 different sites around the world spanning from present day to 65Ma.  
Since isotopic values do not vary significantly by site, it is appropriate to use the combined  
195 dataset as a proxy for global climate change. This record provides a proxy for global  
temperature shifts that can in turn affect various regions through a network of complex  
environmental interactions.

Measures of mean, standard deviation (sd) and slope of the  $\delta^{18}\text{O}$  record were calculated  
for a given span of time, referred to as intervals (Fig. 2). All analyses were repeated separately  
for each interval: 1My, 400Ky, and 200Ky. For example, if a species appeared at 2Ma, that  
200 species' CC would be correlated with each climatic measure (i.e. mean, sd and slope) over the  
course of 2.0–3.0Ma (1My interval), 2.0–2.4Ma (400k interval), and 2.0–2.2Ma (200Ky interval)  
(Fig. 3). The 400Ky and 200Ky intervals correspond to periodic cycles of the planet's orbit,  
which have been previously suggested to be an important climatic factors may have influenced

hominin evolution (Potts, 1998b; Zachos *et al.*, 2001). 1Ma intervals were also investigated in an attempt to capture a large number of climatic events per unit, which may be related gradual long-term evolutionary changes in certain taxa (Foley, 1994).

### **Analyses of CC vs. Time**

First, Ordinary Least Squares (OLS) linear regression were performed in R using the lm function in the stats package (R Development Core Team, 2015). CC was used as the response variable while time (in terms of Ma) was used as the predictor variable, first with all taxa grouped together and then divided into five separate taxa to elucidate the relative contribution of each taxon to any potential overall mammalian patterns. These analyses were repeated separately for the fossil and ancestral reconstruction CC datasets.

### **Analyses of CC vs. Climate**

Next, multiple regressions analyses were performed also using the lm function in R (R Development Core Team, 2015). Again, CC was the response variable but the previously calculated climatic measures were used as predictor covariates ( $CC \sim mean + sd + slope$ ). All analyses were conducted separately using the fossil CC and then ancestral reconstruction CC datasets (source code provided in SI).

There are several well-established methods that can statistically account for temporal auto-correlation (Chatfield, 2013). The goal of these methods is to convert the non-stationary (trended) time series into a stationary (detrended) time series, or a time series that does not show a directional trend over time. The effect of detrending a previous trended dataset is illustrated in Figure 4. A commonly used method is to calculate the first differences of the original time series (Alroy *et al.*, 2000). The corrected (detrended) time series are computed as follows:  $y'_t = y_t - y_{t-1}$ , where  $y_t$  and  $y_{t-1}$  are temporally adjacent data points (e.g. oxygen isotope values) from which a differenced data point ( $y'_t$ ) is calculated. Note that the detrended time series of first differences will be of length  $n - 1$  where  $n$  is the length of the original pre-detrended time series. Thus, in the new detrended time series each point reflects the difference between adjacent time bins. The resulting detrended time series can be used in subsequent analyses with other detrended time series. By employing this methodology one can be much more confident that any observed cross-correlations are meaningful relationships and not merely misleading coincidences.

To account for temporal autocorrelation in our study, we used the aforementioned methodology to detrend both the CC data and the oxygen isotope data by calculating the magnitude of difference between any two adjacent data points in time (Alroy *et al.*, 2000) (Fig. 240 4). However, in order to do this some of the data had to be averaged as some specimens shared the same points in time. For example, if fossil species A (with a CC of 400mL) and B (with a CC of 500mL) both appeared at 22.1Ma, their CCs would be averaged to get a CC of 450mL for time point 22.1Ma. This especially reduced the number of observations in the 245 analyses of fossil CC (from 227 to 71 across all taxa) likely due to the fact that many specimens often come from single paleontological sites and/or stratigraphic contexts that are associated with the same geological age. This contrasts with computationally reconstructed ancestors (which only dropped from 289 to 237) whose associated dates are ultimately derived from molecular divergence dates, offering a much wider variety of possible time points. Nevertheless, 250 multiple species averaged into a single time point will still be more likely to provide a more accurate estimate of its respective taxon's typical CC than a single species from that taxon.

### **Concordance & Evidence Scores**

In order to summarize the findings of this study, Concordance Scores (how often results 255 of fossil and ancestral datasets concurred) and Evidence Scores (how much evidence there was overall for CC being influenced by climate) were calculated for each taxon matched for time interval (1My, 400Ky, 200Ky) and climatic predictor variable (Trend, Variability, Rate, or the multivariate model) (Table 1). In the Significance columns, "Y" denotes that the multiple regression analysis revealed a significant relationship between CC and the given climatic 260 variable within a given taxon (e.g. All Taxa, Artiodactyla, Carnivora, etc.) within a given interval (e.g. 1My, 400Ky, 200Ky) using either non-detrended or detrended datasets, whereas "N" denotes a lack of significant relationship ( $p > 0.05$ ). In the Concordance columns, "1" denotes that analyses using both the fossil and the ancestral CC yielded similar results (either both "Y" or both "N"), whereas "0" denotes that there was a discrepancy between the results of these 265 datasets. In the Results Summary column, a Concordance Score was calculated by taking the number of concordant values ("1") and dividing over the total number of analyses ("1" or "0") within a given taxon within a given interval. Evidence Scores were calculated by taking the number of detrended analyses that yielded a significant relationship between CC and a given climatic variable ("Y") and dividing by the total number of detrended analyses ("Y" or "N") within 270 a given taxon (multiplied by 100 to put in terms of %). Evidence scores did not include non-detrended results due to the effects of temporal autocorrelation discussed above.

## RESULTS

### 275 ***CC vs. Time***

Using the fossil CC dataset (Fig. 5A), when all mammalian taxa were analyzed as one group there was a small but significant trend of increasing CC as time approached the present (Adjusted  $R^2$  ( $aR^2$ ) = 0.193, coefficient estimate (ce) = -0.047,  $p$  = 0.000). When separated by taxon, most groups showed evidence of increasing CC over time, including Artiodactyla ( $aR^2$  = 0.404, ce = -0.084,  $p$  = 0.002), Carnivora ( $aR^2$  = 0.139, ce = -0.038,  $p$  = 0.000), Perissodactyla ( $aR^2$  = 0.337, ce = -0.037,  $p$  = 0.018), and Primates ( $aR^2$  = 0.297, ce = -0.057,  $p$  = 0.010). Hominins were treated as their own separate group to allow for comparisons with other mammalian taxa, and displayed the most dramatic increase in CC over time ( $aR^2$  = 0.493, ce = -0.304,  $p$  = 0.001). In order to explore the effect of increased sample size on the results, these data were reanalyzed with the hominin CC dataset broken into individual specimens, thus increasing the sample size from 13 species to 91 individuals, yielding an even stronger trend of increasing CC over time ( $aR^2$  = 0.834, ce = -0.429,  $p$  = 0.000) (see full results in Table S1).

Using the ancestral reconstruction CC dataset (Fig. 5B), when all taxa were analyzed as one group, there was a small but significant decrease in CC over time ( $aR^2$  = 0.049, ce = 0.028,  $p$  = 0.000). No individual mammalian taxa displayed evidence of change over time, except for Primates, which showed an increase in CC as time approached the present ( $aR^2$  = 0.074, ce = -0.024,  $p$  = 0.012). As mentioned above, it was not possible to include hominins in this type of analysis (see full results in Table S2).

### ***CC vs. Climate***

Multiple regression analyses of non-detrended fossil CC and climatic data were first conducted. These showed that CC of the pooled sample from all fossil mammalian taxa ( $n$  = 222) was significantly predicted by the climatic model at all three time intervals (1My, 400Ky, & 200Ky) ( $aR^2$  = 0.426–0.458,  $p$  < 0.001); Trend was the only significant predictor variable at all three intervals (ce = 2.141–2.292,  $p$  < 0.001). Artiodactyla CC was only significantly predicted by the climatic model at the 400Ky interval ( $aR^2$  = 0.551,  $p$  < 0.05) in which Variability was the only significant predictor variable (ce = -0.454,  $p$  < 0.05). Carnivora CC was predicted by the climatic

model at all three intervals ( $aR^2 = 0.252\text{--}0.288$ ,  $p < 0.01$ ) in which Trend was the only significant predictor variable in each interval ( $ce = 1.542\text{--}1.645$ ,  $p < 0.002$ ). Perissodactyla CC was only predicted by the climatic model at the 400Ky interval ( $aR^2 = 0.672$ ,  $p < 0.05$ ) in which Trend was the only significant predictor variable ( $ce = 1.253$ ,  $p < 0.05$ ). Species-averaged hominin CC was predicted by the climatic model at all three time intervals ( $aR^2 = 0.365\text{--}0.488$ ,  $p < 0.05$ ) but no single climatic predictor variable significantly contributed this relationship on its own ( $p > 0.05$ ). Individualized hominin CC was even more strongly predicted by the climatic model ( $aR^2 = 0.759\text{--}0.799$ ,  $p < 0.001$ ) in which both Trend ( $ce = 1.312\text{--}1.599$ ,  $p < 0.01$ ) and Variability ( $ce = 0.499\text{--}0.793$ ,  $p < 0.01$ ) were significant predictors at all time intervals. Neither Cetacea CC nor Primate CC were predicted by the climatic model at any interval ( $p > 0.05$ ) (see Table S3A).

Results differed considerably when these analyses were rerun after detrending the fossil CC and climatic data sets. Consistent with the non-detrended results, neither Cetacea nor Primate CC were predicted by the climatic models ( $p > 0.05$ ). Additionally, CC of all taxa grouped together, as well as Carnivora, Primates, hominins and individualized hominins were not significantly predicted by the climatic model at any time interval ( $p > 0.05$ ). This is particularly noteworthy in individualized hominins, which showed a strong CC-climate relationship before detrending the data. However, detrending the data did not eliminate all significant results as Perissodactyla CC was predicted by the climatic model ( $aR^2 = 0.481\text{--}0.711$ ,  $p < 0.05$ ) (see Table S3B).

Next, we performed the analyses described above with ancestral reconstruction of CCs, first using non-detrended CC and climatic data. Ancestral CC of all taxa grouped together was not significantly predicted by the climatic model at any time interval ( $p > 0.05$ ). This was also true of Artiodactyla, Cetacea, and Perissodactyla CC ( $p > 0.05$ ). Carnivora CC was predicted by the climatic model only at the 1My interval ( $aR^2 = 0.038$ ,  $p < 0.05$ ) in which Rate was the only significant predictor variable ( $ce = -0.159$ ,  $p < 0.05$ ). Primate CC was predicted by the climatic model at the 400Ky and 200Ky intervals ( $aR^2 = 0.089\text{--}0.104$ ,  $p < 0.05$ ) in which Variability was a significant predictor at 400Ky ( $ce = -0.227$ ,  $p < 0.05$ ) and Trend was a significant predictor at 200Ky ( $ce = 0.265$ ,  $p < 0.05$ ) (see Table S4A).

After detrending the data, ancestral reconstruction of CCs showed a very different pattern of relationships with the climate variables. CC of all taxa grouped together was predicted by the climatic model at all time intervals ( $aR^2 = 47.997\text{--}63.296$ ,  $p < 0.001$ ) in which Trend was a significant predictor variable at all three intervals ( $ce = 2.753\text{--}2.942$ ,  $p < 0.001$ ), Variability was a significant predictor at the 200Ky interval ( $ce = 0.31$ ,  $p < 0.05$ ), and Rate was a significant

340 predictor at 400Ky ( $ce = 0.274$ ,  $p < 0.01$ ). Carnivora CC was predicted by the climatic model at only the 1My interval ( $aR^2 = 2.824$ ,  $p < 0.05$ ) in which Rate was a significant predictor variable ( $ce = -0.274$ ,  $p < 0.01$ ). Artiodactyla, Cetacea, Perissodactyla, and Primate CC were not significantly predicted by the climatic model at any interval ( $p > 0.05$ ) (see Table S4B).

345 ***Concordance & Evidence Scores***

All taxa grouped together yielded a Concordance Score of 58.33, meaning 58.33% of results of fossil vs. ancestral analyses came to the same conclusion regarding whether or not there was evidence of a relationship between changes in CC and climate over time (Table 1). In descending order, Concordance Score of each taxon were as follows: Cetacea (100),  
 350 Artiodactyla (91.67), Perissodactyla (66.67), Primates (58.33), Carnivora (45.83). All taxa grouped together yielded an Evidence Score of 37.50, meaning 37.50% of detrended analyses (using fossil or ancestral CC) showed a significant relationship between CC and climate. In descending order, Evidence Scores for each taxon were as follows: Perissodactyla (22.25), Carnivora (12.50), Primates (4.17), Artiodactyla (0.00), Cetacea (0.00), hominins (0.00),  
 355 individualized hominins (0.00).

## DISCUSSION

In the fossil dataset, it was found that across mammals in general, there was a trend towards increased brain size over time. Subdividing the sample by taxon revealed that many, but not all, mammalian lineages contributed to this overall pattern. This is consistent with previous demonstrations of increasing absolute or relative brain size over time in the fossil record of Artiodactyla (Jerison, 1970; 1973), Carnivora (Jerison, 1970; 1973; Finarelli & Flynn, 2007; 2009), Perissodactyla (Edinger, 1948; Jerison, 1970), Primates (Holloway, 1968; Jerison, 1973),  
 365 and hominins (Shultz *et al.*, 2012a; Schoenemann & Begun, 2013). Cetacea were the notable exception to this pattern of increasing brain size, as their average brain size has remained consistently large since their emergence. The contrast of our results with those of previous studies that reported directional increases in Cetacean brain (Marino *et al.*, 2004; Boddy *et al.*, 2012; Montgomery *et al.*, 2013) likely stems from differences in samples and methodology. It should, however, be noted that different taxa of mammals occupy different, partially overlapping time periods over the last 65My. Some taxa have existed much longer than others and thus span a much larger portion of the oxygen isotope record. This means that some taxa would

have experienced a wider range of selective pressures, some of which could influence evolutionary shifts, speciation events, and extinctions.

375 Hominins occupy a particularly short and recent period of time (the last ~5–7Ma). This is, of course, partly due to the fact that they represent a taxonomic tribe rather than an order like most of the other taxa investigated here. Despite having only existed during a relatively brief time, hominins have undergone remarkable evolutionary increases in brain size (Fig. 3 & Fig. 5A) which may have been in response to greater selective pressures for cognitively-mediated  
 380 adaptability and problem solving in novel environments (Sol *et al.*, 2005; 2008). This rapid increase in brain mass drastically deviates from the allometrically predicted brain mass of a primate of modern human body size and likely relates to many enhanced cognitive capacities including tool manufacture, complex social cognition, and language (Deacon, 2000; Passingham, 2008; Sherwood *et al.*, 2008; Stout & Chaminade, 2012).

385 The results using ancestral reconstructions of CCs showed a rather different pattern. Instead of an overall increase in CC over time, there was an opposite pattern of decreasing CC over time. When this was investigated at the level of separate taxa, it was found that no taxon showed any significant change in CC over time except Primates, which showed a slight increase (Fig. S2). This seemingly contradictory pattern is at least partially explained by the high  
 390 rate of speciation in smaller-brained Carnivora (relative to other larger-bodied taxa) over the last ~20 Ma (Fig. S2). Indeed, when Carnivora are removed from the total sample of mammals, the size effect of the negative trend is reduced, though still significant ( $ce = 0.024, p = 0.009$ ). Another contributing factor to the discrepancy between the fossil and the ancestral CC results was that it was not possible to include hominins in the ancestral reconstruction analyses, as  
 395 *Homo sapiens* are the sole extant representatives of the hominin lineage. The lack of a hominin ancestral CC sample further suppressed the more recent average CC when all taxa were grouped together. This is evidenced by the fact that the effect of increasing brain size over time was reduced ( $ce = -0.035, p = 0.000$ ) when hominins are removed from the grouped fossil taxa analysis.

400 A number of hypotheses have proposed climatic changes as a driver of brain evolution (Potts, 1996; Vrba, 1996; Potts, 1998a; deMenocal, 2004; Potts, 2012; 2013). Using a statistically rigorous approach, this study tested these hypotheses and found evidence that in some mammalian taxa (Perissodactyla, Carnivora, and non-hominin Primates) brain size evolution has indeed been influenced by global climate. However it should be noted that the  
 405 relationship was not always positive. In some cases, an increase in brain size was associated with a decrease in climatic Rate of change (e.g. detrended fossil Perissodactyla CC at the 1My

interval) or an increase in Variability (e.g. detrended all grouped fossil taxa CC at the 400Ky interval) (see Table 3SB).

Fossil and ancestral CC results did not always concur, illustrating the importance of  
 410 using multiple independent sources of data to establish levels of confidence in one's interpretation of evolutionary history. All three climatic variables (Trend, Rate, and Variability) were shown to contribute in varying degrees and combinations depending on the CC dataset, taxa, and time interval investigated. However, once the time-series data had been properly detrended, this study provided no evidence for a relationship between brain size and climate in  
 415 several taxa, most notably, hominins (Table 1 & S3).

Based on the fossil record data, it appears that hominins continued the Primate-general trend of increasing brain size, albeit at a greatly accelerated pace in the last 5–7Ma. Primates seem to have a weakened relationship between brain size and climate compared to other mammalian taxa, as only 4.7% of results showed evidence of a brain-climate interaction. But  
 420 unlike non-hominin Primates, the rapid brain expansion observed in hominins appears to have been completely decoupled from global climatic events.

We speculate that hominins could have accomplished this decoupling from global climate by evolving the capacity for enhanced cognitive and behavioral plasticity as they transitioned into the 'cognitive niche' (Pinker, 2010), driven by selection forces unrelated to climatic change. Our  
 425 analyses consistently found that, once detrended, hominins displayed no relationship between CC and any of the tested global climatic factors at any intervals. This cannot be explained as a general tendency of detrending time-series data to eliminate significant relationships, as this transformation sometimes revealed new relationships that had not been observed using the non-detrended data (e.g. ancestral CC of All Taxa, Table 1). Nor does this appear to simply be  
 430 the result of low statistical power due to a small sample size of hominin species (n=19) since the dataset of individual hominin specimens (n=189) also resulted in no brain-climate relationships. Thus, these results do not support previous claims that hominin brain size was driven by global climatic variables. The discrepancy between our results and those of these previous reports  
 (Ash & Gallup, 2007; Bailey & Geary, 2009) could stem from one or more of the following  
 435 sources: 1) insufficient sample sizes, 2) testing single climatic factors at a time, and/or 3) use of non-detrended data. In this study we demonstrated that the latter of these three factors consistently and dramatically alters the pattern of results due to the confounding effects of temporal autocorrelation, in this case, spuriously producing a brain-climate relationship in hominins. This clearly illustrates the necessity of detrending time-series data before conducting  
 440 cross-correlation analyses, particularly in the realm of hominin brain evolution.

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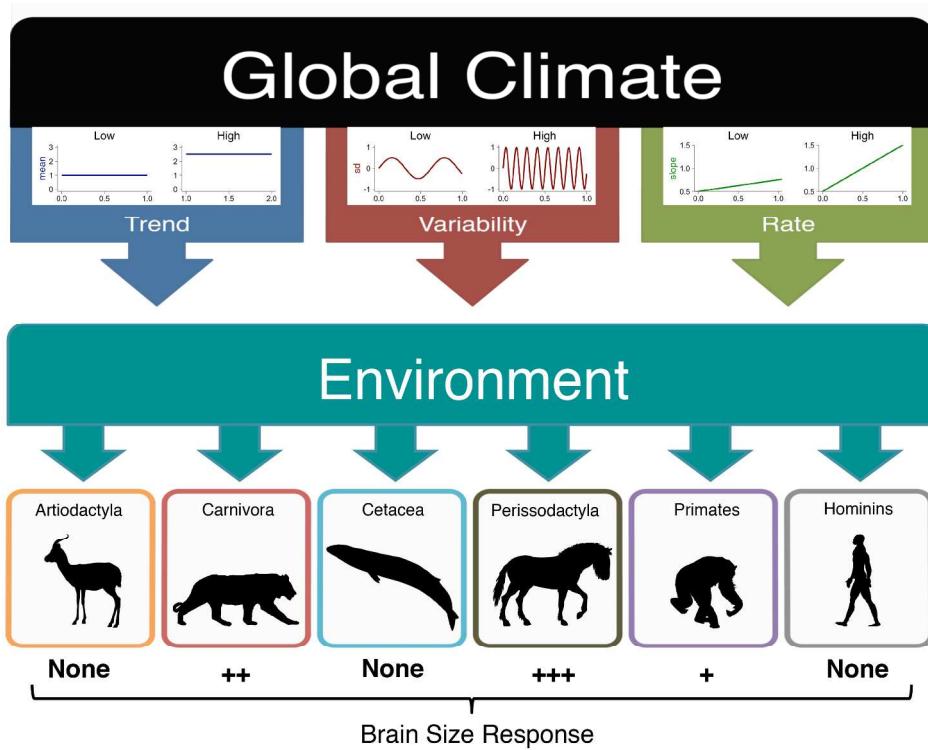


Figure 1. Multiple aspects of global climate change (Trend, Variability, and Rate of change) can simultaneously affect the environment. Cartoon examples of High and Low Trend, Variability, and Rate are shown within their respective climatic variable boxes. These changes in environment can alter the selective pressures acting on the organisms that inhabit it over an evolutionary timescale. Some taxa show a significant relationship between climatic variables (Trend, Variability, and/or Rate) and cranial capacity (CC), suggesting that some taxa have indirectly responded to changing global climate by evolving larger brains.

After appropriately detrending the time-series data, it was found that Perissodactyla CC was the most frequently responsive (+++, Evidence Score=25.00), Carnivora CC was next most responsive (++, Evidence Score=12.50), and Primates CC was less responsive (+, Evidence Score=4.17). Artiodactyla, Cetacea, and hominins demonstrated no evidence of a relationship between brain size and global climate for any climatic variable at any tested time interval (1My, 400Ky, 200Ky).

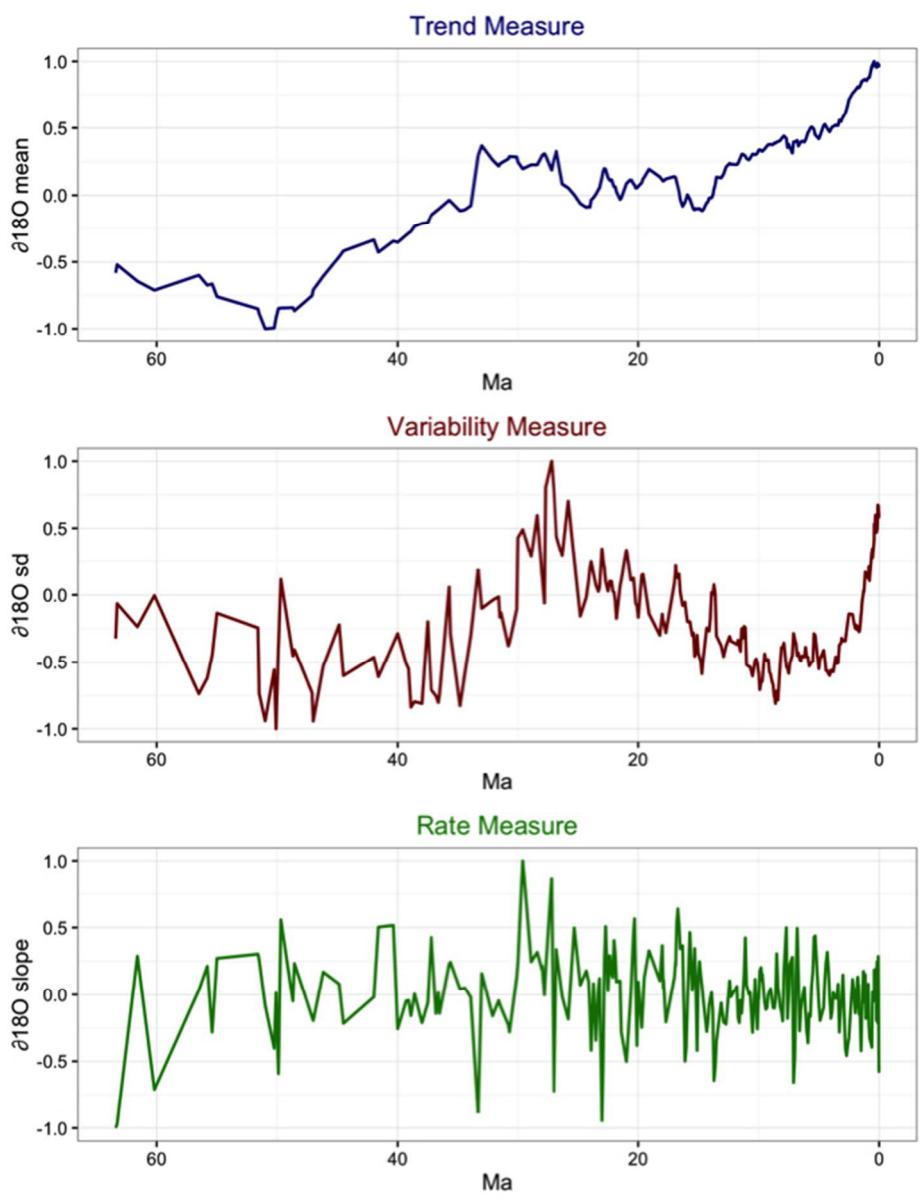


Figure 2. Multiple climatic measures of the oxygen isotope ( $\partial^{18}\text{O}$ ) record over the last 65My. Measures were calculated by starting at the age (Ma) of a  $\partial^{18}\text{O}$  data point, and encompassing all the  $\partial^{18}\text{O}$  data in the prior 400Ky time interval (e.g. all  $\partial^{18}\text{O}$  data within 10.2Ma–10.6Ma). This procedure was repeated over all data points in the  $\partial^{18}\text{O}$  record. Trend was quantified as the  $\partial^{18}\text{O}$  mean within a time interval, Variability was quantified as the standard deviation ( $\text{sd}$ ) within a time interval, and Rate was quantified as the slope of the ordinary least squares (OLS) regression within a time interval. Some climatic variables display long-term directional changes over time, for example the pattern of increasing Trend (higher mean  $\partial^{18}\text{O}$ ) over the last ~50My, or the pattern of increasing Variability (higher  $\text{sd}$ ) over the last ~10My. If another time-series dataset, CC for example, also shows a pattern of change over time, these climatic variables and CC may cross-correlate despite being causally unrelated. Detrending time-series data such as these can help guard against such spurious cross-correlations and reveal true relationships.

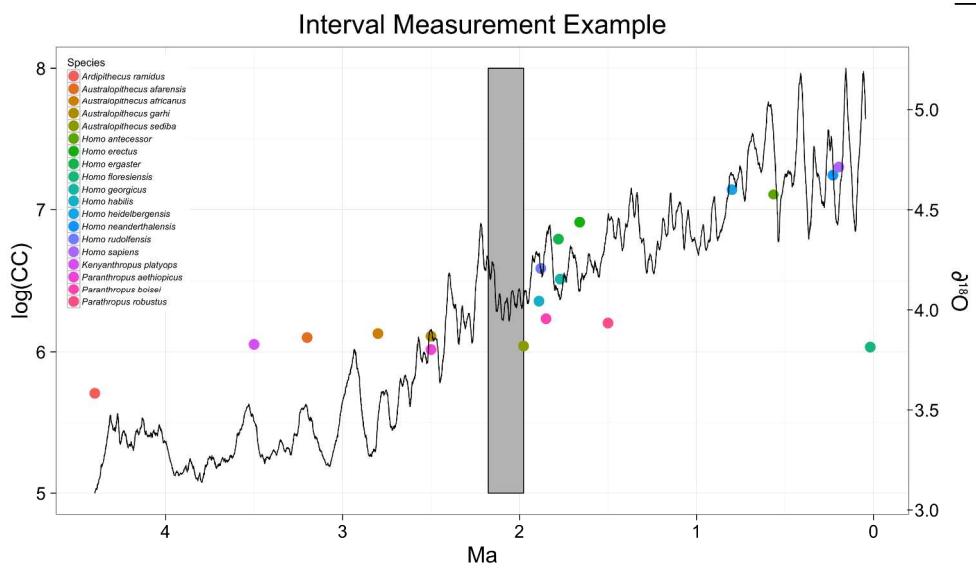


Figure 3. Example of how measures of the oxygen isotope record (black line,  $\delta^{18}\text{O}$  on right y-axis) were collected from the time intervals preceding the first appearance datum (FAD) associated with a species (either fossil or ancestral reconstructed). Each point is a species averaged fossil cranial capacity (points, log scale CC on left y-axis). In this example, the 200Ky interval preceding the 3.2Ma FAD of *Australopithecus sediba* is enclosed within the grey rectangle, spanning the time period 3.2–3.4Ma.

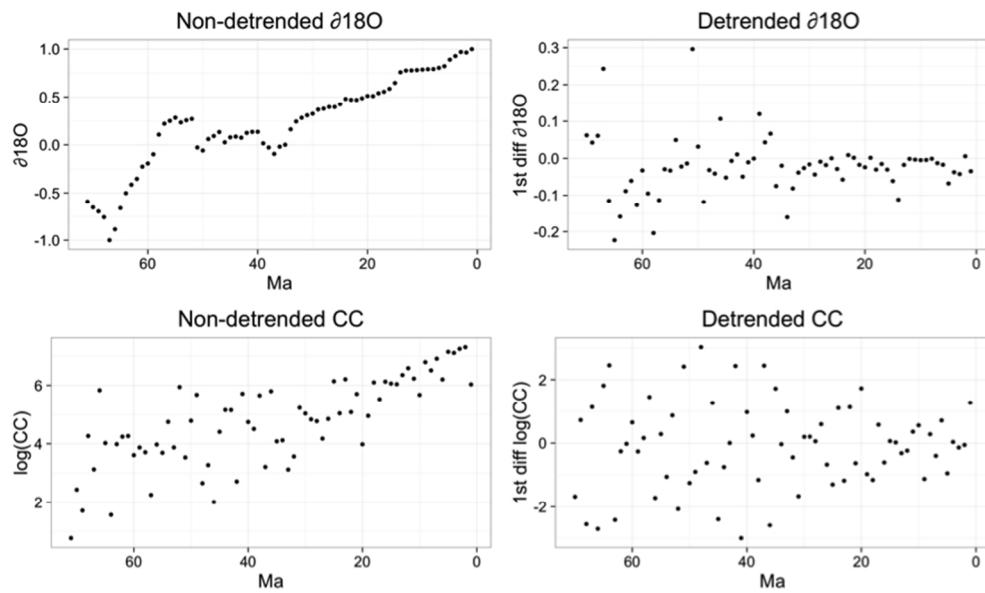


Figure 4. Demonstration of the effect of detrending time-series data (in this case the oxygen isotope record and mammalian CC over the last 65My) by calculating the first difference between temporally adjacent data points. The non-detrended oxygen isotope record ( $\delta^{18}\text{O}$ ) indicates a clear trend toward global cooling over time (upper left). After detrending the data, we are left with the degree of  $\delta^{18}\text{O}$  changes over many time points rather than the absolute value. Cranial capacity (CC) data (both fossil and ancestral reconstructed) similarly showed a trend when non-detrended (bottom left) that disappeared once detrended (bottom right).

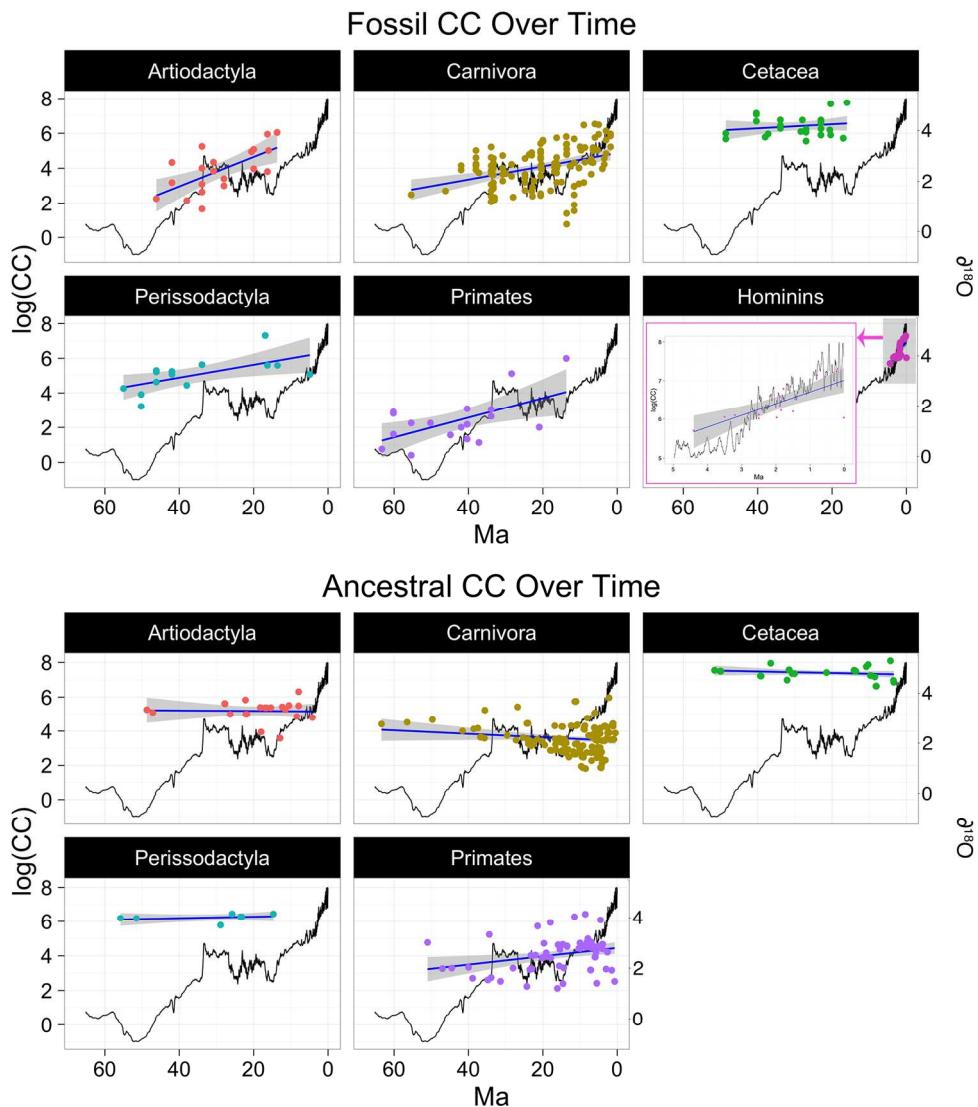


Figure 5. Fossil cranial capacity (CC) for six taxa (A) and ancestral reconstructed CC derived from five extant mammalian taxa over time (B) (points, logged scale on left y-axis) with corresponding best fit lines from ordinary least squares (OLS) regressions (blue line) with confidence intervals (grey shading). The  $\delta^{18}\text{O}$  record over 65My is illustrated for each taxa (black line, scale on right y-axis). The hominin plot (A) was expanded for visualization purposes due to the relatively short period of time the hominin fossil record occupies. Of the fossil taxa, each taxa showed evidence of increased CC over time ( $aR^2 = 0.139-0.834$ ,  $p < 0.05$ ), except Cetacea ( $p > 0.05$ ). Of the ancestral CC taxa, only Primates CC show a significant change of CC over time ( $aR^2 = 0.074$ ,  $p = 0.012$ ) (see Tables S1 & S2 for full results).

**Results Summary Table**

		Significance								Results Summary	
		Non-Detrended				Detrended					
		Fossil	Ancestral	Fossil	Ancestral	Fossil	Ancestral	Fossil	Ancestral		
All Taxa	Trend	1My	400Ky	200Ky	1My	400Ky	200Ky	1My	400Ky	Concordance Score	
	Variability	N	N	N	N	N	N	Y	Y	58.33	
	Rate	N	N	N	N	N	N	N	Y	Evidence Score	
	MODEL	Y	Y	Y	N	N	N	Y	Y	37.50	
Artiodactyla	Trend	N	N	N	N	N	N	N	N	Concordance Score	
	Variability	N	Y	N	N	N	N	N	N	91.67	
	Rate	N	N	N	N	N	N	N	N	Evidence Score	
	MODEL	N	Y	N	N	N	N	N	N	0.00	
Carnivora	Trend	Y	Y	Y	N	N	N	N	N	Concordance Score	
	Variability	N	N	N	N	Y	Y	N	N	45.83	
	Rate	N	N	N	Y	N	N	Y	N	Evidence Score	
	MODEL	Y	Y	Y	Y	N	N	N	N	12.50	
Cetacea	Trend	N	N	N	N	N	N	N	N	Concordance Score	
	Variability	N	N	N	N	N	N	N	N	100.00	
	Rate	N	N	N	N	N	N	N	N	Evidence Score	
	MODEL	N	N	N	N	N	N	N	N	0.00	
Perissodactyla	Trend	N	Y	N	N	N	Y	N	N	Concordance Score	
	Variability	N	N	N	N	N	Y	Y	N	66.67	
	Rate	N	N	N	N	N	Y	N	N	Evidence Score	
	MODEL	N	Y	N	N	N	Y	Y	N	25.00	
Primates	Trend	N	N	N	N	Y	N	N	N	Concordance Score	
	Variability	N	N	N	Y	Y	N	N	N	58.33	
	Rate	N	N	N	N	N	N	N	Y	Evidence Score	
	MODEL	N	N	N	N	Y	Y	N	N	4.17	
Hominins	Trend	N	N	N	-	-	N	N	N	-	
	Variability	N	N	N	-	-	N	N	N	-	
	Rate	N	N	N	-	-	N	N	N	-	
	MODEL	Y	Y	Y	-	-	N	N	N	0.00	
Individualized Hominins	Trend	Y	Y	Y	-	-	N	N	N	-	
	Variability	Y	Y	Y	-	-	N	N	N	-	
	Rate	Y	N	N	-	-	N	N	N	-	
	MODEL	Y	Y	Y	-	-	N	N	N	0.00	

Table 1. This table provides an overall summary of cranial capacity (CC) vs. climate analysis results. In Significance columns, "Y" denotes that there was a significant relationship found between CC and a given climatic variable, and/or the overall model, whereas "N" denote that no significant CC-climate relationship was found ( $p < 0.05$ ).

Concordance Scores are the percentage of fossil CC results that concurred with ancestral CC analyses matched for time interval (1My, 400ky, 200Ky) and climatic predictor variable (Trend, Variability, Rate), regardless of whether the data was non-detrended or detrended. Evidence Scores were calculated as the percentage of detrended results that showed evidence of CC-climate relationships (to the exclusion of non-detrended results due to confounds associated with temporal autocorrelation). Some taxa demonstrated evidence of CC-climate interactions (i.e. Carnivora, Perissodactyla, and Primates) while other taxa demonstrated no such evidence (i.e. Artiodactyla, Cetacea, and hominins).

## SUPPLEMENTARY MATERIALS

### Fossil CC vs. Time

log(CC) by Taxa								
	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	Hominins	Individualized Hominins
Ma	ce	- 0.047	- 0.084	- 0.038	- 0.012	- 0.037	- 0.057	- 0.304
	se	- 0.006	- 0.023	- 0.008	- 0.013	- 0.013	- 0.019	- 0.071
	t	- 7.424	- 3.727	- 4.655	- 0.923	- 2.76	- 2.934	- 4.302
	p	<b>0.000***</b>	<b>0.002**</b>	<b>0.00001***</b>	0.366	<b>0.018*</b>	<b>0.010**</b>	<b>0.0005***</b>
(Intercept)	ce	5.552	6.332	4.867	6.747	6.368	4.828	7.012
	se	- 0.175	- 0.688	- 0.193	- 0.389	- 0.525	- 0.873	- 0.153
	t	31.722	9.199	25.271	17.333	12.12	5.528	45.817
	p	<b>0.000***</b>	<b>0.00000***</b>	<b>0.000***</b>	<b>0.000***</b>	<b>0.00000***</b>	<b>0.00004***</b>	<b>0.000***</b>
Observations		227.0	20.0	129.0	26.0	14.0	19.0	189.0
R <sup>2</sup>		0.197	0.436	0.146	0.034	0.388	0.336	0.521
Adjusted R <sup>2</sup>		0.193	0.404	0.139	- 0.006	0.337	0.297	0.493
Residual Std.								0.834
Error		1.386	0.96	1.056	0.584	0.782	1.132	0.35
F Statistic		<b>55.116***</b>	<b>13.892 **</b>	<b>21.671***</b>	0.851	<b>7.617 *</b>	<b>8.606 **</b>	<b>18.506 ***</b>
Summary		Increase	Increase	Increase	Stable	Increase	Increase	Increase

Note: \*p<0.05 \*\*p<0.01 \*\*\*p<0.001

**Table S1.** Results of linear regressions in which fossil cranial capacity (CC) was the response variable and time, in terms of millions of years ago (Ma), was the predictor variable. Negative estimate values mean that CC grew larger as we come closer to the present (Increase), positive estimate values mean CC grew smaller as we approach the present, and no significant means that there was no significant trend of CC in either direction (Stable).

### Ancestral CC vs. Time

log(CC) by Taxa						
	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates
Ma	ce	0.028	0.001	0.01	0.004	- 0.004
	se	- 0.007	- 0.011	- 0.006	- 0.004	- 0.006
	t	3.992	0.12	1.619	1.054	- 0.795
	p	<b>0.0001***</b>	0.906	0.108	0.301	<b>0.012*</b>
(Intercept)	ce	3.881	5.163	3.431	7.304	6.367
	se	- 0.135	- 0.253	- 0.106	- 0.108	- 0.186
	t	28.7	20.436	32.51	67.705	34.274
	p	<b>0.000***</b>	<b>0.000***</b>	<b>0.000***</b>	<b>0.000***</b>	<b>0.000***</b>
<hr/>						
Observations						
R <sup>2</sup>						
Adjusted R <sup>2</sup>						
Residual Std.						
Error						
F Statistic						
<hr/>						
Summary						
Decrease						
Stable						
Stable						
Stable						
Increase						

Note: \*p<0.05 \*\*p<0.01 \*\*\*p<0.001

**Table S2.** Results of linear regressions in which ancestral reconstructed cranial capacity (CC) was the response variable and time, in terms of millions of years ago (Ma), was the predictor variable. Negative estimate values mean that CC grew larger as we come closer to the present (Increase), positive estimate values mean CC grew smaller as we approach the present, and no significant means that there was no significant trend of CC in either direction (Stable).

**A****Fossil CC vs. Climate: Non-detrended**

1 My Intervals													400 Ky Intervals									
	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	Hominins	Individualized Hominins	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	Hominins	Individualized Hominins	All Taxa	Artiodactyl				
Mean	ce	2.292	0.883	1.645	0.129	1.353	2.26	2.225	1.599	2.141	-0.454	1.58	0.347	1.253	1.362	2.044	1.312	2.165	0.126			
	se	-0.278	-1.811	-0.435	-0.919	-0.585	-1.382	-1.57	-0.459	-0.287	-1.312	-0.466	-0.85	-0.472	-1.736	-1.125	-0.399	-0.303	-1.664			
	t	8.247	0.488	3.78	0.141	2.312	1.635	1.417	3.485	7.473	-0.346	3.388	0.409	2.654	0.784	1.816	3.29	7.155	0.076			
	p	<b>0.000***</b>	<b>0.641</b>	<b>0.001***</b>	<b>0.892</b>	<b>0.061</b>	<b>0.141</b>	<b>0.179</b>	<b>0.001***</b>	<b>0.000***</b>	<b>0.74</b>	<b>0.002**</b>	<b>0.693</b>	<b>0.038*</b>	<b>0.456</b>	<b>0.091</b>	<b>0.002**</b>	<b>0.000***</b>	<b>0.942</b>			
SD	ce	0.011	1.147	-0.591	0.111	1.214	1.189	-0.038	0.499	0.044	3.228	-0.692	-0.124	1.499	1.624	0.236	0.656	-0.315	3.745			
	se	-0.317	-1.059	-0.304	-0.484	-0.827	-1.244	-0.698	-0.156	-0.387	-1.145	-0.395	-0.582	-0.697	-1.632	-0.485	-0.122	-0.515	-2.079			
	t	0.036	1.082	-1.945	0.229	1.467	0.956	-0.055	3.191	0.114	2.82	-1.752	-0.213	2.15	0.995	0.487	5.372	-0.611	1.801			
	p	0.972	0.315	0.059	0.824	0.193	0.368	0.957	<b>0.002**</b>	0.91	<b>0.026*</b>	0.088	0.837	0.076	0.349	0.635	<b>0.000***</b>	0.544	0.115			
Slope	ce	0.794	-0.331	0.278	0.172	-1.075	1.402	0.827	0.69	0.247	-1.81	-0.374	-0.018	0.75	0.03	0.747	0.035	2.906	-5.666			
	se	-0.455	-1.291	-0.397	-1.126	-0.932	-2.059	-1.064	-0.258	-0.402	-0.913	-0.419	-0.46	-0.684	-1.13	-0.419	-0.099	-3.709	-9.082			
	t	1.744	-0.257	0.7	0.152	-1.153	0.681	0.778	2.672	0.614	-1.982	-0.894	-0.04	1.097	0.027	1.785	0.352	0.783	-0.624			
	p	0.086	0.805	0.489	0.883	0.293	0.516	0.45	<b>0.009**</b>	0.542	0.088	0.377	0.97	0.315	0.98	0.096	0.726	0.437	0.553			
(Intercept)	ce	4.131	4.388	3.686	6.34	6.309	3.412	4.73	5.347	4.272	4.625	3.687	6.37	5.971	3.205	4.986	5.556	1.566	10.186			
	se	-0.172	-0.53	-0.166	-0.312	-0.585	-0.637	-1.284	-0.38	-0.173	-0.334	-0.18	-0.188	-0.271	-0.561	-0.929	-0.328	-3.372	-8.143			
	t	24.072	8.286	22.223	20.314	10.79	5.359	3.683	14.083	24.701	13.831	20.537	33.824	22.049	5.709	5.367	16.944	0.465	1.251			
	p	<b>0.000***</b>	<b>0.0001***</b>	<b>0.000***</b>	<b>0.000***</b>	<b>0.00004***</b>	<b>0.001***</b>	0.003**	0.000***	<b>0.000***</b>	<b>0.00001***</b>	<b>0.000***</b>	<b>0.000***</b>	<b>0.00000***</b>	<b>0.0005***</b>	<b>0.0001***</b>	<b>0.000***</b>	0.644	0.252			
Observations	71	11	43	13	10	12	18	95	71	11	43	13	10	12	18	95	70	11				
R <sup>2</sup>	0.508	0.348	0.339	0.026	0.604	0.42	0.518	0.799	0.467	0.685	0.282	0.02	0.78	0.401	0.579	0.792	0.451	0.521				
Adjusted R <sup>2</sup>	0.486	0.068	0.288	-0.299	0.406	0.202	0.414	0.792	0.443	0.551	0.227	-0.307	0.671	0.176	0.488	0.785	0.426	0.316				
Residual Std. Error	1.062	1.174	0.842	0.673	0.776	1.398	0.379	0.201	1.106	0.815	0.878	0.675	0.578	1.421	0.355	0.204	1.092	1.005				
F Statistic	<b>23.097***</b>	1.244	<b>6.676***</b>	0.08	3.049	1.931	<b>5.009*</b>	<b>120.371***</b>	<b>19.563***</b>	<b>5.085*</b>	<b>5.103**</b>	0.061	<b>7.109*</b>	1.786	<b>6.406**</b>	<b>115.741***</b>	<b>18.076***</b>	2.542				

Note: \*p&lt;0.05 \*\*p&lt;0.01 \*\*\*p&lt;0.001

**B****Fossil CC vs. Climate: Detrended**

1 My Intervals													400 Ky Intervals									
	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	Hominins	Individualized Hominins	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	Hominins	Individualized Hominins	All Taxa	Artiodactyl				
Mean	ce	1.08	-0.219	-1.154	1.122	4.098	0.222	-1.937	-0.28	-0.768	0.386	-1.854	-0.35	1.847	-3.053	-2.612	0.239	1.691	-0.344			
	se	-2.139	-2.559	-2.111	-1.751	-1.219	-2.931	-5.446	-2.241	-1.724	-2.457	-1.605	-1.912	-1.141	-3.123	-4.179	-1.953	-1.448	-1.966			
	t	0.505	-0.085	-0.547	-0.641	3.363	0.076	-0.356	-0.125	-0.445	-0.157	-1.155	-0.183	1.619	-0.978	-0.625	0.122	1.167	-0.175			
	p	0.616	0.935	0.588	0.54	<b>0.021*</b>	0.942	0.728	0.902	0.658	0.881	0.256	0.86	0.167	0.543	0.903	0.248	0.867				
SD	ce	0.614	0.017	0.032	0.704	1.977	1.129	1.537	0.043	1.248	1.897	0.413	-0.409	2.097	2.365	0.533	0.473	-0.016	3.574			
	se	-0.636	-0.929	-0.658	0.958	-0.726	-1.596	-1.603	-0.973	-0.618	-1.572	-0.671	-0.797	-0.603	-1.774	-1.274	-0.644	-0.737	-1.95			
	t	0.965	0.019	0.049	0.735	2.725	0.707	0.959	-0.044	2.018	1.207	0.616	-0.514	3.479	1.333	0.419	0.734	-0.021	1.832			
	p	0.339	0.986	0.562	0.484	<b>0.042*</b>	0.503	0.356	0.966	<b>0.048*</b>	0.273	0.542	0.622	<b>0.018*</b>	0.225	0.683	0.465	0.984	0.117			
Slope	ce	0.263	-1.229	0.025	-1.331	-1.542	2.484	1.994	0.457	-0.376	-1.474	-0.908	0.258	0.216	0.885	1.064	0.205	-1.935	-4.671			
	se	-0.59	-1.125	-0.625	-1.58	-0.514	-2.085	-1.641	-0.812	-0.357	-1.397	-0.382	-0.578	-0.5	-1.635	-0.501	-0.223	-3.358	-5.759			
	t	0.445	-1.092	0.04	0.843	-3.002	1.191	1.215	0.563	-1.052	-1.055	-2.377	0.446	0.432	0.542	2.123	0.919	-0.576	0.811			
	p	0.658	0.317	0.569	0.424	<b>0.031*</b>	0.273	0.246	0.575	0.297	0.333	<b>0.023*</b>	0.668	0.684	0.605	0.054	0.361	0.567	0.449			
(Intercept)	ce	-0.046	-0.365	-0.116	-0.204	0.428	-0.472	0.029	-0.018	-0.082	-0.171	-0.148	-0.208	0.065	-0.578	-0.102	-0.023	-0.048	-0.249			
	se	-0.17	0.418	-0.197	-0.327	-0.285	-0.638	-0.183	-0.03	-0.161	-0.424	-0.178	-0.343	-0.268	-0.623	-0.162	-0.029	-0.161	-0.344			
	t	-0.27	-0.872	-0.592	-0.622	1.503	-0.74	0.16	-0.616	-0.508	-0.403	-0.829	-0.607	0.242	-0.927	-0.63	-0.798	-0.298	-0.725			
	p	0.788	0.417	0.558	0.551	0.194	0.484	0.876	0.54	0.614	0.702	0.413	0.561	0.819	0.385	0.54	0.428	0.767	0.496			
Observations	70	10	42	12	9	11	17	94	70	10	42	12	9	11	17	94	68	10				
R <sup>2</sup>	0.021	0.174	0.008	0.105	0.766	0.224	0.112	0.008	0.089	0.225	0.151	0.067	0.819	0.252	0.258	0.015	0.033	0.445				
Adjusted R <sup>2</sup>	-0.024	-0.239	-0.07	-0.231	0.625	-0.109	-0.093	-0.025	0.048	-0.163	0.084	-0.283	0.711	-0.068	0.087	-0.018	-0.012	0.168				
Residual Std. Error	1.363	1.209	1.184	1.061	0.705	2.05	0.522	0.263	1.315	1.171	1.096	1.083	0.619	2.012	0.477	0.262	1.309	0.991				
F Statistic	0.471	0.422	0.108	0.313	<b>5.443*</b>	0.672	0.546	0.255	2.15	0.58	2.258	0.192	<b>7.562*</b>	0.786	1.505	0.447	0.73	1.605				

Note: \*p&lt;0.05 \*\*p&lt;0.01 \*\*\*p&lt;0.001

**Table S3.** Results of multiple regression analyses in which fossil cranial capacity (CC) was the response variable and climatic measures (mean, SD, and slope of the  $\delta^{18}\text{O}$  curve) were the predictor variables. Analyses were first conducted with all taxa grouped together, and then divided into respective taxa. Hominins were also subdivided into individuals (“Individualized hominins”). Highlighted p values are significant at <0.05. This time-series data was first analyzed non-detrended (A) and then detrended (B).

**A****Ancestral CC vs. Climate: Non-detrended**

log(CC) by Taxa and Intervals																				
		1 My Intervals					400 Ky Intervals					200 Ky Intervals								
		All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	
Mean	ce	- 0.015	- 0.009	- 0.063	- 0.074	0.019	0.178	- 0.002	0.01	- 0.014	- 0.102	- 0.022	0.216	0.008	- 0.049	0.001	- 0.109	0.177	0.265	
	se	- 0.093	- 0.13	- 0.074	- 0.068	- 0.159	- 0.115	- 0.092	- 0.133	- 0.074	- 0.067	- 0.132	- 0.109	- 0.096	- 0.147	- 0.073	- 0.072	- 0.136	- 0.124	
	t	0.161	0.066	- 0.348	- 1.087	0.118	1.545	0.018	0.074	- 0.184	- 1.524	- 0.168	1.984	0.084	- 0.331	0.006	- 1.509	1.307	2.144	
	p	0.873	0.948	0.39	0.288	0.912	0.128	0.987	0.943	0.855	0.141	0.875	0.052	0.934	0.745	0.996	0.145	0.262	<b>0.037*</b>	
SD	ce	0.023	0.17	0.139	0.061	- 0.015	- 0.23	0.011	0.142	0.149	0.041	- 0.076	- 0.227	0.039	0.061	0.157	0.05	- 0.22	- 0.147	
	se	- 0.092	- 0.14	- 0.071	- 0.069	- 0.16	- 0.112	- 0.092	- 0.145	- 0.074	- 0.073	- 0.141	- 0.111	- 0.093	- 0.132	- 0.072	- 0.075	- 0.117	- 0.111	
	t	0.252	1.213	1.945	0.89	- 0.091	- 2.051	0.115	0.98	2.014	0.554	- 0.536	- 2.041	0.422	0.464	2.176	0.661	1.886	- 1.327	
	p	0.801	0.242	0.054	0.383	0.932	<b>0.045*</b>	0.909	0.341	<b>0.047*</b>	0.585	0.621	<b>0.046*</b>	0.674	0.649	<b>0.032*</b>	0.515	0.133	0.19	
Slope	ce	- 0.048	- 0.085	- 0.159	- 0.022	0.051	0.067	0.024	- 0.03	- 0.042	0.048	- 0.158	0.167	- 0.07	0.147	- 0.131	0.002	- 0.026	0.203	
	se	- 0.093	- 0.138	- 0.072	- 0.069	- 0.109	- 0.118	- 0.093	- 0.147	- 0.074	- 0.071	- 0.094	- 0.111	- 0.096	- 0.16	- 0.073	- 0.073	- 0.106	- 0.11	
	t	- 0.515	- 0.612	- 2.217	- 0.315	0.467	0.567	0.261	- 0.208	- 0.562	0.672	- 1.671	1.506	- 0.723	0.92	- 1.792	0.031	- 0.245	1.845	
	p	0.608	0.549	<b>0.029*</b>	0.756	0.665	0.573	0.795	0.838	0.575	0.509	0.171	0.138	0.471	0.371	0.076	0.976	0.819	0.07	
(Intercept)		ce	4.319	5.15	3.552	7.39	6.232	4.097	4.318	5.152	3.553	7.388	6.232	4.1	4.318	5.164	3.559	7.39	6.232	4.069
		se	- 0.094	- 0.126	- 0.072	- 0.067	- 0.094	- 0.112	- 0.094	- 0.127	- 0.073	- 0.067	- 0.075	- 0.109	- 0.094	- 0.127	- 0.073	- 0.067	- 0.07	- 0.112
		t	46.054	40.984	49.096	110.587	66.049	36.656	46.034	40.514	48.39	109.687	83.64	37.552	45.916	40.765	48.975	109.664	88.884	36.482
		p	0.000***	0.000***	0.000***	0.000***	0.00000***	0.000***	0.000***	0.000***	0.000***	0.00000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***	0.00000***	0.000***
Observations		237	21	133	28	8	66	237	21	133	28	8	66	236	21	133	28	8	65	
R <sup>2</sup>		0.001	0.082	0.06	0.105	0.06	0.104	0.0004	0.059	0.032	0.094	0.414	0.145	0.003	0.074	0.054	0.098	0.481	0.131	
Adjusted R <sup>2</sup>		- 0.011	- 0.08	0.038	- 0.007	- 0.645	0.06	- 0.013	- 0.107	0.009	- 0.019	- 0.026	0.104	- 0.01	- 0.09	0.032	- 0.015	0.091	0.089	
Residual Std. Error		1.441	0.574	0.833	0.352	0.267	0.908	1.442	0.582	0.846	0.354	0.211	0.887	1.443	0.577	0.836	0.353	0.198	0.897	
F Statistic		0.106	0.507	<b>2.752*</b>	0.941	0.085	2.394	0.028	0.357	1.414	0.833	0.941	<b>3.518*</b>	0.214	0.45	2.467	0.866	1.235	<b>3.076*</b>	

Note: \*p&lt;0.05 \*\*p&lt;0.01 \*\*\*p&lt;0.001

**B****Ancestral CC vs. Climate: Detrended**

log(CC) by Taxa and Intervals																			
		1 My Intervals					400 Ky Intervals					200 Ky Intervals							
		All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates
Mean	ce	2.803	- 0.442	0.272	- 0.213	- 0.241	0.106	2.942	0.085	0.353	- 0.301	- 0.323	0.256	2.753	- 0.074	0.41	- 0.186	- 0.236	0.361
	se	- 0.229	- 0.459	- 0.373	- 0.27	- 0.085	- 0.539	- 0.219	- 0.316	- 0.39	- 0.251	- 0.108	- 0.482	- 0.232	- 0.292	- 0.348	- 0.293	- 0.522	- 0.468
	t	12.228	- 0.965	0.731	- 0.791	- 2.84	0.197	13.463	- 0.268	0.903	- 1.199	- 2.989	0.532	11.864	- 0.254	1.18	- 0.636	- 0.453	0.771
	p	<b>0.000***</b>	0.35	0.467	0.437	0.066	0.845	<b>0.000***</b>	0.792	0.369	0.243	0.059	0.597	<b>0.000***</b>	0.803	0.241	0.532	0.682	0.444
SD	ce	0.105	0.487	- 0.029	- 0.112	0.135	- 0.016	0.05	0.343	- 0.002	- 0.114	0.204	- 0.112	0.31	- 0.025	- 0.033	- 0.202	- 0.032	0.062
	se	- 0.171	- 0.345	- 0.164	- 0.109	- 0.095	- 0.216	- 0.153	- 0.284	- 0.126	- 0.091	- 0.109	- 0.273	- 0.147	- 0.213	- 0.129	- 0.139	- 0.343	- 0.219
	t	0.617	1.411	- 0.179	- 1.027	1.431	- 0.073	0.328	1.207	- 0.018	- 1.253	1.87	- 0.41	2.107	- 0.119	- 0.253	- 1.451	0.094	0.285
	p	0.538	0.178	0.859	0.316	0.248	0.943	0.744	0.245	0.986	0.223	0.159	0.684	<b>0.037*</b>	0.907	0.801	0.161	0.931	0.777
Slope	ce	- 0.171	- 0.265	- 0.274	0.012	0.145	- 0.052	0.274	0.067	- 0.013	0.127	- 0.088	0.013	0.089	0.289	- 0.122	0.024	0.071	0.245
	se	- 0.119	- 0.209	- 0.097	- 0.089	- 0.053	- 0.128	- 0.088	- 0.208	- 0.083	- 0.077	- 0.074	- 0.122	- 0.083	- 0.168	- 0.07	- 0.067	- 0.154	- 0.117
	t	- 1.431	- 1.273	- 2.834	0.139	2.757	- 0.411	3.111	0.32	- 0.155	1.653	- 1.196	0.111	1.077	1.714	- 1.742	0.36	0.461	2.104
	p	0.154	0.222	<b>0.006**</b>	0.891	0.071	0.683	<b>0.003**</b>	0.754	0.878	0.112	0.318	0.913	0.283	0.106	0.084	0.723	0.677	<b>0.040*</b>
(Intercept)	ce	0.065	- 0.085	0.016	0.001	- 0.092	0.046	0.071	0.004	0.017	- 0.015	- 0.091	0.051	0.08	0.016	0.017	0.001	- 0.08	0.041
	se	- 0.095	- 0.23	- 0.086	- 0.102	- 0.071	- 0.152	- 0.093	- 0.218	- 0.089	- 0.095	- 0.077	- 0.151	- 0.098	- 0.21	- 0.087	- 0.101	- 0.176	- 0.144
	t	0.684	- 0.371	0.192	0.01	- 1.3	0.305	0.77	0.02	0.196	- 0.159	- 1.179	0.339	0.811	0.079	0.194	0.008	- 0.452	0.285
	p	0.495	0.716	0.849	0.993	0.285	0.762	0.443	0.985	0.845	0.876	0.324	0.736	0.419	0.939	0.847	0.994	0.682	0.777
Observations		236	20	132	27	7	65	236	20	132	27	7	65	234	20	132	27	7	64
R <sup>2</sup>		0.423	0.147	0.062	0.066	0.847	0.003	0.45	0.134	0.007	0.218	0.825	0.007	0.385	0.174	0.027	0.139	0.454	0.078
Adjusted R <sup>2</sup>		0.416	- 0.013	0.04	- 0.056	0.695	- 0.046	0.443	- 0.028	- 0.017	0.116	0.65	- 0.042	0.377	0.019	0.005	0.027	- 0.092	0.032
Residual Std. Error		1.455	0.917	0.973	0.5	0.182	1.166	1.42	0.924	1.001	0.457	0.195	1.164	1.5	0.902	0.991	0.48	0.345	1.116
F Statistic		<b>56.690***</b>	0.919	<b>2.824*</b>	0.54	5.549	0.069	<b>63.296***</b>	0.827	0.291	2.136	4.716	0.143	<b>47.997***</b>	1.125	1.203	1.242	0.832	1.693

**Table S4.** Results of multiple regression analyses in which ancestral reconstructed cranial capacity (CC) was the response variable and climatic measures (mean, SD, and slope of the  $\delta^{18}\text{O}$  curve) were the predictor variables. Analyses were first conducted with all taxa grouped together, and then divided into respective taxa. Highlighted p values are significant at <0.05. This time-series data was first analyzed non-detrended (A) and then detrended (B).

# Brain-Climate R Script

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#### Climatic Measures plots

#### CC vs. Climate plots

### Import raw data

```
library(readxl)
library(dplyr)
library(ape)
library(geiger)
library(ggplot2)
library(pander)
library(scales)
library(stargazer)

# This script was created in R Studio version 3.2.3 (2015-12-10; Wooden Christmas-Tree)
# Make sure to set your directory to the folder where all the raw data files are
# e.g. .... setwd
setwd("/Users/schilder/Dropbox/brain-climate-r/FINAL FILES/")

raw_data <- read_excel("raw_CC_data_SuppInfo.xlsx", sheet="Species Means")
# Filter out extants for ancestral state reconstruction
extants <- filter(raw_data, Fossil=="No")
# Filter out hominins and add back in once species mean are calculated
fossilz <- filter(raw_data, Fossil=="Yes")

# Individualized Hominin data on 2nd sheet of excel file
Indiv_Hominins <- read_excel("raw_CC_data_SuppInfo.xlsx", sheet="Individualized Hominins")
# Combine with rest of fossils to get associated climatic measures
fossils <- rbind(fossilz, Indiv_Hominins)

# "Ancestral Output" was created by calculating ancestral climatic measures for each taxa (Artiodactyla, Carnivor
a, Cetacea, Perissodactyla, Primates) and then combining them all into one file.
all_ancests <- read_excel("raw_CC_data_SuppInfo.xlsx", sheet="Ancestral Output")
all_ancests <- mutate(all_ancests, logCC = log(CC))
```

### Ancestral State Reconstruction

#### Filter only the Taxa of interest

```

extants_filt <- extants # All taxa
#extants_filt <- filter(extants, Taxon == "Artiodactyla") %>% droplevels() # Artiodactyla only
#extants_filt <- filter(extants, Taxon == "Carnivora") %>% droplevels() # Carnivora only
#extants_filt <- filter(extants, Taxon == "Cetacea") %>% droplevels() # Cetacea only
#extants_filt <- filter(extants, Taxon == "Perissodactyla") %>% droplevels() # Perissodactyla only
#extants_filt <- filter(extants, Taxon == "Primates") %>% droplevels() # Primates only

str(extants_filt)

```

```

## Classes 'tbl_df', 'tbl' and 'data.frame': 299 obs. of 6 variables:
## $ Taxon : chr "Artiodactyla" "Artiodactyla" "Artiodactyla" ...
## $ Species: chr "Hylochoerus_meinertzhageni" "Potamochoerus_porcus" "Sus_scrofa" "Cervus_elaphus" ...
## $ MYA   : num NA NA NA NA NA NA NA NA NA ...
## $ CC    : num 140 138 180 311 201 ...
## $ Fossil: chr "No" "No" "No" "No" ...
## $ Source: chr "Shultz & Dunbar (2010)" "Shultz & Dunbar (2010)" "Shultz & Dunbar (2010)" ...

```

## Import tree and run REML reconstructon

```

treez <- read.nexus("phylogenetic_tree_SuppInfo.txt")
tree <- treez[[grep(pattern = "bestDates", names(treez))]] #get the best dates tree
rm(treez)

name_matchup <- name.check(phy = tree, data = extants_filt, data.names = extants$Species)
tree <- drop.tip(phy = tree, name_matchup$tree_not_data)
tree <- multi2di(tree)
tree$edge.length[tree$edge.length == 0] <- 0.1 # Resolve polytomies
tree <- makeLabel(tree) # Fills in empty node names
extants_filt <- extants_filt[extants_filt$Species %in% tree$tip.label,]

stopifnot(nrow(extants) == length(tree$tip.label))

extants_CC <- extants$CC
names(extants_CC) <- extants_filt$Species

ancest <- ace(x = extants_CC, phy = tree, type="continuous", method="REML")
str(ancest)

```

```

## List of 5
## $ resloglik: num -3638
## $ ace      : Named num [1:298] 280 181 173 152 200 ...
## ...- attr(*, "names")= chr [1:298] "300" "301" "302" "303" ...
## $ sigma2   : num [1:2] 1001 18.3
## $ CI95     : num [1:298, 1:2] 61.7 -23.3 -38.4 -52.7 29.5 ...
## ...- attr(*, "dimnames")=List of 2
## ...$ : chr [1:298] "300" "301" "302" "303" ...
## ...$ : NULL
## $ call     : language ace(x = extants_CC, phy = tree, type = "continuous", method = "REML")
## - attr(*, "class")= chr "ace"

```

## Prep Ancestral Data

```

zachos <- read.table("Zachos_isotope_record_SuppInfo.txt", header=TRUE, sep="\t") # Import Zachos o18 data
ancest_climate <- numeric(326)

names(ancest$ace) <- tree$node.label
str(ancest$ace)

## Named num [1:298] 280 181 173 152 200 ...
## - attr(*, "names")= chr [1:298] "'7_Boreoeutheria'" "'751_Primates'" "'752'" "'753'" ...

```

```

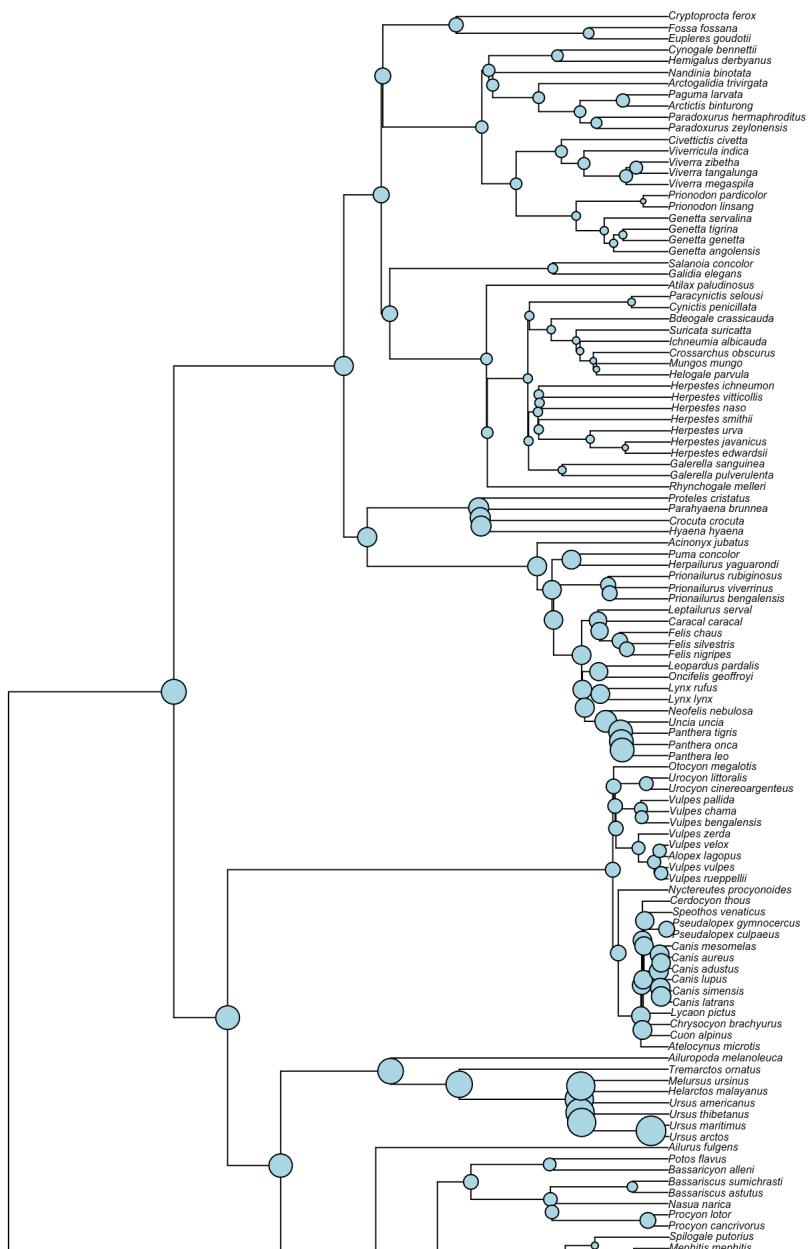
#Calculate time from all node to tip
MYA <- branching.times(phy = tree)
nodes <- names(MYA)
fdata <- data.frame(MYA, nodes, logCC = log(ancest$ace), orig_CC = ancest$ace) # Log and then scale CC
rownames(fdata) <- NULL
branch65 <- dplyr::filter(fdata, MYA <= 65)

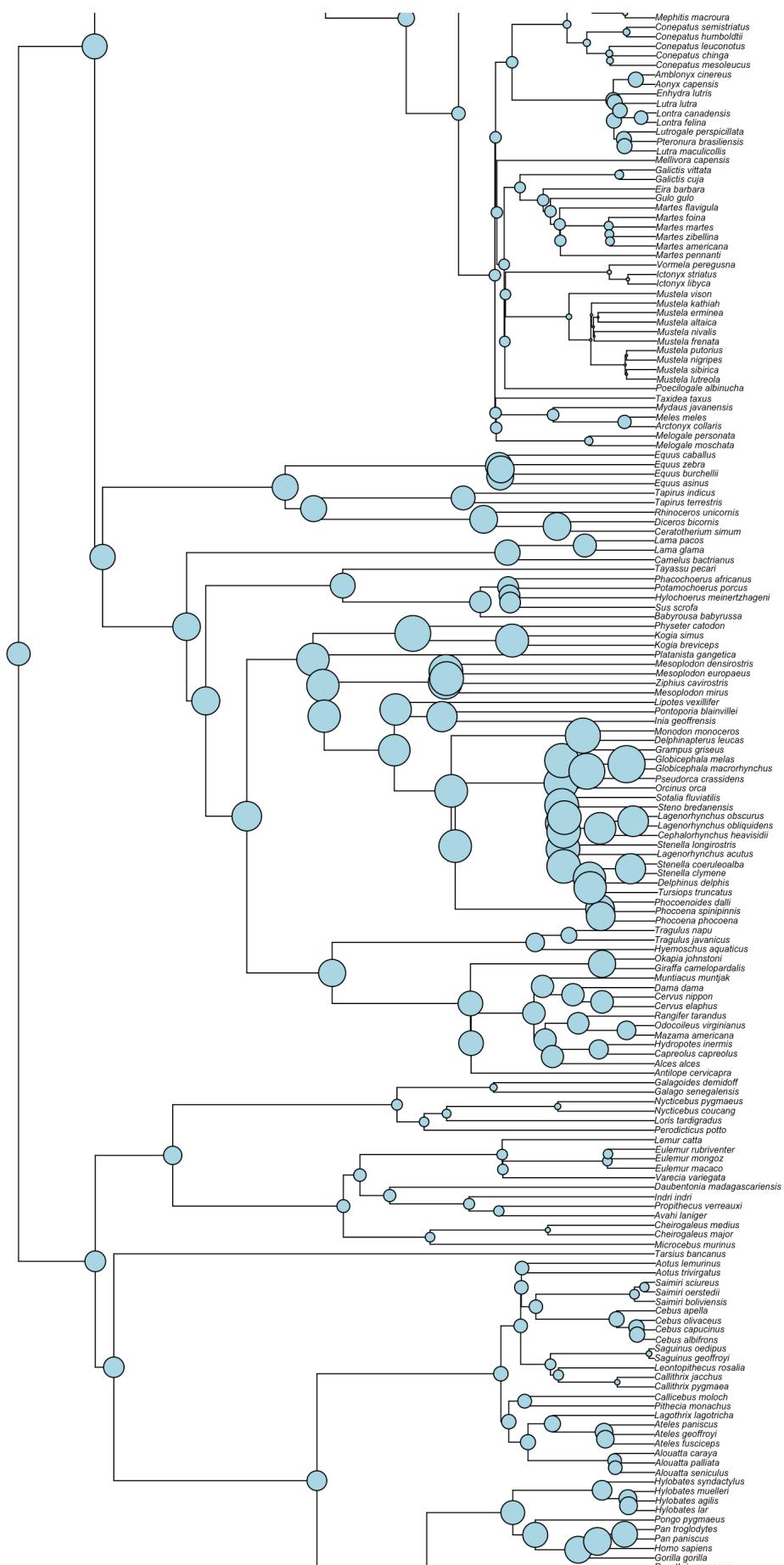
# Plot tree with ancestral nodes

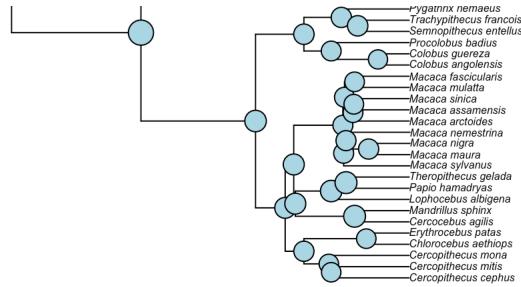
plot(tree, cex=0.5)
scaledACE <- scale(log(ancest$ace))
nodelabels(pch=21, cex=scaledACE + 2)
title(main="LogCC Across Extant and Ancestral Mammals")

```

## LogCC Across Extant and Ancestral Mammals







## Recombine Ancestinals & Fossils

```

ancestrals <- branch65 %>% rename(Species=nodes) %>% mutate(Fossil="No", Taxon="Ancestral", Species=as.character
(Species)) %>%
  select(Taxon, Species, MYA, logCC, Fossil, -orig_CC)

fossils_edit <- fossils %>% mutate(logCC = log(CC)) %>% select(-Source, -CC)

new_data <- rbind(ancestrals, fossils_edit)
str(new_data)

## 'data.frame':    706 obs. of  5 variables:
## $ Taxon : chr "Ancestral" "Ancestral" "Ancestral" "Ancestral" ...
## $ Species: chr "'753'" "'754'" "'755_Cercopithecidae'" "'756_Cercopithecinae'" ...
## $ MYA   : num 51 34.4 19.7 15.9 13.5 ...
## $ logCC  : num 5.03 5.3 4.75 4.65 4.55 ...
## $ Fossil : chr "No" "No" "No" "No" ...

```

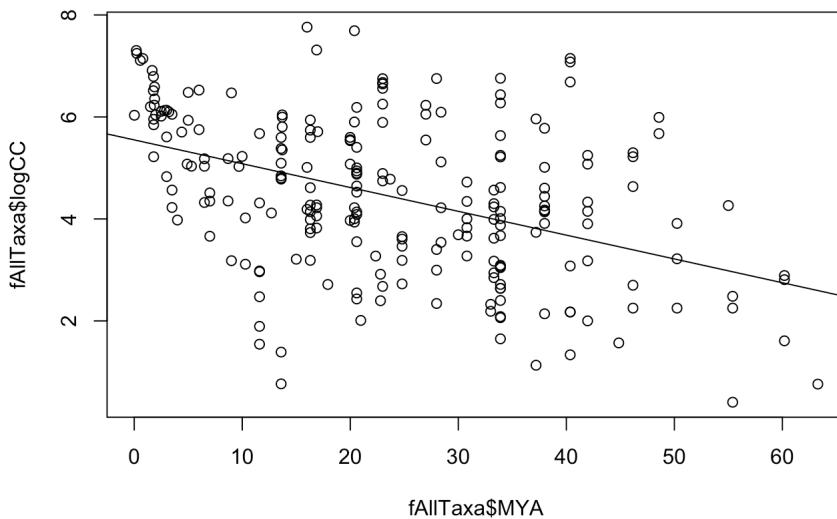
## CC vs. Time: plot and test

### Fossil CC vs. Time

```

## All Taxa
fAllTaxa <- filter(fossils_edit, Taxon!="Indiv_Hominins")
Fossil_vs_Time <- lm(data= fAllTaxa, logCC ~ MYA)
plot(fAllTaxa$MYA, fAllTaxa$logCC)
abline(Fossil_vs_Time)

```



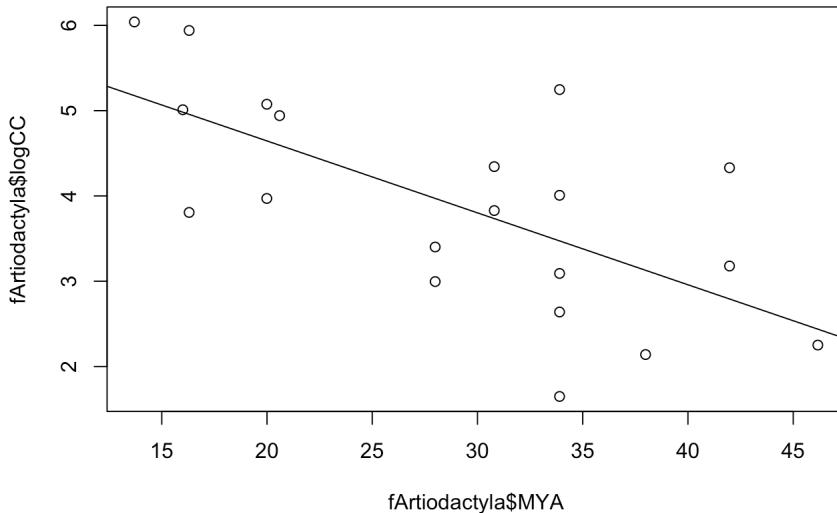
```
pander(summary(Fossil_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
<b>MYA</b>	-0.04671	0.006292	-7.424	2.323e-12
<b>(Intercept)</b>	5.552	0.175	31.72	5.284e-85

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
227	1.386	0.1968	0.1932

```
## Artiodactyla
fArtiodactyla <- filter(.data=fossils_edit, Taxon == "Artiodactyla")
Art_Fossil_vs_Time <- lm(data=fArtiodactyla, logCC ~ MYA)
plot(fArtiodactyla$MYA, fArtiodactyla$logCC)
abline(Art_Fossil_vs_Time)
```



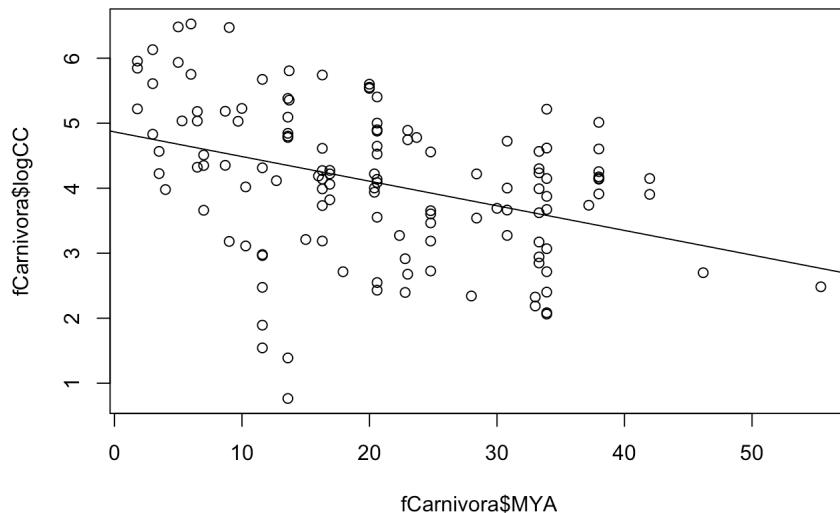
```
pander(summary(Art_Fossil_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	-0.08435	0.02263	-3.727	0.001542
(Intercept)	6.332	0.6884	9.199	3.178e-08

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
20	0.9599	0.4356	0.4042

```
## Carnivora
fCarnivora <- filter(.data=fossils_edit, Taxon == "Carnivora")
Carn_Fossil_vs_Time <- lm(data=fCarnivora, logCC ~ MYA)
plot(fCarnivora$MYA, fCarnivora$logCC)
abline(Carn_Fossil_vs_Time)
```



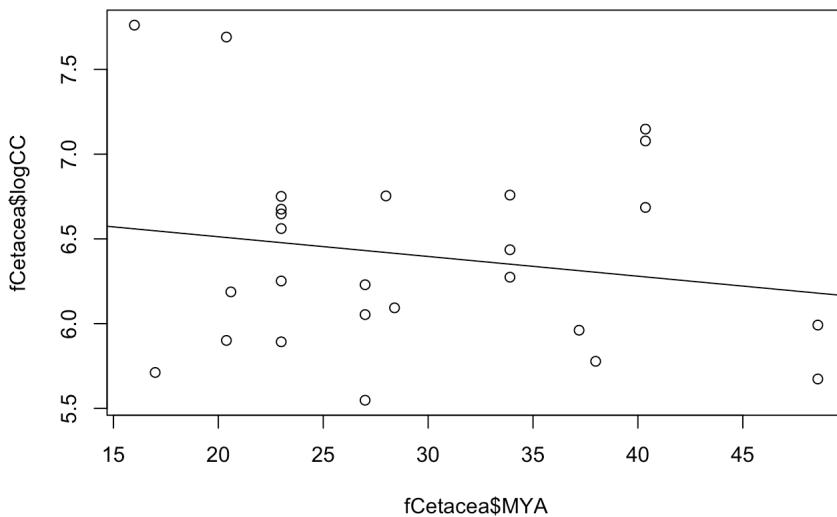
```
pander(summary(Carn_Fossil_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	-0.03792	0.008146	-4.655	8.027e-06
(Intercept)	4.867	0.1926	25.27	2.21e-51

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
129	1.056	0.1458	0.139

```
## Cetacea
fCetacea <- filter(.data=fossils_edit, Taxon == "Cetacea")
Cet_Fossil_vs_Time <- lm(data=fCetacea, logCC ~ MYA)
plot(fCetacea$MYA, fCetacea$logCC)
abline(Cet_Fossil_vs_Time)
```



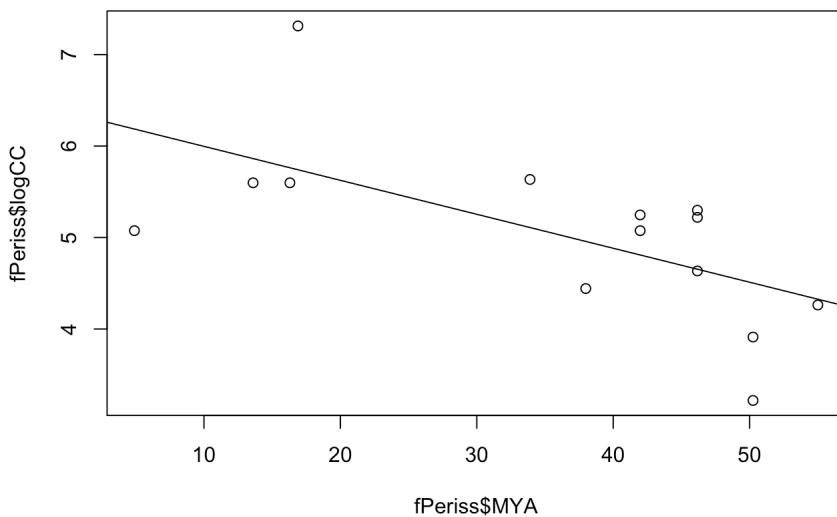
```
pander(summary(Cet_Fossil_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
<b>MYA</b>	-0.01167	0.01265	-0.9226	0.3654
<b>(Intercept)</b>	6.747	0.3892	17.33	4.484e-15

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
26	0.5838	0.03425	-0.005985

```
## Perissodactyla
fPeriss <- filter(.data=fossils_edit, Taxon == "Perissodactyla")
Per_Fossil_vs_Time <- lm(data=fPeriss, logCC ~ MYA)
plot(fPeriss$MYA, fPeriss$logCC)
abline(Per_Fossil_vs_Time)
```



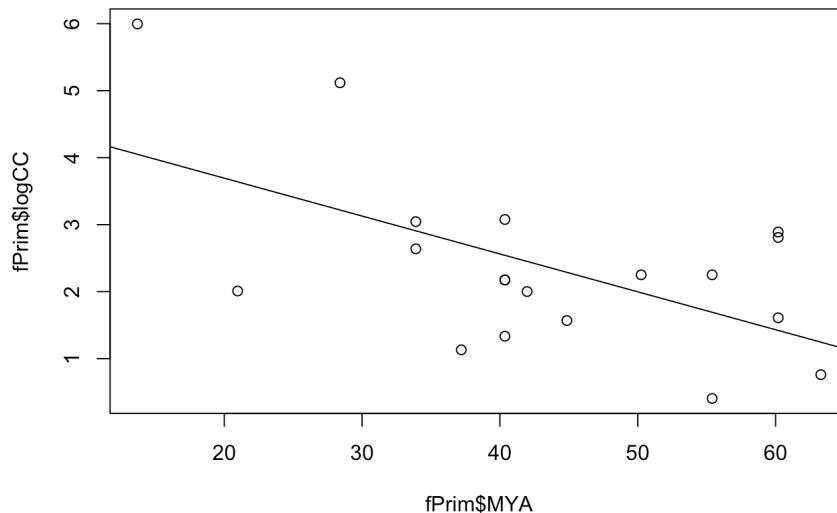
```
pander(summary(Per_Fossil_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	-0.03714	0.01346	-2.76	0.01728
(Intercept)	6.368	0.5255	12.12	4.329e-08

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
14	0.7822	0.3883	0.3373

```
## Primates
fPrim <- filter(.data=fossils_edit, Taxon == "Primates")
Prim_Fossil_vs_Time <- lm(data=fPrim, logCC ~ MYA)
plot(fPrim$MYA, fPrim$logCC)
abline(Prim_Fossil_vs_Time)
```



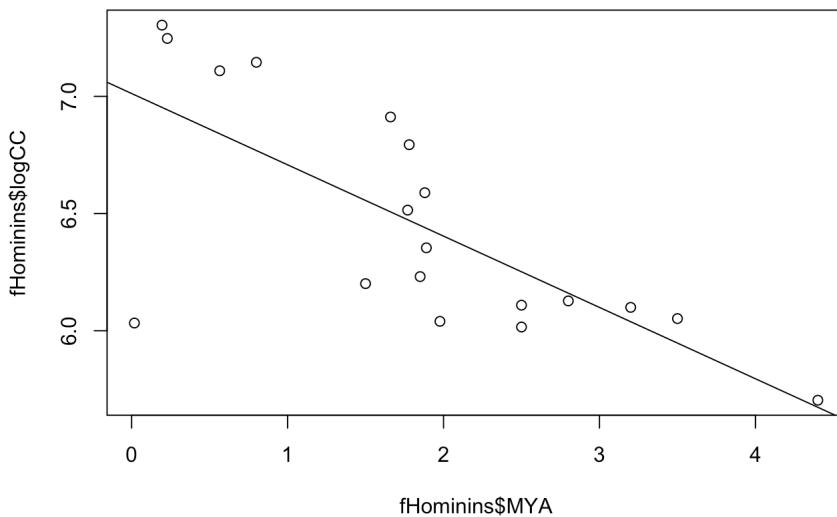
```
pander(summary(Prim_Fossil_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	-0.0566	0.01929	-2.934	0.009277
(Intercept)	4.828	0.8734	5.528	3.691e-05

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
19	1.132	0.3361	0.297

```
## Hominins
fHominins <- filter(.data=fossils_edit, Taxon == "Hominins")
Hom_Fossil_vs_Time <- lm(data=fHominins, logCC ~ MYA)
plot(fHominins$MYA, fHominins$logCC)
abline(Hom_Fossil_vs_Time)
```



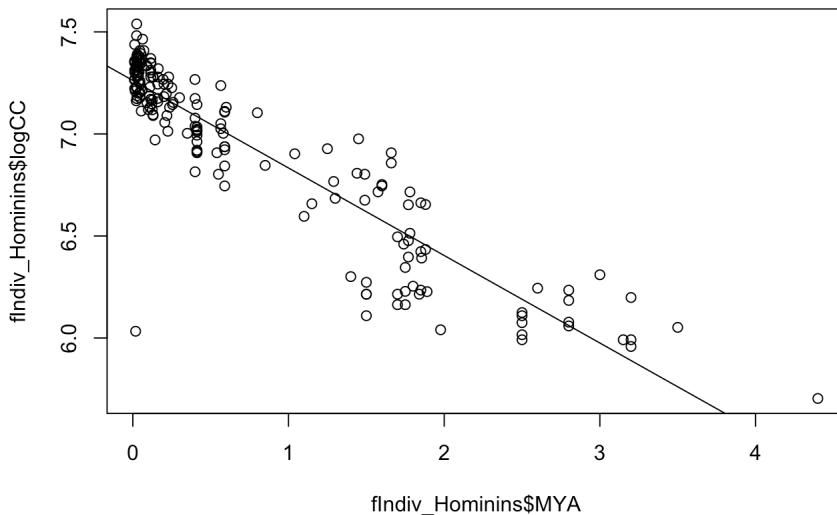
```
pander(summary(Hom_Fossil_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
<b>MYA</b>	-0.3042	0.07072	-4.302	0.000483
<b>(Intercept)</b>	7.012	0.1531	45.82	2.975e-19

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
19	0.3498	0.5212	0.493

```
## Individualized Hominins
fIndiv_Hominins <- filter(.data=fossils_edit, Taxon == "Indiv_Hominins")
Indiv_Hom_Fossil_vs_Time <- lm(data=fIndiv_Hominins, logCC ~ MYA)
plot(fIndiv_Hominins$MYA, fIndiv_Hominins$logCC)
abline(Indiv_Hom_Fossil_vs_Time)
```



```
pander(summary(Indiv_Hom_Fossil_vs_Time))
```

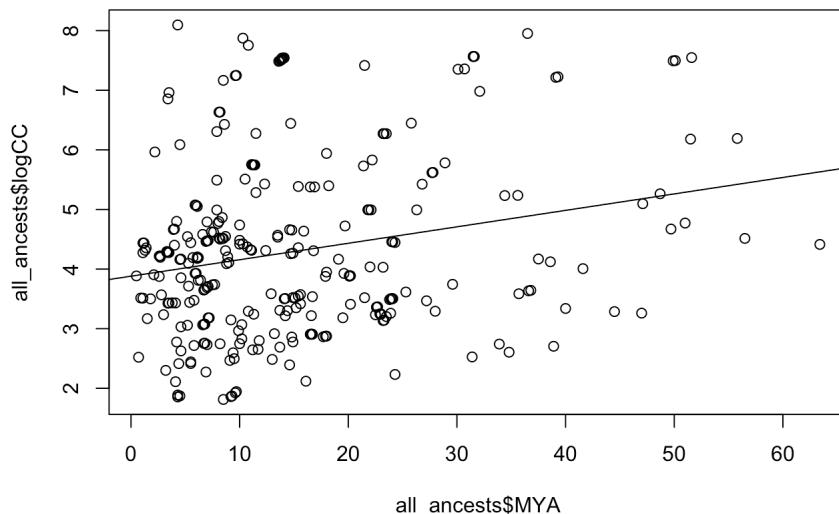
	Estimate	Std. Error	t value	Pr(> t )
MYA	-0.429	0.01393	-30.79	3.822e-75
(Intercept)	7.262	0.01675	433.5	1.062e-282

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
189	0.1793	0.8352	0.8343

## Ancestral CC vs. Time

```
# All Taxa
Ancest_vs_Time <- lm(data=all_ancests, logCC ~ MYA)
plot(all_ancests$MYA, all_ancests$logCC)
abline(Ancest_vs_Time)
```



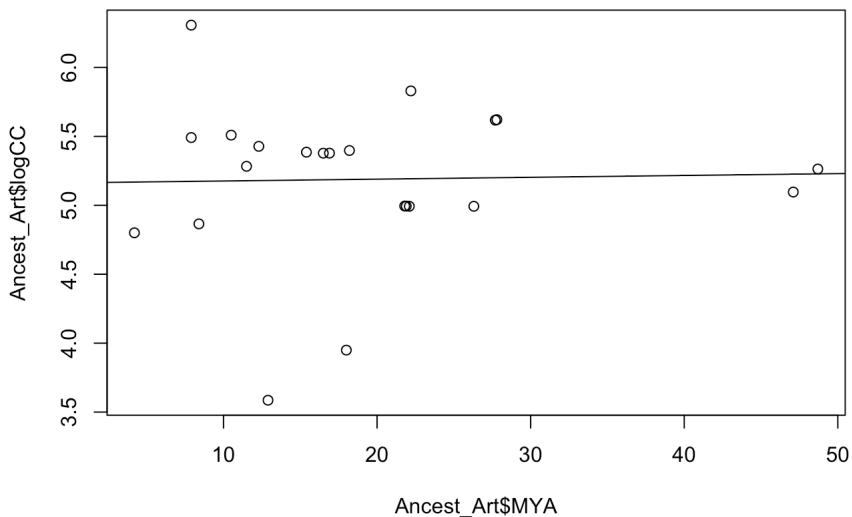
```
pander(summary(Ancest_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	0.02763	0.006921	3.992	8.323e-05
(Intercept)	3.881	0.1352	28.7	2.512e-86

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
289	1.431	0.05261	0.04931

```
# Artiodactyla
Ancest_Art <- filter(all_ancests, Taxon=="Artiodactyla")
Ancest_Art_vs_Time <- lm(data=Ancest_Art, logCC ~ MYA)
plot(Ancest_Art$MYA, Ancest_Art$logCC)
abline(Ancest_Art_vs_Time)
```



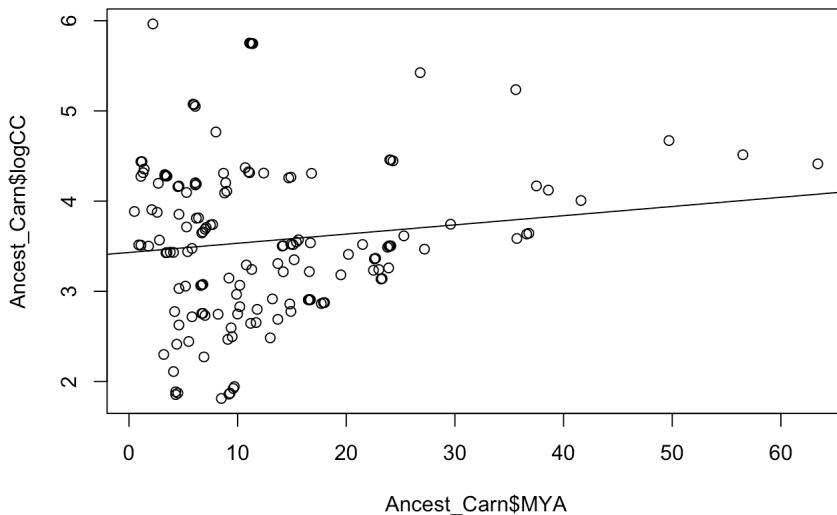
```
pander(summary(Ancest_Art_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	0.001355	0.01131	0.1199	0.9058
(Intercept)	5.163	0.2526	20.44	7.155e-15

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
22	0.5903	0.0007177	-0.04925

```
# Carnivora
Ancest_Carn <- filter(all_ancests, Taxon=="Carnivora")
Ancest_Carn_vs_Time <- lm(data=Ancest_Carn, logCC ~ MYA)
plot(Ancest_Carn$MYA, Ancest_Carn$logCC)
abline(Ancest_Carn_vs_Time)
```



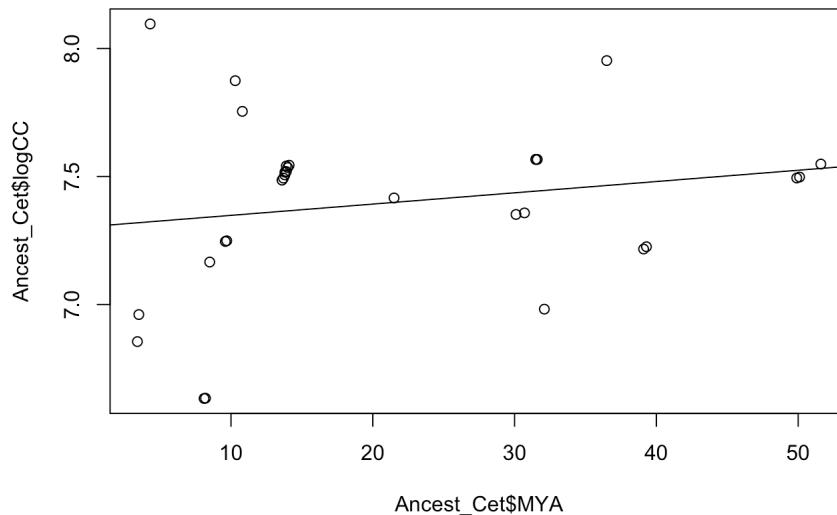
```
pander(summary(Ancest_Carn_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	0.01021	0.006305	1.619	0.1074
(Intercept)	3.431	0.1055	32.51	7.51e-71

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
156	0.8517	0.01674	0.01036

```
# Cetacea
Ancest_Cet <- filter(all_ancests, Taxon=="Cetacea")
Ancest_Cet_vs_Time <- lm(data=Ancest_Cet, logCC ~ MYA)
plot(Ancest_Cet$MYA, Ancest_Cet$logCC)
abline(Ancest_Cet_vs_Time)
```



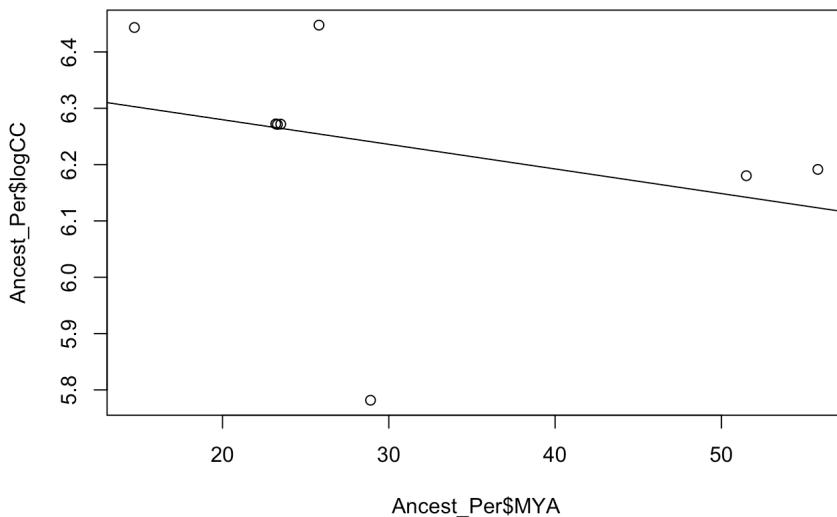
```
pander(summary(Ancest_Cet_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	0.004412	0.004187	1.054	0.3007
(Intercept)	7.304	0.1079	67.7	1.76e-33

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
31	0.3354	0.03688	0.003673

```
# Perissodactyla
Ancest_Per <- filter(all_ancests, Taxon=="Perissodactyla")
Ancest_Per_vs_Time <- lm(data=Ancest_Per, logCC ~ MYA)
plot(Ancest_Per$MYA, Ancest_Per$logCC)
abline(Ancest_Per_vs_Time)
```



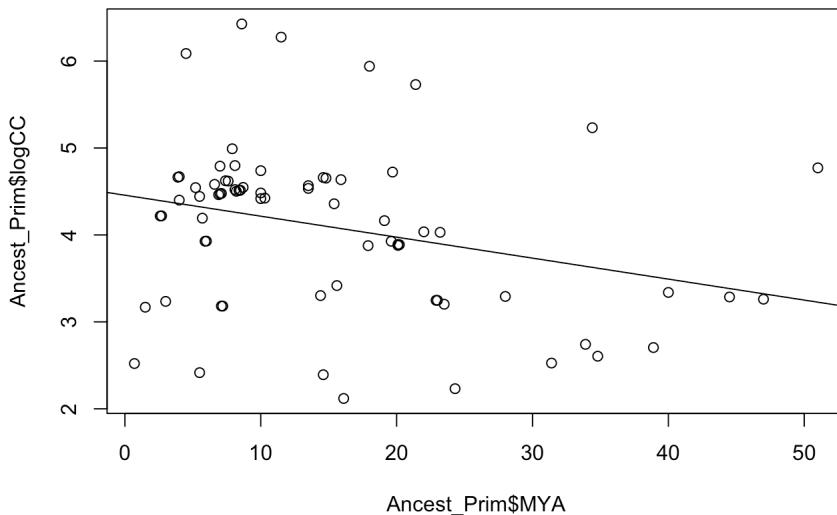
```
pander(summary(Ancest_Per_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	-0.004376	0.005503	-0.7952	0.4568
(Intercept)	6.367	0.1858	34.27	4.109e-08

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
8	0.2138	0.09534	-0.05543

```
# Primates
Ancest_Prim <- filter(all_ancests, Taxon=="Primates")
Ancest_Prim_vs_Time <- lm(data=Ancest_Prim, logCC ~ MYA)
plot(Ancest_Prim$MYA, Ancest_Prim$logCC)
abline(Ancest_Prim_vs_Time)
```



```
pander(summary(Ancest_Prim_vs_Time))
```

	Estimate	Std. Error	t value	Pr(> t )
MYA	-0.02413	0.00934	-2.583	0.01188
(Intercept)	4.457	0.1772	25.15	8.902e-37

Fitting linear model: logCC ~ MYA

Observations	Residual Std. Error	R <sup>2</sup>	Adjusted R <sup>2</sup>
72	0.9067	0.08703	0.07399

## CC vs. Time: Results Tables

```
## Fossil CC vs. Time
stargazer(Fossil_vs_Time, Art_Fossil_vs_Time, Carn_Fossil_vs_Time, Cet_Fossil_vs_Time, Per_Fossil_vs_Time, Prim_Fossil_vs_Time, Hom_Fossil_vs_Time, Indiv_Hom_Fossil_vs_Time,
           type="html", column.labels = c("All Taxa", "Artiodactyla", "Carnivora", "Cetacea", "Perissodactyla", "Primates", "Hominins", "Individualized Hominins"),
           single.row=FALSE, align=TRUE, notes.align = "l", no.space = TRUE,
           omit.table.layout=c("#"), df=FALSE, report="vcstp*",
           title = "Fossil CC vs. Time",
           star.cutoffs=c(0.05, 0.01, 0.001),
           covariate.labels = c("Ma", "(Intercept)"),
           dep.var.labels = "",
           dep.var.caption = "log(CC) by Taxa",
           out="FossilCCvTime_SummaryTable.htm")
```

### Fossil CC vs. Time

	log(CC) by Taxa							
	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	Hominins	Individualized Hominins
Ma	-0.047 (0.006)	-0.084 (0.023)	-0.038 (0.008)	-0.012 (0.013)	-0.037 (0.013)	-0.057 (0.019)	-0.304 (0.071)	-0.429 (0.014)
	t = -7.424 p = 0.000***	t = -3.727 p = 0.002**	t = -4.655 p = 0.00001***	t = -0.923 p = 0.366	t = -2.760 p = 0.018*	t = -2.934 p = 0.010**	t = -4.302 p = 0.0005***	t = -30.788 p = 0.000***
(Intercept)	5.552 (0.175)	6.332 (0.688)	4.867 (0.193)	6.747 (0.389)	6.368 (0.525)	4.828 (0.873)	7.012 (0.153)	7.262 (0.017)
	t = 31.722 p = 0.00000***	t = 9.199 p = 0.00000***	t = 25.271 p = 0.000***	t = 17.333 p = 0.000***	t = 12.120 p = 0.00000***	t = 5.528 p = 0.00004***	t = 45.817 p = 0.000***	t = 433.496 p = 0.000***
Observations	227	20	129	26	14	19	19	189
R <sup>2</sup>	0.197	0.436	0.146	0.034	0.388	0.336	0.521	0.835
Adjusted R <sup>2</sup>	0.193	0.404	0.139	-0.006	0.337	0.297	0.493	0.834
Residual Std. Error	1.386	0.960	1.056	0.584	0.782	1.132	0.350	0.179
F Statistic	55.116***	13.892**	21.671***	0.851	7.617*	8.606**	18.506***	947.914***

Note: p<0.05; **p<0.01**; p<0.001

```
## Ancestral CC vs. Time
stargazer(Ancest_vs_Time, Ancest_Art_vs_Time, Ancest_Carn_vs_Time, Ancest_Cet_vs_Time, Ancest_Per_vs_Time, Ancest_Prim_vs_Time,
           type="html", column.labels = c("All Taxa", "Artiodactyla", "Carnivora", "Cetacea", "Perissodactyla", "Primates", "Hominins", "Individualized Hominins"),
           single.row=FALSE, align=TRUE, notes.align = "l", no.space = TRUE,
           omit.table.layout=c("#"), df=FALSE, report="vcstp*",
           title = "Ancestral CC vs. Time",
           star.cutoffs=c(0.05, 0.01, 0.001),
           covariate.labels = c("Ma", "(Intercept)"),
           dep.var.labels = "",
           dep.var.caption = "log(CC) by Taxa",
           out="AncestCCvTime_SummaryTable.htm")
```

### Ancestral CC vs. Time

	log(CC) by Taxa					
	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates
Ma	0.028 (0.007)	0.001 (0.011)	0.010 (0.006)	0.004 (0.004)	-0.004 (0.006)	-0.024 (0.009)
	t = 3.992 p = 0.120	t = 1.619 p = 0.054	t = -0.795 p = -0.795	t = -2.583 p = -2.583		

(Intercept)	p = 0.0001***	p = 0.906	p = 0.108	p = 0.301	p = 0.457	p = 0.012*
	3.881	5.163	3.431	7.304	6.367	4.457
	(0.135)	(0.253)	(0.106)	(0.108)	(0.186)	(0.177)
	t = 28.700	t = 20.436	t = 32.510	t = 67.705	t = 34.274	t = 25.146
	p = 0.000***	p = 0.000***	p = 0.000***	p = 0.000***	p = 0.00000***	p = 0.000***
Observations	289	22	156	31	8	72
R <sup>2</sup>	0.053	0.001	0.017	0.037	0.095	0.087
Adjusted R <sup>2</sup>	0.049	-0.049	0.010	0.004	-0.055	0.074
Residual Std. Error	1.431	0.590	0.852	0.335	0.214	0.907
F Statistic	15.937***	0.014	2.622	1.111	0.632	6.673*

Note: p<0.05; **p<0.01**; p<0.001

## CC vs. Climate

### Calculate Climatic Intervals

```
brain_climate <- new_data
  data <- brain_climate$MYA
results <- numeric(254) # Create empty vector
```

### 1MY Measures

```
## MEAN
Mean1MY <- function(data){
  start.time <- data
  end.time <- start.time + 1
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  results <- mean(filteredZachos$o18)
  return(results) }
mean1MY <- sapply(X=data, FUN=Mean1MY)
brain_climate$mean1MY <- rescale(mean1MY, c(-1,1)) #scale at the end

## SD
SD1MY <- function(data){
  start.time <- data
  end.time <- start.time + 1
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  results <- sd(filteredZachos$o18)
  return(results) }
sd1MY <- sapply(X=data, FUN=SD1MY)
brain_climate$sd1MY <- rescale(sd1MY, c(-1,1))

## SLOPE
Slope1MY <- function(data){
  start.time <- data
  end.time <- start.time + 1
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  Model <- lm(o18 ~ age, data=filteredZachos)
  slope <- Model$coefficients[2]
  results <- slope
  return(results) }
slope1MY <- sapply(X=data, FUN=Slope1MY)
brain_climate$slope1MY <- rescale(slope1MY, c(-1,1))
```

### 400KY Measures

```

## MEAN
Mean400KY <- function(data){
  start.time <- data
  end.time <- start.time + .4
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  results <- mean(filteredZachos$o18)
  return(results) }
mean400KY <- sapply(X=data, FUN=Mean400KY)
brain_climate$mean400KY <- rescale(mean400KY, c(-1,1))

## SD
SD400KY <- function(data){
  start.time <- data
  end.time <- start.time + .4
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  results <- sd(filteredZachos$o18)
  return(results) }
sd400KY <- sapply(X=data, FUN=SD400KY)
brain_climate$sd400KY <- rescale(sd400KY, c(-1,1))

## SLOPE
Slope400KY <- function(data){
  start.time <- data
  end.time <- start.time + .4
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  Model <- lm(o18 ~ age, data=filteredZachos)
  slope <- Model$coefficients[2]
  results <- slope
  return(results) }
slope400KY <- sapply(X=data, FUN=Slope400KY)
brain_climate$slope400KY <- rescale(slope400KY, c(-1,1))

```

## 200KY Measures

```

## MEAN
Mean200KY <- function(data){
  start.time <- data
  end.time <- start.time + .2
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  results <- mean(filteredZachos$o18, na.rm = TRUE)
  return(results) }
mean200KY <- sapply(X=data, FUN=Mean200KY)
brain_climate$mean200KY <- rescale(mean200KY, c(-1,1))

## SD
SD200KY <- function(data){
  start.time <- data
  end.time <- start.time + .2
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  results <- sd(filteredZachos$o18)
  return(results) }
sd200KY <- sapply(X=data, FUN=SD200KY)
brain_climate$sd200KY <- rescale(sd200KY, c(-1,1))

## SLOPE
Slope200KY <- function(data){
  start.time <- data
  end.time <- start.time + .2
  filteredZachos <- filter(zachos,
    age >= start.time,
    age <= end.time)
  Model <- lm(o18 ~ age, data=filteredZachos)
  slope <- Model$coefficients[2]
  results <- slope
  return(results) }
slope200KY <- sapply(X=data, FUN=Slope200KY)
brain_climate$slope200KY <- rescale(slope200KY, c(-1,1))

```

## Average time bins: Fossils, then Ancestals

```

fossils_climate <- filter(brain_climate, Fossil=="Yes", Taxon!="Indiv_Hominins")
ancest_climate <- filter(brain_climate, Fossil=="No")
IndivHom_climate <- filter(brain_climate, Taxon=="Indiv_Hominins")

makeMean <- function(df) {
  group_by(df, MYA) %>%
  summarise(logCC = mean(logCC, na.rm = TRUE),
  meanOxy1 = mean(mean1MY, na.rm = TRUE),
  meanOxy400 = mean(mean400KY, na.rm = TRUE),
  meanOxy200 = mean(mean200KY, na.rm = TRUE),
  sdOxy1 = mean(sd1MY, na.rm = TRUE),
  sdOxy400 = mean(sd400KY, na.rm = TRUE),
  sdOxy200 = mean(sd200KY, na.rm = TRUE),
  slopeOxy1 = mean(slope1MY, na.rm = TRUE),
  slopeOxy400 = mean(slope400KY, na.rm = TRUE),
  slopeOxy200 = mean(slope200KY, na.rm = TRUE)
  )
}

# Run mean function on each group
meanFossil <- makeMean(fossils_climate)
str(meanFossil)

```

```

## Classes 'tbl_df', 'tbl' and 'data.frame':    71 obs. of  11 variables:
## $ MYA      : num  0.018 0.195 0.229 0.565 0.8 1.5 1.66 1.77 1.78 1.8 ...
## $ logCC     : num  6.03 7.3 7.25 7.11 7.15 ...
## $ meanOxy1  : num  0.999 0.964 0.969 0.927 0.89 ...
## $ meanOxy400: num  0.973 0.956 0.959 0.956 0.882 ...
## $ meanOxy200: num  0.991 0.934 0.923 0.96 0.896 ...
## $ sdOxy1    : num  0.5207 0.4431 0.431 0.2771 0.0409 ...
## $ sdOxy400  : num  0.613 0.489 0.506 0.345 0.109 ...
## $ sdOxy200  : num  0.41513 0.16086 0.36003 0.24844 0.00535 ...
## $ slopeOxy1 : num  0.09996 0.05898 0.03699 -0.00297 0.1372 ...
## $ slopeOxy400: num  -0.5419 0.1496 -0.122 -0.0668 -0.3192 ...
## $ slopeOxy200: num  0.824 0.932 0.857 0.958 0.871 ...

```

```

meanAncest <- makeMean(ancest_climate)
str(meanAncest)

```

```

## Classes 'tbl_df', 'tbl' and 'data.frame':    240 obs. of  11 variables:
## $ MYA      : num  0.2 0.8 0.9 0.9 1 ...
## $ logCC     : num  3.88 2.52 3.51 4.36 4.44 ...
## $ meanOxy1  : num  0.966 0.889 0.869 0.869 0.86 ...
## $ meanOxy400: num  0.957 0.881 0.875 0.875 0.865 ...
## $ meanOxy200: num  0.934 0.893 0.848 0.848 0.835 ...
## $ sdOxy1    : num  0.4371 0.0383 -0.0274 -0.0274 -0.0779 ...
## $ sdOxy400  : num  0.479 0.105 0.122 0.122 0.137 ...
## $ sdOxy200  : num  0.17613 0.00276 -0.01142 -0.01142 -0.02391 ...
## $ slopeOxy1 : num  0.0413 0.1437 0.1166 0.1166 0.1137 ...
## $ slopeOxy400: num  0.02891 -0.30155 0.07974 0.07974 0.00128 ...
## $ slopeOxy200: num  0.904 0.875 0.865 0.865 0.88 ...

```

```

meanIndivHom <- makeMean(IndivHom_climate)
str(meanIndivHom)

```

```

## Classes 'tbl_df', 'tbl' and 'data.frame':    95 obs. of  11 variables:
## $ MYA      : num  0.0102 0.012 0.015 0.018 0.022 0.024 0.0248 0.026 0.027 0.0275 ...
## $ logCC     : num  7.27 7.33 7.21 6.03 7.24 ...
## $ meanOxy1  : num  1 1 1 0.999 0.995 ...
## $ meanOxy400: num  0.977 0.974 0.975 0.973 0.968 ...
## $ meanOxy200: num  1 0.997 0.998 0.991 0.978 ...
## $ sdOxy1    : num  0.53 0.529 0.527 0.521 0.502 ...
## $ sdOxy400  : num  0.589 0.598 0.606 0.613 0.59 ...
## $ sdOxy200  : num  0.412 0.416 0.42 0.415 0.378 ...
## $ slopeOxy1 : num  0.0996 0.1014 0.0947 0.1 0.1207 ...
## $ slopeOxy400: num  -0.534 -0.555 -0.576 -0.542 -0.453 ...
## $ slopeOxy200: num  0.835 0.833 0.824 0.824 0.836 ...

```

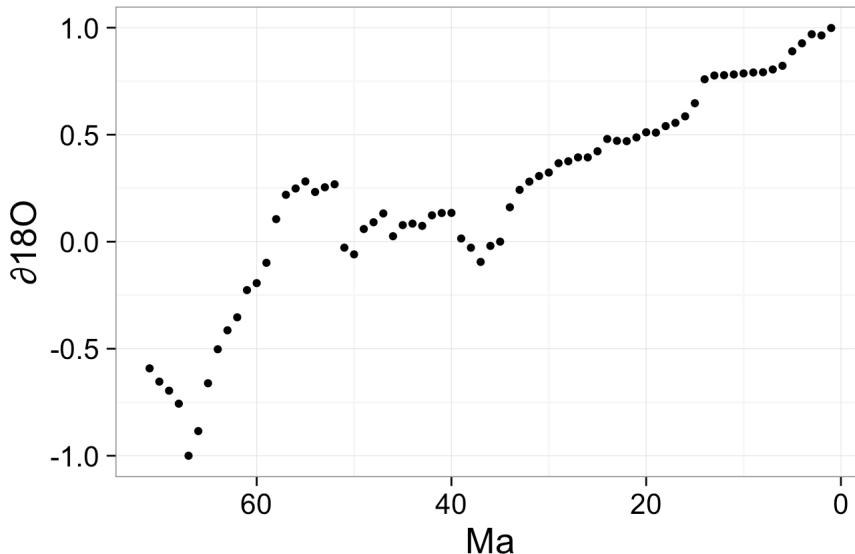
## Plot grouped time series - note that they are both trended

```

plot1 <- qplot(x=1:nrow(meanFossil), y=meanOxy1, data=meanFossil) + labs(title="Non-detrended  $\delta^{18}\text{O}$ ", x="Ma", y=" $\delta^{18}\text{O}$ ") + scale_x_reverse() + theme_bw(20) +
theme(plot.title = element_text(vjust = 2))
plot1

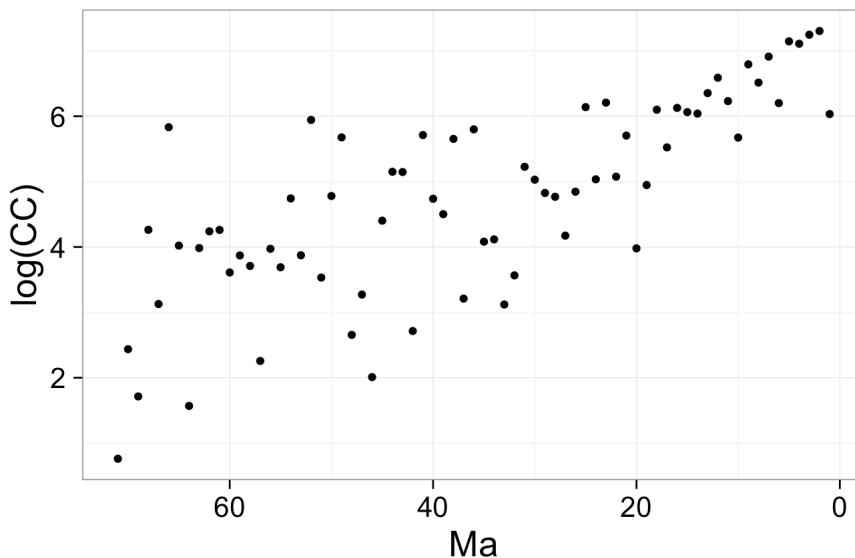
```

## Non-detrended $\delta^{18}\text{O}$



```
plot2 <- qplot(x=1:nrow(meanFossil), y=logCC, data=meanFossil) + labs(title="Non-detrended CC", x="Ma", y="log(CC)") + scale_x_reverse() + theme_bw(20) + theme(plot.title = element_text(vjust = 2))  
plot2
```

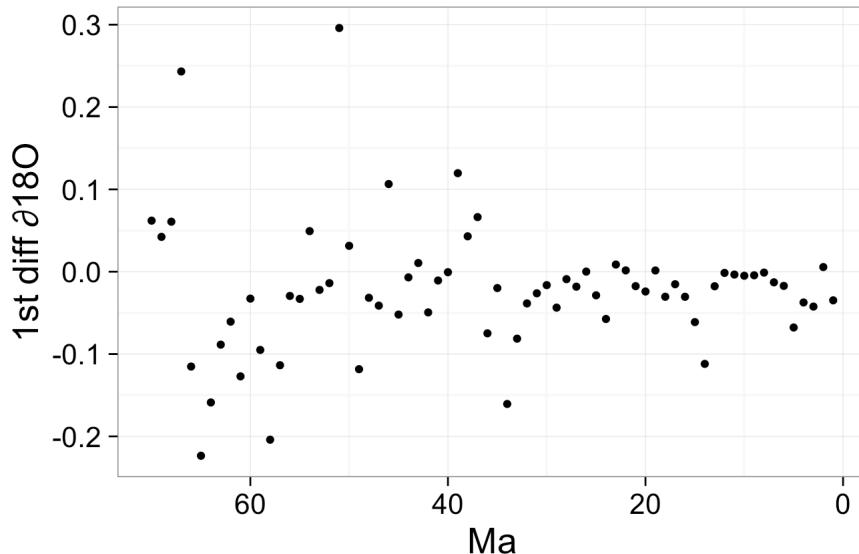
## Non-detrended CC



**Plot differenced time series - note that differencing removes trend**

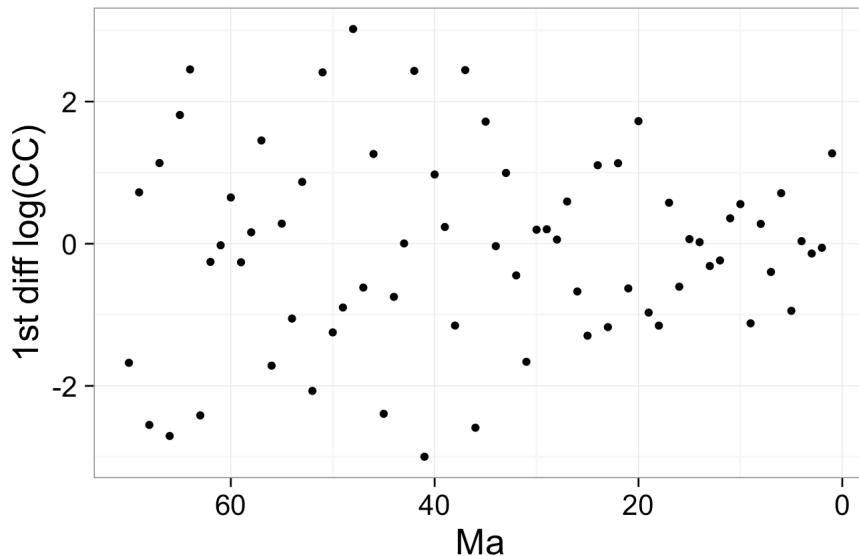
```
plot3 <- qplot(x=1:(nrow(meanFossil)-1), y=diff(meanFossil$meanOxy1)) + labs(title="Detrended  $\delta^{18}\text{O}$ ", x="Ma", y="1s t diff  $\delta^{18}\text{O}$ ") + scale_x_reverse() + theme_bw(20) + theme(plot.title = element_text(vjust = 2))  
plot3
```

## Detrended $\delta^{18}\text{O}$



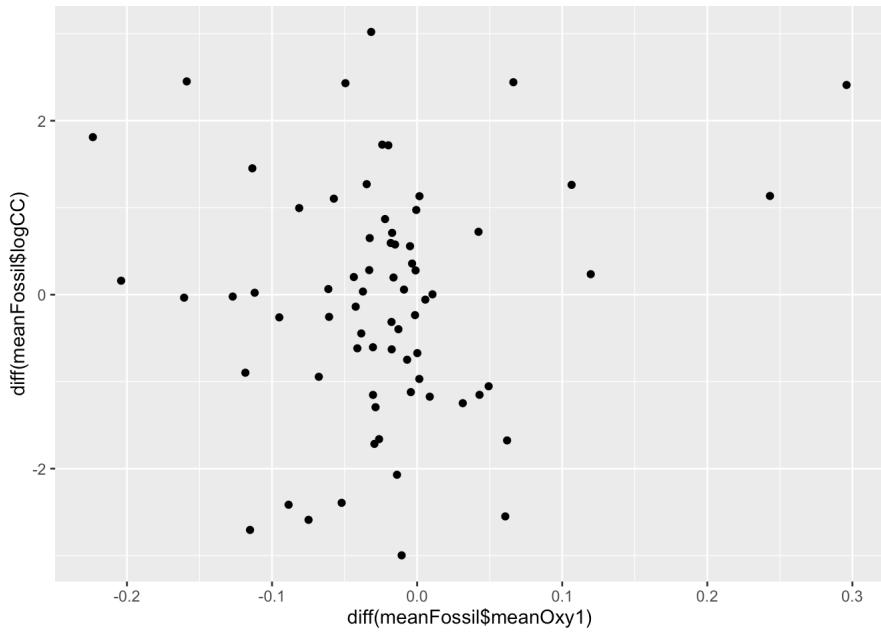
```
plot4 <- qplot(x=1:(nrow(meanFossil)-1), y=diff(meanFossil$logCC)) + labs(title="Detrended CC", x="Ma", y="1st diff log(CC)") + scale_x_reverse() + theme_bw(20) + theme(plot.title = element_text(vjust = 2))
plot4
```

## Detrended CC



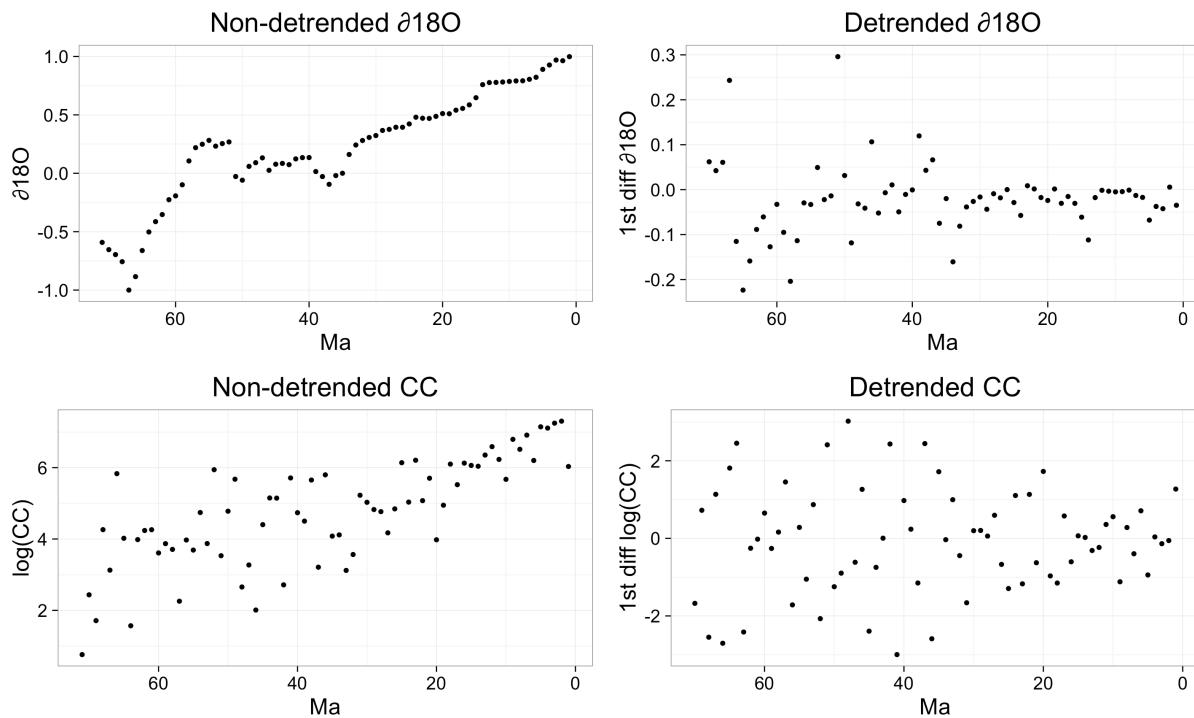
Plot the detrended time series against one another

```
qplot(x=diff(meanFossil$meanOxy1), y=diff(meanFossil$logCC))
```



### Multiplot: Non-detrended vs. Detrended

```
Rmisc::multiplot(plot1, plot2, plot3, plot4, cols=2)
```



## Brain-Climate Analyses

### Multiple regression function

```

# Argument Descriptions
## tempRes: An integer indicating the temporal resolution of the interval (e.g. 1 = 1My, 400 = 400Ky, 200 = 200Ky
), matching the naming scheme in the meanFossil dataframe.
## Sparse: Whether the multiple regression model should consider predictor interactions (TRUE) or not (FALSE).
## diff: whether or not the data shoul be detrended (by calculting the 1st difference).
doAnalysis <- function(tempRes, sparse=TRUE, diff=TRUE, df) {
  prefix <- ifelse (diff==TRUE, yes = "diff(", no = "")
  suffix <- ifelse (diff==TRUE, yes = ")", no = "")
  indepVars <- paste0(prefix, c("meanOxy", "sdOxy", "slopeOxy"), tempRes, suffix)

  depVar <- paste0(prefix, "logCC", suffix)

  # set up separator string for formula creation
  separator <- ifelse (sparse==TRUE, yes = " + ", no = " * ")

  form <- formula(paste(depVar, paste(indepVars, collapse = separator), sep=" ~ "))
  mod <- lm(formula = form, data = df)
  return(mod)
}

```

## Fossil CC vs. Climate analyses

### 1My Intervals

```

### All fossil taxa, 1My: Non-detrended
fTaxa_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = fossils_climate))
### All fossil taxa, 1My: Detrended
fTaxa_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = fossils_climate))

### fossil Artiodactyla, 1My: Non-detrended
fArt_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Artiodactyla")))
### fossil Artiodactyla, 1My: Detrended
fArt_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Artiodactyla")))

### fossil Carnivora, 1My: Non-detrended
fCarn_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Carnivora")))
### fossil Carnivora, 1My: Detrended
fCarn_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Carnivora")))

### fossil Cetacea, 1My: Non-detrended
fCet_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Cetacea")))
### fossil Cetacea, 1My: Detrended
fCet_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Cetacea")))

### fossil Perissodactyla, 1My: Non-detrended
fPer_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Perissodactyla")))
### fossil Perissodactyla, 1My: Detrended
fPer_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Perissodactyla")))

### fossil Primates, 1My: Non-detrended
fPrim_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Primates")))
### fossil Primates, 1My: Detrended
fPrim_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Primates")))

### fossil Hominins, 1My: Non-detrended
fHom_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Hominins")))
### fossil Hominins, 1My: Detrended
fHom_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Hominins")))

### fossil Individualized Hominins, 1My: Non-detrended
fIndHom_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = IndivHom_climate))
### fossil Individualized Hominins, 1My: Detrended
fIndHom_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = IndivHom_climate))

```

### 400Ky Intervals

```

### All fossil taxa, 400Ky: Non-detrended
fTaxa_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = fossils_climate))
### All fossil taxa, 400Ky: Detrended
fTaxa_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = fossils_climate))

### fossil Artiodactyla, 400Ky: Non-detrended
fArt_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Artiodactyla")))
### fossil Artiodactyla, 400Ky: Detrended
fArt_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Artiodactyla")))

### fossil Carnivora, 400Ky: Non-detrended
fCarn_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Carnivora")))
### fossil Carnivora, 400Ky: Detrended
fCarn_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Carnivora")))

### fossil Cetacea, 400Ky: Non-detrended
fCet_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Cetacea")))
### fossil Cetacea, 400Ky: Detrended
fCet_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Cetacea")))

### fossil Perissodactyla, 400Ky: Non-detrended
fPer_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Perissodactyla")))
### fossil Perissodactyla, 400Ky: Detrended
fPer_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Perissodactyla")))

### fossil Primates, 400Ky: Non-detrended
fPrim_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Primates")))
### fossil Primates, 400Ky: Detrended
fPrim_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Primates")))

### fossil Hominins, 400Ky: Non-detrended
fHom_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Hominins")))
### fossil Hominins, 400Ky: Detrended
fHom_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Hominins")))

### fossil Individualized Hominins, 400Ky: Non-detrended
fIndHom_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = IndivHom_climate))
### fossil Individualized Hominins, 400Ky: Detrended
fIndHom_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = IndivHom_climate))

```

## 200Ky Intervals

```

### All fossil taxa, 200Ky: Non-detrended
fTaxa_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = fossils_climate))
### All fossil taxa, 200Ky: Detrended
fTaxa_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = fossils_climate))

### fossil Artiodactyla, 200Ky: Non-detrended
fArt_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Artiodactyla")))
### fossil Artiodactyla, 200Ky: Detrended
fArt_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Artiodactyla")))

### fossil Carnivora, 200Ky: Non-detrended
fCarn_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Carnivora")))
### fossil Carnivora, 200Ky: Detrended
fCarn_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Carnivora")))

### fossil Cetacea, 200Ky: Non-detrended
fCet_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Cetacea")))
### fossil Cetacea, 200Ky: Detrended
fCet_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Cetacea")))

### fossil Perissodactyla, 200Ky: Non-detrended
fPer_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Perissodactyla")))
### fossil Perissodactyla, 200Ky: Detrended
fPer_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Perissodactyla")))

### fossil Primates, 200Ky: Non-detrended
fPrim_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Primates")))
### fossil Primates, 200Ky: Detrended
fPrim_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Primates")))

### fossil Hominins, 200Ky: Non-detrended
fHom_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(fossils_climate, Taxon == "Hominins")))
### fossil Hominins, 200Ky: Detrended
fHom_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(fossils_climate, Taxon == "Hominins")))

### fossil Individualized Hominins, 200Ky: Non-detrended
fIndHom_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = IndivHom_climate))
### fossil Individualized Hominins, 200Ky: Detrended
fIndHom_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = IndivHom_climate))

```

## Ancestral CC vs. Climate analyses

### 1My Intervals

```

### All ancestral taxa, 1My: Non-detrended
aTaxa_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = all_ancests))
### All ancestral taxa, 1My: Detrended
aTaxa_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = all_ancests))

### ancestral Artiodactyla, 1My: Non-detrended
aArt_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Artiodactyla")))
### ancestral Artiodactyla, 1My: Detrended
aArt_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Artiodactyla")))

### ancestral Carnivora, 1My: Non-detrended
aCarn_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Carnivora")))
### ancestral Carnivora, 1My: Detrended
aCarn_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Carnivora")))

### ancestral Cetacea, 1My: Non-detrended
aCet_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Cetacea")))
### ancestral Cetacea, 1My: Detrended
aCet_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Cetacea")))

### ancestral Perissodactyla, 1My: Non-detrended
aPer_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Perissodactyla")))
### ancestral Perissodactyla, 1My: Detrended
aPer_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Perissodactyla")))

### ancestral Primates, 1My: Non-detrended
aPrim_1M_ND <- doAnalysis(1, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Primates")))
### ancestral Primates, 1My: Detrended
aPrim_1M_D <- doAnalysis(1, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Primates")))

```

## 400Ky Intervals

```

### All ancestral taxa, 400Ky: Non-detrended
aTaxa_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = all_ancests))
### All ancestral taxa, 400Ky: Detrended
aTaxa_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = all_ancests))

### ancestral Artiodactyla, 400Ky: Non-detrended
aArt_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Artiodactyla")))
### ancestral Artiodactyla, 400Ky: Detrended
aArt_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Artiodactyla")))

### ancestral Carnivora, 400Ky: Non-detrended
aCarn_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Carnivora")))
### ancestral Carnivora, 400Ky: Detrended
aCarn_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Carnivora")))

### ancestral Cetacea, 400Ky: Non-detrended
aCet_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Cetacea")))
### ancestral Cetacea, 400Ky: Detrended
aCet_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Cetacea")))

### ancestral Perissodactyla, 400Ky: Non-detrended
aPer_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Perissodactyla")))
### ancestral Perissodactyla, 400Ky: Detrended
aPer_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Perissodactyla")))

### ancestral Primates, 400Ky: Non-detrended
aPrim_400K_ND <- doAnalysis(400, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Primates")))
### ancestral Primates, 400Ky: Detrended
aPrim_400K_D <- doAnalysis(400, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Primates")))

```

## 200Ky Intervals

```

### All ancestral taxa, 200Ky: Non-detrended
aTaxa_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = all_ancests))
### All ancestral taxa, 200Ky: Detrended
aTaxa_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = all_ancests))

### ancestral Artiodactyla, 200Ky: Non-detrended
aArt_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Artiodactyla")))
### ancestral Artiodactyla, 200Ky: Detrended
aArt_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Artiodactyla")))

### ancestral Carnivora, 200Ky: Non-detrended
aCarn_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Carnivora")))
### ancestral Carnivora, 200Ky: Detrended
aCarn_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Carnivora")))

### ancestral Cetacea, 200Ky: Non-detrended
aCet_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Cetacea")))
### ancestral Cetacea, 200Ky: Detrended
aCet_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Cetacea")))

### ancestral Perissodactyla, 200Ky: Non-detrended
aPer_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Perissodactyla")))
### ancestral Perissodactyla, 200Ky: Detrended
aPer_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Perissodactyla")))

### ancestral Primates, 200Ky: Non-detrended
aPrim_200K_ND <- doAnalysis(200, diff=FALSE, df = makeMean(df = filter(all_ancests, Taxon == "Primates")))
### ancestral Primates, 200Ky: Detrended
aPrim_200K_D <- doAnalysis(200, diff=TRUE, df = makeMean(df = filter(all_ancests, Taxon == "Primates")))

```

## Generate Stat Summary Tables

### Rename covariates for table formatting

```

# replace names
renameCovars <- function(data){
  names(data$coefficients) <- c("(Intercept)", "Mean", "SD", "Slope")
  return(data)}

## Fossils Non-Detrended
fTaxa_1M_ND <- renameCovars(fTaxa_1M_ND)
fArt_1M_ND <- renameCovars(fArt_1M_ND)
fCarn_1M_ND <- renameCovars(fCarn_1M_ND)
fCet_1M_ND <- renameCovars(fCet_1M_ND)
fPer_1M_ND <- renameCovars(fPer_1M_ND)
fPrim_1M_ND <- renameCovars(fPrim_1M_ND)
fHom_1M_ND <- renameCovars(fHom_1M_ND)
fIndHom_1M_ND <- renameCovars(fIndHom_1M_ND)

fTaxa_400K_ND <- renameCovars(fTaxa_400K_ND)
fArt_400K_ND <- renameCovars(fArt_400K_ND)
fCarn_400K_ND <- renameCovars(fCarn_400K_ND)
fCet_400K_ND <- renameCovars(fCet_400K_ND)
fPer_400K_ND <- renameCovars(fPer_400K_ND)
fPrim_400K_ND <- renameCovars(fPrim_400K_ND)
fHom_400K_ND <- renameCovars(fHom_400K_ND)
fIndHom_400K_ND <- renameCovars(fIndHom_400K_ND)

fTaxa_200K_ND <- renameCovars(fTaxa_200K_ND)
fArt_200K_ND <- renameCovars(fArt_200K_ND)
fCarn_200K_ND <- renameCovars(fCarn_200K_ND)
fCet_200K_ND <- renameCovars(fCet_200K_ND)
fPer_200K_ND <- renameCovars(fPer_200K_ND)
fPrim_200K_ND <- renameCovars(fPrim_200K_ND)
fHom_200K_ND <- renameCovars(fHom_200K_ND)
fIndHom_200K_ND <- renameCovars(fIndHom_200K_ND)

## Fossils Detrended
fTaxa_1M_D <- renameCovars(fTaxa_1M_D)
fArt_1M_D <- renameCovars(fArt_1M_D)
fCarn_1M_D <- renameCovars(fCarn_1M_D)
fCet_1M_D <- renameCovars(fCet_1M_D)
fPer_1M_D <- renameCovars(fPer_1M_D)

```

```

fPrim_1M_D <- renameCovars(fPrim_1M_D)
fHom_1M_D <- renameCovars(fHom_1M_D)
fIndHom_1M_D <- renameCovars(fIndHom_1M_D)

fTaxa_400K_D <- renameCovars(fTaxa_400K_D)
fArt_400K_D <- renameCovars(fArt_400K_D)
fCarn_400K_D <- renameCovars(fCarn_400K_D)
fCet_400K_D <- renameCovars(fCet_400K_D)
fPer_400K_D <- renameCovars(fPer_400K_D)
fPrim_400K_D <- renameCovars(fPrim_400K_D)
fHom_400K_D <- renameCovars(fHom_400K_D)
fIndHom_400K_D <- renameCovars(fIndHom_400K_D)

fTaxa_200K_D <- renameCovars(fTaxa_200K_D)
fArt_200K_D <- renameCovars(fArt_200K_D)
fCarn_200K_D <- renameCovars(fCarn_200K_D)
fCet_200K_D <- renameCovars(fCet_200K_D)
fPer_200K_D <- renameCovars(fPer_200K_D)
fPrim_200K_D <- renameCovars(fPrim_200K_D)
fHom_200K_D <- renameCovars(fHom_200K_D)
fIndHom_200K_D <- renameCovars(fIndHom_200K_D)

#####
## Ancestrals Non-Detrended
aTaxa_1M_ND <- renameCovars(aTaxa_1M_ND)
aArt_1M_ND <- renameCovars(aArt_1M_ND)
aCarn_1M_ND <- renameCovars(aCarn_1M_ND)
aCet_1M_ND <- renameCovars(aCet_1M_ND)
aPer_1M_ND <- renameCovars(aPer_1M_ND)
aPrim_1M_ND <- renameCovars(aPrim_1M_ND)

aTaxa_400K_ND <- renameCovars(aTaxa_400K_ND)
aArt_400K_ND <- renameCovars(aArt_400K_ND)
aCarn_400K_ND <- renameCovars(aCarn_400K_ND)
aCet_400K_ND <- renameCovars(aCet_400K_ND)
aPer_400K_ND <- renameCovars(aPer_400K_ND)
aPrim_400K_ND <- renameCovars(aPrim_400K_ND)

aTaxa_200K_ND <- renameCovars(aTaxa_200K_ND)
aArt_200K_ND <- renameCovars(aArt_200K_ND)
aCarn_200K_ND <- renameCovars(aCarn_200K_ND)
aCet_200K_ND <- renameCovars(aCet_200K_ND)
aPer_200K_ND <- renameCovars(aPer_200K_ND)
aPrim_200K_ND <- renameCovars(aPrim_200K_ND)

## Ancestrals Detrended
aTaxa_1M_D <- renameCovars(aTaxa_1M_D)
aArt_1M_D <- renameCovars(aArt_1M_D)
aCarn_1M_D <- renameCovars(aCarn_1M_D)
aCet_1M_D <- renameCovars(aCet_1M_D)
aPer_1M_D <- renameCovars(aPer_1M_D)
aPrim_1M_D <- renameCovars(aPrim_1M_D)

aTaxa_400K_D <- renameCovars(aTaxa_400K_D)
aArt_400K_D <- renameCovars(aArt_400K_D)
aCarn_400K_D <- renameCovars(aCarn_400K_D)
aCet_400K_D <- renameCovars(aCet_400K_D)
aPer_400K_D <- renameCovars(aPer_400K_D)
aPrim_400K_D <- renameCovars(aPrim_400K_D)

aTaxa_200K_D <- renameCovars(aTaxa_200K_D)
aArt_200K_D <- renameCovars(aArt_200K_D)
aCarn_200K_D <- renameCovars(aCarn_200K_D)
aCet_200K_D <- renameCovars(aCet_200K_D)
aPer_200K_D <- renameCovars(aPer_200K_D)
aPrim_200K_D <- renameCovars(aPrim_200K_D)

```

## Fossil Results

```

# The package "stargazer" provides a highly customizable function for creating summary tables
# "out=..." argument exports the table as an html file. It can then be opened in excel for further formatting

## Fossil CC vs. Climate: Non-detrended
stargazer(fTaxa_1M_ND, fArt_1M_ND, fCarn_1M_ND, fCet_1M_ND, fPrim_1M_ND, fHom_1M_ND, fIndHom_1M_ND,
           fTaxa_400K_ND, fArt_400K_ND, fCarn_400K_ND, fCet_400K_ND, fPer_400K_ND, fPrim_400K_ND, fHom_400K_ND, fIndHom_400K_ND,
           fTaxa_200K_ND, fArt_200K_ND, fCarn_200K_ND, fCet_200K_ND, fPer_200K_ND, fPrim_200K_ND, fHom_200K_ND, fIndHom_200K_ND,
           type = "html", flip=TRUE, single.row=FALSE, align=TRUE, notes.align = "l", no.space = TRUE,
           omit.table.layout=c("#"), df=FALSE, report="vcstp",
           star.cutoffs=c(0.05, 0.01, 0.001),
           title = "Fossil CC vs. Climate: Non-detrended",
           dep.var.caption = "log(CC) by Taxa and Intervals",
           dep.var.labels = "",
           column.labels = rep(c("All Taxa", "Artiodactyla", "Carnivora", "Cetacea", "Perissodactyla", "Primates",
           "Hominins", "Individualized Hominins"), 3),
           covariate.labels = c("Mean", "SD", "Slope", "(Intercept)"),
           out="FossilClimate-ND table.htm")

```

### Fossil CC vs. Climate: Non-detrended

log(CC) by Taxa and Intervals															
	Individualized Hominins														
	All Taxa Artiodactyla Carnivora Cetacea Perissodactyla Primates Hominins							All Taxa Artiodactyla Carnivora Cetacea Perissodactyla Primates Hominins							
Mean	2.292 (0.278)	0.883 (1.811)	1.645 (0.435)	0.129 (0.919)	1.353 (0.585)	2.260 (1.382)	2.225 (1.570)	1.599 (0.459)	2.141 (0.287)	-0.454 (1.312)	1.580 (0.466)	0.347 (0.850)	1.253 (0.472)	1.362 (1.736)	2 (1)
t =	t = 8.247 p = 0.000***	t = 0.488 p = 0.641	t = 3.780 p = 0.001***	t = 0.141 p = 0.892	t = 2.312 p = 0.061	t = 1.635 p = 0.141	t = 1.417 p = 0.179	t = 3.485 p = 0.001***	t = 7.473 p = 0.000***	t = -0.346 p = 0.740	t = 3.388 p = 0.002**	t = 0.409 p = 0.693	t = 2.654 p = 0.038*	t = 0.784t = 0.456 p = 0.038*	0 0
SD	0.011 (0.317)	1.147 (1.059)	-0.591 (0.304)	0.111 (0.484)	1.214 (0.827)	1.189 (1.244)	-0.038 (0.698)	0.499 (0.156)	0.044 (0.387)	3.228 (1.145)	-0.692 (0.395)	-0.124 (0.582)	1.499 (0.697)	1.624 (1.632)	0 0
t =	t = 0.036 p = 0.972	t = 1.082 p = 0.315	t = -1.945 p = 0.059	t = 0.229 p = 0.824	t = 1.467 p = 0.193	t = 0.956 p = 0.368	t = -0.055 p = 0.957	t = 3.191 p = 0.002**	t = 0.114 p = 0.910	t = 2.820 p = 0.026*	t = -1.752 p = 0.088	t = -0.213 p = 0.837	t = 2.150 p = 0.076	t = 0.995t = 0.349 p = 0.076	0 0
Slope	0.794 (0.455)	-0.331 (1.291)	0.278 (0.397)	0.172 (1.126)	-1.075 (0.932)	1.402 (2.059)	0.827 (1.064)	0.690 (0.258)	0.247 (0.402)	-1.810 (0.913)	-0.374 (0.419)	-0.018 (0.460)	0.750 (0.684)	0.030 (1.130)	0 0
t =	t = 1.744 p = 0.086	t = -0.257 p = 0.805	t = 0.700 p = 0.489	t = 0.152 p = 0.883	t = -1.153 p = 0.293	t = 0.681t = 0.778 p = 0.516	t = 0.778 p = 0.450	t = 2.672 p = 0.009**	t = 0.614 p = 0.542	t = -1.982 p = 0.088	t = -0.894 p = 0.377	t = -0.040 p = 0.970	t = 1.097 p = 0.315	t = 0.027t = 0.980 p = 0.315	0 0
(Intercept)	4.131 (0.172)	4.388 (0.530)	3.686 (0.166)	6.340 (0.312)	6.309 (0.585)	3.412 (0.637)	4.730 (1.284)	5.347 (0.380)	4.272 (0.173)	4.625 (0.334)	3.687 (0.180)	6.370 (0.188)	5.971 (0.271)	3.205 (0.561)	4 0
t =	t = 24.072 p = 0.000***	t = 8.286 p = 0.000***	t = 22.223 p = 0.000***	t = 20.314 p = 0.000***	t = 10.790 p = 0.00004**	t = 5.359t = 3.683 p = 0.001***	t = 3.683 p = 0.003**	t = 14.083 p = 0.000***	t = 24.701 p = 0.000***	t = 13.831 p = 0.00001***	t = 20.537 p = 0.000***	t = 33.824 p = 0.000***	t = 22.049 p = 0.00000***	t = 5.709t = 0.0005***	0 0
Observations	71	11	43	13	10	12	18	95	71	11	43	13	10	12	0
R <sup>2</sup>	0.508	0.348	0.339	0.026	0.604	0.420	0.518	0.799	0.467	0.685	0.282	0.020	0.780	0.401	0
Adjusted R <sup>2</sup>	0.486	0.068	0.288	-0.299	0.406	0.202	0.414	0.792	0.443	0.551	0.227	-0.307	0.671	0.176	0
Residual Std. Error	1.062	1.174	0.842	0.673	0.776	1.398	0.379	0.201	1.106	0.815	0.878	0.675	0.578	1.421	0
F Statistic	23.097***	1.244	6.676***	0.080	3.049	1.931	5.009*	120.371***	19.563***	5.085*	5.103**	0.061	7.109*	1.786	6.

Note: p<0.05; **p<0.01**; p<0.001

```

## Fossil CC vs. Climate: Detrended
stargazer(fTaxa_1M_D, fArt_1M_D, fCarn_1M_D, fCet_1M_D, fPer_1M_D, fPrim_1M_D, fHom_1M_D, fIndHom_1M_D,
           fTaxa_400K_D, fArt_400K_D, fCarn_400K_D, fCet_400K_D, fPer_400K_D, fPrim_400K_D, fHom_400K_D, fIndHom_4
00K_D,
           fTaxa_200K_D, fArt_200K_D, fCarn_200K_D, fCet_200K_D, fPer_200K_D, fPrim_200K_D, fHom_200K_D, fIndHom_2
00K_D,
           type = "html", flip=TRUE, single.row=FALSE, align=TRUE, notes.align = "l", no.space = TRUE,
           omit.table.layout=c("#"), df=FALSE, report="vcstp",
           star.cutoffs=c(0.05, 0.01, 0.001),
           title = "Fossil CC vs. Climate: Detrended",
           dep.var.caption = "log(CC) by Taxa and Intervals",
           dep.var.labels = "",
           column.labels = rep(c("All Taxa", "Artiodactyla", "Carnivora", "Cetacea", "Perissodactyla", "Primates",
           "Hominins", "Individualized Hominins"), 3),
           covariate.labels = c("Mean", "SD", "Slope", "(Intercept")),
           out="FossilClimate-D table.htm")

```

### Fossil CC vs. Climate: Detrended

log(CC) by Taxa and Intervals															
	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	Hominins	Individualized Hominins	All Taxa	Artiodactyla	Carnivora	Cetacea	Perissodactyla	Primates	Hominins
Mean	1.080 (2.139)	-0.219 (2.559)	-1.154 (2.111)	-1.122 (1.751)	4.098 (1.219)	0.222 (2.931)	-1.937 (5.446)	-0.280 (2.241)	-0.768 (1.724)	-0.386 (2.457)	-1.854 (1.605)	-0.350 (1.912)	1.847 (1.141)	-3.053 (3.123)	-2.61: (4.179)
	t = 0.505 t = -0.085	t = 0.505 t = -0.547	t = 0.505 t = -0.641	t = 0.505 t = 3.363	t = 0.505 t = 0.076	t = 0.505 t = -0.356	t = 0.505 t = -0.125	t = 0.505 t = -0.445	t = 0.505 t = -0.157	t = 0.505 t = -1.155	t = 0.505 t = -0.183	t = 0.505 t = 1.619	t = 0.505 t = -0.978	t = 0.505 t = -0.62:	
	p = 0.616 p = 0.935	p = 0.588 p = 0.540	p = 0.588 p = 0.540	p = 0.588 p = 0.021*	p = 0.588 p = 0.942	p = 0.588 p = 0.728	p = 0.588 p = 0.902	p = 0.588 p = 0.658	p = 0.588 p = 0.881	p = 0.588 p = 0.256	p = 0.588 p = 0.860	p = 0.588 p = 0.167	p = 0.588 p = 0.361	p = 0.588 p = 0.543	
SD	0.614 (0.636)	0.017 (0.929)	0.032 (0.658)	0.704 (0.958)	1.977 (0.726)	1.129 (1.596)	1.537 (1.603)	-0.043 (0.973)	1.248 (0.618)	1.897 (1.572)	0.413 (0.671)	-0.409 (0.797)	2.097 (0.603)	2.365 (1.774)	0.533 (1.274)
	t = 0.965 t = 0.019	t = 0.965 t = 0.049	t = 0.965 t = 0.735	t = 0.965 t = 2.725	t = 0.965 t = 0.707	t = 0.965 t = 0.959	t = 0.965 t = -0.044	t = 0.965 t = 2.018	t = 0.965 t = 1.207	t = 0.965 t = 0.616	t = 0.965 t = -0.514	t = 0.965 t = 3.479	t = 0.965 t = 1.333	t = 0.965 t = 0.4	
	p = 0.339 p = 0.986	p = 0.962 p = 0.484	p = 0.962 p = 0.484	p = 0.962 p = 0.042*	p = 0.962 p = 0.503	p = 0.962 p = 0.356	p = 0.962 p = 0.966	p = 0.962 p = 0.048*	p = 0.962 p = 0.273	p = 0.962 p = 0.542	p = 0.962 p = 0.622	p = 0.962 p = 0.018*	p = 0.962 p = 0.225	p = 0.962 p = 0.683	
Slope	0.263 (0.590)	-1.229 (1.125)	0.025 (0.625)	-1.331 (1.580)	-1.542 (0.514)	2.484 (2.085)	1.994 (1.641)	0.457 (0.812)	-0.376 (0.357)	-1.474 (1.397)	-0.908 (0.382)	0.258 (0.578)	0.216 (0.500)	0.885 (1.635)	1.064 (0.501)
	t = 0.445 t = -1.092	t = 0.445 t = 0.040	t = 0.445 t = -0.843	t = 0.445 t = -3.002	t = 0.445 t = 1.191	t = 0.445 t = 1.215	t = 0.445 t = 0.563	t = 0.445 t = -1.052	t = 0.445 t = -1.055	t = 0.445 t = -2.377	t = 0.445 t = 0.446	t = 0.445 t = 0.432	t = 0.445 t = 0.542	t = 0.445 t = 2.1:	
	p = 0.658 p = 0.317	p = 0.969 p = 0.424	p = 0.969 p = 0.424	p = 0.969 p = 0.031*	p = 0.969 p = 0.273	p = 0.969 p = 0.246	p = 0.969 p = 0.575	p = 0.969 p = 0.297	p = 0.969 p = 0.333	p = 0.969 p = 0.023*	p = 0.969 p = 0.668	p = 0.969 p = 0.684	p = 0.969 p = 0.605	p = 0.969 p = 0.054	
(Intercept)	-0.046 (0.170)	-0.365 (0.418)	-0.116 (0.197)	-0.204 (0.327)	0.428 (0.285)	-0.472 (0.638)	0.029 (0.183)	-0.018 (0.030)	-0.082 (0.161)	-0.171 (0.424)	-0.148 (0.178)	-0.208 (0.343)	0.065 (0.268)	-0.578 (0.623)	-0.10: (0.162)
	t = -0.270 t = -0.872	t = -0.270 t = -0.592	t = -0.270 t = -0.622	t = -0.270 t = 1.503	t = -0.270 t = 0.160	t = -0.270 t = -0.616	t = -0.270 t = -0.508	t = -0.270 t = -0.403	t = -0.270 t = -0.829	t = -0.270 t = -0.607	t = -0.270 t = 0.242	t = -0.270 t = 0.242	t = -0.270 t = -0.927	t = -0.270 t = -0.633	
	p = 0.788 p = 0.417	p = 0.558 p = 0.558	p = 0.558 p = 0.551	p = 0.558 p = 0.194	p = 0.558 p = 0.484	p = 0.558 p = 0.876	p = 0.558 p = 0.540	p = 0.558 p = 0.614	p = 0.558 p = 0.702	p = 0.558 p = 0.413	p = 0.558 p = 0.561	p = 0.558 p = 0.819	p = 0.558 p = 0.385	p = 0.558 p = 0.544	
Observations	70	10	42	12	9	11	17	94	70	10	42	12	9	11	17
R <sup>2</sup>	0.021	0.174	0.008	0.105	0.766	0.224	0.112	0.008	0.089	0.225	0.151	0.067	0.819	0.252	0.258
Adjusted R <sup>2</sup>	-0.024	-0.239	-0.070	-0.231	0.625	-0.109	-0.093	-0.025	0.048	-0.163	0.084	-0.283	0.711	-0.068	0.087
Residual Std. Error	1.363	1.209	1.184	1.061	0.705	2.050	0.522	0.263	1.315	1.171	1.096	1.083	0.619	2.012	0.477
F Statistic	0.471	0.422	0.108	0.313	5.443*	0.672	0.546	0.255	2.150	0.580	2.258	0.192	7.562*	0.786	1.505

Note: p<0.05; **p<0.01**; p<0.001

### Ancestral results

```

## Ancestral CC vs. Climate: Non-Detrended
stargazer(aTaxa_1M_ND, aArt_1M_ND, aCarn_1M_ND, aCet_1M_ND, aPer_1M_ND, aPrim_1M_ND,
           aTaxa_400K_ND, aArt_400K_ND, aCarn_400K_ND, aCet_400K_ND, aPer_400K_ND, aPrim_400K_ND,
           aTaxa_200K_ND, aArt_200K_ND, aCarn_200K_ND, aCet_200K_ND, aPer_200K_ND, aPrim_200K_ND,
           type = "html", flip=TRUE, single.row=FALSE, align=TRUE, notes.align = "l", no.space = TRUE,
           omit.table.layout=c("#"), df=FALSE, report="vcstp",
           star.cutoffs=c(0.05, 0.01, 0.001),
           title = "Ancestral CC vs. Climate: Non-detrended",
           dep.var.caption = "log(CC) by Taxa and Intervals",
           dep.var.labels = "",
           column.labels = rep(c("All Taxa", "Artiodactyla", "Carnivora", "Cetacea", "Perissodactyla", "Primates"),
           , 3),
           covariate.labels = c("Mean", "SD", "Slope", "(Intercept"),
           out="AncestClimate-ND table.htm")

```

### Ancestral CC vs. Climate: Non-detrended

	log(CC) by Taxa and Intervals														
	All Taxa Artiodactyla Carnivora Cetacea Perissodactyla Primates					All Taxa Artiodactyla Carnivora Cetacea Perissodactyla Primates					All Taxa Artiodactyla Carnivora				
Mean	-0.015 (0.093)	-0.009 (0.130)	-0.063 (0.074)	-0.074 (0.068)	0.019 (0.159)	0.178 (0.115)	-0.002 (0.092)	0.010 (0.133)	-0.014 (0.074)	-0.102 (0.067)	-0.022 (0.132)	0.216 (0.109)	0.008 (0.096)	-0.049 (0.147)	0.0005 (0.073)
	t = -0.161 p = 0.873	t = -0.066 p = 0.948	t = -0.848 p = 0.399	t = -1.087 p = 0.288	t = 0.118 p = 0.912	t = 1.545 p = 0.128	t = -0.018 p = 0.987	t = 0.074 p = 0.943	t = -0.184 p = 0.855	t = -1.524 p = 0.141	t = -0.168 p = 0.875	t = 1.984 p = 0.052	t = 0.084 p = 0.934	t = -0.331 p = 0.745	t = 0.006 p = 0.996
SD	0.023 (0.092)	0.170 (0.140)	0.139 (0.071)	0.061 (0.069)	-0.015 (0.160)	-0.230 (0.112)	0.011 (0.092)	0.142 (0.145)	0.149 (0.074)	0.041 (0.073)	-0.076 (0.141)	-0.227 (0.111)	0.039 (0.093)	0.061 (0.132)	0.157 (0.072)
	t = 0.252 p = 0.801	t = 1.213 p = 0.242	t = 1.945 p = 0.054	t = 0.890 p = 0.383	t = -0.091 p = 0.932	t = -2.051 p = 0.045*	t = 0.115 p = 0.909	t = 0.980 p = 0.341	t = 2.014 p = 0.047*	t = 0.554 p = 0.585	t = -0.536 p = 0.621	t = -2.041 p = 0.046*	t = 0.422 p = 0.674	t = 0.464 p = 0.649	t = 2.176 p = 0.032*
Slope	-0.048 (0.093)	-0.085 (0.138)	-0.159 (0.072)	-0.022 (0.069)	0.051 (0.109)	0.067 (0.118)	0.024 (0.093)	-0.030 (0.147)	-0.042 (0.074)	0.048 (0.071)	-0.158 (0.094)	0.167 (0.111)	-0.070 (0.096)	0.147 (0.160)	-0.131 (0.073)
	t = -0.515 p = 0.608	t = -0.612 p = 0.549	t = -2.217 p = 0.029*	t = -0.315 p = 0.756	t = 0.467 p = 0.665	t = 0.567 p = 0.573	t = 0.261 p = 0.795	t = -0.208 p = 0.838	t = -0.562 p = 0.575	t = 0.672 p = 0.509	t = -1.671 p = 0.171	t = 1.506 p = 0.138	t = -0.723 p = 0.471	t = 0.920 p = 0.371	t = -1.792 p = 0.076
(Intercept)	4.319 (0.094)	5.150 (0.126)	3.552 (0.072)	7.390 (0.067)	6.232 (0.094)	4.097 (0.112)	4.318 (0.094)	5.152 (0.127)	3.553 (0.073)	7.388 (0.067)	6.232 (0.075)	4.100 (0.109)	4.318 (0.094)	5.164 (0.127)	3.559 (0.073)
	t = 46.054 p = 0.000***	t = 40.984 p = 0.000***	t = 49.096 p = 0.000***	t = 110.587 p = 0.000***	t = 66.049 p = 0.00000***	t = 36.656 p = 0.000***	t = 46.034 p = 0.000***	t = 40.514 p = 0.000***	t = 48.390 p = 0.000***	t = 109.687 p = 0.000***	t = 83.640 p = 0.00000***	t = 37.552 p = 0.000***	t = 45.916 p = 0.000***	t = 40.765 p = 0.000***	t = 48.975 p = 0.000***
Observations	237	21	133	28	8	66	237	21	133	28	8	66	236	21	133
R <sup>2</sup>	0.001	0.082	0.060	0.105	0.060	0.104	0.0004	0.059	0.032	0.094	0.414	0.145	0.003	0.074	0.054
Adjusted R <sup>2</sup>	-0.011	-0.080	0.038	-0.007	-0.645	0.060	-0.013	-0.107	0.009	-0.019	-0.026	0.104	-0.010	-0.090	0.032
Residual Std. Error	1.441	0.574	0.833	0.352	0.267	0.908	1.442	0.582	0.846	0.354	0.211	0.887	1.443	0.577	0.836
F Statistic	0.106	0.507	2.752*	0.941	0.085	2.394	0.028	0.357	1.414	0.833	0.941	3.518*	0.214	0.450	2.467

Note: p<0.05; \*p<0.01; \*\*p<0.001

```
## Ancestral CC vs. Climate: Detrended
stargazer(aTaxa_1M_D, aArt_1M_D, aCarn_1M_D, aCet_1M_D, aPer_1M_D, aPrim_1M_D,
           aTaxa_400K_D, aArt_400K_D, aCarn_400K_D, aCet_400K_D, aPer_400K_D, aPrim_400K_D,
           aTaxa_200K_D, aArt_200K_D, aCarn_200K_D, aCet_200K_D, aPer_200K_D, aPrim_200K_D,
           type = "html", flip=TRUE, single.row=FALSE, align=TRUE, notes.align = "l", no.space = TRUE,
           omit.table.layout=c("#"), df=FALSE, report="vcstp",
           star.cutoffs=c(0.05, 0.01, 0.001),
           title = "Ancestral CC vs. Climate: Detrended",
           dep.var.caption = "log(CC) by Taxa and Intervals",
           dep.var.labels = "",
           column.labels = rep(c("All Taxa", "Artiodactyla", "Carnivora", "Cetacea", "Perissodactyla", "Primates"),
           , 3),
           covariate.labels = c("Mean", "SD", "Slope", "(Intercept)"),
           out="AncestClimate-D table.htm")
```

### Ancestral CC vs. Climate: Detrended

	log(CC) by Taxa and Intervals														
	All Taxa Artiodactyla Carnivora Cetacea Perissodactyla Primates					All Taxa Artiodactyla Carnivora Cetacea Perissodactyla Primates					All Taxa Artiodactyla Carnivora				
Mean	2.803 (0.229)	-0.442 (0.459)	0.272 (0.373)	-0.213 (0.270)	-0.241 (0.085)	0.106 (0.539)	2.942 (0.219)	-0.085 (0.316)	0.353 (0.390)	-0.301 (0.251)	-0.323 (0.108)	0.256 (0.482)	2.753 (0.232)	-0.074 (0.292)	0.4 (0.3)
	t = 12.228 p = 0.000***	t = -0.965 p = 0.350	t = 0.731 p = 0.467	t = -0.791 p = 0.437	t = -2.840 p = 0.066	t = 0.197 p = 0.845	t = 13.463 p = 0.000***	t = -0.268 p = 0.792	t = 0.903 p = 0.369	t = -1.199 p = 0.243	t = -2.989 p = 0.059	t = 0.532 p = 0.597	t = 11.864 p = 0.000***	t = -0.254 p = 0.803	t = 1 p = 0
SD	0.105 (0.171)	0.487 (0.345)	-0.029 (0.164)	-0.112 (0.109)	0.135 (0.095)	-0.016 (0.216)	0.050 (0.153)	0.343 (0.284)	-0.002 (0.126)	-0.114 (0.091)	0.204 (0.109)	-0.112 (0.273)	0.310 (0.147)	-0.025 (0.213)	-0.0 (0.1)
	t = 0.617 p = 0.538	t = 1.411 p = 0.178	t = -0.179 p = 0.859	t = -1.027 p = 0.316	t = 1.431 p = 0.248	t = -0.073 p = 0.943	t = 0.328 p = 0.744	t = 1.207 p = 0.245	t = -0.018 p = 0.986	t = -1.253 p = 0.223	t = 1.870 p = 0.159	t = -0.410 p = 0.684	t = 2.107 p = 0.037*	t = -0.119 p = 0.907	t = -0.2 p = 0
Slope	-0.171 (0.119)	-0.265 (0.209)	-0.274 (0.097)	0.012 (0.089)	0.145 (0.053)	-0.052 (0.128)	0.274 (0.088)	0.067 (0.208)	-0.013 (0.083)	0.127 (0.077)	-0.088 (0.074)	0.013 (0.122)	0.089 (0.083)	0.289 (0.168)	-0.1 (0.0)

	t = -1.431	t = -1.273	t = -2.834	t = 0.139	t = 2.757	t = -0.411	t = 3.111	t = 0.320	t = -0.155	t = 1.653	t = -1.196	t = 0.110	t = 1.077	t = 1.714	t = -1.7
(Intercept)	0.065 (0.095)	-0.085 (0.230)	0.016 (0.086)	0.001 (0.102)	-0.092 (0.071)	0.046 (0.152)	0.071 (0.093)	0.004 (0.218)	0.017 (0.089)	-0.015 (0.095)	-0.091 (0.077)	0.051 (0.151)	0.080 (0.098)	0.016 (0.210)	0.0
	t = 0.684	t = -0.371	t = 0.192	t = 0.010	t = -1.300	t = 0.305	t = 0.770	t = 0.020	t = 0.196	t = -0.159	t = -1.179	t = 0.339	t = 0.811	t = 0.079	t = 0.
	p = 0.495	p = 0.716	p = 0.849	p = 0.993	p = 0.285	p = 0.762	p = 0.443	p = 0.985	p = 0.845	p = 0.876	p = 0.324	p = 0.736	p = 0.419	p = 0.939	p = 0
Observations	236	20	132	27	7	65	236	20	132	27	7	65	234	20	13
R <sup>2</sup>	0.423	0.147	0.062	0.066	0.847	0.003	0.450	0.134	0.007	0.218	0.825	0.007	0.385	0.174	0.0:
Adjusted R <sup>2</sup>	0.416	-0.013	0.040	-0.056	0.695	-0.046	0.443	-0.028	-0.017	0.116	0.650	-0.042	0.377	0.019	0.0:
Residual Std. Error	1.455	0.917	0.973	0.500	0.182	1.166	1.420	0.924	1.001	0.457	0.195	1.164	1.500	0.902	0.9:
F Statistic	56.690***	0.919	2.824*	0.540	5.549	0.069	63.296***	0.827	0.291	2.136	4.716	0.143	47.997***	1.125	1.2l

Note: p<0.05; **p<0.01**; p<0.001

## Fancy Plots

### Cartoon Climatic Measures

#### Cartoon Trend

```
Trend <- data.frame(c(1, 1), c(2.5, 2.5), c(0, 1), c(1, 2))

Trend_low <- ggplot() + geom_line(aes(x=Trend[,3], y=Trend[,1]), col="blue4", size=2) + labs(x=" ", y="Trend", title="Low") +
  theme_classic(30) + scale_x_continuous(breaks = round(seq(0, 1, by = 0.5),1)) + ylim(0,3) + theme(plot.title = element_text(vjust=3)) +
  theme(plot.title = element_text(vjust=1), axis.title.y=element_text(color="blue4", vjust=1))

Trend_high <- ggplot() + geom_line(aes(x=Trend[,4], y=Trend[,2]), col="blue4", size=2) + labs(x=" ", y=" ", title="High") +
  theme_classic(30) + scale_x_continuous(breaks = round(seq(1, 2, by = 0.5),1)) +
  scale_y_continuous(breaks = round(seq(0, 3, by = 1),1)) + ylim(0,3) + theme(plot.title = element_text(vjust=3)) +
  theme(plot.title = element_text(vjust=1), axis.title.y=element_text(vjust=2))
```

#### Cartoon Variability

```
x <- seq(0, 1, 0.01)
ylow <- sin(10*x) / 2
yhigh <- sin(50*x)
Var <- data.frame(x, ylow, yhigh)

Var_low <- ggplot() + geom_line(aes(x=Var$x, y=Var$ylow), col="red4", size=2) +
  labs(x=" ", y="Variability") + theme_classic(30) +
  scale_x_continuous(breaks = round(seq(0, 1, by = 0.5),1)) +
  scale_y_continuous(limits = c(-1, 1), breaks = round(seq(-1, 1, by = 1),1)) +
  theme(plot.title = element_text(vjust=1), axis.title.y=element_text(color="red4", vjust=1))

Var_high <- ggplot() + geom_line(aes(x=Var$x, y=Var$yhigh), col="red4", size=2) + labs(x=" ", y=" ") + theme_classic(30) +
  scale_x_continuous(breaks = round(seq(0, 1, by = 0.5),1)) + scale_y_continuous(breaks = round(seq(-1, 1, by = 1),1))
```

#### Cartoon Rate

```

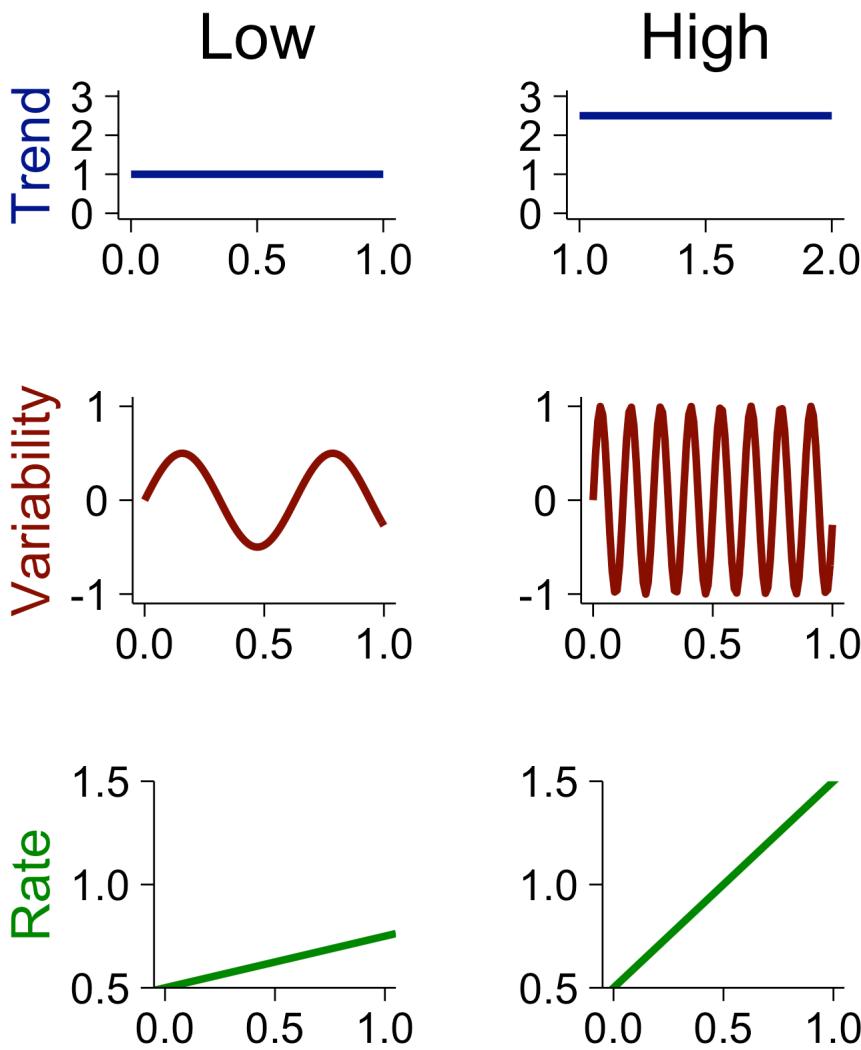
Rate_low <- ggplot() + geom_line(aes(x=Trend[,3], y=Trend[,1]), col="white") +
  geom_abline(intercept=0.5, slope=0.25, col="green4", size=2) +
  labs(x=" ", y="Rate") + theme_classic(30) +
  scale_x_continuous(breaks = round(seq(0, 1, by = 0.5),1)) + scale_y_continuous(breaks = round(seq(0, 2, by = .5 ),1)) +
  theme(plot.title = element_text(vjust=1),
        axis.title.y=element_text(color="green4", vjust=1))

Rate_high <- ggplot() + geom_line(aes(x=Trend[,3], y=Trend[,1]), col="white") +
  geom_abline(intercept=0.5, slope=1, col="green4", size=2) + labs(x=" ", y=" ") +
  theme_classic(30) +
  scale_x_continuous(breaks = round(seq(0, 1, by = 0.5),1)) + scale_y_continuous(breaks = round(seq(0, 2, by = .5 ),1))

```

## Cartoon Climatic Measures Multiplot

```
Rmisc::multiplot(Trend_low, Var_low, Rate_low, Trend_high, Var_high, Rate_high, cols=2)
```



## Real Climatic Measures Multiplot

```

cplot <- ggplot(data = brain_climate)

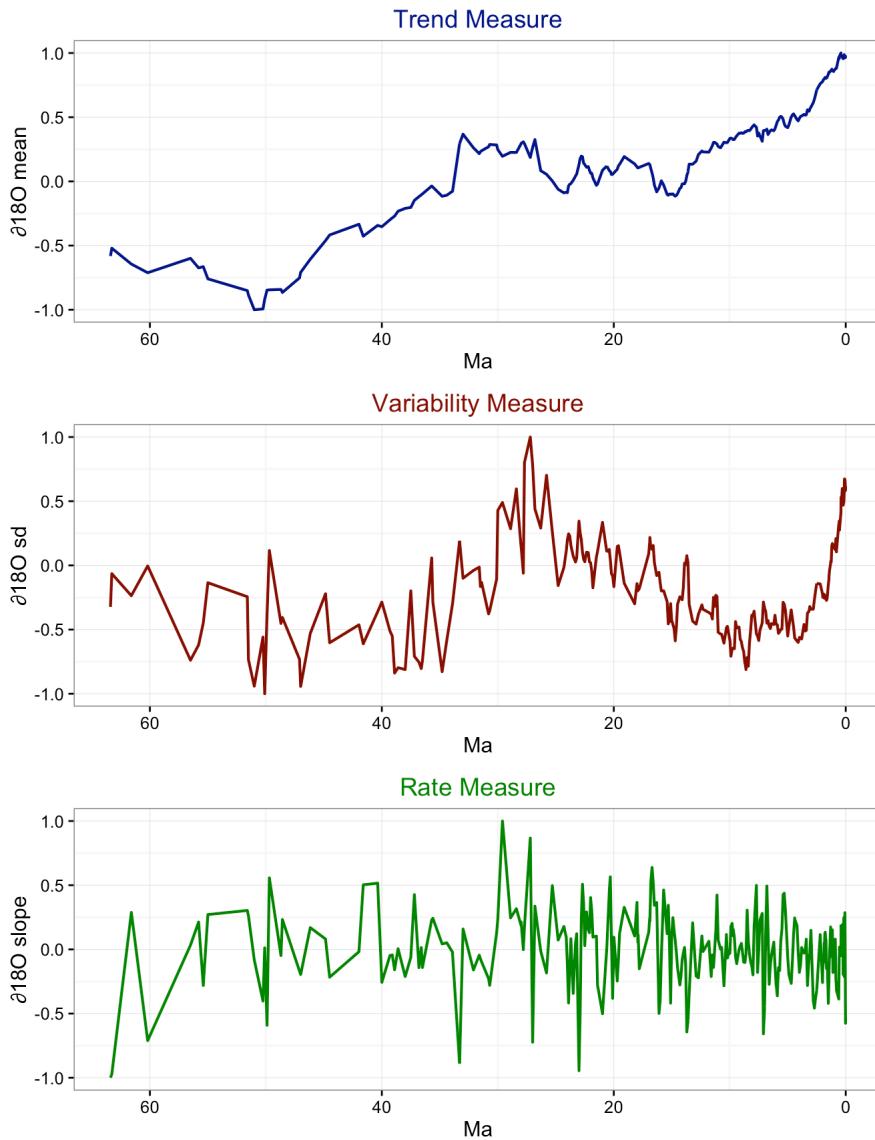
climate_trend <- cplot + theme_bw() +
  geom_line(aes(x=MYA, y=mean400KY, color="Trend"), size=.75, color="blue4") +
  scale_x_reverse() +
  labs(x="Ma", y="\u03b7\u03b9\u2078\u03b9 mean", title="Trend Measure") +
  theme(plot.title = element_text(vjust=1, color="blue4", size=14), axis.title.y=element_text(vjust=2))

climate_var <- cplot + theme_bw() +
  geom_line(aes(x=MYA, y=sd400KY, color="Trend"), size=.75, color="red4") +
  scale_x_reverse() +
  labs(x="Ma", y="\u03b7\u03b9\u2078\u03b9 sd", title="Variability Measure") +
  theme(plot.title = element_text(vjust=1, color="red4", size=14), axis.title.y=element_text(vjust=2))

climate_rate <- cplot + theme_bw() +
  geom_line(aes(x=MYA, y=slope400KY), size=.75, color="green4") +
  scale_x_reverse() +
  labs(x="Ma", y="\u03b7\u03b9\u2078\u03b9 slope", title="Rate Measure") +
  theme(plot.title = element_text(vjust=1, color="green4", size=14), axis.title.y=element_text(vjust=2))

Rmisc::multiplot(climate_trend, climate_var, climate_rate, cols = 1)

```



## Interval Measurement Example Plot

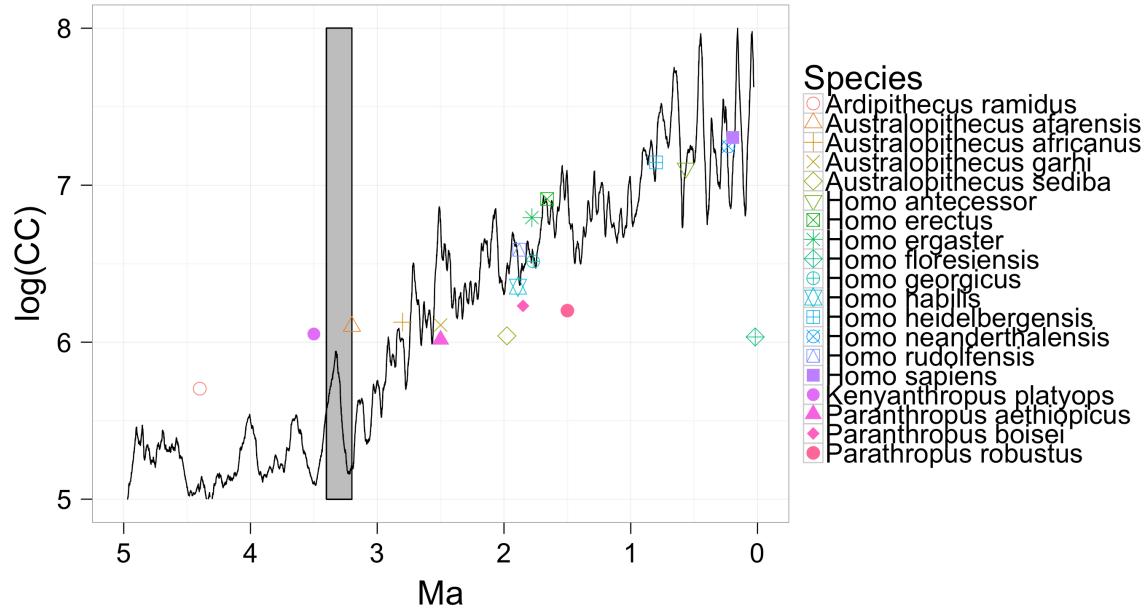
```

zachos$filtered018 <- stats::filter(zachos$o18, filter = rep(1, 70), method = "convolution")
zachos$scaled018 <- rescale(zachos$filtered018, c(min(zachos$o18), max(zachos$o18)))

ggplot(fHominins) + theme_bw(40) +
  geom_rect(aes(xmin=3.2, xmax=3.4, ymin=5, ymax=8), fill="grey75", color="black", inherit.aes = FALSE) +
  geom_line(data=zachos, aes(x=age, y=scales::rescale(filtered018, c(-1,8))), color="black") +
  scale_x_reverse() +
  geom_point(data=fHominins, aes(x=MYA, y=logCC, color=Species, shape=Species), size=5) +
  labs(x="Ma", y="log(CC)", title="Interval Measurement Example") +
  theme(text = element_text(size=30), plot.title = element_text(vjust=1), axis.title.y=element_text(vjust=2)) +
  xlim(5, 0) + ylim(5, 8) +
  theme(plot.margin = grid::unit(c(1,1,1,1), "cm")) +
  scale_shape_manual(values=1:nrow(fHominins))

```

## Interval Measurement Example



```

# DOUBLE AXIS VERSION
require(grid)
require(gtable)

grid.newpage()
p1 <- ggplot()+
  geom_rect(aes(xmin=1.977, xmax=2.177, ymin=5, ymax=8), fill="grey75", color="black", inherit.aes = FALSE) +
  geom_point(data=fHominins, aes(x=MYA, y=logCC, fill=Species, color=Species), size=5)+ scale_x_reverse() +
  theme(axis.text.x=element_text(angle=90, size=10, vjust=0.5))+
  labs(x="Ma", y="log(CC)", title="Interval Measurement Example")+
  theme_bw(25) +
  theme(legend.justification=c(0,1),
        legend.position=c(0,1),
        legend.text=element_text(face='italic', size = 10),
        legend.title=element_text(size = 12),
        legend.key.size=unit(0.5, "cm"),
        plot.title=element_text(vjust=1))

p2 <- ggplot() + geom_line(data=filter(zachos, age<=5), aes(x=age, y=scaledO18), color="black") + scale_x_reverse()
+ theme_bw(25) %+replace%
  theme(panel.background = element_rect(fill = NA),
        panel.grid.major.x=element_blank(),
        panel.grid.minor.x=element_blank(),
        panel.grid.major.y=element_blank(),
        panel.grid.minor.y=element_blank()) + labs(y="δ180")

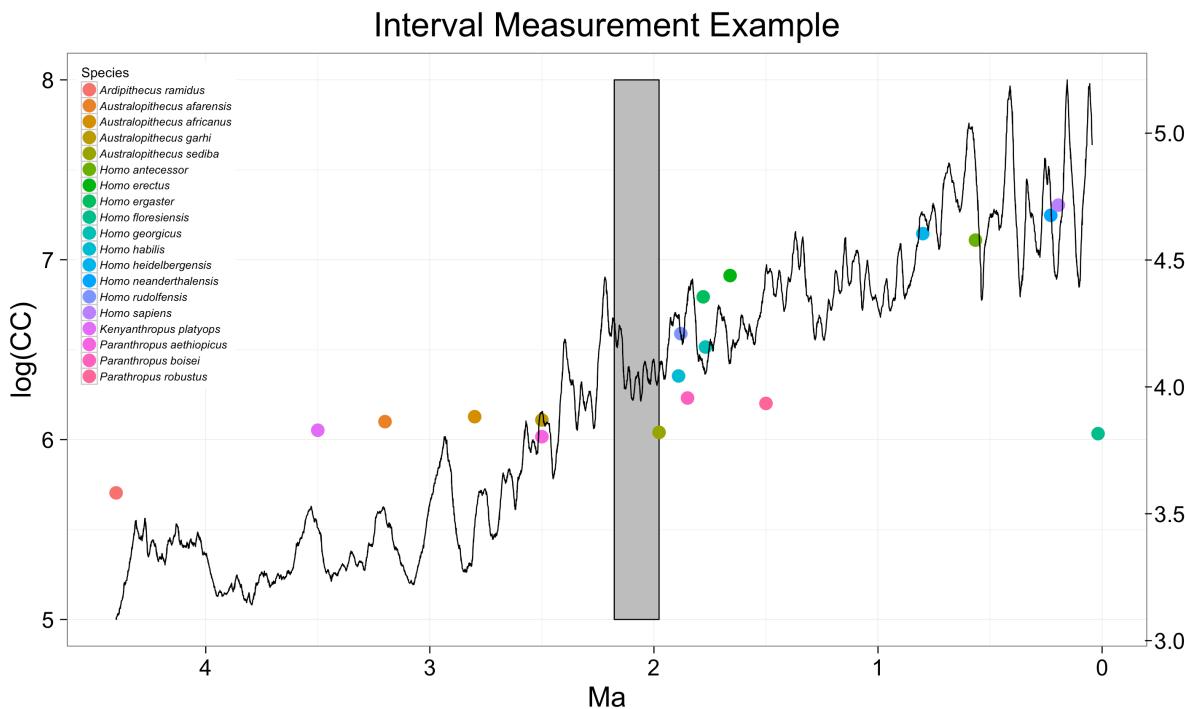
g1 <-ggplot_gtable(ggplot_build(p1))
g2 <-ggplot_gtable(ggplot_build(p2))

pp <-c(subset(g1$layout,name=="panel",se=t:r))
g <-gtable_add_grob(g1, g2$grobs[[which(g2$layout$name=="panel")]],pp$t,pp$b,pp$l)

ia <-which(g2$layout$name=="axis-l")
ga <- g2$grobs[[ia]]
ax <- ga$children[[2]]
ax$widths <- rev(ax$widths)
ax$grobs <- rev(ax$grobs)
ax$grobs[[1]]$x <- ax$grobs[[1]]$x - unit(1, "npc") + unit(0.15, "cm")
g <- gtable_add_cols(g, g2$widths[g2$layout[ia, ]$l], length(g$widths) - 1)
g <- gtable_add_grob(g, ax, pp$t, length(g$widths) - 1, pp$b)

grid.draw(g)

```



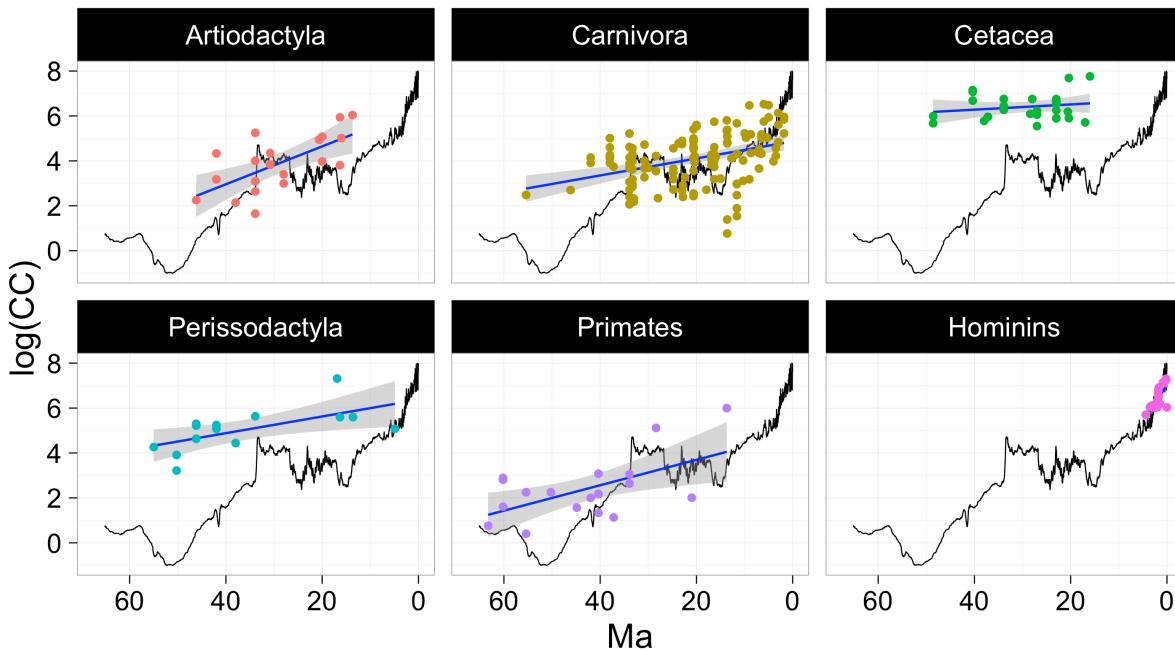
# CC vs. Climate plots

## Fossil CC Plot

```
fAllTaxa$Taxon <- factor(fAllTaxa$Taxon, levels=c("Artiodactyla", "Carnivora", "Cetacea", "Perissodactyla", "Primates", "Hominins"), labels=c("Artiodactyla", "Carnivora", "Cetacea", "Perissodactyla", "Primates", "Hominins")) # Fix the order of taxa facets

# All Taxa
ggplot() +
  geom_line(data=zachos, aes(x=age, y=scales::rescale(filtered018,c(-1,8))), color="black") +
  geom_smooth(data=fAllTaxa, aes(MYA, logCC), method="lm", color="blue") +
  geom_point(data=fAllTaxa, aes(y=logCC, x=MYA, color=Taxon), size=3) +
  scale_x_reverse() +
  facet_wrap(~Taxon) +
  theme_bw(30) +
  theme(plot.title = element_text(vjust=1), legend.position="none", strip.background = element_rect(fill="black"),
  strip.text.x = element_text(color="white"), axis.title.y=element_text(vjust=1.5), axis.title.x=element_text(vjust=-.5)) +
  labs(x="Ma", y="log(CC)", title="Fossil CC Over Time") +
  scale_color_manual(values = c("#F8766D", "#B79F00", "#00BA38", "#00BFC4", "#B983FF", "#F564E3"))
```

Fossil CC Over Time



```

## θ180 Axis Plot
grid.newpage()
p1 <- ggplot()+
  geom_point(data=fCetacea, aes(x=MYA, y=logCC), size=5, color="green4")+ scale_x_reverse() +
  theme(axis.text.x=element_text(angle=90, size=10, vjust=0.5))+
  labs(x="Ma", y="log(CC)")+
  theme_bw(25) + ylim(0,8) +
  theme(legend.justification=c(0,1),
        legend.position="none")

p2 <- ggplot() + geom_line(data=zachos, aes(x=age, y=scaled018), color="black") + scale_x_reverse() + theme_bw(25) %
+ replace_
  theme(panel.background = element_rect(fill = NA),
        panel.grid.major.x=element_blank(),
        panel.grid.minor.x=element_blank(),
        panel.grid.major.y=element_blank(),
        panel.grid.minor.y=element_blank()) + labs(y="θ180")

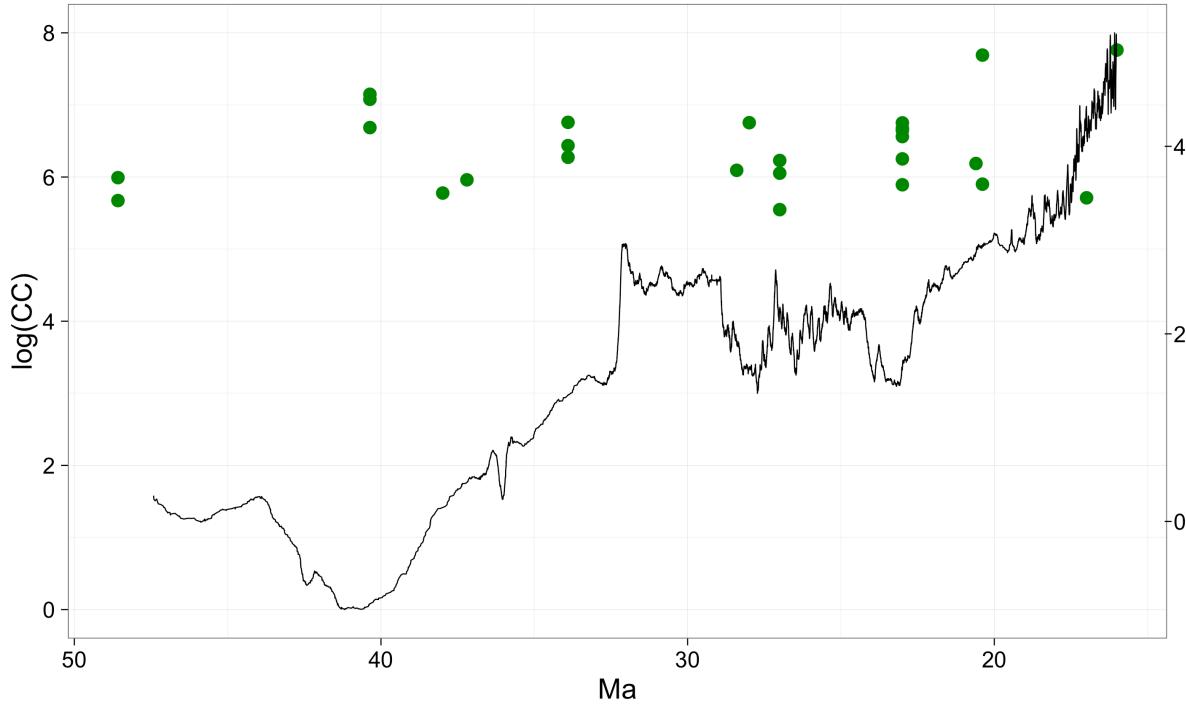
g1 <-ggplot_gtable(ggplot_build(p1))
g2 <-ggplot_gtable(ggplot_build(p2))

pp <-c(subset(g1$layout,name=="panel",se=t:r))
g <-gtable_add_grob(g1, g2$grobs[[which(g2$layout$name=="panel")]],pp$t,pp$l,pp$b,pp$l)

ia <-which(g2$layout$name=="axis-l")
ga <- g2$grobs[[ia]]
ax <- ga$children[[2]]
ax$widths <- rev(ax$widths)
ax$grobs <- rev(ax$grobs)
ax$grobs[[1]]$x <- ax$grobs[[1]]$x - unit(1, "npc") + unit(0.15, "cm")
g <- gtable_add_cols(g, g2$widths[g2$layout[ia, ]$l], length(g$widths) - 1)
g <- gtable_add_grob(g, ax, pp$t, length(g$widths) - 1, pp$b)

grid.draw(g)

```

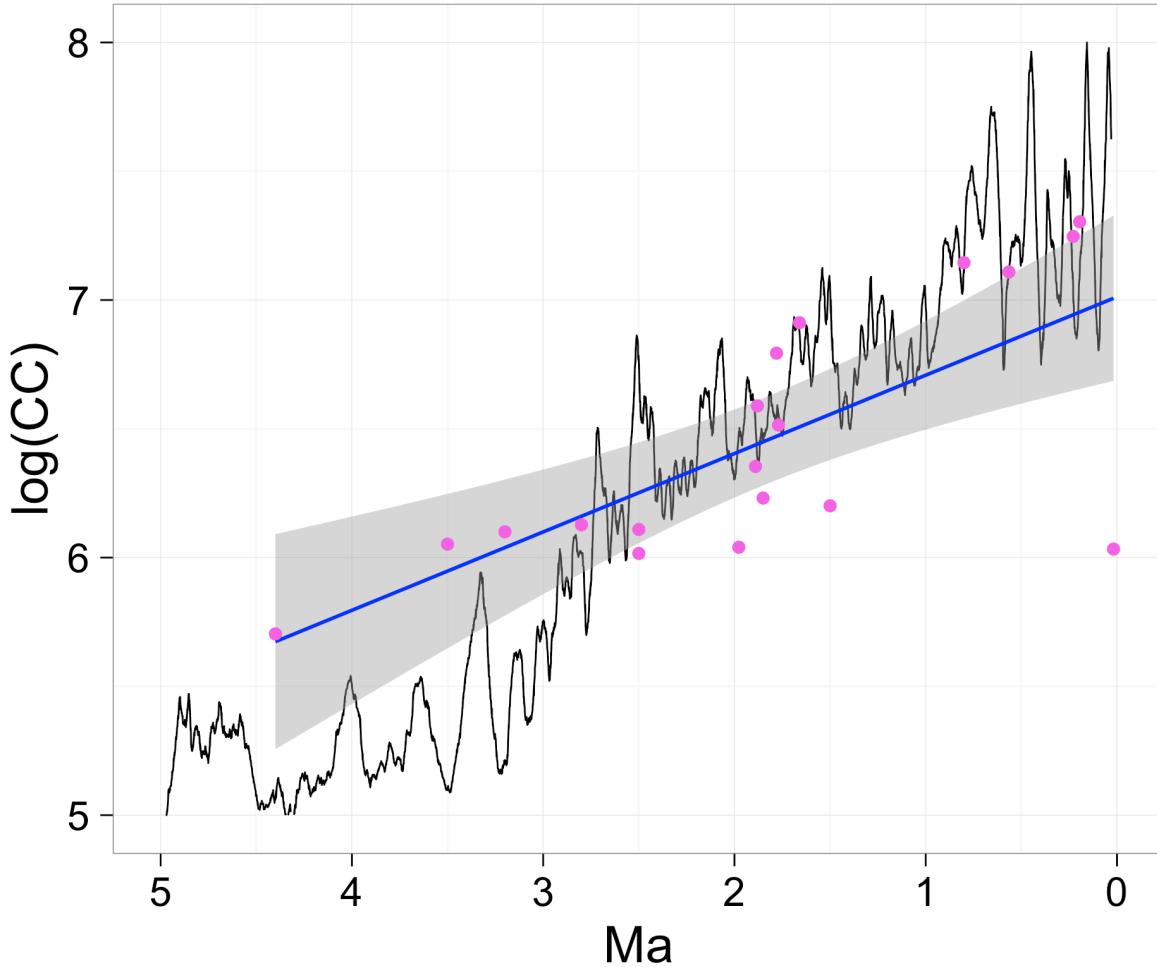


**Zoom in on Hominins only**

```

ggplot() +
  geom_line(data=zachos, aes(x=age, y=scales::rescale(filtered018,c(-1,8))), color="black") +
  geom_smooth(data=fHominins, aes(MYA, logCC), method="lm", color="blue") +
  geom_point(data=fHominins, aes(y=logCC, x=MYA, fill=Taxon), color="#F564E3", size=3) +
  scale_x_reverse() + theme_bw(30) + xlim(c(5,0)) + ylim(c(5,8)) +
  labs(x="Ma", y="log(CC)", title "") + theme(legend.position="none")

```



### Ancestral CC plot

```
str(all_ancests)
```

```

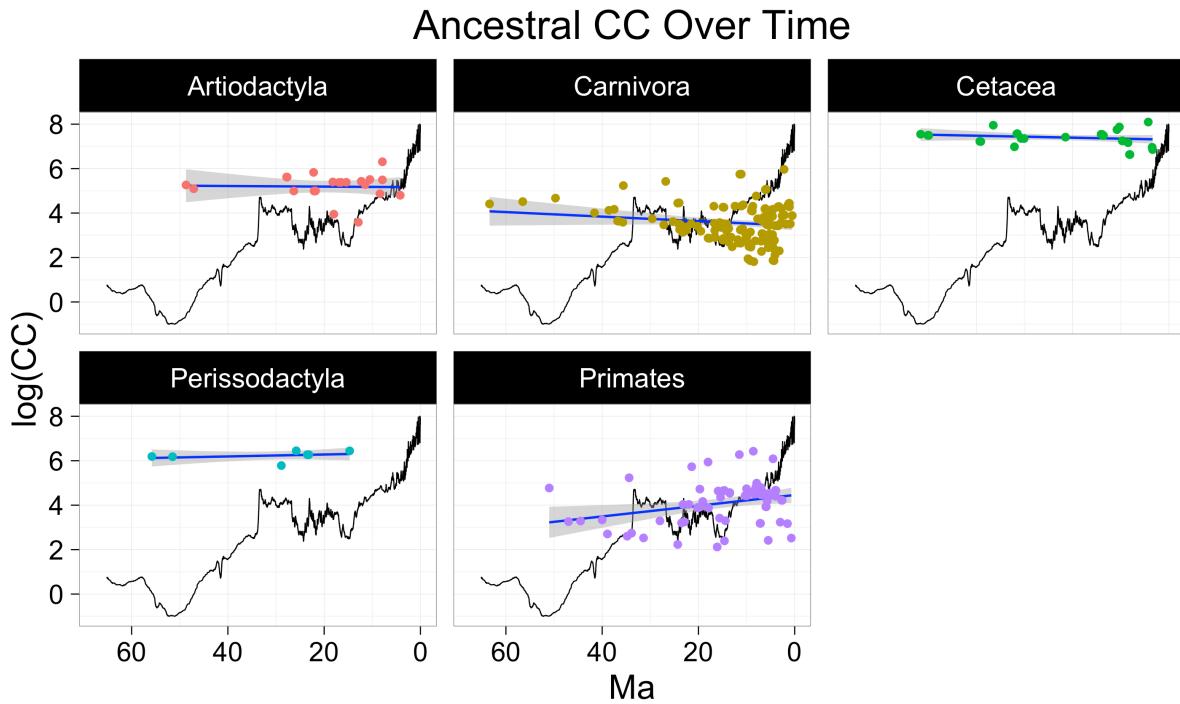
## Classes 'tbl_df', 'tbl' and 'data.frame': 289 obs. of 15 variables:
## $ Row Number: chr "1" "2" "3" "4" ...
## $ Taxon      : chr "Artiodactyla" "Artiodactyla" "Artiodactyla" "Artiodactyla" ...
## $ Node       : chr "'935'" "'936'" "'937'" "'1023_Cervidae'" ...
## $ MYA        : num 48.7 27.8 27.7 18.2 16.5 15.4 8.4 11.5 4.2 16.9 ...
## $ CC          : num 193 276 275 221 217 ...
## $ mean1MY    : num -2.9858 0.4599 0.4405 0.0921 -0.1302 ...
## $ sd1MY      : num -0.217 1.437 2.124 -0.412 0.995 ...
## $ slope1MY   : num -0.5253 -1.1469 -1.2991 0.0818 2.0589 ...
## $ mean400KY   : num -2.8574 0.6038 0.5592 0.0858 -0.4091 ...
## $ sd400KY    : num -0.653 0.415 2.767 -0.236 0.62 ...
## $ slope400KY: num -0.786 -0.516 0.552 0.1 1.438 ...
## $ mean200KY   : num -2.841 0.704 0.529 0.114 -0.463 ...
## $ sd200KY    : num -0.33 -0.131 3.383 -0.126 0.449 ...
## $ slope200KY: num -0.649 0.202 0.736 0.334 0.322 ...
## $ logCC       : num 5.26 5.62 5.62 5.4 5.38 ...

```

```

ggplot() +
  geom_line(data=zachos, aes(x=age, y=scales::rescale(filtered018,c(-1,8))), color="black") +
  geom_smooth(data=all_ancests, aes(y=logCC, x=MYA), method="lm", color="blue") +
  geom_point(data=all_ancests, aes(y=logCC, x=MYA, color=Taxon), size=3) +
  scale_x_reverse() +
  facet_wrap(~Taxon) +
  theme_bw(30) +
  theme(plot.title = element_text(vjust=1), legend.position="none", strip.background = element_rect(fill="black"),
  , strip.text.x = element_text(color="white"), axis.title.y=element_text(vjust=1.5), axis.title.x=element_text(vjust=-.5)) +
  labs(x="Ma", y="log(CC)", title="Ancestral CC Over Time") +
  scale_colour_manual(values = c("#F8766D", "#B79F00", "#00BA38", "#00BFC4", "#B983FF"))

```



Row Number	Taxon	Node	MYA	CC	mean1MY	sd1MY
1	Artiodactyla	'935'	48.7	193.098493	-2.9858144	-0.2172482
2	Artiodactyla	'936'	27.8	276.194249	0.45994423	1.43681383
3	Artiodactyla	'937'	27.7	275.22399	0.44050969	2.1242833
4	Artiodactyla	'1023_Cervid	18.2	220.862486	0.09214943	-0.4118394
5	Artiodactyla	'1024'	16.5	216.612586	-0.1302273	0.99500609
6	Artiodactyla	'1025'	15.4	218.191979	-0.5008351	-0.0809764
7	Artiodactyla	'1026'	8.4	129.696427	0.82064748	-1.3956199
8	Artiodactyla	'1028_Odoco	11.5	196.936737	0.40622338	-0.6970938
9	Artiodactyla	'1029'	4.2	121.577677	1.15462128	-0.8621338
10	Artiodactyla	'1035'	16.9	216.673927	0.06481361	0.30418871
11	Artiodactyla	'1038'	12.3	227.61949	0.24650044	-0.5289907
12	Artiodactyla	'1039'	7.9	242.601972	0.93208549	-0.9233158
13	Artiodactyla	'1047_Giraffi	7.9	548.415888	0.93208549	-0.9233158
14	Artiodactyla	'1048_Traguli	18	51.9050207	0.03841805	-0.2726002
15	Artiodactyla	'1049_Traguli	12.9	36.0853637	0.07420791	-0.6457875
16	Artiodactyla	'1092'	47.1	163.399933	-2.6663424	-1.521177
17	Artiodactyla	'1093_Suidae	26.3	147.360773	0.07389427	1.76571385
18	Artiodactyla	'1094'	22.1	147.373064	0.06337929	0.75776478
19	Artiodactyla	'1095_Suinae	21.9	147.515496	-0.0584503	0.50021428
20	Artiodactyla		21.8	147.630237	-0.0865034	0.45397785
21	Artiodactyla	'1101_Cameli	22.2	340.320218	0.09697608	0.77517441
22	Artiodactyla	'1103'	10.5	246.913272	0.53171691	-0.6330384
23	Carnivora	'1119_Carniv	63.4	82.5607625	-2.963937	0.71354189
24	Carnivora	'1120'	56.5	91.3034565	-2.827133	-1.4600912
25	Carnivora	'1121'	49.7	106.880344	-4.0911101	0.13627024
26	Carnivora	'1123'	37.5	64.646873	-1.6023211	-1.2091504
27	Carnivora	'1124'	29.6	42.2744975	-0.0549254	1.80088523
28	Carnivora	'1125_Muste	24.1	33.2513026	-1.1563867	0.85051779
29	Carnivora	01	24	33.1025697	-1.1650531	1.09428344
30	Carnivora	'1126'	23.8	32.7518367	-1.0817245	1.28527237
31	Carnivora	'1127_Muste	22.7	28.9748482	-0.5126801	1.66125044
32	Carnivora	02	22.6	28.8578535	-0.485376	1.61268729
33	Carnivora	'1128_Muste	13	11.9920238	-0.4742292	-0.0934505
34	Carnivora	'1129'	9.7	6.98791777	0.18377745	-1.1596431
35	Carnivora	'1130'	4.5	6.50407315	0.71084345	-0.2500157
36	Carnivora	'1131'	4.3	6.59597231	0.74155801	-0.588736
37	Carnivora	'1132'	4.3	6.39326912	0.74155801	-0.588736
38	Carnivora	'1134'	9.6	6.84548197	0.19511067	-1.2093203
39	Carnivora	'1136'	9.3	6.49265429	0.30270927	-0.9560025
40	Carnivora	03	9.2	6.42443635	0.31034484	-0.9493759

41	Carnivora	'1137'	8.5	6.12626562	0.38192657	-1.3121006
42	Carnivora	'1140'	20.2	30.2548235	-0.5979685	1.45497778
43	Carnivora	'1141'	16.7	34.3836155	-0.5303513	1.37969161
44	Carnivora	'1142'	15.6	35.5843701	-1.0694911	0.57721718
45	Carnivora	'1143_Marte'	14.2	33.328361	-1.1830746	-0.2817082
46	Carnivora	04	14.1	33.1776826	-1.1670135	-0.1293349
47	Carnivora	'1144'	6.8	21.6983499	0.39397291	-0.4425056
48	Carnivora	'1145'	6.7	21.5522904	0.38999641	-0.3238374
49	Carnivora	'1146'	6.6	21.4284024	0.41619027	-0.4684067
50	Carnivora	'1149_Galictis'	5.2	21.2687179	0.6909735	-0.4536901
51	Carnivora	05	22.6	28.7482968	-0.485376	1.61268729
52	Carnivora	'1150'	6.9	9.70773676	0.40182443	-0.3596788
53	Carnivora	'1151_Ictonyx'	4.1	8.25274258	0.77975633	-0.7709559
54	Carnivora	'1156'	21.5	33.7748508	-0.8011523	1.29698747
55	Carnivora	'1157_Lutrinae'	6.2	66.0206392	0.45900391	-0.6772265
56	Carnivora	06	6.1	65.3182541	0.44800322	-0.5925982
57	Carnivora	'1165'	4.6	64.5770073	0.69816481	-0.2341213
58	Carnivora	07	4.5	64.0890441	0.71084345	-0.2500157
59	Carnivora	'1158'	5.3	60.0942482	0.70358199	-0.4110583
60	Carnivora	'1159_Lontra'	2.1	49.6664642	1.52538409	0.65968569
61	Carnivora	08	6.1	66.9337655	0.44800322	-0.5925982
62	Carnivora	'1163'	2.7	66.5277918	1.11547864	0.05370926
63	Carnivora	'1166_Mephitis'	13.2	18.4675541	-0.5499126	0.24514941
64	Carnivora	'1167_Conep.'	10.2	16.9428287	0.05284047	-0.9188435
65	Carnivora	'1168'	6.8	15.7338393	0.39397291	-0.4425056
66	Carnivora	09	6.7	15.7122062	0.38999641	-0.3238374
67	Carnivora	'1169'	4.2	16.0539118	0.76283556	-0.6736333
68	Carnivora	'1170'	9.4	13.4035583	0.27097345	-0.9127287
69	Carnivora	'1171_Mephitis'	4.4	11.1767094	0.72687461	-0.5140506
70	Carnivora	10	24	33.2360614	-1.1650531	1.09428344
71	Carnivora	11	23.9	33.2032739	-1.1065248	1.43210588
72	Carnivora	'1155_Melinae'	9.9	19.4204662	0.1634505	-1.1303035
73	Carnivora	'1152_Melinae'	15.4	34.7255038	-1.0598456	0.34206257
74	Carnivora	'1153'	4.6	47.190155	0.69816481	-0.2341213
75	Carnivora	'1173_Procyonidae'	25.3	37.1486405	-0.7804991	3.02614915
76	Carnivora	'1174_Procyonidae'	15.1	33.7009412	-1.1028	0.04677537
77	Carnivora	'1175'	14.9	33.880988	-1.243534	-0.4696085
78	Carnivora	'1176_Procyonidae'	2.6	48.2234156	1.17112175	0.2961883
79	Carnivora	'1179_Bassaricyonidae'	4.6	20.7215395	0.69816481	-0.2341213
80	Carnivora	'1180_Potosinae'	15.2	28.5159443	-1.0468163	0.24986135
81	Carnivora	'1209_Ursidae'	35.6	187.954382	-1.2128999	0.80774399

82	Carnivora	'1210_Ursina	26.8	226.880033	-0.0128575	3.98974346
83	Carnivora	'1211'	11.4	313.108615	-0.0253694	-0.0262844
84	Carnivora	12	11.3	313.462721	-0.0087344	-0.1309899
85	Carnivora	'1212_Ursus*	11.1	315.112686	-0.002601	-0.183233
86	Carnivora	'1213'	2.2	389.284947	1.45358311	0.6805986
87	Carnivora	'1214'	11.2	313.520909	0.00017345	-0.1058428
88	Carnivora	'1215_Canida	7.1	40.7502612	0.45453139	-0.2843712
89	Carnivora	'1216'	6.4	45.3486916	0.43217006	-0.5254841
90	Carnivora	'1217'	3.5	72.0237161	0.80182463	-0.9493466
91	Carnivora	13	3.4	72.6550769	0.8163796	-0.9835828
92	Carnivora	14	3.3	73.3075132	0.88769102	-0.6483718
93	Carnivora	15	3.3	72.6340461	0.88769102	-0.6483718
94	Carnivora	'1218_Canis'	1.4	77.9090033	1.83723171	0.39373302
95	Carnivora	'1219'	1.2	84.5896032	1.928076	0.65605958
96	Carnivora	16	1.1	84.5720968	1.94589715	0.72956055
97	Carnivora	'1221'	1.3	74.8464025	1.87399804	0.42958423
98	Carnivora	'1222'	1.1	71.84448556	1.94589715	0.72956055
99	Carnivora	17	3.4	72.3121749	0.8163796	-0.9835828
100	Carnivora	18	3.3	72.1282914	0.88769102	-0.6483718
101	Carnivora	'1224'	0.5	48.6807333	2.20065696	1.90748838
102	Carnivora	19	3.3	72.7845371	0.88769102	-0.6483718
103	Carnivora	'1225'	7	39.9907468	0.4205808	-0.3184037
104	Carnivora	'1226'	6.8	38.846964	0.39397291	-0.4425056
105	Carnivora	'1227'	6.7	38.359815	0.38999641	-0.3238374
106	Carnivora	'1228'	3.8	30.9957397	0.80815046	-1.0760035
107	Carnivora	'1229'	1.8	33.1360461	1.71592208	0.41775661
108	Carnivora	'1232'	0.9	33.6021657	1.98894972	1.00062688
109	Carnivora	'1233'	1.1	33.5239442	1.94589715	0.72956055
110	Carnivora	'1235_Vulpes	3.5	30.8878148	0.80192272	-0.952517
111	Carnivora	20	3.4	30.7999218	0.81635441	-0.9812079
112	Carnivora	'1236_Urocyo	2.8	35.4465179	1.05286646	-0.1510666
113	Carnivora	'1237'	41.6	54.9847721	-2.2658496	-0.8407759
114	Carnivora	'1238'	38.6	61.6746095	-1.8257148	-1.3162072
115	Carnivora	'1239_Felidae	16.8	74.2942537	-0.4812177	1.2464909
116	Carnivora	'1240'	14.9	71.235717	-1.243534	-0.4696085
117	Carnivora	'1241'	14.7	70.6511337	-1.26767	-0.8367335
118	Carnivora	'1242'	11.1	74.801834	-0.002601	-0.183233
119	Carnivora	'1243'	11	75.5756704	0.02820123	-0.2869665
120	Carnivora	'1245'	10.7	79.1272163	0.06356805	-0.467581
121	Carnivora	'1247'	8	117.517286	0.50672086	-0.8798922
122	Carnivora	'1248'	6.1	156.120395	0.44800322	-0.5925982

123	Carnivora	'1249_Panthe'	6	159.047598	0.51395832	-0.6363129
124	Carnivora	'1250'	5.9	159.981222	0.58206209	-0.5405897
125	Carnivora	'1252_Felinae'	8.7	74.3756301	0.3557251	-1.0070734
126	Carnivora	'1257_Felinae'	8.9	66.9645254	0.33515077	-0.9940536
127	Carnivora	'1262_Felinae'	9	60.967655	0.32985739	-0.9588923
128	Carnivora	'1263'	8.8	59.7425718	0.34363405	-1.0161988
129	Carnivora	'1265_Felis'	6.2	45.1855221	0.45900391	-0.6772265
130	Carnivora	'1266'	5.3	41.0081948	0.70364074	-0.4131362
131	Carnivora	'1270'	7.7	42.1334111	0.50401401	-0.7269356
132	Carnivora	'1271'	7.5	41.9212561	0.51482234	-0.6226952
133	Carnivora	'1272_Felinae'	12.4	74.5096777	-0.2761981	-0.1118398
134	Carnivora	'1273_Hyaen'	24.3	85.3022866	-1.1425024	0.46888688
135	Carnivora	'1274_Hyaen'	24.1	86.0453466	-1.1563867	0.85051779
136	Carnivora	21	24	86.331179	-1.1663216	1.08472412
137	Carnivora	'1275'	36.8	38.2151001	-1.3831809	-1.5439926
138	Carnivora	'1276_Herpe'	35.7	36.0861445	-1.2232512	0.75483086
139	Carnivora	'1277_Herpe'	23.3	23.1367946	-0.9134141	1.4593512
140	Carnivora	22	23.2	23.0093155	-0.8683108	1.47173425
141	Carnivora	'1278'	18	17.7299262	-0.4661202	0.09290462
142	Carnivora	23	17.9	17.6983365	-0.4764078	0.0034921
143	Carnivora	'1290_Herpe'	16.7	18.2907069	-0.5303513	1.37969161
144	Carnivora	24	16.6	18.2665983	-0.5725922	1.47731969
145	Carnivora	25	16.5	18.2825874	-0.6491073	1.74255809
146	Carnivora	'1291'	10	15.6201049	0.12922382	-0.8753031
147	Carnivora	'1292'	5.5	11.5173317	0.72787517	-0.6247556
148	Carnivora	26	16.6	18.3641513	-0.5725922	1.47731969
149	Carnivora	'1279'	17.7	17.536602	-0.4667823	0.07381408
150	Carnivora	'1280'	14.9	16.0676702	-1.243534	-0.4696085
151	Carnivora	'1281'	11.7	14.2113121	-0.1078573	-0.3229215
152	Carnivora	'1282'	11.2	14.0879238	0.00017345	-0.1058428
153	Carnivora	'1283'	9.5	12.1484748	0.22615025	-0.8058018
154	Carnivora	'1284'	9.1	11.789926	0.31466556	-0.9126291
155	Carnivora	'1289'	4.6	13.8302465	0.69980522	-0.2490826
156	Carnivora	'1293_Galere'	13.7	14.7255439	-0.9497216	0.83037682
157	Carnivora	'1294_Galidii'	14.8	17.4542935	-1.2625133	-0.5202555
158	Carnivora	'1296_Viverri'	36.6	37.9054106	-1.3170928	-1.8288548
159	Carnivora	'1297'	23.9	26.0322387	-1.1065248	1.43210588
160	Carnivora	'1298_Viverri'	19.5	24.1135817	-0.6136594	1.05331876
161	Carnivora	'1300'	11.8	16.4505041	-0.1115614	-0.2436751
162	Carnivora	'1301_Geneti'	8.2	15.5837658	0.42309852	-1.2118315
163	Carnivora	'1302'	7	15.3746383	0.4205808	-0.3184037

164	Carnivora	'1307'	5.8	15.1485545	0.62320477	-0.6098095
165	Carnivora	'1310_Priono	3.2	9.97643705	0.90231971	-0.5738359
166	Carnivora	'1311'	13.7	27.3380875	-0.9497216	0.83037682
167	Carnivora	'1312'	10.8	26.9108505	0.0634442	-0.3644497
168	Carnivora	'1313_Viverræ	5.4	31.1934933	0.71308349	-0.3657174
169	Carnivora	'1315'	4.1	30.9265001	0.77975633	-0.7709559
170	Carnivora	'1316'	23	25.5835094	-0.6912005	1.87447317
171	Carnivora	'1317'	22.5	25.3711201	-0.4617359	1.62902441
172	Carnivora	'1318_Paradæ	16.6	24.9877182	-0.5725922	1.47731969
173	Carnivora	'1320'	11.3	25.595425	-0.0087344	-0.1309899
174	Carnivora	'1321_Paradæ	9.2	23.2653397	0.31034484	-0.9493759
175	Carnivora	'1323'	5.8	32.3221198	0.62240399	-0.5964061
176	Carnivora	'1324_Hemig	14.2	24.9456347	-1.1830746	-0.2817082
177	Carnivora	'1326'	27.2	32.0682554	-0.0705283	3.69857014
178	Carnivora	'1327_Eupler	10.2	21.4912655	0.05284047	-0.9188435
179	Cetacea	'1052'	51.6	1897.66427	-2.4046315	-0.1052534
180	Cetacea	'1053'	50.1	1803.7813	-2.5470997	0.08978178
181	Cetacea	'1054'	49.9	1797.27111	-2.461885	0.73592183
182	Cetacea	'1055'	39.3	1374.16319	-0.9279556	-0.6566882
183	Cetacea	'1056'	30.7	1568.1693	0.53189903	0.18427128
184	Cetacea	'1057'	30.1	1558.69629	0.58290343	0.18739947
185	Cetacea	'1058_Phocoï	8.2	760.487527	0.86150493	-1.2547327
186	Cetacea	01	8.1	759.742585	0.89151932	-0.9731294
187	Cetacea	'1060_Delphi	14.1	1889.24804	-0.3240076	0.077359
188	Cetacea	02	14	1871.86748	-0.3024682	0.24520518
189	Cetacea	03	13.9	1883.26407	-0.2710957	0.61044545
190	Cetacea	'1062'	8.5	1294.31262	0.83080906	-1.3781212
191	Cetacea	'1067'	3.5	1054.33977	1.14393839	-0.9356272
192	Cetacea	04	13.9	1843.09033	-0.2710957	0.61044545
193	Cetacea	05	13.8	1838.60236	-0.2366298	0.73733217
194	Cetacea	06	13.8	1818.80114	-0.2366298	0.73733217
195	Cetacea	07	13.7	1796.47578	-0.1576496	1.25032978
196	Cetacea	08	13.6	1782.01195	-0.1111732	1.33539191
197	Cetacea	'1069'	9.7	1406.42555	0.68307842	-1.1905111
198	Cetacea	09	9.6	1402.60029	0.69152794	-1.2516425
199	Cetacea	'1070_Stenell	3.4	948.677293	1.15469797	-0.9709335
200	Cetacea	'1072'	10.3	2628.21508	0.57536846	-0.7314638
201	Cetacea	'1074_Globic	4.3	3280.17969	1.09921793	-0.4871141
202	Cetacea	'1076_Monoc	10.8	2331.27721	0.59336362	-0.2119671
203	Cetacea	'1077_Platani	39.1	1361.66828	-0.900884	-1.0715797
204	Cetacea	'1078'	32.1	1076.82052	0.57494389	1.20316699

205	Cetacea	'1079_Ziphiid	31.6	1932.05017	0.46678553	1.21772852
206	Cetacea	10	31.5	1931.88541	0.47241534	1.07506295
207	Cetacea	11	31.5	1932.95143	0.47241534	1.07506295
208	Cetacea	'1081_Phys	36.5	2842.75438	-0.4223055	-1.9809113
209	Cetacea	'1082_Kogia'	21.5	1662.41517	-0.0508776	1.8274382
210	Perissodactyl	'1106_Perissoc	55.8	488.553372	-1.2484198	-1.3076698
211	Perissodactyl	'1107'	51.5	483.11146	-1.856531	-0.9455741
212	Perissodactyl	'1108_Rhinoc	25.8	631.186589	0.65156868	1.40660089
213	Perissodactyl	'1109'	14.7	628.535358	0.16796291	-1.1536499
214	Perissodactyl	'1111_Tapiric	28.9	324.297448	0.98852891	0.75130225
215	Perissodactyl	'1114_Equida	23.5	529.4282	0.38350413	0.45263068
216	Perissodactyl	'1115'	23.3	529.182299	0.43958621	0.39423663
217	Perissodactyl	'1116'	23.2	529.652322	0.47379998	0.40212329
218	Primates	'753'	51	118.123887	-3.5940844	-0.1354938
219	Primates	'754'	34.4	187.438836	-0.9843386	-1.3089439
220	Primates	'755_Cercopi	19.7	112.541418	-0.3574465	1.22976304
221	Primates	'756_Cercopi	15.9	103.1473	-0.7382052	0.77721421
222	Primates	'759'	13.5	93.2642205	-0.4410711	0.94782155
223	Primates	'761'	10.3	83.3921293	0.24953336	-0.7299303
224	Primates	'762'	10	82.9447773	0.33242571	-0.8325897
225	Primates	'769'	5.5	85.0078474	0.89082999	-0.57487
226	Primates	'773'	14.8	104.958171	-0.9657456	-0.4673783
227	Primates	'774'	14.6	105.720766	-0.9688498	-0.6933328
228	Primates	'775'	7	120.450786	0.60419489	-0.2597482
229	Primates	'778'	10	114.356727	0.33242571	-0.8325897
230	Primates	'779'	8.1	121.265132	0.64409473	-0.9433618
231	Primates	'780_Macaca	8.5	91.315713	0.56813936	-1.2818911
232	Primates	1	8.4	91.1418221	0.58045105	-1.3386665
233	Primates	'781'	8.2	90.2119562	0.60654334	-1.1787517
234	Primates	'782'	7.1	88.0207142	0.63586299	-0.2247415
235	Primates	'783'	7	87.6457637	0.60419489	-0.2597482
236	Primates	'786'	6.9	86.7581477	0.5866995	-0.302205
237	Primates	'789'	8.1	92.0146405	0.64409473	-0.9433618
238	Primates	'790'	5.2	94.0916529	0.8564092	-0.3989074
239	Primates	'793_Colobin	13.5	96.272908	-0.4410711	0.94782155
240	Primates	'794'	10	88.5005119	0.33242571	-0.8325897
241	Primates	'796'	4	81.4857334	0.96454286	-0.7624086
242	Primates	'803'	8.7	94.3409847	0.54369941	-0.9681321
243	Primates	'804'	6.6	97.686351	0.60009953	-0.4140453
244	Primates	'813'	21.4	307.987113	-0.5587398	1.25788584
245	Primates	'814_Hominid	18	380.024956	-0.2228936	0.16333434

246	Primates	'815'	11.5	531.482254	0.15484016	-0.4044114
247	Primates	'816'	8.6	618.453239	0.56466788	-1.0030566
248	Primates	'817_Pan'	4.5	440.121878	0.8749433	-0.1894026
249	Primates	'819'	7.9	147.133722	0.69489718	-0.7069758
250	Primates	'822'	4	106.748468	0.96454286	-0.7624086
251	Primates	2	3.9	106.032106	0.97823632	-0.8239173
252	Primates	'825'	23.2	56.2759749	-0.5980451	1.58163491
253	Primates	'826_Cebidae'	22	56.5867325	-0.277814	1.37782348
254	Primates	'827'	19.1	64.378063	-0.1818676	1.17823018
255	Primates	'828_Alouatti'	6	50.8731117	0.69129468	-0.586758
256	Primates	3	5.9	50.7729188	0.75403865	-0.4876898
257	Primates	'831_Atelinae'	15.4	78.1337962	-0.7733633	0.44333768
258	Primates	'832_Ateles'	7.6	101.455665	0.68498662	-0.5610605
259	Primates	'836'	7.4	101.85665	0.66786669	-0.3631802
260	Primates	'839'	19.6	50.7646497	-0.3680579	1.20090222
261	Primates	'855'	20.2	48.824165	-0.3458778	1.56439876
262	Primates	4	20.1	48.9803749	-0.3472566	1.28669505
263	Primates	5	20.1	48.4195367	-0.3472566	1.28669505
264	Primates	'856_Callitrichid	15.6	30.5004501	-0.7857001	0.66151103
265	Primates	'857'	14.4	27.1789744	-0.9190853	-0.3147103
266	Primates	'859_Callithrichid	5.5	11.2022356	0.89082999	-0.57487
267	Primates	'875'	0.7	12.4393537	2.20254459	1.52851423
268	Primates	'880_Cebidae'	17.9	48.2785543	-0.2324896	0.07136227
269	Primates	'881_Cebus'	5.7	66.2189921	0.85974896	-0.4952188
270	Primates	'882'	2.7	68.005843	1.25237505	0.12301696
271	Primates	'883'	2.6	67.9051879	1.30427729	0.3724373
272	Primates	'884_Saimiri'	3	25.420115	1.10044769	-0.4317234
273	Primates	'886'	1.5	23.7766713	1.9221442	0.43517057
274	Primates	'889'	47	26.0712534	-2.9931379	-1.565694
275	Primates	'891_Cheirogalei'	33.9	15.5121037	-0.9147087	-0.6546769
276	Primates	'895_Cheirogalei'	16.1	8.3242103	-0.658226	1.42533863
277	Primates	'896'	44.5	26.7519864	-2.0722806	-0.5621798
278	Primates	'897'	40	28.1858807	-1.6521593	0.07214087
279	Primates	'898_Indridae'	28	26.9114385	0.16982889	3.00512623
280	Primates	'899'	23.5	24.6053089	-0.7086754	1.65837814
281	Primates	'901_Lemuridae'	23	25.733157	-0.4328418	1.9959028
282	Primates	6	22.9	25.7388551	-0.3774149	2.11454026
283	Primates	'903'	7.2	24.0895487	0.5393682	0.02415807
284	Primates	'905'	7.1	24.099803	0.63586299	-0.2247415
285	Primates	'908'	38.9	14.9507456	-1.5703978	-0.9918801
286	Primates	'909_Loridae'	34.8	13.5339614	-0.9679946	-1.6496061

287	Primates	'912'	31.4	12.5074481	0.13534032	0.4499468
288	Primates	'913_Nycticei	14.6	10.9396707	-0.9688498	-0.6933328
289	Primates	'915'	24.3	9.31633068	-0.8538029	0.55007962

slope1MY	mean400KY	sd400KY	slope400KY	mean200KY	sd200KY	slope200KY
-0.5253082	-2.8574324	-0.6529744	-0.7861622	-2.8406747	-0.3297855	-0.6485502
-1.1469364	0.60375982	0.41524949	-0.5157182	0.70379603	-0.1308456	0.20235919
-1.2991388	0.55923688	2.76696064	0.55169433	0.52920576	3.38344898	0.73617524
0.08179679	0.08584116	-0.236154	0.1000341	0.11441245	-0.1261153	0.33395667
2.05891081	-0.4090896	0.61957272	1.43758666	-0.4628129	0.44878322	0.32212259
0.26882598	-0.6214173	-0.2030319	0.51161821	-0.6290384	-0.4513497	1.11618202
-0.4529311	0.87195448	-1.5611354	-0.127113	0.86505076	-0.9784884	-0.573845
-0.7294641	0.51484402	-0.5594494	-0.75821	0.531852	-0.5778259	-0.1544448
-0.4379452	1.12560496	-1.0264722	0.57449334	1.09090853	-0.6976173	-0.1322201
-0.0045009	0.0719704	1.07603449	0.91917829	0.0231221	0.55748423	0.11064338
-1.4662865	0.36737396	-0.3532389	-0.6002016	0.40614783	-0.3669675	-0.1293815
-0.7441585	1.00133391	-0.3920396	0.52630476	0.9980552	-0.572085	1.79219797
-0.7441585	1.00133391	-0.3920396	0.52630476	0.9980552	-0.572085	1.79219797
0.30170162	0.01664203	0.19238195	1.62624113	-0.0705244	0.39693796	-0.0184182
-0.9554038	0.14962124	-0.6551678	-1.753153	0.22810335	-0.627632	-0.4381461
-0.1629733	-2.5878392	-1.4125358	-1.4892618	-2.56499	-1.5176636	-2.6374254
1.98680495	-0.0729479	1.37208853	-0.5806245	-0.1007931	1.44142803	-1.111312
1.36227232	-0.0621439	0.65606575	0.25010199	-0.0512411	0.39333036	1.02230702
0.71459201	-0.1346067	0.46116966	1.26926287	-0.2128298	0.36913131	-0.9019082
0.9550416	-0.2412796	0.10533054	0.05284474	-0.1932134	0.11160491	0.70477314
0.97890538	0.02269856	0.85088976	0.42426738	-0.0118171	0.5863398	-0.7675278
-0.0396461	0.59454128	-1.0715046	-2.1594881	0.64922561	-0.740028	-0.619736
-0.3572085	-2.8444498	-0.1517956	-3.4335121	-2.6492453	-0.9270212	-1.2437106
1.20914387	-2.9035667	-1.5061782	-0.0382175	-2.8804197	-0.9310688	-0.7914726
-2.1629062	-3.7168039	1.28067705	1.68628493	-3.9760822	1.85328129	-5.2775232
0.21919501	-1.5901779	0.25602281	-0.3484628	-1.6643384	-1.0280655	-1.5324549
2.15946299	-0.2697518	2.49853919	3.14100372	-0.5567827	3.05553401	2.48122941
1.04773002	-1.1967085	1.26376673	0.16630499	-1.15282	1.28268376	-0.4713838
0.76009674	-1.2096728	1.554415	-0.5648825	-1.1000501	1.82550771	0.05296566
-0.2709591	-0.9929091	1.65395656	-0.6540454	-0.8756533	1.21133232	0.97250984
-1.5219068	-0.2805398	1.2347965	1.52226879	-0.4326942	0.57794842	-0.4833625
-0.5387199	-0.4494924	1.05961111	1.06671787	-0.5037285	0.68250573	0.95466258
-0.6701362	-0.4660216	-0.3568176	-0.8688796	-0.3691542	-0.3916191	-0.4881344
0.21657987	0.15912736	-1.1988342	0.2012181	0.15532356	-0.8256395	0.46674683
-1.1934926	0.82411605	-0.6605769	0.23459777	0.80416947	-0.9114134	0.44063378
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Blarinella\_wardi  
Blarinomys\_breviceps  
Blastocerus\_dichotomus  
Bolomys\_amoenus  
Bolomys\_lactens  
Bolomys\_lasiurus  
Bolomys\_obscurus  
Bolomys\_punctulatus  
Bolomys\_temchuki  
Boneia\_bidens  
Bos\_frontalis  
Bos\_grunniens  
Bos\_javanicus  
Bos\_sauveli  
Bos\_taurus  
Boselaphus\_tragocamelus  
Brachiones\_przewalskii  
Brachylagus\_idahoensis  
Brachyphylla\_cavernarum  
Brachyphylla\_nana  
Brachytarsomys\_albicauda  
Brachyteles\_arachnoides  
Brachyuromys\_betsileoensis  
Brachyuromys\_ramirohitra  
Bradypus\_torquatus  
Bradypus\_tridactylus  
Bradypus\_variegatus  
Bubalus\_bubalis  
Bubalus\_depressicornis  
Bubalus\_mindorensis  
Bubalus\_quarlesi  
Budorcas\_taxicolor  
Bullimus\_bagobus  
Bullimus\_luzonicus  
Bunolagus\_monticularis  
Bunomys\_andrewsi  
Bunomys\_chrysocomus  
Bunomys\_coelestis  
Bunomys\_fratrorum  
Bunomys\_heinrichi  
Bunomys\_penitus  
Bunomys\_prolatus  
Burramys\_parvus  
Cabassous\_centralis  
Cabassous\_chacoensis  
Cabassous\_tatouay  
Cabassous\_unicinctus  
Cacajao\_calvus  
Cacajao\_melanocephalus  
Caenolestes\_caniventer  
Caenolestes\_convexus  
Caenolestes\_fuliginosus  
Calcochloris\_obtusirostris  
Callicebus\_brunneus  
Callicebus\_caligatus  
Callicebus\_cinerascens  
Callicebus\_cupreus  
Callicebus\_donacophilus  
Callicebus\_dubius

Callicebus\_hoffmannsi  
Callicebus\_modestus  
Callicebus\_moloch  
Callicebus\_oenanthe  
Callicebus\_olallae  
Callicebus\_personatus  
Callicebus\_torquatus  
Callimico\_goeldii  
Callithrix\_argentata  
Callithrix\_aurita  
Callithrix\_flaviceps  
Callithrix\_geoffroyi  
Callithrix\_humeralifera  
Callithrix\_jacchus  
Callithrix\_kuhlii  
Callithrix\_penicillata  
Callithrix\_pygmaea  
Callorhinus\_ursinus  
Callosciurus\_adamsi  
Callosciurus\_albescens  
Callosciurus\_baluensis  
Callosciurus\_caniceps  
Callosciurus\_finlaysonii  
Callosciurus\_inornatus  
Callosciurus\_melanogaster  
Callosciurus\_nigrovittatus  
Callosciurus\_notatus  
Callosciurus\_orestes  
Callosciurus\_phayrei  
Callosciurus\_prevostii  
Callosciurus\_pygerythrus  
Callosciurus\_quinquestriatus  
Calomys\_boliviæ  
Calomys\_callidus  
Calomys\_callosus  
Calomys\_hummelincki  
Calomys\_laucha  
Calomys\_lepidus  
Calomys\_musculinus  
Calomys\_sorellus  
Calomys\_tener  
Calomyscus\_bailwardi  
Calomyscus\_baluchi  
Calomyscus\_hotsoni  
Calomyscus\_mystax  
Calomyscus\_tsolovi  
Calomyscus\_urartensis  
Caluromys\_derbianus  
Caluromys\_lanatus  
Caluromys\_philander  
Caluromysiops\_irrupta  
Camelus\_bactrianus  
Camelus\_dromedarius  
Canis\_adustus  
Canis\_aureus  
Canis\_latrans  
Canis\_lupus  
Canis\_mesomelas  
Canis\_rufus  
Canis\_simensis

Cannomys\_badius  
Cansumys\_canus  
Caperea\_marginata  
Capra\_caucasica  
Capra\_cylindricornis  
Capra\_falconeri  
Capra\_hircus  
Capra\_ibex  
Capra\_nubiana  
Capra\_pyrenaica  
Capra\_sibirica  
Capra\_walie  
Capreolus\_capreolus  
Capreolus\_pygargus  
Caprolagus\_hispidus  
Capromys\_pilorides  
Caracal\_caracal  
Cardiocranius\_paradoxus  
Cardioderma\_cor  
Carollia\_brevicauda  
Carollia\_castanea  
Carollia\_perspicillata  
Carollia\_subrufa  
Carpomys\_melanurus  
Carpomys\_phaeurus  
Carterodon\_sulcidens  
Casinycteris\_argynnus  
Castor\_canadensis  
Castor\_fiber  
Catagonus\_wagneri  
Catopuma\_badia  
Catopuma\_temminckii  
Cavia\_aperea  
Cavia\_fulgida  
Cavia\_magna  
Cavia\_porcellus  
Cavia\_tschudii  
Cebus\_albifrons  
Cebus\_apella  
Cebus\_capucinus  
Cebus\_olivaceus  
Celaenomys\_silaceus  
Centronycteris\_maximiliani  
Centurio\_senex  
Cephalophus\_adersi  
Cephalophus\_callipygus  
Cephalophus\_dorsalis  
Cephalophus\_harveyi  
Cephalophus\_jentinki  
Cephalophus\_leucogaster  
Cephalophus\_maxwellii  
Cephalophus\_monticola  
Cephalophus\_natalensis  
Cephalophus\_niger  
Cephalophus\_nigrifrons  
Cephalophus\_ogilbyi  
Cephalophus\_rubidus  
Cephalophus\_rufilatus  
Cephalophus\_silvicultor  
Cephalophus\_spadix

Cephalophus\_weynsi  
Cephalophus\_zebra  
Cephalorhynchus\_commersonii  
Cephalorhynchus\_eutropia  
Cephalorhynchus\_heavisidii  
Cephalorhynchus\_hectori  
Ceratotherium\_simum  
Cercartetus\_caudatus  
Cercartetus\_concinnus  
Cercartetus\_lepidus  
Cercartetus\_nanus  
Cercocebus\_agilis  
Cercocebus\_galeritus  
Cercocebus\_torquatus  
Cercopithecus\_ascanius  
Cercopithecus\_campbelli  
Cercopithecus\_cephus  
Cercopithecus\_diana  
Cercopithecus\_dryas  
Cercopithecus\_erythrogaster  
Cercopithecus\_erythrotis  
Cercopithecus\_hamlyni  
Cercopithecus\_lhoesti  
Cercopithecus\_mitis  
Cercopithecus\_mona  
Cercopithecus\_neglectus  
Cercopithecus\_nictitans  
Cercopithecus\_petaurista  
Cercopithecus\_pogonias  
Cercopithecus\_preussi  
Cercopithecus\_slateri  
Cercopithecus\_solatus  
Cercopithecus\_wolfi  
Cerdocyon\_thous  
Cervus\_albirostris  
Cervus\_alfredi  
Cervus\_duvaucelii  
Cervus\_elaphus  
Cervus\_eldii  
Cervus\_mariannus  
Cervus\_nippon  
Cervus\_timorensis  
Cervus\_unicolor  
Chaerephon\_aloysiisabaudiae  
Chaerephon\_ansorgei  
Chaerephon\_bemmeleni  
Chaerephon\_bivittata  
Chaerephon\_chapini  
Chaerephon\_gallagheri  
Chaerephon\_jobensis  
Chaerephon\_johorensis  
Chaerephon\_major  
Chaerephon\_nigeriae  
Chaerephon\_plicata  
Chaerephon\_pumila  
Chaerephon\_russata  
Chaetodipus\_arenarius  
Chaetodipus\_artus  
Chaetodipus\_baileyi  
Chaetodipus\_californicus

Chaetodipus\_fallax  
Chaetodipus\_formosus  
Chaetodipus\_goldmani  
Chaetodipus\_hispidus  
Chaetodipus\_intermedius  
Chaetodipus\_lineatus  
Chaetodipus\_nelsoni  
Chaetodipus\_penicillatus  
Chaetodipus\_pernix  
Chaetodipus\_spinatus  
Chaetomys\_subspinosus  
Chaetophractus\_nationi  
Chaetophractus\_vellerosus  
Chaetophractus\_villosus  
Chalinolobus\_alboguttatus  
Chalinolobus\_argentatus  
Chalinolobus\_beatrix  
Chalinolobus\_dwyeri  
Chalinolobus\_egeria  
Chalinolobus\_gleni  
Chalinolobus\_gouldii  
Chalinolobus\_kenyacola  
Chalinolobus\_morio  
Chalinolobus\_nigrogriseus  
Chalinolobus\_picatus  
Chalinolobus\_poensis  
Chalinolobus\_superbus  
Chalinolobus\_tuberculatus  
Chalinolobus\_variegatus  
Cheirogaleus\_major  
Cheirogaleus\_mediums  
Cheiromeles\_torquatus  
Chelemys\_macronyx  
Chelemys\_megalonyx  
Chibchanomys\_trichotis  
Chilomys\_instans  
Chimarrogale\_hantu  
Chimarrogale\_himalayica  
Chimarrogale\_phaeura  
Chimarrogale\_platycephala  
Chimarrogale\_styani  
Chimarrogale\_sumatrana  
Chinchilla\_brevicaudata  
Chinchilla\_lanigera  
Chinchillula\_sahamae  
Chionomys\_gud  
Chionomys\_nivalis  
Chionomys\_roberti  
Chiropus\_doriae  
Chiropus\_improvisum  
Chiropus\_salvini  
Chiropus\_trinitatum  
Chiropus\_villosum  
Chiromyscus\_chiropus  
Chironax\_melanocephalus  
Chironectes\_minimus  
Chiropodomys calamianensis  
Chiropodomys\_gliroides  
Chiropodomys\_karlkoopmani  
Chiropodomys\_major

Chiropodomys\_murooides  
Chiropodomys\_pusillus  
Chiropotes\_albinasus  
Chiropotes\_satanas  
Chiruromys\_forbesi  
Chiruromys\_lamia  
Chiruromys\_vates  
Chlamyphorus\_retusus  
Chlamyphorus\_truncatus  
Chlorocebus\_aethiops  
Chlorotalpa\_arendsi  
Chlorotalpa\_duthieae  
Chlorotalpa\_leucorrhina  
Chlorotalpa\_sclateri  
Chlorotalpa\_tytonis  
Choeroniscus\_godmani  
Choeroniscus\_intermedius  
Choeroniscus\_minor  
Choeroniscus\_periosus  
Choeronycteris\_mexicana  
Choloepus\_didactylus  
Choloepus\_hoffmanni  
Chroemomys\_andinus  
Chroemomys\_jelskii  
Chrotogale\_owstoni  
Chrotomys\_gonzalesi  
Chrotomys\_mindorensis  
Chrotomys\_whiteheadi  
Chrotopterus\_auritus  
Chrysochloris\_asiatica  
Chrysochloris\_stuhlmanni  
Chrysochloris\_visagiei  
Chrysocyon\_brachyurus  
Chrysospalax\_trevelyanii  
Chrysospalax\_villosus  
Civettictis\_civetta  
Clethrionomys\_californicus  
Clethrionomys\_centralis  
Clethrionomys\_gapperi  
Clethrionomys\_glareolus  
Clethrionomys\_rufocanus  
Clethrionomys\_rutilus  
Clethrionomys\_sikotanensis  
Cloeotis\_percivali  
Clyomys\_bishopi  
Clyomys\_laticeps  
Coccymys\_albidens  
Coccymys\_ruemmlieri  
Coelops\_fritchi  
Coelops\_hirsutus  
Coelops\_robinsoni  
Coendou\_bicolor  
Coendou\_koopmani  
Coendou\_prehensilis  
Coendou\_rothschildi  
Coleura\_afra  
Coleura\_seychellensis  
Colobus\_angolensis  
Colobus\_guereza  
Colobus\_polykomos  
Colobus\_satanas

*Colomys\_goslingi*  
*Condylura\_cristata*  
*Conepatus\_chinga*  
*Conepatus\_humboldtii*  
*Conepatus\_leuconotus*  
*Conepatus\_mesoleucus*  
*Conepatus\_semistriatus*  
*Congosorex\_polli*  
*Conilurus\_penicillatus*  
*Connochaetes\_gnou*  
*Connochaetes\_taurinus*  
*Cormura\_brevirostris*  
*Craseonycteris\_thonglongyai*  
*Crateromys\_australis*  
*Crateromys\_paulus*  
*Crateromys\_schadenbergi*  
*Cremonomys\_blanfordi*  
*Cremonomys\_cutchicus*  
*Cremonomys\_elvira*  
*Cricetomys\_emini*  
*Cricetomys\_gambianus*  
*Cricetulus\_alticola*  
*Cricetulus\_barabensis*  
*Cricetulus\_kamensis*  
*Cricetulus\_longicaudatus*  
*Cricetulus\_migratorius*  
*Cricetulus\_sokolovi*  
*Cricetus\_cricetus*  
*Crocidura\_aleksandrisi*  
*Crocidura\_allex*  
*Crocidura\_andamanensis*  
*Crocidura\_ansellorum*  
*Crocidura\_arabica*  
*Crocidura\_armenica*  
*Crocidura\_attenuata*  
*Crocidura\_attila*  
*Crocidura\_baileyi*  
*Crocidura\_batesi*  
*Crocidura\_beatus*  
*Crocidura\_beccarii*  
*Crocidura\_bottegi*  
*Crocidura\_bottegooides*  
*Crocidura\_buettikoferi*  
*Crocidura\_caliginea*  
*Crocidura\_canariensis*  
*Crocidura\_cinderella*  
*Crocidura\_congobelgica*  
*Crocidura\_cossyrensis*  
*Crocidura\_crenata*  
*Crocidura\_crossei*  
*Crocidura\_cyanea*  
*Crocidura\_denti*  
*Crocidura\_desperata*  
*Crocidura\_dhofarensis*  
*Crocidura\_dolichura*  
*Crocidura\_douceti*  
*Crocidura\_dsinezumi*  
*Crocidura\_eisentrauti*  
*Crocidura\_elgonius*  
*Crocidura\_elongata*

Crocidura\_erica  
Crocidura\_fischeri  
Crocidura\_flavescens  
Crocidura\_floweri  
Crocidura\_foxi  
Crocidura\_fuliginosa  
Crocidura\_fulvastra  
Crocidura\_fumosa  
Crocidura\_fuscomurina  
Crocidura\_glassi  
Crocidura\_goliath  
Crocidura\_gracilipes  
Crocidura\_grandiceps  
Crocidura\_grandis  
Crocidura\_grassei  
Crocidura\_grayi  
Crocidura\_greenwoodi  
Crocidura\_gueldenaedtii  
Crocidura\_harennae  
Crocidura\_hildegardeae  
Crocidura\_hirta  
Crocidura\_hispida  
Crocidura\_horsfieldii  
Crocidura\_jacksoni  
Crocidura\_jenkinsi  
Crocidura\_kivuana  
Crocidura\_lamottei  
Crocidura\_lanosa  
Crocidura\_lasiura  
Crocidura\_latona  
Crocidura\_lea  
Crocidura\_leucodon  
Crocidura\_levicula  
Crocidura\_littoralis  
Crocidura\_longipes  
Crocidura\_lucina  
Crocidura\_ludia  
Crocidura\_luna  
Crocidura\_lusitania  
Crocidura\_macarthuri  
Crocidura\_macmillani  
Crocidura\_macowi  
Crocidura\_malayana  
Crocidura\_manengubae  
Crocidura\_maquassiensis  
Crocidura\_mariquensis  
Crocidura\_maurisca  
Crocidura\_maxi  
Crocidura\_mindorus  
Crocidura\_minuta  
Crocidura\_miya  
Crocidura\_monax  
Crocidura\_monticola  
Crocidura\_montis  
Crocidura\_muricauda  
Crocidura\_mutesae  
Crocidura\_nana  
Crocidura\_nanilla  
Crocidura\_neglecta  
Crocidura\_negrina

*Crocidura\_nicobarica*  
*Crocidura\_nigeriae*  
*Crocidura\_nigricans*  
*Crocidura\_nigripes*  
*Crocidura\_nigrofusca*  
*Crocidura\_nimbae*  
*Crocidura\_niobe*  
*Crocidura\_obscurior*  
*Crocidura\_olivieri*  
*Crocidura\_orii*  
*Crocidura\_osorio*  
*Crocidura\_palawanensis*  
*Crocidura\_paradoxura*  
*Crocidura\_parvipes*  
*Crocidura\_pasha*  
*Crocidura\_pergrisea*  
*Crocidura\_phaeura*  
*Crocidura\_picea*  
*Crocidura\_pitmani*  
*Crocidura\_planiceps*  
*Crocidura\_poensis*  
*Crocidura\_polia*  
*Crocidura\_pullata*  
*Crocidura\_raineyi*  
*Crocidura\_religiosa*  
*Crocidura\_rhoditis*  
*Crocidura\_roosevelti*  
*Crocidura\_russula*  
*Crocidura\_selina*  
*Crocidura\_serezkyensis*  
*Crocidura\_sibirica*  
*Crocidura\_sicula*  
*Crocidura\_silacea*  
*Crocidura\_smithii*  
*Crocidura\_somalica*  
*Crocidura\_stenocephala*  
*Crocidura\_suaveolens*  
*Crocidura\_susiana*  
*Crocidura\_tansaniana*  
*Crocidura\_tarella*  
*Crocidura\_tarfayensis*  
*Crocidura\_telfordi*  
*Crocidura\_tenuis*  
*Crocidura\_thalia*  
*Crocidura\_theresae*  
*Crocidura\_thomensis*  
*Crocidura\_turba*  
*Crocidura\_ultima*  
*Crocidura\_usambarae*  
*Crocidura\_viaria*  
*Crocidura\_voi*  
*Crocidura\_whitakeri*  
*Crocidura\_wimmeri*  
*Crocidura\_xantippe*  
*Crocidura\_yankariensis*  
*Crocidura\_zaphiri*  
*Crocidura\_zarudnyi*  
*Crocidura\_zimmeri*  
*Crocidura\_zimmermanni*  
*Crocuta\_crocuta*

*Crossarchus\_alexandri*  
*Crossarchus\_ansorgei*  
*Crossarchus\_obscurus*  
*Crossomys\_moncktoni*  
*Crunomys\_celebensis*  
*Crunomys\_fallax*  
*Crunomys\_melanius*  
*Crunomys\_rabori*  
*Cryptomys\_bocagei*  
*Cryptomys\_damarensis*  
*Cryptomys\_foxi*  
*Cryptomys\_hottentotus*  
*Cryptomys\_mechowi*  
*Cryptomys\_ochraceocinereus*  
*Cryptomys\_zechi*  
*Cryptoprocta\_ferox*  
*Cryptotis\_avia*  
*Cryptotis\_endersi*  
*Cryptotis\_goldmani*  
*Cryptotis\_goodwini*  
*Cryptotis\_gracilis*  
*Cryptotis\_hondurensis*  
*Cryptotis\_magna*  
*Cryptotis\_meridensis*  
*Cryptotis\_mexicana*  
*Cryptotis\_montivaga*  
*Cryptotis\_nigrescens*  
*Cryptotis\_parva*  
*Cryptotis\_squamipes*  
*Cryptotis\_thomasi*  
*Ctenodactylus\_gundi*  
*Ctenodactylus\_vali*  
*Ctenomys\_argentinus*  
*Ctenomys\_australis*  
*Ctenomys\_azarae*  
*Ctenomys\_boliviensis*  
*Ctenomys\_bonettoi*  
*Ctenomys\_brasiliensis*  
*Ctenomys\_colburni*  
*Ctenomys\_conoveri*  
*Ctenomys\_dorsalis*  
*Ctenomys\_emilianus*  
*Ctenomys\_frater*  
*Ctenomys\_fulvus*  
*Ctenomys\_haigi*  
*Ctenomys\_knighti*  
*Ctenomys\_latro*  
*Ctenomys\_leucodon*  
*Ctenomys\_lewisi*  
*Ctenomys\_magellanicus*  
*Ctenomys\_maulinus*  
*Ctenomys\_mendocinus*  
*Ctenomys\_minutus*  
*Ctenomys\_nattereri*  
*Ctenomys\_occultus*  
*Ctenomys\_opimus*  
*Ctenomys\_pearsoni*  
*Ctenomys\_perrensis*  
*Ctenomys\_peruanus*  
*Ctenomys\_pontifex*

Ctenomys\_porteousi  
Ctenomys\_saltarius  
Ctenomys\_sericeus  
Ctenomys\_sociabilis  
Ctenomys\_steinbachi  
Ctenomys\_talarum  
Ctenomys\_torquatus  
Ctenomys\_tuconax  
Ctenomys\_tucumanus  
Ctenomys\_validus  
Cuon\_alpinus  
Cyclopes\_didactylus  
Cynictis\_penicillata  
Cynocephalus\_variegatus  
Cynocephalus\_volans  
Cynogale\_bennettii  
Cynomys\_gunnisoni  
Cynomys\_leucurus  
Cynomys\_ludovicianus  
Cynomys\_mexicanus  
Cynomys\_parvidens  
Cynopterus\_brachyotis  
Cynopterus\_horsfieldi  
Cynopterus\_nusatenggara  
Cynopterus\_sphinx  
Cynopterus\_titthaecheilus  
Cystophora\_cristata  
Cyttarops\_alecto  
Dacnomys\_millardii  
Dactylomys\_boliviensis  
Dactylomys\_dactylinus  
Dactylomys\_peruanus  
Dactylopsila\_megalura  
Dactylopsila\_palpator  
Dactylopsila\_tatei  
Dactylopsila\_trivirgata  
Dama\_dama  
Dama\_mesopotamica  
Damaliscus\_hunteri  
Damaliscus\_lunatus  
Damaliscus\_pygargus  
Dasycercus\_byrnei  
Dasycercus\_cristicauda  
Dasylaluta\_rosamondae  
Dasymys\_foxi  
Dasymys\_incomitus  
Dasymys\_montanus  
Dasymys\_nudipes  
Dasymys\_rufulus  
Dasyprocta\_azarae  
Dasyprocta\_coibae  
Dasyprocta\_cristata  
Dasyprocta\_fuliginosa  
Dasyprocta\_guamara  
Dasyprocta\_kalinowskii  
Dasyprocta\_leporina  
Dasyprocta\_mexicana  
Dasyprocta\_prymnolopha  
Dasyprocta\_punctata  
Dasyprocta\_ruatanica

Dasypus\_hybridus  
Dasypus\_kappleri  
Dasypus\_novemcinctus  
Dasypus\_pilosus  
Dasypus\_sabanicola  
Dasypus\_septemcinctus  
Dasyurus\_albopunctatus  
Dasyurus\_geoffroii  
Dasyurus\_hallucatus  
Dasyurus\_maculatus  
Dasyurus\_spartacus  
Dasyurus\_viverrinus  
Daubentonias\_madagascariensis  
Delanymys\_brooksi  
Delomys\_dorsalis  
Delomys\_sublineatus  
Delphinapterus\_leucas  
Delphinus\_delphis  
Dendrogale\_melanura  
Dendrogale\_murina  
Dendrohyrax\_arboreus  
Dendrohyrax\_dorsalis  
Dendrohyrax\_validus  
Dendrolagus\_bennettianus  
Dendrolagus\_dorianus  
Dendrolagus\_goodfellowi  
Dendrolagus\_inustus  
Dendrolagus\_lumholtzi  
Dendrolagus\_matschiei  
Dendrolagus\_scottae  
Dendrolagus\_spadix  
Dendrolagus\_ursinus  
Dendromus\_insignis  
Dendromus\_kahuziensis  
Dendromus\_kivu  
Dendromus\_lovati  
Dendromus\_melanotis  
Dendromus\_mesomelas  
Dendromus\_messorius  
Dendromus\_mystacalis  
Dendromus\_nyikae  
Dendromus\_oreas  
Dendromus\_vernayi  
Dendroprionomys\_rousseloti  
Deomys\_ferrugineus  
Dephomys\_defua  
Dephomys\_eburnea  
Desmana\_moschata  
Desmodilliscus\_braueri  
Desmodillus\_auricularis  
Desmodus\_rotundus  
Desmomys\_harringtoni  
Diaemus\_youngi  
Dicerorhinus\_sumatrensis  
Diceros\_bicornis  
Diclidurus\_albus  
Diclidurus\_ingens  
Diclidurus\_isabellus  
Diclidurus\_scutatus  
Dicrostonyx\_exsul

Dicrostonyx\_groenlandicus  
Dicrostonyx\_hudsonius  
Dicrostonyx\_kilangmiutak  
Dicrostonyx\_nelsoni  
Dicrostonyx\_nunatakensis  
Dicrostonyx\_richardsoni  
Dicrostonyx\_rubricatus  
Dicrostonyx\_torquatus  
Dicrostonyx\_unalascensis  
Dicrostonyx\_vinogradovi  
Didelphis\_albiventris  
Didelphis\_aurita  
Didelphis\_marsupialis  
Didelphis\_virginiana  
Dinaromys\_bogdanovi  
Dinomys\_branickii  
Diomys\_crumpi  
Diphylla\_ecaudata  
Diplogale\_hosei  
Diplomesodon\_pulchellum  
Diplomys\_caniceps  
Diplomys\_labilis  
Diplomys\_rufodorsalis  
Diplothrix\_legatus  
Dipodomys\_agilis  
Dipodomys\_californicus  
Dipodomys\_compactus  
Dipodomys\_deserti  
Dipodomys\_elator  
Dipodomys\_elephantinus  
Dipodomys\_gravipes  
Dipodomys\_heermannii  
Dipodomys\_ingens  
Dipodomys\_insularis  
Dipodomys\_merriami  
Dipodomys\_microps  
Dipodomys\_nelsoni  
Dipodomys\_nitratooides  
Dipodomys\_ordii  
Dipodomys\_panamintinus  
Dipodomys\_phillipsii  
Dipodomys\_spectabilis  
Dipodomys\_stephensi  
Dipodomys\_venustus  
Dipus\_sagitta  
Distoechurus\_pennatus  
Dobsonia\_beauforti  
Dobsonia\_emersa  
Dobsonia\_exoleta  
Dobsonia\_inermis  
Dobsonia\_minor  
Dobsonia\_moluccensis  
Dobsonia\_pannietensis  
Dobsonia\_peroni  
Dobsonia\_praedatrix  
Dobsonia\_viridis  
Dolichotis\_patagonum  
Dolichotis\_salinicola  
Dologale\_dybowskii  
Dorcatragus\_megalotis

Dorcopsis\_atrata  
Dorcopsis\_hageni  
Dorcopsis\_luctuosa  
Dorcopsis\_muelleri  
Dorcopsulus\_macleayi  
Dorcopsulus\_vanheurni  
Dremomys\_everetti  
Dremomys\_lokriah  
Dremomys\_pernyi  
Dremomys\_pyrrhomerus  
Dremomys\_rufigenis  
Dromiciops\_gliroides  
Dryomys\_laniger  
Dryomys\_nitedula  
Dryomys\_sichuanensis  
Dugong\_dugon  
Dyacopterus\_spadiceus  
Echimys\_blainvillei  
Echimys\_braziliensis  
Echimys\_chrysurus  
Echimys\_dasythrix  
Echimys\_grandis  
Echimys\_lamarum  
Echimys\_macrurus  
Echimys\_nigrispinus  
Echimys\_pictus  
Echimys\_rhipidurus  
Echimys\_saturnus  
Echimys\_semivillosus  
Echimys\_thomasi  
Echimys\_unicolor  
Echinoprocta\_rufescens  
Echinops\_telfairi  
Echinosorex\_gymnura  
Echiothrix\_leucura  
Echymipera\_clara  
Echymipera\_davidi  
Echymipera\_echinista  
Echymipera\_kalubu  
Echymipera\_rufescens  
Ectophylla\_alba  
Eidolon\_dupreanum  
Eidolon\_helvum  
Eira\_barbara  
Elaphodus\_cephalophus  
Elaphurus\_davidianus  
Elephantulus\_brachyrhynchus  
Elephantulus\_edwardii  
Elephantulus\_fuscipes  
Elephantulus\_fuscus  
Elephantulus\_intufi  
Elephantulus\_myurus  
Elephantulus\_revoili  
Elephantulus\_rozeti  
Elephantulus\_rufescens  
Elephantulus\_rupestris  
Elephas\_maximus  
Eligmodontia\_moreni  
Eligmodontia\_morgani  
Eligmodontia\_puerulus

Eligmodontia\_typus  
Eliomys\_melanurus  
Eliomys\_quercinus  
Eliurus\_majori  
Eliurus\_minor  
Eliurus\_myoxinus  
Eliurus\_penicillatus  
Eliurus\_tanala  
Eliurus\_webbi  
Ellobius\_alaicus  
Ellobius\_fuscocapillus  
Ellobius\_lutescens  
Ellobius\_talpinus  
Ellobius\_tancrei  
Emballonura\_alecto  
Emballonura\_atrata  
Emballonura\_beccarii  
Emballonura\_dianae  
Emballonura\_furax  
Emballonura\_monticola  
Emballonura\_raffrayana  
Emballonura\_semicaudata  
Enhydra\_lutris  
Eolagurus\_luteus  
Eolagurus\_przewalskii  
Eonycteris\_major  
Eonycteris\_spelaea  
Eothenomys\_chinensis  
Eothenomys\_custos  
Eothenomys\_eva  
Eothenomys\_inez  
Eothenomys\_melanogaster  
Eothenomys\_olitor  
Eothenomys\_proditor  
Eothenomys\_regulus  
Eothenomys\_shanseius  
Eozapus\_setchuanus  
Epixerus\_ebii  
Epixerus\_wilsoni  
Epomophorus\_angolensis  
Epomophorus\_gambianus  
Epomophorus\_grandis  
Epomophorus\_labiatus  
Epomophorus\_minimus  
Epomophorus\_wahlbergi  
Epomops\_buettikoferi  
Epomops\_dobsoni  
Epomops\_franqueti  
Eptesicus\_baverstocki  
Eptesicus\_bobrinskoi  
Eptesicus\_bottae  
Eptesicus\_brasiliensis  
Eptesicus\_brunneus  
Eptesicus\_capensis  
Eptesicus\_demissus  
Eptesicus\_diminutus  
Eptesicus\_douglasorum  
Eptesicus\_flavescens  
Eptesicus\_floweri  
Eptesicus\_furinalis

Eptesicus\_fuscus  
Eptesicus\_guadeloupensis  
Eptesicus\_guineensis  
Eptesicus\_hottentotus  
Eptesicus\_innoxius  
Eptesicus\_kobayashii  
Eptesicus\_melckorum  
Eptesicus\_nasutus  
Eptesicus\_nilssoni  
Eptesicus\_pachyotis  
Eptesicus\_platyops  
Eptesicus\_pumilus  
Eptesicus\_regulus  
Eptesicus\_rendalli  
Eptesicus\_sagittula  
Eptesicus\_serotinus  
Eptesicus\_somalicus  
Eptesicus\_tatei  
Eptesicus\_tenuipinnis  
Eptesicus\_vulturnus  
Equus\_asinus  
Equus\_burchellii  
Equus\_caballus  
Equus\_grevyi  
Equus\_hemionus  
Equus\_kiang  
Equus\_onager  
Equus\_zebra  
Eremodipus\_lichtensteinii  
Erethizon\_dorsatum  
Erignathus\_barbatus  
Erinaceus\_amurensis  
Erinaceus\_concolor  
Erinaceus\_europaeus  
Eropeplus\_canus  
Erophylla\_sezekorni  
Erythrocebus\_patas  
Eschrichtius\_robustus  
Eubalaena\_australis  
Eubalaena\_glacialis  
Euchoreutes\_naso  
Eudermana\_maculatum  
Eudiscopus\_denticulus  
Eulemur\_coronatus  
Eulemur\_fulvus  
Eulemur\_macaco  
Eulemur\_mongoz  
Eulemur\_rubriventer  
Eumetopias\_jubatus  
Eumops\_auripendulus  
Eumops\_bonariensis  
Eumops\_dabbenei  
Eumops\_glaucinus  
Eumops\_hansae  
Eumops\_maurus  
Eumops\_perotis  
Eumops\_underwoodi  
Euneomys\_chinchilloides  
Euneomys\_fosser  
Euneomys\_mordax

Euneomys\_petersoni  
Euoticus\_elegantulus  
Euoticus\_pallidus  
Eupetaurus\_cinereus  
Euphractus\_sexcinctus  
Eupleres\_goudotii  
Euroscaptor\_grandis  
Euroscaptor\_klossi  
Euroscaptor\_longirostris  
Euroscaptor\_micrura  
Euroscaptor\_mizura  
Euroscaptor\_parvidens  
Euryzygomatomys\_spinosus  
Exilisciurus\_concinnus  
Exilisciurus\_exilis  
Exilisciurus\_whiteheadi  
Felis\_bieti  
Felis\_chaus  
Felis\_margarita  
Felis\_nigripes  
Felis\_silvestris  
Felovia\_vae  
Feresa\_attenuata  
Feroculus\_feroculus  
Fossa\_fossana  
Funambulus\_layardi  
Funambulus\_palmarum  
Funambulus\_pennantii  
Funambulus\_sublineatus  
Funambulus\_tristriatus  
Funisciurus\_anerythrus  
Funisciurus\_bayonii  
Funisciurus\_carruthersi  
Funisciurus\_congicus  
Funisciurus\_isabella  
Funisciurus\_lemniscatus  
Funisciurus\_leucogenys  
Funisciurus\_pyrropus  
Funisciurus\_substriatus  
Furipterus\_horrens  
Galago\_alleni  
Galago\_gallarum  
Galago\_matschiei  
Galago\_moholi  
Galago\_senegalensis  
Galago\_desdemoidoff  
Galago\_zanzibaricus  
Galea\_flavidens  
Galea.musteloides  
Galea\_spixii  
Galemys\_pyrenaicus  
Galenomys\_garleppi  
Galerella\_flavescens  
Galerella\_pulverulenta  
Galerella\_sanguinea  
Galerella\_swalius  
Galictis\_cuja  
Galictis\_vittata  
Galidia\_elegans  
Galidictis\_fasciata

*Galidictis\_grandidieri*  
*Gazella\_bennettii*  
*Gazella\_cuvieri*  
*Gazella\_dama*  
*Gazella\_dorcas*  
*Gazella\_gazella*  
*Gazella\_granti*  
*Gazella\_leptoceros*  
*Gazella\_rufifrons*  
*Gazella\_saudiya*  
*Gazella\_soemmerringii*  
*Gazella\_spekei*  
*Gazella\_subgutturosa*  
*Gazella\_thomsonii*  
*Genetta\_abyssinica*  
*Genetta\_angolensis*  
*Genetta\_genetta*  
*Genetta\_johnstoni*  
*Genetta\_maculata*  
*Genetta\_servalina*  
*Genetta\_thierryi*  
*Genetta\_tigrina*  
*Genetta\_victoriae*  
*Geocapromys\_brownii*  
*Geocapromys\_ingrahami*  
*Geogale\_aurita*  
*Geomys\_arenarius*  
*Geomys\_bursarius*  
*Geomys\_personatus*  
*Geomys\_pinetis*  
*Geomys\_tropicalis*  
*Georychus\_capensis*  
*Geoxus\_valdivianus*  
*Gerbillurus\_paeba*  
*Gerbillurus\_setzeri*  
*Gerbillurus\_tytonis*  
*Gerbillurus\_vallinus*  
*Gerbillus\_acticola*  
*Gerbillus\_agag*  
*Gerbillus\_allenbyi*  
*Gerbillus\_amoenus*  
*Gerbillus\_andersoni*  
*Gerbillus\_aquilus*  
*Gerbillus\_bilensis*  
*Gerbillus\_bonhotei*  
*Gerbillus\_bottai*  
*Gerbillus\_brockmani*  
*Gerbillus\_burtoni*  
*Gerbillus\_campestris*  
*Gerbillus\_cheesmani*  
*Gerbillus\_cosensi*  
*Gerbillus\_dalloni*  
*Gerbillus\_dasyurus*  
*Gerbillus\_diminutus*  
*Gerbillus\_dongolanus*  
*Gerbillus\_dunni*  
*Gerbillus\_famulus*  
*Gerbillus\_floweri*  
*Gerbillus\_garamantis*  
*Gerbillus\_gerbillus*

*Gerbillus\_gleadowi*  
*Gerbillus\_grobbeni*  
*Gerbillus\_harwoodi*  
*Gerbillus\_henleyi*  
*Gerbillus\_hesperinus*  
*Gerbillus\_hoogstraali*  
*Gerbillus\_jamesi*  
*Gerbillus\_juliani*  
*Gerbillus\_latastei*  
*Gerbillus\_lowei*  
*Gerbillus\_mackillingini*  
*Gerbillus\_magharebi*  
*Gerbillus\_mauritaniae*  
*Gerbillus\_mesopotamiae*  
*Gerbillus\_muriculus*  
*Gerbillus\_nancillus*  
*Gerbillus\_nanus*  
*Gerbillus\_nigeriae*  
*Gerbillus\_occiduus*  
*Gerbillus\_percivali*  
*Gerbillus\_perpallidus*  
*Gerbillus\_poecilops*  
*Gerbillus\_principulus*  
*Gerbillus\_pulvinatus*  
*Gerbillus\_pusillus*  
*Gerbillus\_pyramidum*  
*Gerbillus\_quadrimaculatus*  
*Gerbillus\_riggenbachi*  
*Gerbillus\_rosalinda*  
*Gerbillus\_ruberrimus*  
*Gerbillus\_simoni*  
*Gerbillus\_somalicus*  
*Gerbillus\_stigmonyx*  
*Gerbillus\_syrticus*  
*Gerbillus\_tarabuli*  
*Gerbillus\_vivax*  
*Gerbillus\_watersi*  
*Giraffa\_camelopardalis*  
*Glaucomys\_sabrinus*  
*Glaucomys\_volans*  
*Glironia\_venusta*  
*Glirulus\_japonicus*  
*Glischropus\_javanus*  
*Glischropus\_tylopus*  
*Globicephala\_macrorhynchus*  
*Globicephala\_melas*  
*Glossophaga\_commissarisi*  
*Glossophaga\_leachii*  
*Glossophaga\_longirostris*  
*Glossophaga\_morenoi*  
*Glossophaga\_soricina*  
*Glyphotes\_simus*  
*Golunda\_ellioti*  
*Gorilla\_gorilla*  
*Gracilinanus\_aceramarcae*  
*Gracilinanus\_agilis*  
*Gracilinanus\_dryas*  
*Gracilinanus\_emiliae*  
*Gracilinanus\_marica*  
*Gracilinanus\_microtarsus*

Grammomys\_aridulus  
Grammomys\_buntingi  
Grammomys\_caniceps  
Grammomys\_cometes  
Grammomys\_dolichurus  
Grammomys\_dryas  
Grammomys\_gigas  
Grammomys\_ibeanus  
Grammomys\_macmillani  
Grammomys\_minnae  
Grammomys\_rutilans  
Grampus\_griseus  
Graomys\_domorum  
Graomys\_edithae  
Graomys\_griseoflavus  
Graphiurus\_christyi  
Graphiurus\_crassicaudatus  
Graphiurus\_hueti  
Graphiurus\_kelleni  
Graphiurus\_lorraineus  
Graphiurus\_microtis  
Graphiurus\_monardi  
Graphiurus\_murinus  
Graphiurus\_ocularis  
Graphiurus\_olga  
Graphiurus\_parvus  
Graphiurus\_platyops  
Graphiurus\_rupicola  
Graphiurus\_surdus  
Gulo\_gulo  
Gymnobelideus\_leadbeateri  
Gymnuromys\_roberti  
Habromys\_chinanteco  
Habromys\_lepturus  
Habromys\_lophurus  
Habromys\_simulatus  
Hadromys\_humei  
Haeromys\_margarettae  
Haeromys\_minahassae  
Haeromys\_pusillus  
Halichoerus\_grypus  
Hapalemur\_aureus  
Hapalemur\_griseus  
Hapalemur\_simus  
Hapalomys\_delacouri  
Hapalomys\_longicaudatus  
Haplonycteris\_fischeri  
Harpiocephalus\_harpia  
Harpionycteris\_celebensis  
Harpionycteris\_whiteheadi  
Heimyscus\_fumosus  
Helarctos\_malayanus  
Heliophobius\_argenteocinereus  
Heliosciurus\_gambianus  
Heliosciurus\_mutabilis  
Heliosciurus\_punctatus  
Heliosciurus\_rufobrachium  
Heliosciurus\_rwenzorii  
Heliosciurus\_undulatus  
Helogale\_hirtula

*Helogale\_parvula*  
*Hemibelideus\_lemuroides*  
*Hemicentetes\_semispinosus*  
*Hemiechinus\_aethiopicus*  
*Hemiechinus\_auritus*  
*Hemiechinus\_collaris*  
*Hemiechinus\_hypomelas*  
*Hemiechinus\_micropus*  
*Hemigalus\_derbyanus*  
*Hemitragus\_hylocrius*  
*Hemitragus\_jayakari*  
*Hemitragus\_jemlahicus*  
*Herpailurus\_yaguarondi*  
*Herpestes\_brachyurus*  
*Herpestes\_edwardsii*  
*Herpestes\_ichneumon*  
*Herpestes\_javanicus*  
*Herpestes\_naso*  
*Herpestes\_palustris*  
*Herpestes\_semitorquatus*  
*Herpestes\_smithii*  
*Herpestes\_urva*  
*Herpestes\_vitticollis*  
*Hesperoptenus\_blanfordi*  
*Hesperoptenus\_doriae*  
*Hesperoptenus\_gaskellii*  
*Hesperoptenus\_tickelli*  
*Hesperoptenus\_tomesi*  
*Heterocephalus\_glaber*  
*Heterohyrax\_antineae*  
*Heterohyrax\_brucei*  
*Heteromys\_anomalus*  
*Heteromys\_australis*  
*Heteromys\_desmarestianus*  
*Heteromys\_gaumeri*  
*Heteromys\_goldmani*  
*Heteromys\_nelsoni*  
*Heteromys\_oresterus*  
*Hexaprotodon\_liberiensis*  
*Hippocamelus\_antensis*  
*Hippocamelus\_bisulcus*  
*Hippopotamus\_amphibius*  
*Hipposideros\_abae*  
*Hipposideros\_armiger*  
*Hipposideros\_ater*  
*Hipposideros\_beatus*  
*Hipposideros\_bicolor*  
*Hipposideros\_breviceps*  
*Hipposideros\_caffer*  
*Hipposideros\_calcaratus*  
*Hipposideros\_camerunensis*  
*Hipposideros\_cervinus*  
*Hipposideros\_cineraceus*  
*Hipposideros\_commersoni*  
*Hipposideros\_coronatus*  
*Hipposideros\_corynophyllus*  
*Hipposideros\_coxi*  
*Hipposideros\_crumeniferus*  
*Hipposideros\_curtus*  
*Hipposideros\_cyclops*

Hipposideros\_diadema  
Hipposideros\_dinops  
Hipposideros\_doriae  
Hipposideros\_dyacorum  
Hipposideros\_fuliginosus  
Hipposideros\_fulvus  
Hipposideros\_galeritus  
Hipposideros\_halophyllus  
Hipposideros\_inexpectatus  
Hipposideros\_jonesi  
Hipposideros\_lamottei  
Hipposideros\_lankadiva  
Hipposideros\_larvatus  
Hipposideros\_lekaguli  
Hipposideros\_lylei  
Hipposideros\_macrobullatus  
Hipposideros\_maggietaaylorae  
Hipposideros\_marisae  
Hipposideros\_megalotis  
Hipposideros\_muscinus  
Hipposideros\_nequam  
Hipposideros\_obscurus  
Hipposideros\_papua  
Hipposideros\_pomona  
Hipposideros\_pratti  
Hipposideros\_pygmaeus  
Hipposideros\_ridleyi  
Hipposideros\_ruber  
Hipposideros\_sabanus  
Hipposideros\_schistaceus  
Hipposideros\_semoni  
Hipposideros\_speoris  
Hipposideros\_stenotis  
Hipposideros\_turpis  
Hipposideros\_wollastoni  
Hippotragus\_equinus  
Hippotragus\_niger  
Histiotus\_alienus  
Histiotus\_macrotus  
Histiotus\_montanus  
Histiotus\_velatus  
Hodomys\_alleni  
Holochilus\_brasiliensis  
Holochilus\_chacarius  
Holochilus\_magnus  
Holochilus\_sciureus  
Homo\_sapiens  
Hoplomys\_gymnurus  
Hyaena\_hyaena  
Hybomys\_basilii  
Hybomys\_eisentrauti  
Hybomys\_lunaris  
Hybomys\_planifrons  
Hybomys\_trivirgatus  
Hybomys\_univittatus  
Hydrochaeris\_hydrochaeris  
Hydromys\_chrysogaster  
Hydromys\_habbema  
Hydromys\_hussoni  
Hydromys\_neobrittanicus

Hydromys\_shawmayeri  
Hydropotes\_inermis  
Hydrurga\_leptonyx  
Hyemoschus\_aquaticus  
Hylobates\_agilis  
Hylobates\_concolor  
Hylobates\_gabriellae  
Hylobates\_hoolock  
Hylobates\_klossii  
Hylobates\_lar  
Hylobates\_leucogenys  
Hylobates\_moloch  
Hylobates\_muelleri  
Hylobates\_pileatus  
Hylobates\_syndactylus  
Hylochoerus\_meinertzhageni  
Hylomys\_hainanensis  
Hylomys\_sinensis  
Hylomys\_suillus  
Hylomyscus\_aeta  
Hylomyscus\_alleni  
Hylomyscus\_baeri  
Hylomyscus\_carillus  
Hylomyscus\_denniae  
Hylomyscus\_parvus  
Hylomyscus\_stella  
Hylonycteris\_underwoodi  
Hylopites\_alboniger  
Hylopites\_baberi  
Hylopites\_bartelsi  
Hylopites\_fimbriatus  
Hylopites\_lepidus  
Hylopites\_nigripes  
Hylopites\_phayrei  
Hylopites\_sipora  
Hylopites\_spadiceus  
Hylopites\_winstoni  
Hyomys\_dammermani  
Hyomys\_goliath  
Hyosciurus\_heinrichi  
Hyosciurus\_ileile  
Hyperacrius\_fertilis  
Hyperacrius\_wynnei  
Hyperoodon\_ampullatus  
Hyperoodon\_planifrons  
Hypogeomys\_antimena  
Hypsianthus\_monstrosus  
Hypsiprymnodon\_moschatus  
Hystrix\_africaeaustralis  
Hystrix\_brachyura  
Hystrix\_crassispinis  
Hystrix\_cristata  
Hystrix\_indica  
Hystrix\_javanica  
Hystrix\_pumila  
Hystrix\_sumatrae  
Ia\_io  
Ichneumia\_albicauda  
Ichthyomys\_hydrobates  
Ichthyomys\_pittieri

Ichthyomys\_stolzmanni  
Ichthyomys\_tweedii  
Ictonyx\_libyca  
Ictonyx\_striatus  
Idionycteris\_phyllotis  
Idiurus\_macrotis  
Idiurus\_zenkeri  
Indopacetus\_pacificus  
Indri\_indri  
Inia\_geoffrensis  
Iomys\_horsfieldii  
Iomys\_sipora  
Irenomys\_tarsalis  
Isolobodon\_portoricensis  
Isoodon\_auratus  
Isoodon\_macrourus  
Isoodon\_obesulus  
Isothrix\_bistriata  
Isothrix\_pagurus  
Isthmomys\_flavidus  
Isthmomys\_pirrensis  
Jaculus\_blanfordi  
Jaculus\_jaculus  
Jaculus\_orientalis  
Jaculus\_turcmenicus  
Juscelinomys\_candango  
Juscelinomys\_talpinus  
Kadarsanomys\_sodyi  
Kannabateomys\_amblonyx  
Kerivoula\_aerosa  
Kerivoula\_agnella  
Kerivoula\_argentata  
Kerivoula\_atrox  
Kerivoula\_cuprosa  
Kerivoula\_eriophora  
Kerivoula\_flora  
Kerivoula\_hardwickei  
Kerivoula\_intermedia  
Kerivoula\_jagorii  
Kerivoula\_lanosa  
Kerivoula\_minuta  
Kerivoula\_muscina  
Kerivoula\_myrella  
Kerivoula\_papillosa  
Kerivoula\_papuensis  
Kerivoula\_pellucida  
Kerivoula\_phalaena  
Kerivoula\_picta  
Kerivoula\_smithii  
Kerivoula\_whiteheadi  
Kerodon\_rupestris  
Kobus\_ellipsiprymnus  
Kobus\_kob  
Kobus\_leche  
Kobus\_megaceros  
Kobus\_vardonii  
Kogia\_breviceps  
Kogia\_simus  
Komodomys\_rintjanus  
Kunsia\_fronto

Kunsia\_tomentosus  
Laephotis\_angolensis  
Laephotis\_botswanae  
Laephotis\_namibensis  
Laephotis\_wintoni  
Lagenodelphis\_hosei  
Lagenorhynchus\_acutus  
Lagenorhynchus\_albirostris  
Lagenorhynchus\_australis  
Lagenorhynchus\_cruciger  
Lagenorhynchus\_obliquidens  
Lagenorhynchus\_obscurus  
Lagidium\_peruanum  
Lagidium\_visccacia  
Lagidium\_wolffsohni  
Lagorchestes\_conspicillatus  
Lagorchestes\_hirsutus  
Lagostomus\_maximus  
Lagostrophus\_fasciatus  
Lagothrix\_flavicauda  
Lagothrix\_lagotricha  
Lagurus\_lagurus  
Lama\_glama  
Lama\_guanicoe  
Lama\_pacos  
Lamottemys\_okuensis  
Lariscus\_hosei  
Lariscus\_insignis  
Lariscus\_niobe  
Lariscus\_obscurus  
Lasionycteris\_noctivagans  
Lasiopodomys\_brandtii  
Lasiopodomys\_fuscus  
Lasiopodomys\_mandarinus  
Lasiorhinus\_krefftii  
Lasiorhinus\_latifrons  
Lasiurus\_borealis  
Lasiurus\_castaneus  
Lasiurus\_cinereus  
Lasiurus\_egaea  
Lasiurus\_egregius  
Lasiurus\_intermedius  
Lasiurus\_seminolus  
Latidens\_salimalii  
Lavia\_frons  
Leggadina\_forresti  
Leggadina\_lakedownensis  
Leimacomys\_buettneri  
Lemmiscus\_curtatus  
Lemmus\_amurensis  
Lemmus\_lemmus  
Lemmus\_sibiricus  
Lemniscomys\_barbarus  
Lemniscomys\_bellieri  
Lemniscomys\_griselda  
Lemniscomys\_hoogstraali  
Lemniscomys\_linulus  
Lemniscomys\_macculus  
Lemniscomys\_mittendorfi  
Lemniscomys\_rosalia

Lemniscomys\_roseveari  
Lemniscomys\_striatus  
Lemur\_catta  
Lenomys\_meyeri  
Lenothrix\_canus  
Lenoxus\_apicalis  
Leontopithecus\_caissara  
Leontopithecus\_chrysomelas  
Leontopithecus\_chrysopygus  
Leontopithecus\_rosalia  
Leopardus\_pardalis  
Leopardus\_tigrinus  
Leopardus\_wiedii  
Leopoldamys\_edwardsi  
Leopoldamys\_neilli  
Leopoldamys\_sabanus  
Leopoldamys\_siporanus  
Lepilemur\_dorsalis  
Lepilemur\_edwardsi  
Lepilemur\_leucopus  
Lepilemur\_microdon  
Lepilemur\_mustelinus  
Lepilemur\_ruficaudatus  
Lepilemur\_septentrionalis  
Leporillus\_conditor  
Leptailurus\_serval  
Leptomys\_elegans  
Leptomys\_ernstmayri  
Leptomys\_signatus  
Leptonychotes\_weddellii  
Leptonycteris\_curasoae  
Leptonycteris\_nivalis  
Lepus\_alleni  
Lepus\_americanus  
Lepus\_arcticus  
Lepus\_bachyrus  
Lepus\_californicus  
Lepus\_callotis  
Lepus\_capensis  
Lepus\_castroviejoi  
Lepus\_comus  
Lepus\_coreanus  
Lepus\_corsicanus  
Lepus\_europaeus  
Lepus\_fagani  
Lepus\_flavigularis  
Lepus\_granatensis  
Lepus\_hainanus  
Lepus\_insularis  
Lepus\_mandshuricus  
Lepus\_nigricollis  
Lepus\_oostolus  
Lepus\_othus  
Lepus\_peguensis  
Lepus\_saxatilis  
Lepus\_sinensis  
Lepus\_starcki  
Lepus\_timidus  
Lepus\_tolai  
Lepus\_townsendii

Lepus\_victoriae  
Lepus\_yarkandensis  
Lestodelphys\_halli  
Lestoros\_inca  
Liberiictis\_kuhni  
Lichonycteris\_obscura  
Limnogale\_mergulus  
Limnomys\_sibuanus  
Liomys\_adspersus  
Liomys\_irroratus  
Liomys\_pictus  
Liomys\_salvini  
Liomys\_spectabilis  
Lionycteris\_spurrelli  
Lipotes\_vexillifer  
Lissodelphis\_borealis  
Lissodelphis\_peronii  
Litocranius\_walleri  
Lobodon\_carcinophagus  
Lonchophylla\_bokermanni  
Lonchophylla\_dekeyseri  
Lonchophylla\_handleyi  
Lonchophylla\_hesperia  
Lonchophylla\_mordax  
Lonchophylla\_robusta  
Lonchophylla\_thomasi  
Lonchorhina\_aurita  
Lonchorhina\_fernandezii  
Lonchorhina\_marinkellei  
Lonchorhina\_orinocensis  
Lonchothrix\_emiliae  
Lontra\_canadensis  
Lontra\_felina  
Lontra\_longicaudis  
Lontra\_provacax  
Lophiomys\_imhausi  
Lophocebus\_albigena  
Lophuromys\_cinereus  
Lophuromys\_flavopunctatus  
Lophuromys\_luteogaster  
Lophuromys\_medicaudatus  
Lophuromys\_melanonyx  
Lophuromys\_nudicaudus  
Lophuromys Rahmi  
Lophuromys\_sikapusi  
Lophuromys\_woosnami  
Lorentzimys\_nouhuysi  
Loris\_tardigradus  
Loxodonta\_africana  
Lutra\_lutra  
Lutra\_maculicollis  
Lutra\_sumatrana  
Lutreolina\_crassicaudata  
Lutrogale\_perspicillata  
Lycaon\_pictus  
Lyncodon\_patagonicus  
Lynx\_canadensis  
Lynx\_lynx  
Lynx\_pardinus  
Lynx\_rufus

Macaca\_arctoides  
Macaca\_assamensis  
Macaca\_cyclopis  
Macaca\_fascicularis  
Macaca\_fuscata  
Macaca\_maura  
Macaca\_mulatta  
Macaca\_nemestrina  
Macaca\_nigra  
Macaca\_ochreata  
Macaca\_radiata  
Macaca\_silenus  
Macaca\_sinica  
Macaca\_sylvanus  
Macaca\_thibetana  
Macaca\_tonkeana  
Macroderma\_gigas  
Macrogalidia\_musschenbroekii  
Macroglossus\_minimus  
Macroglossus\_sobrinus  
Macrophyllum\_macrophyllum  
Macropus\_agilis  
Macropus\_antilopinus  
Macropus\_bernardus  
Macropus\_dorsalis  
Macropus\_eugenii  
Macropus\_fuliginosus  
Macropus\_giganteus  
Macropus\_irma  
Macropus\_parma  
Macropus\_parryi  
Macropus\_robustus  
Macropus\_rufogriseus  
Macropus\_rufus  
Macroscelides\_proboscideus  
Macrotarsomys\_bastardi  
Macrotarsomys\_ingens  
Macrotis\_lagotis  
Macrotus\_californicus  
Macrotus\_waterhousii  
Macruromys\_elegans  
Macruromys\_major  
Madoqua\_guentheri  
Madoqua\_kirkii  
Madoqua\_piacentinii  
Madoqua\_saltiana  
Makalata\_armata  
Malacomys\_cansdalei  
Malacomys\_edwardsi  
Malacomys\_longipes  
Malacomys\_lukoleliae  
Malacomys-verschureni  
Malacothrix\_typica  
Mallomys\_araoensis  
Mallomys\_gunung  
Mallomys\_istapantap  
Mallomys\_rothschildi  
Mandrillus\_leucophaeus  
Mandrillus\_sphinx  
Manis\_crassicaudata

*Manis\_gigantea*  
*Manis\_javanica*  
*Manis\_pentadactyla*  
*Manis\_temminckii*  
*Manis\_tetradactyla*  
*Manis\_tricuspis*  
*Margaretamys\_beccarii*  
*Margaretamys\_elegans*  
*Margaretamys\_parvus*  
*Marmosa\_andersoni*  
*Marmosa\_canescens*  
*Marmosa\_lepida*  
*Marmosa\_mexicana*  
*Marmosa\_murina*  
*Marmosa\_robinsoni*  
*Marmosa\_rubra*  
*Marmosa\_tyleriana*  
*Marmosa\_xerophila*  
*Marmosops\_cracens*  
*Marmosops\_dorothea*  
*Marmosops\_fuscatus*  
*Marmosops\_handleyi*  
*Marmosops\_impavidus*  
*Marmosops\_incanus*  
*Marmosops\_invictus*  
*Marmosops\_noctivagus*  
*Marmosops\_parvidens*  
*Marmota\_baibacina*  
*Marmota\_bobak*  
*Marmota\_broweri*  
*Marmota\_caligata*  
*Marmota\_camschatica*  
*Marmota\_caudata*  
*Marmota\_flaviventris*  
*Marmota\_himalayana*  
*Marmota\_marmota*  
*Marmota\_menzbieri*  
*Marmota\_monax*  
*Marmota\_olympus*  
*Marmota\_sibirica*  
*Marmota\_vancouverensis*  
*Martes\_americana*  
*Martes\_flavigula*  
*Martes\_foina*  
*Martes\_gwatkinsii*  
*Martes\_martes*  
*Martes\_melampus*  
*Martes\_pennanti*  
*Martes\_zibellina*  
*Massoutiera\_mzabi*  
*Mastomys\_angolensis*  
*Mastomys\_coucha*  
*Mastomys\_erythroleucus*  
*Mastomys\_hildebrandtii*  
*Mastomys\_natalensis*  
*Mastomys\_peranus*  
*Mastomys\_shortridgei*  
*Mastomys\_verheyeni*  
*Maxomys\_alticola*  
*Maxomys\_baeodon*

Maxomys\_bartelsii  
Maxomys\_dollmani  
Maxomys\_hellwaldii  
Maxomys\_hylomyoides  
Maxomys\_inas  
Maxomys\_inflatus  
Maxomys\_moi  
Maxomys\_musschenbroekii  
Maxomys\_ochraceiventer  
Maxomys\_pagensis  
Maxomys\_panglima  
Maxomys\_rajah  
Maxomys\_surifer  
Maxomys\_wattsi  
Maxomys\_whiteheadi  
Mayermys\_ellermani  
Mazama\_americana  
Mazama\_bricenii  
Mazama\_chunyi  
Mazama\_gouazoupira  
Mazama\_nana  
Mazama\_rufina  
Megadendromus\_nikolausi  
Megaderma\_lyra  
Megaderma\_spasma  
Megadontomys\_cryophilus  
Megadontomys\_nelsoni  
Megadontomys\_thomasi  
Megaerops\_ecaudatus  
Megaerops\_kusnotoi  
Megaerops\_niphanae  
Megaerops\_wetmorei  
Megaloglossus\_woermannii  
Megaptera\_novaeangliae  
Megasorex\_gigas  
Melanomys\_caliginosus  
Melanomys\_robustulus  
Melanomys\_zunigae  
Melasmotherrix\_naso  
Meles\_meles  
Mellivora\_capensis  
Melogale\_everetti  
Melogale\_moschata  
Melogale\_orientalis  
Melogale\_personata  
Melomys\_aerosus  
Melomys\_bougainville  
Melomys\_burtoni  
Melomys\_capensis  
Melomys\_cervinipes  
Melomys\_fellowsi  
Melomys\_fraterculus  
Melomys\_gracilis  
Melomys\_lanosus  
Melomys\_leucogaster  
Melomys\_levipes  
Melomys\_lorentzii  
Melomys\_mollis  
Melomys\_moncktoni  
Melomys\_obiensis

Melomys\_platyops  
Melomys\_rattoides  
Melomys\_rubex  
Melomys\_rubicola  
Melomys\_rufescens  
Melomys\_spechti  
Melonycteris\_aurantius  
Melonycteris\_melanops  
Melonycteris\_woodfordi  
Melursus\_ursinus  
Menetes\_berdmorei  
Mephitis\_macroura  
Mephitis\_mephitis  
Meriones\_arimalius  
Meriones\_chengi  
Meriones\_crassus  
Meriones\_dahli  
Meriones\_hurrianae  
Meriones\_libycus  
Meriones\_meridianus  
Meriones\_persicus  
Meriones\_rex  
Meriones\_sacramenti  
Meriones\_shawi  
Meriones\_tamariscinus  
Meriones\_tristrami  
Meriones\_unguiculatus  
Meriones\_vinogradovi  
Meriones\_zarudnyi  
Mesechinus\_dauuricus  
Mesechinus\_hughi  
Mesembriomys\_gouldii  
Mesembriomys\_macrurus  
Mesocapromys\_angelcabrerai  
Mesocapromys\_auritus  
Mesocapromys\_nanus  
Mesocapromys\_sanfelipensis  
Mesocricetus\_auratus  
Mesocricetus\_brandti  
Mesocricetus\_newtoni  
Mesocricetus\_raddei  
Mesomys\_didelphoides  
Mesomys\_hispidus  
Mesomys\_leniceps  
Mesomys\_obscurus  
Mesomys\_stimulax  
Mesophylla\_macconnelli  
Mesoplodon\_bidens  
Mesoplodon\_bowdoini  
Mesoplodon\_carlhubbsi  
Mesoplodon\_densirostris  
Mesoplodon\_europaeus  
Mesoplodon\_ginkgodens  
Mesoplodon\_grayi  
Mesoplodon\_hectori  
Mesoplodon\_layardii  
Mesoplodon\_mirus  
Mesoplodon\_peruvianus  
Mesoplodon\_stejnegeri  
Metachirus\_nudicaudatus

Micoureus\_alstoni  
Micoureus\_constantiae  
Micoureus\_demerarae  
Micoureus\_regina  
Microcavia\_australis  
Microcavia\_niata  
Microcavia\_shiptoni  
Microcebus\_coquereli  
Microcebus\_murinus  
Microcebus\_rufus  
Microdillus\_peeli  
Microdipodops\_megacephalus  
Microdipodops\_pallidus  
Microgale\_brevicaudata  
Microgale\_cowani  
Microgale\_dobsoni  
Microgale\_dryas  
Microgale\_gracilis  
Microgale\_longicaudata  
Microgale\_parvula  
Microgale\_principula  
Microgale\_pulla  
Microgale\_pusilla  
Microgale\_talazaci  
Microgale\_thomasi  
Microhydromys\_musseri  
Microhydromys\_richardsoni  
Micromys\_minutus  
Micronycteris\_behnii  
Micronycteris\_brachyotis  
Micronycteris\_daviesi  
Micronycteris\_hirsuta  
Micronycteris\_megalotis  
Micronycteris\_minuta  
Micronycteris\_nicefori  
Micronycteris\_pusilla  
Micronycteris\_schmidtorum  
Micronycteris\_sylvestris  
Microperoryctes\_longicauda  
Microperoryctes\_murina  
Microperoryctes\_papuensis  
Micropotamogale\_lamottei  
Micropotamogale\_ruwenzorii  
Micropteropus\_intermedius  
Micropteropus\_pusillus  
Microryzomys\_altissimus  
Microryzomys\_minutus  
Microsciurus\_alfari  
Microsciurus\_flaviventer  
Microsciurus\_mimulus  
Microsciurus\_santanderensis  
Microtus\_abbreviatus  
Microtus\_agrestis  
Microtus\_arvalis  
Microtus\_bavaricus  
Microtus\_breweri  
Microtus\_cabrerae  
Microtus\_californicus  
Microtus\_canicaudus  
Microtus\_chrotorrhinus

*Microtus\_daghestanicus*  
*Microtus\_duodecimcostatus*  
*Microtus\_evoronensis*  
*Microtus\_felteni*  
*Microtus\_fortis*  
*Microtus\_gerbei*  
*Microtus\_gregalis*  
*Microtus\_guatemalensis*  
*Microtus\_guentheri*  
*Microtus\_hyperboreus*  
*Microtus\_irani*  
*Microtus\_irene*  
*Microtus\_juldaschi*  
*Microtus\_kermanensis*  
*Microtus\_kirgisorum*  
*Microtus\_leucurus*  
*Microtus\_limnophilus*  
*Microtus\_longicaudus*  
*Microtus\_lusitanicus*  
*Microtus\_majori*  
*Microtus\_maximowiczii*  
*Microtus\_mexicanus*  
*Microtus\_middendorffi*  
*Microtus\_miurus*  
*Microtus\_mongolicus*  
*Microtus\_montanus*  
*Microtus\_montebelli*  
*Microtus\_mujanensis*  
*Microtus\_multiplex*  
*Microtus\_nasarovi*  
*Microtus\_oaxacensis*  
*Microtus\_obscurus*  
*Microtus\_ochrogaster*  
*Microtus\_oconomus*  
*Microtus\_oregoni*  
*Microtus\_pennsylvanicus*  
*Microtus\_pinetorum*  
*Microtus\_quasiater*  
*Microtus\_richardsoni*  
*Microtus\_rossiaeemeridionalis*  
*Microtus\_sachalinensis*  
*Microtus\_savii*  
*Microtus\_schelkovnikovi*  
*Microtus\_sikimensis*  
*Microtus\_socialis*  
*Microtus\_subterraneus*  
*Microtus\_tatricus*  
*Microtus\_thomasi*  
*Microtus\_townsendii*  
*Microtus\_transcaspicus*  
*Microtus\_umbrosus*  
*Microtus\_xanthognathus*  
*Millardia\_gleadowi*  
*Millardia\_kathleenae*  
*Millardia\_kondana*  
*Millardia\_meltada*  
*Mimetillus\_moloneyi*  
*Mimon\_bennettii*  
*Mimon\_crenulatum*  
*Miniopterus\_australis*  
*Miniopterus\_fraterculus*

*Miniopterus\_fuscus*  
*Miniopterus\_inflatus*  
*Miniopterus\_magnater*  
*Miniopterus\_minor*  
*Miniopterus\_pusillus*  
*Miniopterus\_robustior*  
*Miniopterus\_schreibersi*  
*Miniopterus\_tristis*  
*Miopithecus\_talapoin*  
*Mirounga\_angustirostris*  
*Mirounga\_leonina*  
*Mogera\_etigo*  
*Mogera\_insularis*  
*Mogera\_kobae*  
*Mogera\_minor*  
*Mogera\_robusta*  
*Mogera\_tokudae*  
*Mogera\_wogura*  
*Molossops\_abrasus*  
*Molossops\_aequatorianus*  
*Molossops\_greenhalli*  
*Molossops\_mattogrossensis*  
*Molossops\_neglectus*  
*Molossops\_planirostris*  
*Molossops\_temminckii*  
*Molossus\_aterrimus*  
*Molossus\_bondae*  
*Molossus\_molossus*  
*Molossus\_pretiosus*  
*Molossus\_sinaloae*  
*Monachus\_monachus*  
*Monachus\_schauinslandi*  
*Monodelphis\_adusta*  
*Monodelphis\_americana*  
*Monodelphis\_brevicaudata*  
*Monodelphis\_dimidiata*  
*Monodelphis\_domestica*  
*Monodelphis\_emiliae*  
*Monodelphis\_iheringi*  
*Monodelphis\_kunsi*  
*Monodelphis\_maraxina*  
*Monodelphis osgoodi*  
*Monodelphis\_rubida*  
*Monodelphis\_scalops*  
*Monodelphis\_sorex*  
*Monodelphis\_theresa*  
*Monodelphis\_unistriata*  
*Monodon monoceros*  
*Monophyllus\_plethodon*  
*Monophyllus\_redmani*  
*Mops\_brachypterus*  
*Mops\_condylurus*  
*Mops\_congicus*  
*Mops\_demonstrator*  
*Mops\_midas*  
*Mops\_mops*  
*Mops\_nanulus*  
*Mops\_niangarae*  
*Mops\_niveiventer*  
*Mops\_petersoni*

Mops\_sarasinorum  
Mops\_spurrelli  
Mops\_thersites  
Mops\_trevori  
Mormoops\_blainvillii  
Mormoops\_megalophylla  
Mormopterus\_acetabulosus  
Mormopterus\_beccarii  
Mormopterus\_doriae  
Mormopterus\_jugularis  
Mormopterus\_kalinowskii  
Mormopterus\_minutus  
Mormopterus\_norfolkensis  
Mormopterus\_petrophilus  
Mormopterus\_phrudus  
Mormopterus\_planiceps  
Mormopterus\_setiger  
Moschiola\_meminna  
Moschus\_berezovskii  
Moschus\_chrysogaster  
Moschus\_fuscus  
Moschus\_moschiferus  
Mosia\_nigrescens  
Mungos\_gambianus  
Mungos\_mungo  
Mungotictis\_decemlineata  
Muntiacus\_atherodes  
Muntiacus\_crinifrons  
Muntiacus\_feae  
Muntiacus\_gongshanensis  
Muntiacus\_muntjak  
Muntiacus\_reevesi  
Murexia\_longicaudata  
Murexia\_rothschildi  
Muriculus\_imberbis  
Murina\_aenea  
Murina\_aurata  
Murina\_cyclotis  
Murina\_florium  
Murina\_fusca  
Murina\_grisea  
Murina\_huttoni  
Murina\_leucogaster  
Murina\_puta  
Murina rozendaali  
Murina\_silvatica  
Murina\_suilla  
Murina\_tenebrosa  
Murina\_tubinaris  
Murina\_ussuriensis  
Mus\_baoulei  
Mus\_booduga  
Mus\_bufo  
Mus\_callewaerti  
Mus\_caroli  
Mus\_cervicolor  
Mus\_cookii  
Mus\_crocidurooides  
Mus\_famulus  
Mus\_fernandoni

Mus\_goundae  
Mus\_haussa  
Mus\_indutus  
Mus\_kasaicus  
Mus\_macedonicus  
Mus\_mahomet  
Mus\_mattheyi  
Mus\_mayori  
Mus\_minutoides  
Mus\_musculoides  
Mus\_musculus  
Mus\_neavei  
Mus\_orangiae  
Mus\_oubanguii  
Mus\_pahari  
Mus\_phillipsi  
Mus\_platythrix  
Mus\_saxicola  
Mus\_setulosus  
Mus\_setzeri  
Mus\_shortridgei  
Mus\_sorella  
Mus\_spicilegus  
Mus\_spretus  
Mus\_tenellus  
Mus\_terricolor  
Mus\_triton  
Mus\_vulcani  
Muscardinus\_avellanarius  
Musonycteris\_harrisoni  
Mustela\_africana  
Mustela\_altaica  
Mustela\_erminea  
Mustela\_eversmanni  
Mustela\_felipei  
Mustela\_frenata  
Mustela\_kathiah  
Mustela\_lutreola  
Mustela\_lutreolina  
Mustela\_nigripes  
Mustela\_nivalis  
Mustela\_nudipes  
Mustela\_putorius  
Mustela\_sibirica  
Mustela\_strigidorsa  
Mustela\_vison  
Mydaus\_javanensis  
Mydaus\_marshalli  
Myomys\_dybowskii  
Myocastor\_coypus  
Myoictis\_melas  
Myomimus\_personatus  
Myomimus\_roachi  
Myomimus\_setzeri  
Myomys\_albipes  
Myomys\_daltoni  
Myomys\_derooi  
Myomys\_fumatus  
Myomys\_ruppi  
Myomys\_verreauxii

Myomys\_yemeni  
Myonycteris\_brachycephala  
Myonycteris\_relictus  
Myonycteris\_torquata  
Myoprocta\_acouchy  
Myoprocta\_exilis  
Myopterus\_daubentonii  
Myopterus\_whitleyi  
Myopus\_schisticolor  
Myosciurus\_pumilio  
Myosorex\_babaulti  
Myosorex\_blarina  
Myosorex\_cafier  
Myosorex\_eisentrauti  
Myosorex\_geata  
Myosorex\_longicaudatus  
Myosorex\_okuensis  
Myosorex\_rumpii  
Myosorex\_schalleri  
Myosorex\_sclateri  
Myosorex\_tenuis  
Myosorex\_varius  
Myospalax\_aspalax  
Myospalax\_epsilanus  
Myospalax\_fontanieri  
Myospalax\_myospalax  
Myospalax\_psilurus  
Myospalax\_rothschildi  
Myospalax\_smithii  
Myotis\_abeii  
Myotis\_adversus  
Myotis\_aelleni  
Myotis\_albescens  
Myotis\_altarium  
Myotis\_annectans  
Myotis\_atacamensis  
Myotis\_auriculus  
Myotis\_australis  
Myotis\_austroriparius  
Myotis\_bechsteinii  
Myotis\_blythii  
Myotis\_bocagei  
Myotis\_bombinus  
Myotis\_brandti  
Myotis\_californicus  
Myotis\_capaccinii  
Myotis\_chiloensis  
Myotis\_chinensis  
Myotis\_cobanensis  
Myotis\_dasynteme  
Myotis\_daubentonii  
Myotis\_dominicensis  
Myotis\_elegans  
Myotis\_emarginatus  
Myotis\_evotis  
Myotis\_findleyi  
Myotis\_formosus  
Myotis\_fortidens  
Myotis\_frater  
Myotis\_goudotii

*Myotis\_grisescens*  
*Myotis\_hasseltii*  
*Myotis\_horsfieldii*  
*Myotis\_hosonoi*  
*Myotis\_ikonevovi*  
*Myotis\_insularum*  
*Myotis\_keaysi*  
*Myotis\_keenii*  
*Myotis\_leibii*  
*Myotis\_lesueuri*  
*Myotis\_levis*  
*Myotis\_longipes*  
*Myotis\_lucifugus*  
*Myotis\_macrodactylus*  
*Myotis\_macrotarsus*  
*Myotis\_martiniquensis*  
*Myotis\_milleri*  
*Myotis\_montivagus*  
*Myotis\_morrisi*  
*Myotis\_muricola*  
*Myotis\_myotis*  
*Myotis\_mystacinus*  
*Myotis\_nattereri*  
*Myotis\_nesopolus*  
*Myotis\_nigricans*  
*Myotis\_oreias*  
*Myotis\_oxyotus*  
*Myotis\_ozensis*  
*Myotis\_peninsularis*  
*Myotis\_pequinius*  
*Myotis\_planiceps*  
*Myotis\_pruinosus*  
*Myotis\_ricketti*  
*Myotis\_ridleyi*  
*Myotis\_riparius*  
*Myotis\_rosseti*  
*Myotis\_ruber*  
*Myotis\_schaubi*  
*Myotis\_scotti*  
*Myotis\_seabrai*  
*Myotis\_sicarius*  
*Myotis\_siligorensis*  
*Myotis\_simus*  
*Myotis\_sodalis*  
*Myotis\_stalkeri*  
*Myotis\_thysanodes*  
*Myotis\_tricolor*  
*Myotis\_velifer*  
*Myotis\_vivesi*  
*Myotis\_volans*  
*Myotis\_welwitschii*  
*Myotis\_yesoensis*  
*Myotis\_yumanensis*  
*Myoxus\_glis*  
*Myrmecobius\_fasciatus*  
*Myrmecophaga\_tridactyla*  
*Mysateles\_garridoi*  
*Mysateles\_gundlachi*  
*Mysateles\_melanurus*  
*Mysateles\_meridionalis*

Mysateles\_prehensilis  
Mystacina\_tuberculata  
Mystromys\_albicaudatus  
Myzopoda\_aurita  
Naemorhedus\_baileyi  
Naemorhedus\_caudatus  
Naemorhedus\_crispus  
Naemorhedus\_goral  
Naemorhedus\_sumatraensis  
Naemorhedus\_swinhoei  
Nandinia\_binotata  
Nannosciurus\_melanotis  
Nannospalax\_ehrenbergi  
Nannospalax\_leucodon  
Nannospalax\_nehringi  
Nanonycteris\_veldkampi  
Napaeozapus\_insignis  
Nasalis\_concolor  
Nasalis\_larvatus  
Nasua\_narica  
Nasua\_nasua  
Nasuella.olivacea  
Natalus\_lepidus  
Natalus\_micropus  
Natalus\_stramineus  
Natalus\_tumidifrons  
Natalus\_tumidirostris  
Neacomys\_guianae  
Neacomys\_pictus  
Neacomys\_spinosus  
Neacomys\_tenuipes  
Nectogale\_elegans  
Nectomys\_palmipes  
Nectomys\_parvipes  
Nectomys\_squamipes  
Nelsonia\_goldmani  
Nelsonia\_neotomodon  
Neofelis\_nebulosa  
Neofiber\_alleni  
Neohydromys\_fuscus  
Neomys\_anomalus  
Neomys\_fodiens  
Neomys\_schelkovnikovi  
Neophascogale\_lorentzi  
Neophoca\_cinerea  
Neophocaena\_phocaenoides  
Neopteryx\_frosti  
Neotoma\_albigula  
Neotoma\_angustapalata  
Neotoma\_anthonyi  
Neotoma\_bryanti  
Neotoma\_bunkeri  
Neotoma\_chrysomelas  
Neotoma\_cinerea  
Neotoma\_devia  
Neotoma\_floridana  
Neotoma\_fuscipes  
Neotoma\_goldmani  
Neotoma\_lepida  
Neotoma\_martinensis

Neotoma\_mexicana  
Neotoma\_micropus  
Neotoma\_nelsoni  
Neotoma\_palatina  
Neotoma\_phenax  
Neotoma\_stephensi  
Neotoma\_varia  
Neotomodon\_alstoni  
Neotomys\_ebriosus  
Neotragus\_batesi  
Neotragus\_moschatus  
Neotragus\_pygmaeus  
Nesokia\_bunnii  
Nesokia\_indica  
Nesolagus\_netscheri  
Nesomys\_rufus  
Nesoryzomys\_fernandinae  
Nesoryzomys\_indefessus  
Nesoryzomys\_swarthi  
Nesoscaptor\_uchidai  
Neurotrichus\_gibbsii  
Neusticomys\_monticolus  
Neusticomys\_mussoi  
Neusticomys\_oyapocki  
Neusticomys\_peruviensis  
Neusticomys\_venezuelae  
Ningaui\_ridei  
Ningaui\_timealeyi  
Ningaui\_yvonnae  
Niviventer\_andersoni  
Niviventer\_brahma  
Niviventer\_confucianus  
Niviventer\_coxingi  
Niviventer\_cremoriventer  
Niviventer\_culturatus  
Niviventer\_eha  
Niviventer\_excelsior  
Niviventer\_fulvescens  
Niviventer\_hinpoon  
Niviventer\_langbianis  
Niviventer\_lepturus  
Niviventer\_niviventer  
Niviventer\_rapit  
Niviventer\_tenaster  
Noctilio\_albiventris  
Noctilio\_leporinus  
Notiomys\_edwardsii  
Notiosorex\_crawfordi  
Notomys\_alexis  
Notomys\_aquilo  
Notomys\_cervinus  
Notomys\_fuscus  
Notomys\_mitchellii  
Notopteris\_macdonaldi  
Notoryctes\_caurinus  
Notoryctes\_typhlops  
Nyctalus\_aviator  
Nyctalus\_azoreum  
Nyctalus\_lasiopterus  
Nyctalus\_leisleri

*Nyctalus\_montanus*  
*Nyctalus\_noctula*  
*Nyctereutes\_procyonoides*  
*Nycteris\_arge*  
*Nycteris\_gambiensis*  
*Nycteris\_grandis*  
*Nycteris\_hispida*  
*Nycteris\_intermedia*  
*Nycteris\_javanica*  
*Nycteris\_macrotis*  
*Nycteris\_major*  
*Nycteris\_nana*  
*Nycteris\_thebaica*  
*Nycteris\_tragata*  
*Nycteris\_woodi*  
*Nycticebus\_coucang*  
*Nycticebus\_pygmaeus*  
*Nycticeius\_balstoni*  
*Nycticeius\_greyii*  
*Nycticeius\_humeralis*  
*Nycticeius\_rueppellii*  
*Nycticeius\_sanborni*  
*Nycticeius\_schlieffeni*  
*Nyctimene\_aello*  
*Nyctimene\_albiventer*  
*Nyctimene\_celaeno*  
*Nyctimene\_cephalotes*  
*Nyctimene\_certans*  
*Nyctimene\_cyclotis*  
*Nyctimene\_draconilla*  
*Nyctimene\_major*  
*Nyctimene\_malaitensis*  
*Nyctimene\_masalai*  
*Nyctimene\_minutus*  
*Nyctimene\_rabori*  
*Nyctimene\_robinsoni*  
*Nyctimene\_vizcaccia*  
*Nyctinomops\_aurispinosus*  
*Nyctinomops\_femorosaccus*  
*Nyctinomops\_laticaudatus*  
*Nyctinomops\_macrotis*  
*Nyctomyssumichrasti*  
*Nyctophilus\_arnhemensis*  
*Nyctophilus\_geoffroyi*  
*Nyctophilus\_gouldi*  
*Nyctophilus\_heran*  
*Nyctophilus\_microdon*  
*Nyctophilus\_microtis*  
*Nyctophilus\_timoriensis*  
*Nyctophilus\_walkeri*  
*Ochotona\_alpina*  
*Ochotona\_cansus*  
*Ochotona\_collaris*  
*Ochotona\_curzoniae*  
*Ochotona\_dauurica*  
*Ochotona\_erythrotis*  
*Ochotona\_forresti*  
*Ochotona\_gaoligongensis*  
*Ochotona\_gloveri*  
*Ochotona\_himalayana*

Ochotona\_hyperborea  
Ochotona\_iliensis  
Ochotona\_koslowi  
Ochotona\_ladacensis  
Ochotona\_macrotis  
Ochotona\_muliensis  
Ochotona\_nubrica  
Ochotona\_pallasi  
Ochotona\_princeps  
Ochotona\_pusilla  
Ochotona\_roylei  
Ochotona\_rufescens  
Ochotona\_rutila  
Ochotona\_thibetana  
Ochotona\_thomasi  
Ochrotomys\_nuttalli  
Octodon\_bridgesi  
Octodon\_degus  
Octodon\_lunatus  
Octodontomys\_gliroides  
Octomys\_mimax  
Odobenus\_rosmarus  
Odocoileus\_hemionus  
Odocoileus\_virginianus  
Oecomys\_bicolor  
Oecomys\_cleberi  
Oecomys\_concolor  
Oecomys\_flavicans  
Oecomys\_mamorae  
Oecomys\_paricola  
Oecomys\_phaeotis  
Oecomys\_rex  
Oecomys\_roberti  
Oecomys\_rutilus  
Oecomys\_speciosus  
Oecomys\_superans  
Oecomys\_trinitatis  
Oenomys\_hypoxanthus  
Oenomys\_ornatus  
Okapia\_johnstoni  
Olallamys\_albicauda  
Olallamys\_edax  
Oligoryzomys\_andinus  
Oligoryzomys\_arenalis  
Oligoryzomys\_chacoensis  
Oligoryzomys\_delticola  
Oligoryzomys\_destructor  
Oligoryzomys\_eliurus  
Oligoryzomys\_flavescens  
Oligoryzomys\_fulvescens  
Oligoryzomys\_griseolus  
Oligoryzomys\_longicaudatus  
Oligoryzomys\_magellanicus  
Oligoryzomys\_microtis  
Oligoryzomys\_nigripes  
Oligoryzomys\_vegetus  
Oligoryzomys\_victus  
Ommatophoca\_rossii  
Oncifelis\_colocolo  
Oncifelis\_geoffroyi

Oncifelis\_guigna  
Ondatra\_zibethicus  
Onychogalea\_fraenata  
Onychogalea\_unguifera  
Onychomys\_arenicola  
Onychomys\_leucogaster  
Onychomys\_torridus  
Orcaella\_brevirostris  
Orcinus\_orca  
Oreailurus\_jacobita  
Oreamnos\_americanus  
Oreotragus\_oreotragus  
Ornithorhynchus\_anatinus  
Orthogeomys\_cavator  
Orthogeomys\_cherriei  
Orthogeomys\_cuniculus  
Orthogeomys\_dariensis  
Orthogeomys\_grandis  
Orthogeomys\_heterodus  
Orthogeomys\_hispidus  
Orthogeomys\_lanius  
Orthogeomys\_matagalpae  
Orthogeomys\_thaeleri  
Orthogeomys\_underwoodi  
Oryctoperopus\_afer  
Oryctolagus\_cuniculus  
Oryx\_dammah  
Oryx\_gazella  
Oryx\_leucoryx  
Oryzomys\_albigularis  
Oryzomys\_alfaroi  
Oryzomys\_auriventer  
Oryzomys\_balneator  
Oryzomys\_bolivaris  
Oryzomys\_buccinatus  
Oryzomys\_capito  
Oryzomys\_chapmani  
Oryzomys\_couesi  
Oryzomys\_devius  
Oryzomys\_dimidiatus  
Oryzomys\_galapagoensis  
Oryzomys\_gorgasi  
Oryzomys\_hammondi  
Oryzomys\_intectus  
Oryzomys\_intermedius  
Oryzomys\_keaysi  
Oryzomys\_kelloggi  
Oryzomys\_lamia  
Oryzomys\_legatus  
Oryzomys\_levipes  
Oryzomys\_macconnelli  
Oryzomys\_melanotis  
Oryzomys\_nitidus  
Oryzomys\_oniscus  
Oryzomys\_palustris  
Oryzomys\_polius  
Oryzomys\_ratticeps  
Oryzomys\_rhabdops  
Oryzomys\_rostratus  
Oryzomys\_saturior

Oryzomys\_subflavus  
Oryzomys\_talamancae  
Oryzomys\_xantheolus  
Oryzomys\_yunganus  
Oryzorictes\_hova  
Oryzorictes\_talpoides  
Oryzorictes\_tetradactylus  
Osbornictis\_piscivora  
Osgoodomys\_banderanus  
Otaria\_byronia  
Otocolobus\_manul  
Otocyon\_megalotis  
Otolemur\_crassicaudatus  
Otolemur\_garnettii  
Otomops\_formosus  
Otomops\_martiensseni  
Otomops\_papuensis  
Otomops\_secundus  
Otomops\_wroughtoni  
Otomys\_anchietae  
Otomys\_angoniensis  
Otomys\_denti  
Otomys\_irroratus  
Otomys\_laminatus  
Otomys\_maximus  
Otomys\_occidentalis  
Otomys\_saundersiae  
Otomys\_sloggetti  
Otomys\_tropicalis  
Otomys\_typus  
Otomys\_unisulcatus  
Otonycteris\_hemprichii  
Otonyctomys\_hatti  
Otopteropus\_cartilagonodus  
Ototylomys\_phyllotis  
Ourebia\_ourebi  
Ovibos\_moschatus  
Ovis\_ammon  
Ovis\_aries  
Ovis\_canadensis  
Ovis\_dalli  
Ovis\_nivicola  
Ovis\_vignei  
Oxymycterus\_akodontius  
Oxymycterus\_angularis  
Oxymycterus\_delator  
Oxymycterus\_hiska  
Oxymycterus\_hispidus  
Oxymycterus\_hucucha  
Oxymycterus\_iheringi  
Oxymycterus\_inca  
Oxymycterus\_nasutus  
Oxymycterus\_paramensis  
Oxymycterus\_roberti  
Oxymycterus\_rufus  
Ozotoceros\_bezoarticus  
Pachyuromys\_duprasi  
Paguma\_larvata  
Palawanomys\_furvus  
Pan\_paniscus

Pan\_troglodytes  
Panthera\_leo  
Panthera\_onca  
Panthera\_pardus  
Panthera\_tigris  
Pantholops\_hodgsonii  
Papagomys\_armandvillei  
Papio\_hamadryas  
Pappogeomys\_alcorni  
Pappogeomys\_bulleri  
Pappogeomys\_castanops  
Pappogeomys\_fumosus  
Pappogeomys\_gymnurus  
Pappogeomys\_merriami  
Pappogeomys\_neglectus  
Pappogeomys\_tylorhinus  
Pappogeomys\_zinseri  
Paracoelops\_megalotis  
Paracrocidura\_graueri  
Paracrocidura\_maxima  
Paracrocidura\_schoutedeni  
Paracynictis\_selousi  
Paradipus\_ctenodactylus  
Paradoxurus\_hermaphroditus  
Paradoxurus\_jerdoni  
Paradoxurus\_zeylonensis  
Parahyaena\_brunnea  
Parahydromys\_asper  
Paraleptomys\_rufilatus  
Paraleptomys\_wilhelmina  
Parantechinus\_apicalis  
Parantechinus\_bilarni  
Paranyctimene\_raptor  
Parascalops\_breweri  
Parascaptor\_leucura  
Paraxerus\_alexandri  
Paraxerus\_boehmi  
Paraxerus\_cepapi  
Paraxerus\_cooperi  
Paraxerus\_flavovittis  
Paraxerus\_lucifer  
Paraxerus\_ochraceus  
Paraxerus\_palliatus  
Paraxerus\_poensis  
Paraxerus\_vexillarius  
Paraxerus\_vincenti  
Pardofelis\_marmorata  
Parotomys\_brantsii  
Parotomys\_littledalei  
Paruromys\_dominator  
Paruromys\_ursinus  
Pecari\_tajacu  
Pectinator\_spekei  
Pedetes\_capensis  
Pelea\_capreolus  
Pelomys\_campanae  
Pelomys\_fallax  
Pelomys\_hopkinsi  
Pelomys\_isselfi  
Pelomys\_minor

Pentalagus\_furnessi  
Pentheta\_lucasi  
Peponocephala\_electra  
Perameles\_bougainville  
Perameles\_gunnii  
Perameles\_nasuta  
Perodicticus\_potto  
Perognathus\_alticola  
Perognathus\_amplus  
Perognathus\_fasciatus  
Perognathus\_flavescens  
Perognathus\_flavus  
Perognathus\_inornatus  
Perognathus\_longimembris  
Perognathus\_merriami  
Perognathus\_parvus  
Perognathus\_xanthanotus  
Peromyscus\_attwateri  
Peromyscus\_aztecus  
Peromyscus\_boylii  
Peromyscus\_bullatus  
Peromyscus\_californicus  
Peromyscus\_caniceps  
Peromyscus\_crinitus  
Peromyscus\_dickeyi  
Peromyscus\_difficilis  
Peromyscus\_eremicus  
Peromyscus\_eva  
Peromyscus\_furvus  
Peromyscus\_gossypinus  
Peromyscus\_grandis  
Peromyscus\_gratus  
Peromyscus\_guardia  
Peromyscus\_guatemalensis  
Peromyscus\_gymnotis  
Peromyscus\_hooperi  
Peromyscus\_interparietalis  
Peromyscus\_leucopus  
Peromyscus\_levipes  
Peromyscus\_madrensis  
Peromyscus\_maniculatus  
Peromyscus\_mayensis  
Peromyscus\_megalops  
Peromyscus\_mekisturus  
Peromyscus\_melanocarpus  
Peromyscus\_melanophrys  
Peromyscus\_melanotis  
Peromyscus\_melanurus  
Peromyscus\_merriami  
Peromyscus\_mexicanus  
Peromyscus\_nasutus  
Peromyscus\_ochraventer  
Peromyscus\_oreas  
Peromyscus\_pectoralis  
Peromyscus\_perfulvus  
Peromyscus\_polionotus  
Peromyscus\_polius  
Peromyscus\_pseudocrinitus  
Peromyscus\_sejugis  
Peromyscus\_simulus

*Peromyscus\_sitkensis*  
*Peromyscus\_slevini*  
*Peromyscus\_spicilegus*  
*Peromyscus\_stephani*  
*Peromyscus\_stirtoni*  
*Peromyscus\_truei*  
*Peromyscus\_winkelmanni*  
*Peromyscus\_yucatanicus*  
*Peromyscus\_zarhynchus*  
*Peropteryx\_kappleri*  
*Peropteryx\_leucoptera*  
*Peropteryx\_macrotis*  
*Peroryctes\_broadbenti*  
*Peroryctes\_raffrayana*  
*Petaurillus\_emiliae*  
*Petaurillus\_hosei*  
*Petaurillus\_kinlochii*  
*Petaurista\_alborufus*  
*Petaurista\_elegans*  
*Petaurista\_leucogenys*  
*Petaurista\_magnificus*  
*Petaurista\_nobilis*  
*Petaurista\_petaurista*  
*Petaurista\_philippensis*  
*Petaurista\_xanthotis*  
*Petauroides\_volans*  
*Petaurus\_abidi*  
*Petaurus\_australis*  
*Petaurus\_breviceps*  
*Petaurus\_gracilis*  
*Petaurus\_norfolkensis*  
*Petinomys\_crinitus*  
*Petinomys\_fuscocapillus*  
*Petinomys\_genibarbis*  
*Petinomys\_hageni*  
*Petinomys\_lugens*  
*Petinomys\_sagitta*  
*Petinomys\_setosus*  
*Petinomys\_vordermanni*  
*Petrodromus\_tetradactylus*  
*Petrogale\_assimilis*  
*Petrogale\_brachyotis*  
*Petrogale\_burbidgei*  
*Petrogale\_concinna*  
*Petrogale\_godmani*  
*Petrogale\_inornata*  
*Petrogale\_lateralis*  
*Petrogale\_penicillata*  
*Petrogale\_persephone*  
*Petrogale\_rothschildi*  
*Petrogale\_xanthopus*  
*Petromus\_typicus*  
*Petromyscus\_barbouri*  
*Petromyscus\_collinus*  
*Petromyscus\_monticularis*  
*Petromyscus\_shortridgei*  
*Petropseudes\_dahli*  
*Phacochoerus\_aethiopicus*  
*Phacochoerus\_africanus*  
*Phaenomys\_ferrugineus*

Phalanger\_carmelitae  
Phalanger\_lullulae  
Phalanger\_matanim  
Phalanger\_orientalis  
Phalanger\_ornatus  
Phalanger\_pelengensis  
Phalanger\_sericeus  
Phalanger Vestitus  
Phaner\_furcifer  
Pharotis\_imogene  
Phascogale\_calura  
Phascogale\_tapoatafa  
Phascolarctos\_cinereus  
Phascolosorex\_doriae  
Phascolosorex\_dorsalis  
Phaulomys\_andersoni  
Phaulomys\_smithii  
Phenacomys\_intermedius  
Phenacomys\_ungava  
Philander\_andersoni  
Philander\_o possum  
Philetor\_b rachypterus  
Phloeomys\_cumingi  
Phloeomys\_pallidus  
Phoca\_caspica  
Phoca\_fasciata  
Phoca\_groenlandica  
Phoca\_hispida  
Phoca\_largha  
Phoca\_sibirica  
Phoca\_vitulina  
Phocarctos\_hookeri  
Phocoena\_phocoena  
Phocoena\_sinus  
Phocoena\_spinipinnis  
Phocoenoides\_dalli  
Phodopus\_campbelli  
Phodopus\_rborovskii  
Phodopus\_sungorus  
Phylloderma\_stenops  
Phyllonycteris\_aphylla  
Phyllonycteris\_poe yi  
Phyllops\_falcatus  
Phyllostomus\_discolor  
Phyllostomus\_elongatus  
Phyllostomus\_hastatus  
Phyllostomus\_latifolius  
Phyllostis\_amicus  
Phyllostis\_andium  
Phyllostis bonaeriensis  
Phyllostis\_caprinus  
Phyllostis\_darwini  
Phyllostis\_definitus  
Phyllostis\_gerbillus  
Phyllostis\_haggardi  
Phyllostis\_magister  
Phyllostis osgoodi  
Phyllostis\_osilae  
Phyllostis\_wolffsohni  
Phyllostis\_xanthopygus

Physeter\_catodon  
Pipistrellus\_aegyptius  
Pipistrellus\_aero  
Pipistrellus\_affinis  
Pipistrellus\_anchietai  
Pipistrellus\_anthonyi  
Pipistrellus\_arabicus  
Pipistrellus\_ariel  
Pipistrellus\_babu  
Pipistrellus\_bodenheimeri  
Pipistrellus\_cadornae  
Pipistrellus\_ceylonicus  
Pipistrellus\_circumdatus  
Pipistrellus\_coromandra  
Pipistrellus\_crassulus  
Pipistrellus\_cuprosus  
Pipistrellus\_dormeri  
Pipistrellus\_eisentrauti  
Pipistrellus\_endoi  
Pipistrellus\_hesperus  
Pipistrellus\_imbricatus  
Pipistrellus\_inexpectatus  
Pipistrellus\_javanicus  
Pipistrellus\_joffrei  
Pipistrellus\_kitcheneri  
Pipistrellus\_kuhlii  
Pipistrellus\_lophurus  
Pipistrellus\_macrotis  
Pipistrellus\_maderensis  
Pipistrellus\_mimus  
Pipistrellus\_minahassae  
Pipistrellus\_mordax  
Pipistrellus\_musciculus  
Pipistrellus\_nanulus  
Pipistrellus\_nanus  
Pipistrellus\_nathusii  
Pipistrellus\_paterculus  
Pipistrellus\_peguensis  
Pipistrellus\_permixtus  
Pipistrellus\_petersi  
Pipistrellus\_pipistrellus  
Pipistrellus\_pulveratus  
Pipistrellus\_rueppelli  
Pipistrellus\_rusticus  
Pipistrellus\_savii  
Pipistrellus\_societatis  
Pipistrellus\_stenopterus  
Pipistrellus\_subflavus  
Pipistrellus\_tasmaniensis  
Pipistrellus\_tenuis  
Pithecheir\_melanurus  
Pithecheir\_parvus  
Pithecia\_aequatorialis  
Pithecia\_albicans  
Pithecia\_irrorata  
Pithecia\_monachus  
Pithecia\_pithecia  
Plagiodontia\_aedium  
Planigale\_gilesi  
Planigale\_ingrami

Planigale\_maculata  
Planigale\_novaeguineae  
Planigale\_tenuirostris  
Platacanthomys\_lasiurus  
Platalina\_genovensium  
Platanista\_gangetica  
Platanista\_minor  
Platyrrhinus\_aurarius  
Platyrrhinus\_brachycephalus  
Platyrrhinus\_chocoensis  
Platyrrhinus\_dorsalis  
Platyrrhinus\_helleri  
Platyrrhinus\_infuscus  
Platyrrhinus\_lineatus  
Platyrrhinus\_recifinus  
Platyrrhinus\_umbratus  
Platyrrhinus\_vittatus  
Plecotus\_auritus  
Plecotus\_austriacus  
Plecotus\_mexicanus  
Plecotus\_rafinesquii  
Plecotus\_taivanus  
Plecotus\_teneriffae  
Plecotus\_townsendii  
Plerotes\_anchietai  
Podogymnura\_aureospinula  
Podogymnura\_truei  
Podomys\_floridanus  
Podoxymys\_roraimae  
Poecilogale\_albinucha  
Poelagus\_marjorita  
Pogonomelomys\_bruijni  
Pogonomelomys\_mayeri  
Pogonomelomys\_sevia  
Pogonomys\_championi  
Pogonomys\_loriae  
Pogonomys\_macrourus  
Pogonomys\_sylvestris  
Poiana\_richardsonii  
Pongo\_pygmaeus  
Pontoporia\_blainvillici  
Potamochoerus\_larvatus  
Potamochoerus\_porcus  
Potamogale\_velox  
Potorous\_longipes  
Potorous\_tridactylus  
Potos\_flavus  
Praomys\_delectorum  
Praomys\_hartwigi  
Praomys\_jacksoni  
Praomys\_minor  
Praomys\_misonnei  
Praomys\_morio  
Praomys\_mutoni  
Praomys\_rostratus  
Praomys\_tullbergi  
Presbytis\_comata  
Presbytis\_femoralis  
Presbytis\_frontata  
Presbytis\_hosei

Presbytis\_melalophos  
Presbytis\_potenziani  
Presbytis\_rubicunda  
Presbytis\_thomasi  
Priodontes\_maximus  
Prionailurus\_bengalensis  
Prionailurus\_planiceps  
Prionailurus\_rubiginosus  
Prionailurus\_viverrinus  
Prionodon\_linsang  
Prionodon\_pardicolor  
Prionomys\_batesi  
Procapra\_gutturosa  
Procapra\_picticaudata  
Procapra\_przewalskii  
Procavia\_capensis  
Procolobus\_badius  
Procolobus\_pennantii  
Procolobus\_preussi  
Procolobus\_rufomitratus  
Procolobus\_verus  
Procyon\_cancrivorus  
Procyon\_insularis  
Procyon\_lotor  
Procyon\_maynardi  
Procyon\_minor  
Procyon\_pygmaeus  
Proechimys\_albispinus  
Proechimys\_amphichoricus  
Proechimys\_bolivianus  
Proechimys\_brevicauda  
Proechimys\_canicollis  
Proechimys\_cayennensis  
Proechimys\_chrysaeolus  
Proechimys\_cuvieri  
Proechimys\_decumanus  
Proechimys\_dimidiatus  
Proechimys\_goeldii  
Proechimys\_gorgonae  
Proechimys\_guairae  
Proechimys\_gularis  
Proechimys\_hendeei  
Proechimys\_hoplomyoides  
Proechimys\_iheringi  
Proechimys\_longicaudatus  
Proechimys\_magdalenae  
Proechimys\_mincae  
Proechimys\_myosuros  
Proechimys\_oconnelli  
Proechimys\_oris  
Proechimys\_poliopus  
Proechimys\_quadruplicatus  
Proechimys\_semispinosus  
Proechimys\_setosus  
Proechimys\_simonsi  
Proechimys\_steerei  
Proechimys\_trinitatis  
Proechimys\_urichi  
Proechimys\_warreni  
Proedromys\_bedfordi

*Profelis\_aurata*  
*Prometheomys\_schaposhnikowi*  
*Promops\_centralis*  
*Promops\_nasutus*  
*Pronolagus\_crassicaudatus*  
*Pronolagus\_randensis*  
*Pronolagus\_rupestris*  
*Propithecus\_diadema*  
*Propithecus\_tattersalli*  
*Propithecus\_verreauxi*  
*Prosciurillus\_abstrusus*  
*Prosciurillus\_leucomus*  
*Prosciurillus\_murinus*  
*Prosciurillus\_weberi*  
*Proteles\_cristatus*  
*Protoxerus\_aubinnii*  
*Protoxerus\_stangeri*  
*Psammomys\_obesus*  
*Psammomys\_vexillaris*  
*Pseudalopex\_culpaeus*  
*Pseudalopex\_griseus*  
*Pseudalopex\_gymnocercus*  
*Pseudalopex\_sechurae*  
*Pseudalopex\_vetus*  
*Pseudantechinus\_macdonnellensis*  
*Pseudantechinus\_ningbing*  
*Pseudantechinus\_woolleyae*  
*Pseudocheirus\_canescens*  
*Pseudocheirus\_caroli*  
*Pseudocheirus\_forbesi*  
*Pseudocheirus\_herbertensis*  
*Pseudocheirus\_mayeri*  
*Pseudocheirus\_peregrinus*  
*Pseudochirops\_albertisii*  
*Pseudochirops\_archeri*  
*Pseudochirops\_corinnae*  
*Pseudochirops\_cupreus*  
*Pseudohydromys\_murinus*  
*Pseudohydromys\_occidentalis*  
*Pseudois\_naya*  
*Pseudois\_schaeferi*  
*Pseudomys\_albocinereus*  
*Pseudomys\_apodemoides*  
*Pseudomys\_australis*  
*Pseudomys\_bolami*  
*Pseudomys\_chapmani*  
*Pseudomys\_delicatulus*  
*Pseudomys\_desertor*  
*Pseudomys\_fieldi*  
*Pseudomys\_fumeus*  
*Pseudomys\_fuscus*  
*Pseudomys\_glaucus*  
*Pseudomys\_gracilicaudatus*  
*Pseudomys\_hermannsburgensis*  
*Pseudomys\_higginsi*  
*Pseudomys\_johnsoni*  
*Pseudomys\_laborifex*  
*Pseudomys\_nanus*  
*Pseudomys\_novaehollandiae*  
*Pseudomys\_occidentalis*

Pseudomys\_oralis  
Pseudomys\_patrius  
Pseudomys\_pilligaensis  
Pseudomys\_praeconis  
Pseudomys\_shortridgei  
Pseudorca\_crassidens  
Pseudoryzomys\_simplex  
Ptenochirus\_jagori  
Ptenochirus\_minor  
Pteralopex\_acrodonta  
Pteralopex\_anceps  
Pteralopex\_atrata  
Pteralopex\_pulchra  
Pteromys\_momonga  
Pteromys.volans  
Pteromyscus\_pulverulentus  
Pteronotus\_davyi  
Pteronotus\_gymnonotus  
Pteronotus\_macleayii  
Pteronotus\_parnellii  
Pteronotus\_personatus  
Pteronotus\_quadridentatus  
Pteronura\_brasiliensis  
Pteropus\_admiralitatum  
Pteropus\_aldabrensis  
Pteropus\_alecto  
Pteropus\_anetianus  
Pteropus\_argentatus  
Pteropus\_caniceps  
Pteropus\_chrysoproctus  
Pteropus\_conspicillatus  
Pteropus\_dasymallus  
Pteropus\_faunulus  
Pteropus\_fundatus  
Pteropus\_giganteus  
Pteropus\_gilliardi  
Pteropus\_griseus  
Pteropus\_howensis  
Pteropus\_hypomelanus  
Pteropus\_insularis  
Pteropus\_leucopterus  
Pteropus\_livingstonii  
Pteropus\_lombocensis  
Pteropus\_lylei  
Pteropus\_macrotis  
Pteropus\_mahaganus  
Pteropus\_mariannus  
Pteropus\_mearnsi  
Pteropus\_melanopogon  
Pteropus\_melanotus  
Pteropus\_molossinus  
Pteropus\_neohibernicus  
Pteropus\_niger  
Pteropus\_nitendiensis  
Pteropus\_ocularis  
Pteropus\_ornatus  
Pteropus\_personatus  
Pteropus\_phaeocephalus  
Pteropus\_pohlei  
Pteropus\_poliocephalus

Pteropus\_pselaphon  
Pteropus\_pumilus  
Pteropus\_rayneri  
Pteropus\_rodricensis  
Pteropus\_rufus  
Pteropus\_samoensis  
Pteropus\_sanctacrucis  
Pteropus\_scapulatus  
Pteropus\_seychellensis  
Pteropus\_speciosus  
Pteropus\_temmincki  
Pteropus\_tonganus  
Pteropus\_tuberculatus  
Pteropus\_vampyrus  
Pteropus\_vetulus  
Pteropus.voeltzkowi  
Pteropus\_woodfordi  
Ptilocercus\_lowii  
Pudu\_mephistophiles  
Pudu\_puda  
Puma\_concolor  
Punomys\_lemmminus  
Pygathrix\_avunculus  
Pygathrix\_bieti  
Pygathrix\_brelichi  
Pygathrix\_nemaeus  
Pygathrix\_roxellana  
Pygeretmus\_platyurus  
Pygeretmus\_pumilio  
Pygeretmus\_shitkovi  
Pygoderma\_bilabiatum  
Rangifer\_tarandus  
Raphicerus\_campestris  
Raphicerus\_melanotis  
Raphicerus\_sharpei  
Rattus\_adustus  
Rattus\_annandalei  
Rattus\_argentiventer  
Rattus\_baluensis  
Rattus\_bontanus  
Rattus\_burrus  
Rattus\_colletti  
Rattus\_elaphinus  
Rattus\_enganus  
Rattus\_everetti  
Rattus\_exulans  
Rattus\_feliceus  
Rattus\_foramineus  
Rattus\_fuscipes  
Rattus\_giluwensis  
Rattus\_hainaldi  
Rattus\_hoffmanni  
Rattus\_hoogerwerfi  
Rattus\_jobiensis  
Rattus\_koopmani  
Rattus\_korinchi  
Rattus\_leucopus  
Rattus\_losea  
Rattus\_lugens  
Rattus\_lutreolus

Rattus\_marmosurus  
Rattus\_mindorensis  
Rattus\_mollicomulus  
Rattus\_montanus  
Rattus\_mordax  
Rattus\_morotaiensis  
Rattus\_nitidus  
Rattus\_norvegicus  
Rattus\_novaeguineae  
Rattus osgoodi  
Rattus\_palmarum  
Rattus\_pelurus  
Rattus\_praetor  
Rattus\_ranjiniae  
Rattus\_rattus  
Rattus\_sanila  
Rattus\_sikkimensis  
Rattus\_simalurensis  
Rattus\_sordidus  
Rattus\_steini  
Rattus\_stoicus  
Rattus\_tanezumi  
Rattus\_tawitawiensis  
Rattus\_timorensis  
Rattus\_tiomanicus  
Rattus\_tunneyi  
Rattus\_turkestanicus  
Rattus\_villosissimus  
Rattus\_xanthurus  
Ratufa\_affinis  
Ratufa\_bicolor  
Ratufa\_indica  
Ratufa\_macroura  
Redunca\_arundinum  
Redunca\_fulvorufula  
Redunca\_redunda  
Reithrodon\_auritus  
Reithrodontomys\_brevirostris  
Reithrodontomys\_burti  
Reithrodontomys\_chrysopsis  
Reithrodontomys\_creper  
Reithrodontomys\_darienensis  
Reithrodontomys\_fulvescens  
Reithrodontomys\_gracilis  
Reithrodontomys\_hirsutus  
Reithrodontomys\_humulis  
Reithrodontomys\_megalotis  
Reithrodontomys\_mexicanus  
Reithrodontomys\_microdon  
Reithrodontomys\_montanus  
Reithrodontomys\_paradoxus  
Reithrodontomys\_raviventris  
Reithrodontomys\_rodriguezi  
Reithrodontomys\_spectabilis  
Reithrodontomys\_sumichrasti  
Reithrodontomys\_tenuirostris  
Reithrodontomys\_zacatecae  
Rhabdomys\_pumilio  
Rhagomys\_rufescens  
Rheithrosciurus\_macrotis

Rheomys\_mexicanus  
Rheomys\_raptor  
Rheomys\_thomasi  
Rheomys\_underwoodi  
Rhinoceros\_sondaicus  
Rhinoceros\_unicornis  
Rhinolophus\_acuminatus  
Rhinolophus\_adami  
Rhinolophus\_affinis  
Rhinolophus\_alcyone  
Rhinolophus\_anderseni  
Rhinolophus\_arcuatus  
Rhinolophus blasii  
Rhinolophus borneensis  
Rhinolophus canuti  
Rhinolophus capensis  
Rhinolophus celebensis  
Rhinolophus clivosus  
Rhinolophus coelophyllus  
Rhinolophus cognatus  
Rhinolophus cornutus  
Rhinolophus creaghi  
Rhinolophus darlingi  
Rhinolophus deckenii  
Rhinolophus denti  
Rhinolophus eloquens  
Rhinolophus euryale  
Rhinolophus euryotis  
Rhinolophus ferrumequinum  
Rhinolophus fumigatus  
Rhinolophus guineensis  
Rhinolophus hildebrandti  
Rhinolophus hipposideros  
Rhinolophus imaizumii  
Rhinolophus inops  
Rhinolophus keyensis  
Rhinolophus landeri  
Rhinolophus lepidus  
Rhinolophus luctus  
Rhinolophus maclaudi  
Rhinolophus macrotis  
Rhinolophus malayanus  
Rhinolophus marshalli  
Rhinolophus megaphyllus  
Rhinolophus mehelyi  
Rhinolophus mitratus  
Rhinolophus monoceros  
Rhinolophus nereis  
Rhinolophus osgoodi  
Rhinolophus paradoxolophus  
Rhinolophus pearsonii  
Rhinolophus philippinensis  
Rhinolophus pusillus  
Rhinolophus rex  
Rhinolophus robinsoni  
Rhinolophus rouxii  
Rhinolophus rufus  
Rhinolophus sedulus  
Rhinolophus shameli  
Rhinolophus silvestris

Rhinolophus\_simplex  
Rhinolophus\_simulator  
Rhinolophus\_stheno  
Rhinolophus\_subbadius  
Rhinolophus\_subrufus  
Rhinolophus\_swinnyi  
Rhinolophus\_thomasi  
Rhinolophus\_trifoliatus  
Rhinolophus\_virgo  
Rhinolophus\_yunanensis  
Rhinonicteris\_aurantia  
Rhinophylla\_alethina  
Rhinophylla\_fischerae  
Rhinophylla\_pumilio  
Rhinopoma\_hardwickei  
Rhinopoma\_microphyllum  
Rhinopoma\_muscatellum  
Rhinosciurus\_laticaudatus  
Rhipidomys\_austrinus  
Rhipidomys\_caucensis  
Rhipidomys\_couesi  
Rhipidomys\_fulviventer  
Rhipidomys\_latimanus  
Rhipidomys\_leucodactylus  
Rhipidomys\_macconnelli  
Rhipidomys\_mastacalis  
Rhipidomys\_nitela  
Rhipidomys\_ochrogaster  
Rhipidomys\_scandens  
Rhipidomys\_venezuelae  
Rhipidomys\_venustus  
Rhipidomys\_wetzeli  
Rhizomys\_pruinosus  
Rhizomys\_sinensis  
Rhizomys\_sumatrensis  
Rhogeessa\_alleni  
Rhogeessa\_genowaysi  
Rhogeessa\_gracilis  
Rhogeessa\_minutilla  
Rhogeessa\_mira  
Rhogeessa\_parvula  
Rhogeessa\_tumida  
Rhombomys\_optimus  
Rhynchocyon\_chrysopygus  
Rhynchocyon\_cirnei  
Rhynchocyon\_petersi  
Rhynchogale\_melleri  
Rhyncholestes\_raphanurus  
Rhynchomeles\_prattorum  
Rhynchomys\_isarogensis  
Rhynchomys\_soricoides  
Rhynchonycteris\_naso  
Romerolagus\_diazi  
Rousettus\_amplexicaudatus  
Rousettus\_angolensis  
Rousettus\_celebensis  
Rousettus\_egyptiacus  
Rousettus\_lanosus  
Rousettus\_leschenaulti  
Rousettus\_madagascariensis  
Rousettus\_obliviosus

Rousettus\_spinalatus  
Rubrisciurus\_rubriventer  
Rupicapra\_pyrenaica  
Rupicapra\_rupicapra  
Ruwenzorisorex\_suncoides  
Saccolaimus\_flaviventris  
Saccolaimus\_mixtus  
Saccolaimus\_peli  
Saccolaimus\_pluto  
Saccolaimus\_saccolaimus  
Saccopteryx\_bilineata  
Saccopteryx\_canescens  
Saccopteryx\_gymnura  
Saccopteryx\_leptura  
Saccostomus\_campestris  
Saccostomus\_mearnsi  
Saguinus\_bicolor  
Saguinus\_fuscicollis  
Saguinus\_geoffroyi  
Saguinus\_imperator  
Saguinus\_inustus  
Saguinus\_labiatus  
Saguinus\_leucopus  
Saguinus\_midas  
Saguinus\_mystax  
Saguinus\_nigricollis  
Saguinus\_oedipus  
Saguinus\_tripartitus  
Saiga\_tatarica  
Saimiri\_boliviensis  
Saimiri\_oerstedii  
Saimiri\_sciureus  
Saimiri\_ustus  
Saimiri\_vanzolinii  
Salanoia\_concolor  
Salpingotus\_crassicauda  
Salpingotus\_heptneri  
Salpingotus\_kozlovi  
Salpingotus\_michaelis  
Salpingotus\_pallidus  
Salpingotus\_thomasi  
Sarcophilus\_laniarius  
Scalopus\_aquaticus  
Scapanulus\_oweni  
Scapanus\_latimanus  
Scapanus\_orarius  
Scapanus\_townsendii  
Scapteromys\_tumidus  
Scaptochirus\_moschatus  
Scaptonyx\_fusicaudus  
Sciurillus\_pusillus  
Sciurotamias\_davidianus  
Sciurotamias\_forresti  
Sciurus\_aestuans  
Sciurus\_alleni  
Sciurus\_anomalus  
Sciurus\_arizonensis  
Sciurus\_aureogaster  
Sciurus\_carolinensis  
Sciurus\_colliae

*Sciurus\_deppei*  
*Sciurus\_flammifer*  
*Sciurus\_gilvigularis*  
*Sciurus\_granatensis*  
*Sciurus\_griseus*  
*Sciurus\_ignitus*  
*Sciurus\_igniventris*  
*Sciurus\_lis*  
*Sciurus\_nayaritensis*  
*Sciurus\_niger*  
*Sciurus\_oculatus*  
*Sciurus\_pucheranii*  
*Sciurus\_pyrrhinus*  
*Sciurus\_richmondi*  
*Sciurus\_sanborni*  
*Sciurus\_spadiceus*  
*Sciurus\_stramineus*  
*Sciurus\_variegatoides*  
*Sciurus\_vulgaris*  
*Sciurus\_yucatanensis*  
*Scleronycteris\_egia*  
*Scolomys\_melanops*  
*Scolomys\_ucayalensis*  
*Scotinomys\_teguina*  
*Scotinomys\_xerampelinus*  
*Scotoecus\_albofuscus*  
*Scotoecus\_hirundo*  
*Scotoecus\_pallidus*  
*Scotomanes\_emarginatus*  
*Scotomanes\_ornatus*  
*Scotonycteris\_ophiodon*  
*Scotonycteris\_zenkeri*  
*Scotophilus\_borbonicus*  
*Scotophilus\_celebensis*  
*Scotophilus\_dinganii*  
*Scotophilus\_heathi*  
*Scotophilus\_kuhlii*  
*Scotophilus\_leucogaster*  
*Scotophilus\_nigrita*  
*Scotophilus\_nux*  
*Scotophilus\_robustus*  
*Scotophilus\_viridis*  
*Scutisorex\_somereni*  
*Sekeetamys\_calurus*  
*Selevinia\_betpakdalaensis*  
*Semnopithecus\_entellus*  
*Setifer\_setosus*  
*Setonix\_brachyurus*  
*Sicista\_armenica*  
*Sicista\_betulina*  
*Sicista\_caucasica*  
*Sicista\_caudata*  
*Sicista\_concolor*  
*Sicista\_kazbegica*  
*Sicista\_kluchorica*  
*Sicista\_napaea*  
*Sicista\_pseudonapaea*  
*Sicista\_severtzovi*  
*Sicista\_strandi*  
*Sicista\_subtilis*

Sicista\_tianshanica  
Sigmoceros\_lichtensteinii  
Sigmodon\_alleni  
Sigmodon\_alstoni  
Sigmodon\_arizonae  
Sigmodon\_fulviventer  
Sigmodon\_hispidus  
Sigmodon\_inopinatus  
Sigmodon\_leucotis  
Sigmodon\_mascotensis  
Sigmodon\_ochrognathus  
Sigmodon\_peruanus  
Sigmodontomys\_alfari  
Sigmodontomys\_aphrastus  
Sminthopsis\_aitkeni  
Sminthopsis\_archeri  
Sminthopsis\_butleri  
Sminthopsis\_crassicaudata  
Sminthopsis\_dolichura  
Sminthopsis\_douglasi  
Sminthopsis\_gilberti  
Sminthopsis\_granulipes  
Sminthopsis\_griseoventer  
Sminthopsis\_hirtipes  
Sminthopsis\_laniger  
Sminthopsis\_leucopus  
Sminthopsis\_longicaudata  
Sminthopsis\_macroura  
Sminthopsis\_murina  
Sminthopsis\_ooldea  
Sminthopsis\_psammophila  
Sminthopsis\_virginiae  
Sminthopsis\_youngsoni  
Solenodon\_cubanus  
Solenodon\_paradoxus  
Solisorex\_pearsoni  
Solomys\_ponceleti  
Solomys\_salamonis  
Solomys.salebrosus  
Solomys\_sapientis  
Solomys\_spriggsarum  
Sorex\_alpinus  
Sorex\_araneus  
Sorex\_arcticus  
Sorex\_arizonae  
Sorex\_asper  
Sorex\_bairdii  
Sorex\_bendirii  
Sorex\_bucharensis  
Sorex\_caecutiens  
Sorex\_cinereus  
Sorex\_coronatus  
Sorex\_daphaenodon  
Sorex\_dispar  
Sorex\_excelsus  
Sorex\_fumeus  
Sorex\_gracillimus  
Sorex\_granarius  
Sorex\_haydeni  
Sorex\_hosonoi  
Sorex\_hoyi

Sorex\_isodon  
Sorex\_jacksoni  
Sorex\_leucogaster  
Sorex\_longirostris  
Sorex\_merriami  
Sorex\_minutissimus  
Sorex\_minutus  
Sorex\_mirabilis  
Sorex\_monticolus  
Sorex\_nanus  
Sorex\_ornatus  
Sorex\_pacificus  
Sorex\_palustris  
Sorex\_portenkoi  
Sorex\_preblei  
Sorex\_raddei  
Sorex\_roboratus  
Sorex\_sadonis  
Sorex.samniticus  
Sorex\_satunini  
Sorex\_shinto  
Sorex\_tenellus  
Sorex\_trowbridgii  
Sorex\_tundrensis  
Sorex\_ugyunak  
Sorex\_unguiculatus  
Sorex\_vagrans  
Sorex.volnuchini  
Soriculus\_caudatus  
Soriculus\_fumidus  
Soriculus\_hypsibius  
Soriculus\_lamula  
Soriculus\_leucops  
Soriculus\_macrurus  
Soriculus\_nigrescens  
Soriculus\_parca  
Soriculus\_salenskii  
Soriculus\_smithii  
Sotalia\_fluvialis  
Sousa\_chinensis  
Sousa\_teuszii  
Spalacopus\_cyanus  
Spalax\_arearius  
Spalax\_giganteus  
Spalax\_graecus  
Spalax\_microphtalmus  
Spalax\_zemni  
Speothos\_venaticus  
Spermophilopsis\_leptodactylus  
Spermophilus\_adocetus  
Spermophilus\_alashanicus  
Spermophilus\_annulatus  
Spermophilus\_armatus  
Spermophilus\_atricapillus  
Spermophilus\_beecheyi  
Spermophilus\_beldingi  
Spermophilus\_brunneus  
Spermophilus\_canus  
Spermophilus\_citellus  
Spermophilus\_columbianus

Spermophilus\_dauricus  
Spermophilus\_elegans  
Spermophilus\_erythrogenys  
Spermophilus\_franklinii  
Spermophilus\_fulvus  
Spermophilus\_lateralis  
Spermophilus\_madrensis  
Spermophilus\_major  
Spermophilus\_mexicanus  
Spermophilus\_mohavensis  
Spermophilus\_mollis  
Spermophilus\_musicus  
Spermophilus\_parryii  
Spermophilus\_perotensis  
Spermophilus\_pygmaeus  
Spermophilus\_relictus  
Spermophilus\_richardsonii  
Spermophilus\_saturatus  
Spermophilus\_spilosoma  
Spermophilus\_suslicus  
Spermophilus\_tereticaudus  
Spermophilus\_townsendii  
Spermophilus\_tridecemlineatus  
Spermophilus\_undulatus  
Spermophilus\_variegatus  
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Spermophilus\_xanthoprymnus  
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Sphaeronycteris\_toxophyllum  
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Sphiggurus\_mexicanus  
Sphiggurus\_spinosus  
Sphiggurus\_vestitus  
Sphiggurus\_villosus  
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Spilocucus\_rufoniger  
Spilogale\_putorius  
Spilogale\_pygmaea  
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Steatomys\_cuppedius  
Steatomys\_jacksoni  
Steatomys\_krebsii  
Steatomys\_parvus  
Steatomys\_pratensis  
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Stenella\_clymene  
Stenella\_coeruleoalba  
Stenella\_frontalis  
Stenella\_longirostris  
Steno\_bredanensis  
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Stenocephalemys\_griseicauda  
Stenoderma\_rufum  
Stenomys\_ceramicus  
Stenomys\_niobe  
Stenomys\_richardsoni  
Stenomys\_vandeuseni  
Stenomys\_verecundus  
Stochomys\_longicaudatus

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*Strigocuscus\_gymnotis*  
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*Sturnira\_bidens*  
*Sturnira\_bogotensis*  
*Sturnira\_erythromos*  
*Sturnira\_lilium*  
*Sturnira\_ludovici*  
*Sturnira\_luisi*  
*Sturnira\_magna*  
*Sturnira\_mordax*  
*Sturnira\_nana*  
*Sturnira\_thomasi*  
*Sturnira\_tildae*  
*Styloctenium\_wallacei*  
*Stylopipus\_andrewsi*  
*Stylopipus\_sungorus*  
*Stylopipus\_telum*  
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*Suncus\_dayi*  
*Suncus\_etruscus*  
*Suncus\_fellowesgordoni*  
*Suncus\_hosei*  
*Suncus\_infinitesimus*  
*Suncus\_lixus*  
*Suncus\_madagascariensis*  
*Suncus\_malayanus*  
*Suncus\_mertensi*  
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*Sundasciurus\_jentinki*  
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*Sundasciurus\_philippinensis*  
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Sus\_timoriensis  
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Syconycteris\_hobbit  
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Sylvilagus\_audubonii  
Sylvilagus\_bachmani  
Sylvilagus\_brasiliensis  
Sylvilagus\_cunicularius  
Sylvilagus\_dicei  
Sylvilagus\_floridanus  
Sylvilagus\_graysoni  
Sylvilagus\_insonus  
Sylvilagus\_mansuetus  
Sylvilagus\_nuttallii  
Sylvilagus\_palustris  
Sylvilagus\_transitionalis  
Sylvisorex\_granti  
Sylvisorex\_howelli  
Sylvisorex\_isabellae  
Sylvisorex\_johnstoni  
Sylvisorex\_lunaris  
Sylvisorex\_megalura  
Sylvisorex\_morio  
Sylvisorex\_ollula  
Sylvisorex\_oriundus  
Sylvisorex\_vulcanorum  
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Syncerus\_caffer  
Syntheosciurus\_brochus  
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Tachyoryctes\_annectens  
Tachyoryctes\_audax  
Tachyoryctes\_daemon  
Tachyoryctes\_macrocephalus  
Tachyoryctes\_naivashae  
Tachyoryctes\_rex  
Tachyoryctes\_ruandae  
Tachyoryctes\_ruddi  
Tachyoryctes\_spalacinus  
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Taeromys\_hamatus

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Talpa\_caeca  
Talpa\_caucasica  
Talpa\_europaea  
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Talpa\_occidentalis  
Talpa\_romana  
Talpa\_stankovici  
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Tamandua\_tetradactyla  
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Tamias\_amoenus  
Tamias\_bulleri  
Tamias\_canipes  
Tamias\_cinereicollis  
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Tamias\_durangae  
Tamias\_merriami  
Tamias\_minimus  
Tamias\_obscurus  
Tamias\_ochrogenys  
Tamias\_palmeri  
Tamias\_panamintinus  
Tamias\_quadrivittatus  
Tamias\_ruficaudus  
Tamias\_rufus  
Tamias\_senex  
Tamias\_sibiricus  
Tamias\_siskiyou  
Tamias\_sonomae  
Tamias\_speciosus  
Tamias\_striatus  
Tamias\_townsendii  
Tamias\_umbrinus  
Tamiasciurus\_douglasii  
Tamiasciurus\_hudsonicus  
Tamiasciurus\_mearnsi  
Tamiops\_macclellandi  
Tamiops\_maritimus  
Tamiops\_rodolphei  
Tamiops\_swinhoei  
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Taphozous\_hamiltoni  
Taphozous\_hildegardeae  
Taphozous\_hilli  
Taphozous\_kapalgensis  
Taphozous\_longimanus  
Taphozous\_mauritianus  
Taphozous\_melanopogon  
Taphozous\_nudiventris  
Taphozous\_perforatus  
Taphozous\_philippinensis  
Taphozous\_theobaldi  
Tapirus\_bairdii  
Tapirus\_indicus

Tapirus\_pinchaque  
Tapirus\_terrestris  
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Tarsius\_dianae  
Tarsius\_pumilus  
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Tateomys\_rhinogradoides  
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Tatera\_boehmi  
Tatera\_brantsii  
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Tatera\_inclusa  
Tatera\_indica  
Tatera\_kempi  
Tatera\_leucogaster  
Tatera\_nigricauda  
Tatera\_phillipsi  
Tatera\_robusta  
Tatera\_valida  
Taterillus\_arearius  
Taterillus\_congicus  
Taterillus\_emini  
Taterillus\_gracilis  
Taterillus\_harringtoni  
Taterillus\_lacustris  
Taterillus\_petteri  
Taterillus\_pygargus  
Taurotragus\_derbianus  
Taurotragus\_oryx  
Taxidea\_taxus  
Tayassu\_pecari  
Tenrec\_ecaudatus  
Tetracerus\_quadricornis  
Thallomys\_loringi  
Thallomys\_nigricauda  
Thallomys\_paedulcus  
Thallomys\_shortridgei  
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Thalpomys\_lasiotis  
Thamnomys\_kempi  
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Theropithecus\_gelada  
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Thomasomys\_baeops  
Thomasomys\_bombycinus  
Thomasomys\_cinereiventer  
Thomasomys\_cinereus  
Thomasomys\_daphne  
Thomasomys\_eleusis  
Thomasomys\_gracilis  
Thomasomys\_hylophilus  
Thomasomys\_incanus  
Thomasomys\_ischyurus  
Thomasomys\_kalinowskii  
Thomasomys\_ladewi

Thomasomys\_laniger  
Thomasomys\_monochromos  
Thomasomys\_niveipes  
Thomasomys\_notatus  
Thomasomys\_oreas  
Thomasomys\_paramorum  
Thomasomys\_pyrrhonotus  
Thomasomys\_rhoadsi  
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Thomasomys\_silvestris  
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Thomomys\_bulbivorus  
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Thomomys\_monticola  
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Thrictomys\_apereoides  
Thryonomys\_gregorianus  
Thryonomys\_swinderianus  
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Thylamys\_macrura  
Thylamys\_pallidior  
Thylamys\_pusilla  
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Thylogale\_brunii  
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Thylogale\_thetais  
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Tokudaia\_osimensis  
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Tolypeutes\_tricinctus  
Tomopeas\_ravus  
Tonatia\_bidens  
Tonatia\_brasiliense  
Tonatia\_carrikeri  
Tonatia\_evotis  
Tonatia\_schulzi  
Tonatia\_silvicola  
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Trachypithecus\_cristatus  
Trachypithecus\_francoisi  
Trachypithecus\_geei  
Trachypithecus\_johnii  
Trachypithecus\_obscurus  
Trachypithecus\_phayrei  
Trachypithecus\_pileatus  
Trachypithecus\_vetus  
Tragelaphus\_angasii  
Tragelaphus\_buxtoni  
Tragelaphus\_eurycerus  
Tragelaphus\_imberbis  
Tragelaphus\_scriptus  
Tragelaphus\_spekii

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*Tragulus\_napu*  
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*Triaenops\_furculus*  
*Triaenops\_persicus*  
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*Trichechus\_manatus*  
*Trichechus\_senegalensis*  
*Trichosurus\_arnhemensis*  
*Trichosurus\_caninus*  
*Trichosurus\_vulpecula*  
*Trichys\_fasciculata*  
*Trogopterus\_xanthipes*  
*Tryphomys\_adustus*  
*Tscherskia\_triton*  
*Tupaia\_belangeri*  
*Tupaia\_chrysogaster*  
*Tupaia\_dorsalis*  
*Tupaia\_glis*  
*Tupaia\_gracilis*  
*Tupaia\_javanica*  
*Tupaia\_longipes*  
*Tupaia\_minor*  
*Tupaia\_montana*  
*Tupaia\_nicobarica*  
*Tupaia\_palawanensis*  
*Tupaia\_picta*  
*Tupaia\_splendidula*  
*Tupaia\_tana*  
*Tursiops\_truncatus*  
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*Tylomys\_tumbalensis*  
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*Tylonycteris\_robustula*  
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*Typhlomys\_chapensis*  
*Typhlomys\_cinereus*  
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*Urocyon\_littoralis*  
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*Uroderma\_magnirostrum*  
*Urogale\_everetti*  
*Uromys\_anak*  
*Uromys\_caudimaculatus*  
*Uromys\_hadrourus*  
*Uromys\_neobritanicus*  
*Uromys\_rex*  
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*Uropsilus\_gracilis*  
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*Uropsilus\_soricipes*  
*Urotrichus\_pilirostris*

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*Ursus\_arctos*  
*Ursus\_maritimus*  
*Ursus\_thibetanus*  
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*Vampyressa\_brocki*  
*Vampyressa\_melissa*  
*Vampyressa\_nymphaea*  
*Vampyressa\_pusilla*  
*Vampyrodes\_caraccioli*  
*Vampyrum\_spectrum*  
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*Vandeleuria\_oleracea*  
*Varecia\_variegata*  
*Vernaya\_fulva*  
*Vespertilio\_murinus*  
*Vespertilio\_superans*  
*Vicugna\_vicugna*  
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*Viverra\_megaspila*  
*Viverra\_tangalunga*  
*Viverra\_zibetha*  
*Viverricula\_indica*  
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*Volemys\_musseri*  
*Vombatus\_ursinus*  
*Vormela\_peregrusna*  
*Vulpes\_bengalensis*  
*Vulpes\_cana*  
*Vulpes\_chama*  
*Vulpes\_corsac*  
*Vulpes\_ferrilata*  
*Vulpes\_pallida*  
*Vulpes\_rueppellii*  
*Vulpes\_velox*  
*Vulpes\_vulpes*  
*Vulpes\_zerda*  
*Wallabia\_bicolor*  
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*Wilfredomys\_oenax*  
*Wilfredomys\_pictipes*  
*Wyulda\_squamicaudata*  
*Xenomys\_nelsoni*  
*Xenuromys\_barbatus*  
*Xeromys\_myoides*  
*Xerus\_erythropus*  
*Xerus\_inauris*  
*Xerus\_princeps*  
*Xerus\_rutilus*  
*Zaedyus\_pichiy*  
*Zaglossus\_bruijni*  
*Zalophus\_californianus*  
*Zapus\_hudsonius*  
*Zapus\_princeps*  
*Zapus\_trinotatus*  
*Zelotomys\_hildegardeae*  
*Zelotomys\_woosnami*

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Zenkerella_insignis
Ziphius_cavirostris
Zygodontomys_brevicauda
Zygodontomys_brunneus
Zygogeomys_trichopus
Zyzomys_argurus
Zyzomys_maini
Zyzomys_palatilis
Zyzomys_pedunculatus
Zyzomys_woodwardi
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,(Coccymys_albidens:4.7,Coccymys_ruemmleri:4.7)'45_Coccymys':21.8,Crossomys_m
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Bunomys\_penitus:14.3, Bunomys\_prolatus:14.3) '79\_Murinae11\*\_Bunomys':14.8, Chiromyscus\_chiropus:29.1, ((Chiropodomys\_calamianensis:10.8, Chiropodomys\_gliroides:10.8, Chiropodomys\_karlkopmani:10.8, Chiropodomys\_major:10.8, Chiropodomys\_muroides:10.8, Chiropodomys\_pusillus:10.8) '82\_Chiropodomys':3.3, (Hapalomys\_delacouri:4.2, Hapalomys\_longicaudatus:4.2) '83\_Hapalomys':9.9) '81':3.5, (Haeromys\_margarettae:7.4, Haeromys\_minahassae:7.4, Haeromys\_pusillus:7.4) '84\_Haeromys':10.2) '80\_Murinae12\*':11.5, Colomys\_goslingi:29.1, ((Conilurus\_penicillatus:8.4, Leporillus\_conditor:8.4, (Mesembriomys\_gouldii:3.6, Mesembriomys\_macrurus:3.6) '88\_Mesembriomys':4.8) '87':15.7, ((Melomys\_aerosus:15.7, Melomys\_bougainville:15.7, Melomys Burtoni:15.7, Melomys\_capensis:15.7, Melomys\_cervinipes:15.7, Melomys\_fellowsi:15.7, Melomys\_fraterculus:15.7, Melomys\_gracilis:15.7, Melomys\_lanosus:15.7, Melomys\_leucogaster:15.7, Melomys\_levipes:15.7, Melomys\_lorentzii:15.7, Melomys\_mollis:15.7, Melomys\_moncktoni:15.7, Melomys\_obiensis:15.7, Melomys\_platyops:15.7, Melomys\_rattoides:15.7, Melomys\_rubex:15.7, Melomys\_rubicola:15.7, Melomys\_rufescens:15.7, Melomys\_spechti:15.7) '90\_Melomys':4.0, (Uromys\_anak:8.3, Uromys\_caudimaculatus:8.3, Uromys\_hadrourus:8.3, Uromys\_neobritanicus:8.3, Uromys\_rex:8.3) '91\_Uromys':11.4) '89':4.4, (Zyzomys\_agurus:9.7, Zyzomys\_maini:9.7, Zyzomys\_palatilis:9.7, Zyzomys\_pedunculatus:9.7, Zyzomys\_woodwardi:9.7) '92\_Zyzomys':14.4) '86':4.8, (Leggadina\_forresti:4.7, Leggadina\_lakedownensis:4.7) '93\_Leggadina':24.2, (Notomys\_alexis:10.9, Notomys\_aquilo:10.9, Notomys\_cervinus:10.9, Notomys\_fuscus:10.9, Notomys\_mitchellii:10.9) '94\_Notomys':18.0, (Pseudomys\_albocinereus:21.5, Pseudomys\_apodemoides:21.5, Pseudomys\_australis:21.5, Pseudomys\_bolami:21.5, Pseudomys\_chapmani:21.5, Pseudomys\_delicatulus:21.5, Pseudomys\_desertor:21.5, Pseudomys\_fieldi:21.5, Pseudomys\_fumeus:21.5, Pseudomys\_fuscus:21.5, Pseudomys\_glaucus:21.5, Pseudomys\_gracilicaudatus:21

.5, *Pseudomys\_hermannsburgensis*:21.5, *Pseudomys\_higginsi*:21.5, *Pseudomys\_johnsoni*:21.5, *Pseudomys\_laborifex*:21.5, *Pseudomys\_nanus*:21.5, *Pseudomys\_novaehollandiae*:21.5, *Pseudomys\_occidentalis*:21.5, *Pseudomys\_oralis*:21.5, *Pseudomys\_patrius*:21.5, *Pseudomys\_pilligaensis*:21.5, *Pseudomys\_praeconis*:21.5, *Pseudomys\_shortridgei*:21.5) '95 *Pseudomys'*:7.4) '85 *Murinae13\**:0.2, ((*Cremnomys\_blanfordi*:7.4, *Cremnomys\_cutchicus*:7.4, *Cremnomys\_elvira*:7.4) '97 *Cremnomys'*:6.9, (*Millardia\_gleadowi*:9.4, *Millardia\_kathleenae*:9.4, *Millardia\_kondana*:9.4, *Millardia\_meltada*:9.4) '98 *Millardia'*:4.9) '96 *Murinae14\**:14.8, *Dacnomys\_millardi*:29.1, (*Dasymys\_foxi*:6.5, *Dasymys\_incomtus*:6.5, *Dasymys\_montanus*:6.5, *Dasymys\_nudipes*:6.5, *Dasymys\_rufulus*:6.5) '99 *Murinae15\** *Dasymys'*:22.6, ((*Dephomys\_defua*:4.2, *Dephomys\_eburnea*:4.2) '102 *Dephomys'*:9.9, (*Hybomys\_basili*i:10.8, *Hybomys\_eisentrauti*:10.8, *Hybomys\_lunaris*:10.8, *Hybomys\_planifrons*:10.8, *Hybomys\_trivirgatus*:10.8, *Hybomys\_univittatus*:10.8) '103 *Hybomys'*:3.3) '101':5.3, ((*Hydromys\_chrysogaster*:9.7, *Hydromys\_habberema*:9.7, *Hydromys\_hussoni*:9.7, *Hydromys\_neobrittanicus*:9.7, *Hydromys\_shawmayeri*:9.7) '105 *Hydromys'*:2.4, *Xeromys\_myoides*:12.1) '104':7.3) '100 *Murinae16\**:9.7, *Desmomys\_harringtoni*:29.1, *Diomys\_crumpi*:29.1, *Diplothrix\_legatus*:29.1, (*Echithrix\_leucura*:14.3, (*Margaretamys\_beccarii*:7.4, *Margaretamys\_elegans*:7.4, *Margaretamys\_parvus*:7.4) '107 *Margaretamys'*:6.9, (*Melasmotherix\_naso*:7.4, (*Tateomys\_macrocerus*:4.2, *Tateomys\_rhinogradoides*:4.2) '109 *Tateomys'*:3.2) '108':6.9) '106 *Murinae17\**:14.8, (*Eropeplus\_canus*:5.1, *Lenomys\_meyeri*:5.1) '110 *Murinae18\**:24.0, *Golunda\_elliotti*:29.1, ((*Grammomys\_aridulus*:16.3, *Grammomys\_buntingi*:16.3, *Grammomys\_caniceps*:16.3, *Grammomys\_cometes*:16.3, *Grammomys\_dolichurus*:16.3, *Grammomys\_dryas*:16.3, *Grammomys\_gigas*:16.3, *Grammomys\_ibeanus*:16.3, *Grammomys\_macmillani*:16.3, *Grammomys\_minnae*:16.3, *Grammomys\_rutilans*:16.3) '112 *Grammomys'*:3.6, (*Thallomys\_loringi*:9.4, *Thallomys\_nigricauda*:9.4, *Thallomys\_paedulcus*:9.4, *Thallomys\_shortridgei*:9.4) '113 *Thallomys'*:10.5) '111 *Murinae19\**:9.2, *Hadromys\_humei*:29.1, *Heimyscuscumosus*:29.1, (*Hylomyscus\_aeta*:5.1, *Hylomyscus\_alleni*:5.1, *Hylomyscus\_baeri*:5.1, *Hylomyscus\_carillus*:5.1, *Hylomyscus\_denniae*:5.1, *Hylomyscus\_parvus*:5.1, *Hylomyscus\_stella*:5.1) '114 *Murinae20\** *Hylomyscus'*:24.0, *Kadarsanomys\_sodyi*:29.1, (*Komodomys\_rintjanus*:5.1, *Papagomys\_armandvillei*:5.1) '115 *Murinae21\**:24.0, (*Lamottemys\_okuensis*:11.8, (*Oenomys\_hypoxanthus*:4.7, *Oenomys\_ornatus*:4.7) '117 *Oenomys'*:7.1, (*Thamnomys\_kempi*:4.7, *Thamnomys\_venustus*:4.7) '118 *Thamnomys'*:7.1) '116 *Murinae22\**:17.3, (*Lemniscomys\_barbarus*:13.5, *Lemniscomys\_bellieri*:13.5, *Lemniscomys\_griselda*:13.5, *Lemniscomys\_hoogstraali*:13.5, *Lemniscomys\_linulus*:13.5, *Lemniscomys\_macculus*:13.5, *Lemniscomys\_mittendorfi*:13.5, *Lemniscomys\_rosalia*:13.5, *Lemniscomys\_roseveari*:13.5, *Lemniscomys\_striatus*:13.5) '119 *Murinae23\** *Lemniscomys'*:15.6, *Lenothrix\_canus*:29.1, (*Leopoldamys\_edwardsi*:10.2, *Leopoldamys\_neilli*:10.2, *Leopoldamys\_sabanus*:10.2, *Leopoldamys\_siporanus*:10.2) '120 *Murinae24\** *Leopoldamys'*:18.9, (*Malacomys\_cansdalei*:11.8, *Malacomys\_edwardsi*:11.8, *Malacomys\_longipes*:11.8, *Malacomys\_lukolelae*:11.8, *Malacomys-verschurenii*:11.8) '121 *Murinae25\** *Malacomys'*:17.3, (*Mastomys\_angolensis*:14.7, *Mastomys\_coucha*:14.7, *Mastomys\_erythroleucus*:14.7, *Mastomys\_hildebrandtii*:14.7, *Mastomys\_natalensis*:14.7, *Mastomys\_pernanus*:14.7, *Mastomys\_shortridgei*:14.7, *Mastomys\_verheyeni*:14.7) '122 *Murinae26\** *Mastomys'*:14.4, (*Maxomys\_alticola*:20.8, *Maxomys\_baeodon*:20.8, *Maxomys\_bartelsii*:20.8, *Maxomys\_dollmani*:20.8, *Maxomys\_hellwaldii*:20.8, *Maxomys\_hylomyoides*:20.8, *Maxomys\_inas*:20.8, *Maxomys\_inflatus*:20.8, *Maxomys\_moi*:20.8, *Maxomys\_musschenbroekii*:20.8, *Maxomys\_ochraceiventer*:20.8, *Maxomys\_pagensis*:20.8, *Maxomys\_panglima*:20.8, *Maxomys\_rajab*:20.8, *Maxomys\_surifer*:20.8, *Maxomys\_wattsi*:20.8, *Maxomys\_whiteheadi*:20.8) '123 *Murinae27\** *Maxomys'*:8.3, *Micromys\_minutus*:29.1, *Muriculus\_imberbis*:29.1, ((*Mus\_crociduroides*:11.2, *Mus\_famulus*:11.2, *Mus\_mayori*:11.2, *Mus\_pahari*:11.2, *Mus\_vulcani*:11.2) '125':2.6, (*Mus\_booduga*:4.4, *Mus\_caroli*:4.4, *Mus\_cervicolor*:4.4, *Mus\_cookiei*:4.4, *Mus\_macedonicus*:4.4, *Mus\_musculus*:4.4, *Mus\_spicilegus*:4.4, *Mus\_spretus*:4.4, *Mus\_terricolor*:4.4) '126':9.4, (*Mus\_baoulei*:7.6, *Mus\_bufo*:7.6, *Mus\_callewaerti*:7.6, *Mus\_goundae*:7.6, *Mus\_haussa*:7.6, *Mus\_indutus*:7.6, *Mus\_kasai*cus):7.6, *Mus\_mahomet*:7.6, *Mus\_mattheyi*:7.6, *Mus\_minutoides*:7.6, *Mus\_musculoides*:7.6, *Mus\_neavei*:7.6, *Mus\_orangiae*:7.6, *Mus\_oubanguii*:7.6, *Mus\_setulosus*:7.6, *Mus\_setzeri*:7.6, *Mus\_sorella*:7.6, *Mus\_tenellus*:7.6, *Mus\_triton*:7.6) '127':6.2, (*Mus\_fernandoni*:0.3, *Mus\_phillipsi*:0.3, *Mus\_platythrix*:0.3, *Mus\_saxicola*:0.3, *Mus\_shortridgei*:0.3) '128':13.5) '124 *Murinae28\** *Mus'*:15.3, (*Mylomys\_dybowskii*:23.9, (*Pelomys\_campanae*:23.7, *Pelomys\_fallax*:23.7, *Pelomys\_hopkinsi*:23.7, *Pelomys\_isseli*:23.7,

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Rattus\_tanezumi:5.6, Rattus\_tawitawieensis:5.6, Rattus\_tiomanicus:5.6, Rattus\_turkestanicus:5.6)'147':4.2, Rattus\_norvegicus:9.8, (Rattus\_bontanus:9.6, Rattus\_foramineus:9.6, Rattus\_marmosurus:9.6, Rattus\_pelurus:9.6, Rattus\_xanthurus:9.6)'148':0.2)'144\_Murinae38\*'\_Rattus':19.3, Rhabdomys\_pumilio:29.1, Srilankamys\_ohiensis:29.1, (Stenomys\_ceramicus:11.8, Stenomys\_niobe:11.8, Stenomys\_richardsoni:11.8, Stenomys\_vandeuseni:11.8, Stenomys\_verecundus:11.8)'149\_Murinae39\*'\_Stenomys':17.3, Stochomys\_longicaudatus:29.1, (Sundamys\_infraluteus:8.1, Sundamys\_maxi:8.1, Sundamys\_muelleri:8.1)'150\_Murinae40\*'\_Sundamys':21.0, (Taeromys\_arcuatus:13.1, Taeromys\_callitrichus:13.1, Taeromys\_celebensis:13.1, Taeromys\_hamatus:13.1, Taeromys\_punicans:13.1, Taeromys\_taerae:13.1)'151\_Murinae41\*'\_Taeromys':16.0, (Vandeleuria\_nolthenii:5.1, Vandeleuria\_oleracea:5.1)'152\_Murinae42\*'\_Vandeleuria':24.0, Vernaya\_fulva:29.1, (Zelotomys\_hildegardeae:5.1, Zelotomys\_woosnami:5.1)'153\_Murinae43\*'\_Zelotomys':24.0)'34':19.0, (((Abrawayaomys\_ruschii:16.1, (Aepeomys\_fuscatus:2.9, Aepeomys\_lugens:2.9)'159\_Aepeomys':9.9, (Thomasomys\_aureus:6.4, Thomasomys\_baeops:6.4, Thomasomys\_bombycinus:6.4, Thomasomys\_cinereiventer:6.4, Thomasomys\_cinereus:6.4, Thomasomys\_daphne:6.4, Thomasomys\_eleusis:6.4, Thomasomys\_gracilis:6.4, Thomasomys\_hylop hilus:6.4, Thomasomys\_incanus:6.4, Thomasomys\_ischyurus:6.4, Thomasomys\_kalinowskii:6.4, Thomasomys\_ladewi:6.4, Thomasomys\_laniger:6.4, Thomasomys\_monochromos:6.4, Thomasomys\_niveipes:6.4, Thomasomys\_notatus:6.4, Thomasomys\_oreas:6.4, Thomasomys\_paramorum:6.4, Thomasomys\_pyrrhonotus:6.4, Thomasomys\_rhoadsi:6.4, Thomasomys\_rosalinda:6.4, Thomasomys\_silvestris:6.4, Thomasomys\_taczanowskii:6.4, Thomasomys\_vestitus:6.4)'160\_Thomasomys':6.4)'158':3.3, ((Akodon\_lanosus:4.3, Akodon\_longipilis:4.3, Akodon\_mansoensis:4.3, Akodon\_sanborni:4.3)'163':4.5, Akodon\_he shkovitzii:8.8, Akodon\_illuteus:8.8, (Akodon\_affinis:5.3, Akodon\_albiventer:5.3,

Akodon\_azarae:5.3, Akodon\_cursor:5.3, Akodon\_fumeus:5.3, Akodon\_iniscatus:5.3, Akodon\_kofordi:5.3, Akodon\_lindberghi:5.3, Akodon\_markhami:5.3, Akodon\_mollis:5.3, Akodon\_olivaceus:5.3, Akodon\_ophilus:5.3, Akodon\_puer:5.3, Akodon\_sanctipaulensis:5.3, Akodon\_serrensis:5.3, Akodon\_spegazzinii:5.3, Akodon\_subfuscus:5.3, Akodon\_surdus:5.3, Akodon\_sylvanus:5.3, Akodon\_torques:5.3, Akodon\_urichi:5.3, (Akodon\_boliviensis:2.1, Akodon\_juninensis:2.1) '165':3.2, (Akodon\_dayi:1.6, Akodon\_dolores:1.6, Akodon\_molinae:1.6, Akodon\_neocenus:1.6, Akodon\_simulator:1.6, Akodon\_toba:1.6, Akodon\_varius:1.6) '166':3.7) '164':3.5, Akodon\_xanthorhinus:8.8, Akodon\_aerosus:8.8, Akodon\_kempi:8.8, (Akodon\_budini:2.2, Akodon\_siberiae:2.2) '167':6.6, (Akodon\_bogotensis:3.4, Akodon\_latebricola:3.4, Akodon\_mimus:3.4) '168':5.4, Akodon\_nigrata:8.8) '162\_Akodon':6.5, (Chroeomys\_andinus:2.9, Chroeomys\_jelskii:2.9) '169\_Chroeomys':12.4) '161':0.8, ((Andalgalomys\_olrogi:2.4, Andalgalomys\_pearsoni:2.4) '172\_Andalgalomys':7.0, ((Auliscomys\_boliviensis:8.4, Auliscomys\_micropus:8.4, Auliscomys\_pictus:8.4, Auliscomys\_sublimis:8.4) '174\_Auliscomys':0.8, (Phyllotis\_amicus:8.3, Phyllotis\_andium:8.3, Phyllotis\_bonaeriensis:8.3, Phyllotis\_caprinus:8.3, Phyllotis\_darwini:8.3, Phyllotis\_definitus:8.3, Phyllotis\_gerbillus:8.3, Phyllotis\_haggardi:8.3, Phyllotis\_magister:8.3, Phyllotis osgoodi:8.3, Phyllotis\_osilae:8.3, Phyllotis\_wolffsohni:8.3, Phyllotis\_xanthopygus:8.3) '175\_Phyllostis':0.9) '173':0.2) '171':1.0, (Graomys\_domorum:4.3, Graomys\_edithae:4.3, Graomys\_griseoflavus:4.3) '176\_Graomys':6.1) '170':5.7, Andinomys\_edax:16.1, ((Bibimys\_chacoensis:0.2, Bibimys\_labiosus:0.2, Bibimys\_torresi:0.2) '179\_Bibimys':9.9, (Kunsia\_fronto:3.6, Kunsia\_tomentosus:3.6) '180\_Kunsia':6.5) '178':0.7, Scapteromys\_tumidus:10.8) '177':5.3, Blarinomys\_breviceps:16.1, (Bolomys\_amoenus:4.0, Bolomys\_lactens:4.0, Bolomys\_lasiurus:4.0, Bolomys\_obscurus:4.0, Bolomys\_punctulatus:4.0, Bolomys\_temchuki:4.0) '181\_Bolomys':12.1, (Calomys\_boliviae:8.3, Calomys\_callidus:8.3, Calomys\_callosus:8.3, Calomys\_hummelincki:8.3, Calomys\_laucha:8.3, Calomys\_lepidus:8.3, Calomys\_musculinus:8.3, Calomys\_sorellus:8.3, Calomys\_tener:8.3) '182\_Calomys':7.8, (Chelemys\_macronyx:3.1, Chelemys\_megalonyx:3.1) '183\_Chelemys':13.0, Chilomys\_instans:16.1, Chinchillula\_sahamae:16.1, (Delomys\_dorsalis:6.2, Delomys\_sublineatus:6.2) '184\_Delomys':9.9, (Eligmodontia\_moreni:4.7, Eligmodontia\_morgani:4.7, Eligmodontia\_puerulus:4.7, Eligmodontia\_typus:4.7) '185\_Eligmodontia':11.4, (Euneomys\_chinchilloides:6.3, Euneomys\_fossor:6.3, Euneomys\_mordax:6.3, Euneomys\_petersoni:6.3) '186\_Euneomys':9.8, Galenomys\_garleppi:16.1, Geoxus\_valdivianus:16.1, ((Holochilus\_brasiliensis:0.2, Holochilus\_chacarius:0.2, Holochilus\_magnus:0.2, Holochilus\_sciureus:0.2) '188\_Holochilus':3.4, Pseudoryzomys\_simplex:3.6) '187':12.5, Irenomys\_tarsalis:16.1, (Juscelinomys\_candango:3.1, Juscelinomys\_talpinus:3.1) '189\_Juscelinomys':13.0, Lenoxus\_apicalis:16.1, (Melanomys\_caliginosus:5.0, Melanomys\_robustulus:5.0, Melanomys\_zunigae:5.0) '190\_Melanomys':11.1, (Microryzomys\_altissimus:3.1, Microryzomys\_minutus:3.1) '191\_Microryzomys':13.0, (Neacomys\_guianae:6.3, Neacomys\_pictus:6.3, Neacomys\_spinosus:6.3, Neacomys\_tenuipes:6.3) '192\_Neacomys':9.8, (Nectomys\_palmipes:5.0, Nectomys\_parvipes:5.0, Nectomys\_squamipes:5.0) '193\_Nectomys':11.1, Neotomys\_ebriosus:16.1, (Nesoryzomys\_fernandinae:1.9, Nesoryzomys\_indefessus:1.9, Nesoryzomys\_swarthi:1.9) '194\_Nesoryzomys':14.2, Notiomys\_edwardsii:16.1, (Oecomys\_bicolor:4.2, Oecomys\_ceberi:4.2, Oecomys\_concolor:4.2, Oecomys\_flavicans:4.2, Oecomys\_mamorae:4.2, Oecomys\_paricola:4.2, Oecomys\_phaeotis:4.2, Oecomys\_rex:4.2, Oecomys\_roberti:4.2, Oecomys\_rutilus:4.2, Oecomys\_speciosus:4.2, Oecomys\_superans:4.2, Oecomys\_trinitatis:4.2) '195\_Oecomys':11.9, (Oligoryzomys\_andinus:4.9, Oligoryzomys\_arenalis:4.9, Oligoryzomys\_chacoensis:4.9, Oligoryzomys\_delticola:4.9, Oligoryzomys\_destructo:4.9, Oligoryzomys\_eliu:4.9, Oligoryzomys\_flavescens:4.9, Oligoryzomys\_fulvescens:4.9, Oligoryzomys\_griseolus:4.9, Oligoryzomys\_longicaudatus:4.9, Oligoryzomys\_magellanicus:4.9, Oligoryzomys\_microtis:4.9, Oligoryzomys\_nigripes:4.9, Oligoryzomys\_vegetus:4.9, Oligoryzomys\_victus:4.9) '196\_Oligoryzomys':11.2, (Oryzomys\_albigularis:7.5, Oryzomys\_alfaroi:7.5, Oryzomys\_auriventer:7.5, Oryzomys\_balneator:7.5, Oryzomys\_bolivaris:7.5, Oryzomys\_buccinatus:7.5, Oryzomys\_capito:7.5, Oryzomys\_chapmani:7.5, Oryzomys\_couesi:7.5, Oryzomys\_devius:7.5, Oryzomys\_dimidiatus:7.5, Oryzomys\_galapagoensis:7.5, Oryzomys\_gorgasi:7.5, Oryzomys\_hammondi:7.5, Oryzomys\_inectus:7.5, Oryzomys\_intermedius:7.5, Oryzomys\_keaysi:7.5, Oryzomys\_kelloggi:7.5, Oryzomys\_lamia:7.5, Oryzomys\_legatus:7.5, Oryzomys\_levipes:7.5, Oryzomys\_macconnelli:7.5, Oryzomys\_melanotis:7.5, Oryzomys\_nitidus:7.5, Oryzomys\_on

iscus:7.5,Oryzomys\_palustris:7.5,Oryzomys\_polius:7.5,Oryzomys\_ratticeps:7.5,Oryzomys\_rhabdops:7.5,Oryzomys\_rostratus:7.5,Oryzomys\_saturator:7.5,Oryzomys\_subflavus:7.5,Oryzomys\_talamancae:7.5,Oryzomys\_xantheolus:7.5,Oryzomys\_yunganus:7.5)'197\_Oryzomys':8.6,(Oxymycterus\_akodontius:6.8,Oxymycterus\_angularis:6.8,Oxymycterus\_delator:6.8,Oxymycterus\_hiska:6.8,Oxymycterus\_hispidus:6.8,Oxymycterus\_hucucha:6.8,Oxymycterus\_iheringi:6.8,Oxymycterus\_inca:6.8,Oxymycterus\_nasutus:6.8,Oxymycterus\_paramensis:6.8,Oxymycterus\_roberti:6.8,Oxymycterus\_rufus:6.8)'198\_Oxymycterus':9.3,Phaenomys\_ferrugineus:16.1,Podoxymys\_roraimae:16.1,Punomys\_leminius:16.1,Reithrodon\_auritus:16.1,Rhagomys\_rufescens:16.1,(Rhipidomys\_austrinus:8.2,Rhipidomys\_caucensis:8.2,Rhipidomys\_couesi:8.2,Rhipidomys\_fulviventer:8.2,Rhipidomys\_latimanus:8.2,Rhipidomys\_leucodactylus:8.2,Rhipidomys\_macconnelli:8.2,Rhipidomys\_mastacalis:8.2,Rhipidomys\_nitela:8.2,Rhipidomys\_ochrogaster:8.2,Rhipidomys\_scandens:8.2,Rhipidomys\_venezuelae:8.2,Rhipidomys\_venustus:8.2,Rhipidomys\_wetzeli:8.2)'199\_Rhipidomys':7.9,(Scolomys\_melanops:5.8,Scolomys\_ucayalensis:5.8)'200\_Scolomys':10.3,(Sigmodontomys\_alfari:3.1,Sigmodontomys\_aphrastus:3.1)'201\_Sigmodontomys':13.0,(Thalpomys\_cerradensis:3.1,Thalpomys\_lasiotis:3.1)'202\_Thalpomys':13.0,Wiedomys\_pyrrhorhinus:16.1,(Wilfredomys\_oenax:3.1,Wilfredomys\_pictipes:3.1)'203\_Wilfredomys':13.0,(Zygodontomys\_brevicauda:3.1,Zygodontomys\_brunneus:3.1)'204\_Zygodontomys':13.0)'157':6.7,((Anatomys\_leander:14.9,Chibchanomys\_trichotis:14.9,(Ichthyomys\_hydrobates:7.5,Ichthyomys\_pittieri:7.5,Ichthyomys\_stolzmanni:7.5,Ichthyomys\_tweediei:7.5)'207\_Ichthyomys':7.4,(Neusticomys\_monticolus:8.7,Neusticomys\_mussoi:8.7,Neusticomys\_oyapocki:8.7,Neusticomys\_peruviensis:8.7,Neusticomys\_venezuelae:8.7)'208\_Neusticomys':6.2,(Rheomys\_mexicanus:7.5,Rheomys\_raptor:7.5,Rheomys\_thomasi:7.5,Rheomys\_underwoodi:7.5)'209\_Rheomys':7.4)'206':3.7,(Sigmodon\_alleni:5.7,Sigmodon\_alstoni:5.7,Sigmodon\_arizonae:5.7,Sigmodon\_fulviventer:5.7,Sigmodon\_hispidus:5.7,Sigmodon\_inopinatus:5.7,Sigmodon\_leucotis:5.7,Sigmodon\_mascotensis:5.7,Sigmodon\_ochrognathus:5.7,Sigmodon\_peruanus:5.7)'210\_Sigmodon':12.9)'205':4.2)'156':12.1,((Nyctomys\_sumichrasti:5.8,Otonyctomys\_hatti:5.8)'212':21.2,(Ototylomys\_phyllotis:13.5,(Tylomys\_bullaris:13.3,Tylomys\_fulviventer:13.3,Tylomys\_mirae:13.3,Tylomys\_nudicaudus:13.3,Tylomys\_panamensis:13.3,Tylomys\_tumbalensis:13.3,Tylomys\_watsoni:13.3)'214\_Tylomys':0.2)'213':13.5)'211':7.9)'155':3.3,(((Baiomys\_musculus:11.7,Baiomys\_taylori:11.7)'219\_Baiomys':2.8,(Scotinomys\_tequina:2.4,Scotinomys\_xerampelinus:2.4)'220\_Scotinomys':12.1)'218':6.5,Ochrotomys\_nuttalli:21.0)'217':3.5,((((((Habromys\_chinanteco:10.3,Habromys\_lepturus:10.3,Habromys\_lophurus:10.3,Habromys\_simulatus:10.3)'228\_Habromys':3.0,Neotomodon\_alstoni:13.3,Podomys\_floridanus:13.3)'227':4.6,Osgoodomys\_banderaurus:17.9)'226':0.2,(Megadontomys\_cryophilus:6.3,Megadontomys\_nelsoni:6.3,Megadontomys\_thomasi:6.3)'229\_Megadontomys':11.8)'225':0.6,(Peromyscus\_attwateri:11.8,Peromyscus\_aztecus:11.8,Peromyscus\_boylisi:11.8,Peromyscus\_bullatus:11.8,Peromyscus\_californicus:11.8,Peromyscus\_caniceps:11.8,Peromyscus\_crinitus:11.8,Peromyscus\_dickeyi:11.8,Peromyscus\_difficilis:11.8,Peromyscus\_eremicus:11.8,Peromyscus\_eva:11.8,Peromyscus\_furvus:11.8,Peromyscus\_gossypinus:11.8,Peromyscus\_grandis:11.8,Peromyscus\_gratus:11.8,Peromyscus\_guardia:11.8,Peromyscus\_guatemalensis:11.8,Peromyscus\_gymnotis:11.8,Peromyscus\_hooperi:11.8,Peromyscus\_interparietalis:11.8,Peromyscus\_leucopus:11.8,Peromyscus\_levipes:11.8,Peromyscus\_madrensis:11.8,Peromyscus\_maniculatus:11.8,Peromyscus\_mayensis:11.8,Peromyscus\_megalops:11.8,Peromyscus\_mekisturus:11.8,Peromyscus\_melanocarpus:11.8,Peromyscus\_melanophrys:11.8,Peromyscus\_melanotis:11.8,Peromyscus\_melanurus:11.8,Peromyscus\_merriami:11.8,Peromyscus\_mexicanus:11.8,Peromyscus\_nasutus:11.8,Peromyscus\_ochraventer:11.8,Peromyscus\_oreas:11.8,Peromyscus\_pectoralis:11.8,Peromyscus\_perfulvus:11.8,Peromyscus\_polionotus:11.8,Peromyscus\_polius:11.8,Peromyscus\_pseudocrinitus:11.8,Peromyscus\_sejugis:11.8,Peromyscus\_simulus:11.8,Peromyscus\_sitkensis:11.8,Peromyscus\_slevini:11.8,Peromyscus\_spicilegus:11.8,Peromyscus\_stephani:11.8,Peromyscus\_stirtoni:11.8,Peromyscus\_truei:11.8,Peromyscus\_winkelmanni:11.8,Peromyscus\_yucatanicus:11.8,Peromyscus\_zarhynchus:11.8)'230\_Peromyscus':6.9)'224':1.5,(Onychomys\_arenicola:9.8,Onychomys\_leucogaster:9.8,Onychomys\_torridus:9.8)'231\_Onychomys':10.4)'223':0.2,(Isthmomys\_flavidus:3.6,Isthmomys\_pirrensis:3.6)'232\_Isthmomys':16.8)'222':1.6,((Reithrodontomys\_brevirostris:9.8,Reithrodontomys\_darienensis:9.8,Reithrodon

tomys\_gracilis:9.8, Reithrodontomys\_mexicanus:9.8, Reithrodontomys\_paradoxus:9.8, Reithrodontomys\_spectabilis:9.8) '235':1.5, (Reithrodontomys\_crepert:7.2, Reithrodontomys\_microdon:7.2, Reithrodontomys\_rodriguezi:7.2, Reithrodontomys\_tenuirostris:7.2) '236':4.1) '234':5.4, ((Reithrodontomys\_fulvescens:4.0, Reithrodontomys\_hirsutus:4.0) '238':11.3, (Reithrodontomys\_burti:11.1, Reithrodontomys\_chrysops:11.1, Reithrodontomys\_humulis:11.1, Reithrodontomys\_megalotis:11.1, Reithrodontomys\_montanus:11.1, Reithrodontomys\_raviventris:11.1, Reithrodontomys\_sumichrasti:11.1, Reithrodontomys\_zacatecae:11.1) '239':4.2) '237':1.4) '233\_Reithrodontomys':5.3) '221':2.5) '216':1.7, (((Hodomys\_alleni:13.4, Xenomys\_nelsoni:13.4) '242':5.2, ((Neotoma\_albigula:7.4, Neotoma\_angustapalata:7.4, Neotoma\_anthonyi:7.4, Neotoma\_bryanti:7.4, Neotoma\_bunkeri:7.4, Neotoma\_chrysomelas:7.4, Neotoma\_devia:7.4, Neotoma\_floridana:7.4, Neotoma\_goldmani:7.4, Neotoma\_lepida:7.4, Neotoma\_martinensis:7.4, Neotoma\_mexicana:7.4, Neotoma\_micropus:7.4, Neotoma\_nelsoni:7.4, Neotoma\_palatina:7.4, Neotoma\_stephensi:7.4, Neotoma\_varia:7.4) '244':8.1, Neotoma\_phenax:15.5, (Neotoma\_cinerea:13.9, Neotoma\_fuscipes:13.9) '245':1.6) '243\_Neotoma':3.1) '241':0.2, (Nelsonia\_goldmani:4.3, Nelsonia\_neotomodon:4.3) '246\_Nelsonia':14.5) '240':7.4) '215':12.0) '154\_Sigmodontinae':9.9, ((Allocricetulus\_curtatus:6.3, Allocricetulus\_eversmanni:6.3) '249\_Allocricetulus':3.9, Cricetus\_cricetus:10.2) '248':19.5, Cansumys\_canus:29.7, (Cricetulus\_italicola:16.7, Cricetulus\_barabensis:16.7, Cricetulus\_kamensis:16.7, Cricetulus\_longicaudatus:16.7, Cricetulus\_migratorius:16.7, Cricetulus\_sokolovi:16.7) '250\_Cricetulus':13.0, (Mesocricetus\_auratus:12.9, Mesocricetus\_brandti:12.9, Mesocricetus\_newtoni:12.9, Mesocricetus\_raddei:12.9) '251\_Mesocricetus':16.8, (Phodopus\_campbelli:0.1, Phodopus\_robورovskii:0.1, Phodopus\_sungorus:0.1) '252\_Phodopus':29.6, Tscherskia\_triton:29.7) '247\_Cricetinae':18.4, (((((Alticola\_albicauda:6.1, Alticola\_argentatus:6.1, Alticola\_barakshin:6.1, Alticola\_macrotis:6.1, Alticola\_montosa:6.1, Alticola\_roylei:6.1, Alticola\_semicanus:6.1, Alticola\_stoliczkanus:6.1, Alticola\_stracheyi:6.1, Alticola\_tuvinicus:6.1) '258':1.8, Alticola\_lemmminus:7.9, Alticola\_strelzowi:7.9) '257\_Alticola':0.9, (Clethrionomys\_californicus:4.7, Clethrionomys\_centeralis:4.7, Clethrionomys\_gapperi:4.7, Clethrionomys\_glareolus:4.7, Clethrionomys\_rufocanus:4.7, Clethrionomys\_rutilus:4.7, Clethrionomys\_sikotanensis:4.7) '259\_Clethrionomys':4.1, (Eothenomys\_chinensis:4.0, Eothenomys\_custos:4.0, Eothenomys\_eva:4.0, Eothenomys\_inez:4.0, Eothenomys\_melanogaster:4.0, Eothenomys.olitor:4.0, Eothenomys\_proditor:4.0, Eothenomys\_regulus:4.0, Eothenomys\_shanseius:4.0) '260\_Eothenomys':4.8, (Phaulomys\_andersoni:5.1, Phaulomys\_smithii:5.1) '261\_Phaulomys':3.7) '256':8.5, (Hyperacrius\_fertilis:3.7, Hyperacrius\_wynnei:3.7) '262\_Hyperacrius':13.6) '255':1.8, Dinaromys\_bogdanovi:19.1) '254':0.2, ((Arborimus\_albipes:2.2, Arborimus\_longicaudus:2.2, Arborimus\_pomo:2.2) '264\_Arborimus':2.3, (Phenacomys\_intermedius:3.5, Phenacomys\_ungava:3.5) '265\_Phenacomys':1.0) '263':14.8, (Arvicola\_sapidus:4.7, Arvicola\_terrestris:4.7) '266\_Arvicola':14.6, (Blanfordimys\_afghanus:4.7, Blanfordimys\_bucharicus:4.7) '267\_Blanfordimys':14.6, (Chionomys\_gud:9.3, Chionomys\_nivalis:9.3, Chionomys\_roberti:9.3) '268\_Chionomys':10.0, (Dicrostonyx\_exsul:5.0, Dicrostonyx\_groenlandicus:5.0, Dicrostonyx\_hudsonius:5.0, Dicrostonyx\_kilangmiutak:5.0, Dicrostonyx\_nelsoni:5.0, Dicrostonyx\_nunatakensis:5.0, Dicrostonyx\_richardsoni:5.0, Dicrostonyx\_rubricatus:5.0, Dicrostonyx\_torquatus:5.0, Dicrostonyx\_unalascensis:5.0, Dicrostonyx\_vinogradovi:5.0) '269\_Dicrostonyx':14.3, ((Ellobius\_alaicus:10.6, Ellobius\_fuscocapillus:10.6, Ellobius\_lutescens:10.6, Ellobius\_talpinus:10.6, Ellobius\_tancrei:10.6) '271\_Ellobius':1.6, Promethomys\_schaposhnikowi:12.2) '270':7.1, ((Eolagurus\_luteus:4.3, Eolagurus\_przewalskii:4.3) '273\_Eolagurus':3.2, Lagurus\_lagurus:7.5) '272':11.8, (Lasiopodomys\_brandtii:7.5, Lasiopodomys\_fuscus:7.5, Lasiopodomys\_mandarinus:7.5) '274\_Lasiopodomys':11.8, Lemmiscus\_curtatus:19.3, ((Lemmus\_amurensis:9.3, Lemmus\_lemmus:9.3, Lemmus\_sibiricus:9.3) '277\_Lemmus':2.1, Myopus\_schisticolor:11.4) '276':0.8, (Synaptomys\_borealis:4.4, Synaptomys\_cooperi:4.4) '278\_Synaptomys':7.8) '275':7.1, ((Microtus\_agrestis:8.0, Microtus\_cabrerae:8.0) '280':1.0, (Microtus\_fortis:6.4, Microtus\_hyperboreus:6.4, (Microtus\_evoronensis:4.1, Microtus\_maximowiczii:4.1, Microtus\_mujanensis:4.1) '282':2.3, (Microtus\_middendorffii:4.1, Microtus\_mongolicus:4.1, Microtus\_sachalinensis:4.1) '283':2.3) '281':2.6, (Microtus\_chrotorrhinus:7.5, (Microtus\_richardsoni:6.2, Microtus\_xanthognathus:6.2) '285':1.3) '284':1.5, Microtus\_guatemalensis:9.0, Microtus\_longicaudus:9.0, Microtus\_mexicanus:9.0, Mi

crotus\_oaxacensis:9.0, ((Microtus\_arvalis:3.9,Microtus\_kermanensis:3.9,Microtus\_kirgisorum:3.9,Microtus\_obscurus:3.9,Microtus\_rossiaeemeridionalis:3.9,Microtus\_transcaspicus:3.9)'287':1.9, (Microtus\_guentheri:1.7,Microtus\_irani:1.7,Microtus\_socialis:1.7)'288':4.1)'286':3.2, (Microtus\_californicus:6.8, (Microtus\_canicaudus:5.5,Microtus\_montanus:5.5)'290':1.3,Microtus\_oregoni:6.8, (Microtus\_breweri:5.6,Microtus\_pennsylvanicus:5.6,Microtus\_townsendii:5.6)'291':1.2)'289':2.2, (Microtus\_juldaschi:6.7,Microtus\_leucurus:6.7, (Microtus Irene:2.8,Microtus\_sikimensis:2.8)'293':3.9)'292':2.3,Microtus\_umbrosus:9.0, (Microtus\_limonophilus:5.7,Microtus\_montebelli:5.7,Microtus\_oconomus:5.7)'294':3.3,Microtus\_ochrogaster:9.0, (Microtus\_pinetorum:4.0,Microtus\_quasiater:4.0)'295':5.0, (Microtus\_abreviatus:8.0,Microtus\_gregalis:8.0,Microtus\_miurus:8.0)'296':1.0, (Microtus\_majori:6.0,Microtus\_multiplex:6.0,Microtus\_schelkovnikovi:6.0, (Microtus\_duodecimcostatus:4.3,Microtus\_lusitanicus:4.3,Microtus\_thomasi:4.3)'298':1.7, (Microtus\_felteni:5.6,Microtus\_gerbei:5.6,Microtus\_savii:5.6)'299':0.4, (Microtus\_bavaricus:5.4,Microtus\_daghestanicus:5.4,Microtus\_nasarovi:5.4,Microtus\_subterraneus:5.4,Microtus\_tatricus:5.4)'300':0.6)'297':3.0)'279\_Microtus':10.3, Neofiber\_alleni:19.3,Ondatra\_zibethicus:19.3,Proedromys\_bedfordi:19.3, (Volemys\_clarkei:9.5,Volemys\_kikuchii:9.5,Volemys\_millicens:9.5,Volemys\_musseri:9.5)'301\_Volemys':9.8)'253\_Arvicolinae':28.8, (Ammodillus\_imbellis:23.6, ((Brachionomys\_przewalskii:18.9, (Meriones\_hurrianae:14.5,Meriones\_tamariscinus:14.5, (Meriones\_arimalius:11.4,Meriones\_chengi:11.4,Meriones\_crassus:11.4,Meriones\_dahli:11.4,Meriones\_libycus:11.4,Meriones\_meridianus:11.4,Meriones\_sacramenti:11.4,Meriones\_shawi:11.4,Meriones\_tristrami:11.4,Meriones\_unguiculatus:11.4,Meriones\_vinogradovi:11.4,Meriones\_zarudnyi:11.4)'306':3.1, (Meriones\_persicus:3.3,Meriones\_rex:3.3)'307':11.2)'305\_Meriones':4.4, Sekeetamys\_calurus:18.9)'304':2.7, (Psammomys\_obesus:4.5,Psammomys\_vexillaris:4.5)'308\_Psammomys':17.1,Rhombomys\_opimus:21.6)'303':2.0,Desmodillus\_braueri:23.6,(Desmodillus\_auricularis:11.5,(Gerbillurus\_paeba:9.1,Gerbillurus\_setzeri:9.1,Gerbillurus\_tytonis:9.1,Gerbillurus\_vallinus:9.1)'310\_Gerbillurus':2.4)'309':12.1, ((Gerbillus\_acticola:23.2,Gerbillus\_agag:23.2,Gerbillus\_allenbyi:23.2,Gerbillus\_amoenus:23.2,Gerbillus\_andersoni:23.2,Gerbillus\_aquilus:23.2,Gerbillus\_bilensis:23.2,Gerbillus\_bonhotei:23.2,Gerbillus\_bottai:23.2,Gerbillus\_brockmani:23.2,Gerbillus\_burtoni:23.2,Gerbillus\_campestris:23.2,Gerbillus\_cheesmani:23.2,Gerbillus\_cosensi:23.2,Gerbillus\_dalloni:23.2,Gerbillus\_dasyurus:23.2,Gerbillus\_diminutus:23.2,Gerbillus\_dongolanus:23.2,Gerbillus\_dunni:23.2,Gerbillus\_famulus:23.2,Gerbillus\_floweri:23.2,Gerbillus\_garamantis:23.2,Gerbillus\_gerbillus:23.2,Gerbillus\_gleadowi:23.2,Gerbillus\_grobbeni:23.2,Gerbillus\_harwoodi:23.2,Gerbillus\_henleyi:23.2,Gerbillus\_hesperinus:23.2,Gerbillus\_hoogstraali:23.2,Gerbillus\_jamesi:23.2,Gerbillus\_juliani:23.2,Gerbillus\_latastei:23.2,Gerbillus\_lowei:23.2,Gerbillus\_mackillingini:23.2,Gerbillus\_magharebi:23.2,Gerbillus\_mauritaniae:23.2,Gerbillus\_mesopotamiae:23.2,Gerbillus\_muriculus:23.2,Gerbillus\_nancilus:23.2,Gerbillus\_nanus:23.2,Gerbillus\_nigeriae:23.2,Gerbillus\_occiduus:23.2,Gerbillus\_percivali:23.2,Gerbillus\_perpallidus:23.2,Gerbillus\_poecilops:23.2,Gerbillus\_principulus:23.2,Gerbillus\_pulvinatus:23.2,Gerbillus\_pusillus:23.2,Gerbillus\_pyramidum:23.2,Gerbillus\_quadrivaculatus:23.2,Gerbillus\_riggenbachi:23.2,Gerbillus\_rosalinda:23.2,Gerbillus\_ruberrimus:23.2,Gerbillus\_simoni:23.2,Gerbillus\_somalicus:23.2,Gerbillus\_stigmonyx:23.2,Gerbillus\_syrticus:23.2,Gerbillus\_tarabuli:23.2,Gerbillus\_vivax:23.2,Gerbillus\_watersi:23.2)'312\_Gerbillus':0.2, Microdillus\_peeli:23.4)'311':0.2, Pachyuromys\_duprasi:23.6, (Tatera\_boehmi:21.6,Tatera\_indica:21.6, (Tatera\_afra:15.1,Tatera\_brantsii:15.1,Tatera\_guineae:15.1,Tatera\_inclusa:15.1,Tatera\_kempi:15.1,Tatera\_leucogaster:15.1,Tatera\_nigricauda:15.1,Tatera\_phillipsi:15.1,Tatera\_robusta:15.1,Tatera\_valida:15.1)'314':6.5)'313\_Tatera':2.0, (Taterillus\_arenarius:14.9,Taterillus\_conicus:14.9,Taterillus\_emini:14.9,Taterillus\_gracilis:14.9,Taterillus\_harringtoni:14.9,Taterillus\_lacustris:14.9,Taterillus\_petteri:14.9,Taterillus\_pygargus:14.9)'315\_Taterillus':8.7)'302\_Gerbillinae':24.5, ((Beamys\_hindei:9.1,Beamys\_major:9.1)'318\_Beamys':10.4, (Cricetomys\_emini:9.1,Cricetomys\_gambianus:9.1)'319\_Cricetomys':10.4)'317':14.3, (Saccostomus\_campestris:8.4,Saccostomus\_mearnsi:8.4)'320\_Saccostomus':25.4)'316\_Cricetomyinae':14.3, ((Brachytarsomys\_albicauda:19.8, ((Eliurus\_majori:6.5,Eliurus\_minor:6.5,Eliurus\_myoxinus:6.5,Eliurus\_pen

icillatus:6.5,Eliurus\_tanala:6.5,Eliurus\_webbi:6.5)'324\_Eliurus':9.7,Gymnuromys\_roberti:16.2)'323':3.6)'322':9.0,(((Brachyuromys\_betsileoensis:7.1,Brachyuromys\_ramirohitra:7.1)'327\_Brachyuromys':8.8,Nesomys\_rufus:15.9)'326':3.9,Hypogeomys\_antimena:19.8)'325':9.0,(Macrotarsomys\_bastardi:6.6,Macrotarsomys\_ingenens:6.6)'328\_Macrotarsomys':22.2)'321\_Nesomyinae':19.3,(Calomyscus\_bailwardi:8.5,Calomyscus\_baluchi:8.5,Calomyscus\_hotsoni:8.5,Calomyscus\_mystax:8.5,Calomyscus\_tsolovi:8.5,Calomyscus\_urartensis:8.5)'329\_Calomyscinae\_Calomyscus':39.6,((Cannomys\_badius:9.4,(Rhizomys\_pruinosus:6.1,Rhizomys\_sinensis:6.1,Rhizomys\_sumatrensis:6.1)'332\_Rhizomys':3.3)'331':4.8,(Tachyoryctes\_ankoliae:14.0,Tachyoryctes\_annectens:14.0,Tachyoryctes\_audax:14.0,Tachyoryctes\_daemon:14.0,Tachyoryctes\_macrocephalus:14.0,Tachyoryctes\_naivasha:14.0,Tachyoryctes\_rex:14.0,Tachyoryctes\_ruandae:14.0,Tachyoryctes\_ruddi:14.0,Tachyoryctes\_spalacinus:14.0,Tachyoryctes\_splendens:14.0)'333\_Tachyoryctes':0.2)'330\_Rhizomyinae':33.9,(Delanymys\_brooksi:14.7,(Petromyscus\_barbouri:12.2,Petromyscus\_collinus:12.2,Petromyscus\_monticularis:12.2,Petromyscus\_shortridgei:12.2)'335\_Petromyscus':2.5)'334\_Petromyscinae':33.4,(Dendromus\_insignis:21.9,Dendromus\_kahuziensis:21.9,Dendromus\_kivu:21.9,Dendromus\_lovati:21.9,Dendromus\_melanotis:21.9,Dendromus\_mesomelas:21.9,Dendromus\_messorius:21.9,Dendromus\_mystacalis:21.9,Dendromus\_nyikae:21.9,Dendromus\_oreas:21.9,Dendromus\_vernayi:21.9)'336\_Dendromurinae1\*Dendromus':26.2,Dendroprionomys\_rousseloti:48.1,Deomys\_ferrugineus:48.1,(Leimacomys\_buettneri:17.8,(Steatomys\_caurinus:15.8,Steatomys\_cuppedius:15.8,Steatomys\_jacksoni:15.8,Steatomys\_krebsii:15.8,Steatomys\_parvus:15.8,Steatomyss\_pratensis:15.8)'338\_Steatomys':2.0)'337\_Dendromurinae2\*':30.3,Lophiomys\_imhausi:48.1,Malacothrix\_typica:48.1,Megadendromus\_nikolausi:48.1,(Myospalax\_aspalax:10.8,Myospalax\_epsilon:10.8,Myospalax\_fontanieri:10.8,Myospalax\_myospalax:10.8,Myospalax\_psilurus:10.8,Myospalax\_rothschildi:10.8,Myospalax\_smithi:10.8)'339\_Myospalacinae\_Myospalax':37.3,Mystromys\_albicaudatus:48.1,(Nannospalax\_ehrenbergi:12.8,Nannospalax\_leucodon:12.8,Nannospalax\_nehringi:12.8)'341\_Nannospalax':7.5,(Spalax\_arenarius:14.2,Spalax\_giganteus:14.2,Spalax\_graeicus:14.2,Spalax\_microphthalmus:14.2,Spalax\_zemni:14.2)'342\_Spalax':6.1)'340\_Spalacinae':27.8,(Platacanthomys\_lasiurus:10.1,(Typhlomys\_chapensis:6.1,Typhlomys\_cinereus:6.1)'344\_Typhlomys':4.0)'343\_Platacanthomyinae':38.0,Prionomys\_batesi:48.1)'33\_Muridae':22.2)'19':7.1)'13':0.8,((Castor\_canadensis:11.4,Castor\_fiber:11.4)'346\_Castoridae\_Castor':57.6,(((Perognathus\_alticola:15.9,Perognathus\_amplus:15.9,Perognathus\_fasciatus:15.9,Perognathus\_flavescens:15.9,Perognathus\_flavus:15.9,Perognathus\_inornatus:15.9,Perognathus\_longimembris:15.9,Perognathus\_merriami:15.9,Perognathus\_parvus:15.9,Perognathus\_xanthanotus:15.9)'350\_Perognathus':16.0,(Chaetodipus\_formosus:18.6,((Chaetodipus\_arenarius:13.8,((Chaetodipus\_penicillatus:7.4,(Chaetodipus\_intermedius:7.2,Chaetodipus\_nelsoni:7.2,Chaetodipus\_lineatus:7.2)'357':0.2,(Chaetodipus\_goldmani:1.0,Chaetodipus\_artus:1.0)'358':6.4)'356':3.8,Chaetodipus\_perinx:11.2)'355':1.7,((Chaetodipus\_spinatus:11.0,Chaetodipus\_fallax:11.0)'360':0.2,Chaetodipus\_californicus:11.2)'359':1.7)'354':0.9)'353':2.7,(Chaetodipus\_baileyi:5.4,Chaetodipus\_hispidus:5.4)'361':11.1)'352':2.1)'351\_Chaetodipus':13.3)'349\_Perognathinae':2.6,((((Dipodomys\_ordii:4.2,(Dipodomys\_gravipes:2.1,Dipodomys\_ingenis:2.1)'367':2.1)'366':1.9,Dipodomys\_compactus:6.1)'365':0.6,((Dipodomys\_panamintinus:3.0,(Dipodomys\_heermannii:1.7,Dipodomys\_stephensi:1.7)'371':1.3)'370':2.5,(((Dipodomys\_venustus:1.8,Dipodomys\_elephantinus:1.8)'374':1.0,Dipodomys\_agilis:2.8)'373':1.0,Dipodomys\_microps:3.8)'372':1.7,Dipodomys\_elator:5.5,Dipodomys\_phillipsii:5.5,Dipodomys\_californicus:5.5)'369':1.1,((Dipodomys\_merriami:2.0,Dipodomys\_nitratoides:2.0)'376':1.8,Dipodomys\_insularis:3.8)'375':2.8)'368':0.1)'364':0.2,(Dipodomys\_deserti:6.3,(Dipodomys\_spectabilis:2.9,Dipodomys\_nelsoni:2.9)'378':3.4)'377':0.6)'363\_Dipodomys':13.1,(Microdipodops\_megacephalus:6.2,Microdipodops\_pallidus:6.2)'379\_Microdipodops':13.8)'362\_Dipodomys':14.5)'348\_Heteromyidae1\*':1.4,((((Thomomys\_bottae:10.7,Thomomys\_townsendii:10.7)'384':1.6,Thomomys\_umbrinus:12.3)'383':2.1,Thomomys\_bulbivorus:14.4)'382':7.2,(Thomomys\_talpoides:12.4,Thomomys\_monticola:12.4,Thomomys\_mazama:12.4)'385':9.2)'381\_Geomyidae1\*\_Thomomys':3.2,(((Geomys\_personatus:3.1,Geomys\_tropicalis:3.1)'389':2.6,(Geomys\_bursarius:5.4,Geomys\_arenarius:5.4)'390':0.3)'388':5.0,Geomys\_pinetis:10.7)'387\_Geomyidae2\*Geomys':5.9,((Pappogeomys\_bulleri:11.

2, Pappogeomys\_merriami:11.2, Pappogeomys\_castanops:11.2, (((((Heteromys\_goldman:i:2.4, Heteromys\_desmarestianus:2.4)'397':1.7, Heteromys\_oresterus:4.1)'396':1.4, Heteromys\_nelsoni:5.5)'395\_Heteromys\*:4.7, (((Liomys\_adspersus:2.4, Liomys\_salvini:2.4)'401':3.2, ((Liomys\_pictus:2.4, Liomys\_spectabilis:2.4)'403':1.4, Liomys\_irroratus:3.8)'402':1.8)'400\_Liomys':1.2, Heteromys\_australis:6.8)'399':0.9, Heteromys\_anomalus:7.7)'398':2.5)'394':0.8, Heteromys\_gaumeri:11.0)'393\_Heteromyidae2\*\_Heteromyinae':0.2, Pappogeomys\_gymnurus:11.2, Pappogeomys\_tylorhinus:11.2, Pappogeomys\_neglectus:11.2, Pappogeomys\_zinseri:11.2, Pappogeomys\_fumosus:11.2, Pappogeomys\_alcorni:11.2)'392':4.0, ((Orthogeomys\_heterodus:6.0, Orthogeomys\_hispidus:6.0, Orthogeomys\_grandis:6.0, Orthogeomys\_cherriei:6.0, Orthogeomys\_underwoodi:6.0, Orthogeomys\_dariensis:6.0, Orthogeomys\_cavator:6.0, Orthogeomys\_cuniculus:6.0, Orthogeomys\_lanius:6.0, Orthogeomys\_matagalpae:6.0, Orthogeomys\_thaeleri:6.0)'405\_Orthogeomys\*:6.8, Zygogeomys\_trichopus:12.8)'404\_Geomyidae3\*':2.4)'391':1.4)'386':8.2)'380':11.1)'347':33.1)'345':9.2)'12':4.4, (((Octodon\_bridgesi:3.7, Octodon\_lunatus:3.7, Octodon\_degus:3.7)'408\_Octodontidae1\*\_Octodon':43.0, ((Massoutiera\_mzabi:9.2, Pectinator\_spekei:9.2, (Ctenodactylus\_gundi:4.5, Ctenodactylus\_vali:4.5)'411\_Ctenodactylus':4.7)'410':10.7, Felovia\_vae:19.9)'409\_Ctenodactylidae':26.8)'407':0.2, ((Tympanoctomys\_barrerae:19.7, Octomys\_mimax:19.7)'413\_Octodontidae2\*':26.1, ((Ctenomys\_conoveri:7.6, Ctenomys\_frater:7.6, Ctenomys\_boliviensis:7.6, Ctenomys\_steinbachi:7.6, Ctenomys\_haigi:7.6, Ctenomys\_leucodon:7.6, Ctenomys\_opimus:7.6, Ctenomys\_mendocinus:7.6, Ctenomys\_pearsoni:7.6, Ctenomys\_torquatus:7.6, Ctenomys\_lewisi:7.6, Ctenomys\_sociabilis:7.6, Ctenomys\_tuconax:7.6, Ctenomys\_talarum:7.6, Ctenomys\_bonettoi:7.6, Ctenomys\_azarae:7.6, Ctenomys\_tucumanus:7.6, Ctenomys\_nattereri:7.6, Ctenomys\_argentinus:7.6, Ctenomys\_occultus:7.6, Ctenomys\_lattro:7.6, Ctenomys\_magellanicus:7.6, Ctenomys\_perrensis:7.6, Ctenomys\_maulinus:7.6, Ctenomys\_australis:7.6, Ctenomys\_porteousi:7.6, Ctenomys\_fulvus:7.6, Ctenomys\_brasiliensis:7.6, Ctenomys\_colburni:7.6, Ctenomys\_dorsalis:7.6, Ctenomys\_emilianus:7.6, Ctenomys\_knighti:7.6, Ctenomys\_minutus:7.6, Ctenomys\_peruanus:7.6, Ctenomys\_pontifex:7.6, Ctenomys\_saltarius:7.6, Ctenomys\_sericeus:7.6, Ctenomys\_validus:7.6)'415\_Ctenomyidae\_Ctenomys':36.4, (Abrocoma\_bennettii:43.8, Hydrochaeris\_hydrochaeris:43.8, Dinomys\_branickii:43.8, Petromus\_typicus:43.8, Abrocoma\_cinerea:43.8, Abrocoma\_boliviensis:43.8, (Kerodon\_rupestris:34.3, (Cavia\_porcellus:14.7, Cavia\_tschudi:14.7, Cavia\_aperea:14.7, Cavia\_fulgida:14.7, Cavia\_magna:14.7, (Microcavia\_australis:10.1, Microcavia\_niata:10.1, Microcavia\_shiptoni:10.1)'419\_Microcavia':4.6, (Galea\_musteloides:3.6, Galea\_spirix:3.6, Galea\_flavidens:3.6)'420\_Galea':11.1)'418':19.6)'417\_Caviidae1\*\_Cavinae':9.5, ((Myoprocta\_acouchy:5.6, Myoprocta\_exilis:5.6)'422\_Myoprocta':12.3, (Dasyprocta\_punctata:9.7, Dasyprocta\_leporina:9.7, Dasyprocta\_azarae:9.7, Dasyprocta\_coibae:9.7, Dasyprocta\_cristata:9.7, Dasyprocta\_fuliginosa:9.7, Dasyprocta\_guamara:9.7, Dasyprocta\_kalinowskii:9.7, Dasyprocta\_mexicana:9.7, Dasyprocta\_prymnolopha:9.7, Dasyprocta\_ruatanica:9.7)'423\_Dasyprocta':8.2)'421\_Dasyproctidae':25.9, ((Myocastor\_coypus:18.2, (Thrichomys\_apereoides:17.4, Proechimys\_dimidiatus:17.4, Proechimys\_setosus:17.4, Proechimys\_iheringi:17.4, Hoplomys\_gymnurus:17.4, Proechimys\_amphichoricus:17.4, Proechimys\_simonsi:17.4, Euryzygomatomys\_spinosus:17.4, Lonchothrix\_emiliae:17.4, Proechimys\_longicaudatus:17.4, Proechimys\_oris:17.4, Proechimys\_albispinus:17.4, Proechimys\_trinitatis:17.4, Carterodon\_sulcidens:17.4, Chaetomys\_subspinosis:17.4, Proechimys\_bolivianus:17.4, Proechimys\_brevicauda:17.4, Proechimys\_canicollis:17.4, Proechimys\_cayennensis:17.4, Proechimys\_chrysaeolus:17.4, Proechimys\_cuvieri:17.4, Proechimys\_decumanus:17.4, Proechimys\_goeldii:17.4, Proechimys\_gorgonae:17.4, Proechimys\_guairae:17.4, Proechimys\_gularis:17.4, Proechimys\_hendeei:17.4, Proechimys\_hoplomyoides:17.4, Proechimys\_magdalena:17.4, Proechimys\_mincae:17.4, Proechimys\_myosuros:17.4, Proechimys\_orennelli:17.4, Proechimys\_poliopterus:17.4, Proechimys\_quadruplicatus:17.4, Proechimys\_semispinosus:17.4, Proechimys\_stereei:17.4, Proechimys\_urichi:17.4, Proechimys\_warreni:17.4, (Clyomys\_laticeps:3.6, Clyomys\_bishopi:3.6)'427\_Eumysopinae1\*\_Clyomys':13.8, (Makalata\_armata:14.4, (Echimys\_chrysurus:10.8, Echimys\_blainvilliei:10.8, Echimys\_braziliensis:10.8, Echimys\_dasythrix:10.8, Echimys\_grandis:10.8, Echimys\_lamarum:10.8, Echimys\_macrurus:10.8, Echimys\_nigrispinus:10.8, Echimys\_pictus:10.8, Echimys\_rhipidurus:10.8, Echimys\_saturnus:10.8, Echimys\_semidivullosus:10.8, Echimys\_thomasi:10.8, Echimys\_unicolor:10.8)'429\_Echimys':3.6, (Isothrix

*bistriata*:4.6, *Isothrix\_pagurus*:4.6) '430\_Isothrix':9.8, (*Diplomys\_caniceps*:5.3  
, *Diplomys\_labilis*:5.3, *Diplomys\_rufodorsalis*:5.3) '431\_Diplomys':9.1) '428\_Echim  
yinae':3.0, (*Kannabateomys\_amblonyx*:10.6, (*Dactylomys\_dactylinus*:2.9, *Dactylomy  
s\_boliviensis*:2.9, *Dactylomys\_peruanus*:2.9) '433\_Dactylomys':7.7, (*Olallamys\_alb  
icauda*:3.6, *Olallamys\_edax*:3.6) '434\_Olallamys':7.0) '432\_Dactylomyinae':6.8, (*Me  
somys\_hispidus*:4.4, *Mesomys\_didelphoides*:4.4, *Mesomys\_leniceps*:4.4, *Mesomys\_osc  
urus*:4.4, *Mesomys\_stimulax*:4.4) '435\_Eumysopinae2\**Mesomys*':13.0) '426\_Echimyida  
e':0.8) '425':2.8, (((*Capromys\_pilories*:6.8, (*Geocapromys\_brownii*:3.3, *Geocapro  
mys\_ingrahami*:3.3) '440\_Geocapromys':3.5) '439':7.2, (*Mysateles\_prehensilis*:10.0  
, *Mysateles\_garridoi*:10.0, *Mysateles\_gundlachi*:10.0, *Mysateles\_melanurus*:10.0, *My  
sateles\_meridionalis*:10.0) '441\_Mysateles':4.0) '438':3.5, (*Mesocapromys\_auritus*  
:9.3, *Mesocapromys\_angelcabrerai*:9.3, *Mesocapromys\_nanus*:9.3, *Mesocapromys\_sanfe  
lipensis*:9.3) '442\_Mesocapromys':8.2) '437\_Capromyinae':1.8, *Plagiodontia\_aedium*  
:19.3, *Isolobodon\_portoricensis*:19.3) '436\_Capromyidae':1.7) '424':22.8, (*Dolicho  
tis\_patagonum*:23.0, *Dolichotis\_salinicola*:23.0) '443\_Caviidae2\**Dolichotinae*\_Do  
lichotis':20.8, (*Agouti\_paca*:4.8, *Agouti\_taczanowskii*:4.8) '444\_Agoutidae\_Agouti  
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*Graphiurus\_microtis*:11.6, *Graphiurus\_monardi*:11.6, *Graphiurus\_murinus*:11.6, *Graphiurus\_ocularis*:11.6, *Graphiurus\_olga*:11.6, *Graphiurus\_parvus*:11.6, *Graphiurus\_platyops*:11.6, *Graphiurus\_rupicola*:11.6, *Graphiurus\_surdus*:11.6)'672':16.0, *Graphiurus\_crassicaudatus*:27.6)'671':8.1, *Graphiurus\_hueti*:35.7)'670\_ *Graphiurinae* *Graphiurus*'5.1)'668':5.4)'660\_ *Myoxidae*'27.8)'464':8.8)'10\_ *Rodentia*'6.1, (((((*Brachylagus\_idahoensis*:19.2, *Nesolagus\_netscheri*:19.2)'679':3.5, (((((*Sylvilagus\_aquaticus*:5.0, (*Sylvilagus\_brasiliensis*:2.7, *Sylvilagus\_dicei*:2.7)'685':2.3, *Sylvilagus\_insonus*:5.0, *Sylvilagus\_palustris*:5.0)'684':3.0, ((*Sylvilagus\_cunicularius*:2.9, *Sylvilagus\_graysoni*:2.9)'687':2.1, *Sylvilagus\_floridanus*:5.0)'686':3.0)'683':0.2, *Sylvilagus\_transitionalis*:8.2)'682':5.0, (*Sylvilagus\_audubonii*:9.8, *Sylvilagus\_nuttallii*:9.8)'688':3.4)'681':4.3, (*Sylvilagus\_bachmani*:5.1, *Sylvilagus\_mansuetus*:5.1)'689':12.4)'680\_ *Sylvilagus*'5.2)'678':2.1, ((*Caprolagus\_hispidus*:4.7, *Poelagus\_marjorita*:4.7)'691':19.5, (((((((*Lepus\_alleni*:1.4, (*Lepus\_callotis*:1.3, *Lepus\_flavigularis*:1.3)'702':0.1)'701':0.2, (*Lepus\_californicus*:1.4, *Lepus\_insularis*:1.4)'703':0.2)'700':4.4, *Lepus\_americanus*:6.0)'699':1.8,

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alabarensis:11.9)'911\_Arctocebus':6.8,Perodicticus\_potto:18.7)'910':16.1,(Loris\_tardigradus:31.4,(Nycticebus\_coucang:14.6,Nycticebus\_pygmaeus:14.6)'913\_Nycticebus':16.8)'912':3.4)'909\_Loridae':4.1,(((Euoticus\_elegantulus:6.5,Euoticus\_pallidus:6.5)'918\_Euoticus':9.8,Galago\_gallarum:16.3,Galago\_matschiei:16.3,(Galago\_moholi:16.1,Galago\_senegalensis:16.1)'919\_Galago\*':0.2,(Otolemur\_crassicaudatus:4.9,Otolemur\_garnettii:4.9)'920\_Otolemur':11.4)'917':2.3,Galago\_alleni:18.6)'916':5.7,Galagooides\_demidoff:24.3)'915':0.3,Galagooides\_zanzibaricus:24.6)'914\_Galagonidae':14.3)'908':33.9)'888':11.7)'751\_Primates':4.0,(Cynocephalus\_variegatus:15.0,Cynocephalus\_volans:15.0)'921\_Dermoptera\_Cynocephalidae\_Cynocephalus':73.5)'750':3.1,(Ptilocercus\_lowii:31.7,(Anathana\_elliotti:6.3,Urogale\_everetti:6.3)'924':19.9,((Dendrogale\_melanura:5.7,Dendrogale\_murina:5.7)'926\_Dendrogale':20.3,(Tupaia\_belangeri:25.8,Tupaia\_chrysogaster:25.8,Tupaia\_dorsalis:25.8,Tupaia\_glis:25.8,Tupaia\_gracilis:25.8,Tupaia\_javanica:25.8,Tupaia\_longipes:25.8,Tupaia\_minor:25.8,Tupaia\_montana:25.8,Tupaia\_nicobarica:25.8,Tupaia\_palawanensis:25.8,Tupaia\_picta:25.8,Tupaia\_splendidula:25.8,Tupaia\_tana:25.8)'927\_Tupaia':0.2)'925':0.2)'923\_Tupaiinae':5.5)'922\_Scadentia\_Tupaiidae':59.9)'749':0.2)'8\_Euarchontoglires':4.3,(((((((((Addax\_nasomaculatus:5.2,(Oryx\_dammah:3.0,Oryx\_gazella:3.0,Oryx\_leucoryx:3.0)'944\_Oryx':2.2)'943':3.4,(Hippotragus\_equinus:5.3,Hippotragus\_niger:5.3)'945\_Hippotragus':3.3)'942\_Hippotraginae':10.8,((Alcelaphus\_busephalus:2.8,Sigmoceros\_lichtensteinii:2.8)'947':11.0,(Connochaetes\_gnou:3.4,Connochaetes\_taurinus:3.4)'948\_Connochaetes':10.4,(Damaliscus\_hunteri:12.4,(Damaliscus\_lunatus:11.6,Damaliscus\_pygargus:11.6)'950':0.8)'949\_Damaliscus':1.4)'946\_Alcelaphinae':5.6)'941':2.2,(((Ammotragus\_lervia:15.4,((Budorcas\_taxicolor:11.7,((Ovis\_ammon:1.4,(Ovis\_aries:1.3,Ovis\_vignei:1.3)'958':0.1)'957':4.3,(Ovis\_canadensis:3.6,(Ovis\_dalli:2.8,Ovis\_nivicola:2.8)'960':0.8)'959':2.1)'956\_Ovis':6.0)'955':2.8,((Capra\_caucasica:7.3,Capra\_cylindricornis:7.3,Capra\_falconeri:7.3,Capra\_hircus:7.3,Capra\_ibex:7.3,Capra\_nubiana:7.3,Capra\_pyrenaica:7.3,Capra\_sibirica:7.3,Capra\_walie:7.3,(Hemitragus\_hylocrius:4.7,Hemitragus\_jayakari:4.7,Hemitragus\_jemlahicus:4.7)'963\_Hemitragus':2.6)'962':6.2,(Pseudois\_nayaur:1.7,Pseudois\_schaeferi:1.7)'964\_Pseudois':11.8)'961':1.0)'954':0.9,(Rupicapra\_pyrenaica:4.7,Rupicapra\_rupicapra:4.7)'965\_Rupicapra':10.7)'953':0.7,((Naemorhedus\_baileyi:3.0,Naemorhedus\_caudatus:3.0,Naemorhedus\_crispus:3.0,Naemorhedus\_goral:3.0,Naemorhedus\_sumatraensis:3.0,Naemorhedus\_swinhoei:3.0,Ovibos\_moschatus:3.0)'967':7.8,Oreamnos\_americanus:10.8)'966':5.3)'952\_Caprinae':0.4,Pantholops\_hodgsonii:16.5)'951':5.1)'940':1.4,Aepyceros\_melampus:23.0,((Ammodorcas\_clarkei:10.5,Antidorcas\_marsupialis:10.5,(Antilope\_cervicapra:7.6,(((Gazella\_bennettii:1.3,Gazella\_saudiya:1.3)'974':0.4,((Gazella\_cuvieri:0.3,Gazella\_leptoceros:0.3)'976':0.3,Gazella\_subgutturosa:0.6)'975':1.1)'973':0.6,((Gazella\_dorcas:1.9,Gazella\_gazella:1.9)'978':0.2,Gazella\_spekei:2.1)'977':0.2)'972':3.5,((Gazella\_dama:1.0,Gazella\_soemmerringii:1.0)'980':0.4,Gazella\_granti:1.4)'979':4.4,(Gazella\_rufifrons:0.3,Gazella\_thomsonii:0.3)'981':5.5)'971\_Gazella':1.8)'970':2.9,Litocranius\_walleri:10.5)'969':0.2,Saiga\_tatarica:10.7)'968\_Antilopinae1\*':12.3,((Cephalophus\_adersi:8.1,((Cephalophus\_callipygus:4.0,Cephalophus\_ogilbyi:4.0,Cephalophus\_weynsi:4.0)'985':2.9,((Cephalophus\_dorsalis:3.8,(Cephalophus\_silvicultor:2.3,Cephalophus\_spadix:2.3)'988':1.5)'987':1.3,Cephalophus\_jeantinki:5.1)'986':1.8,((Cephalophus\_harveyi:1.7,Cephalophus\_natalensis:1.7)'990':0.8,(Cephalophus\_nigrifrons:1.2,Cephalophus\_rufilatus:1.2)'991':1.3)'989':4.4,Cephalophus\_leucogaster:6.9,Cephalophus\_niger:6.9,Cephalophus\_rubidus:6.9,Cephalophus\_zebra:6.9)'984\_Cephalophus1\*':1.2,Sylvicapra\_grimmiss:8.1)'983':4.7,(Cephalophus\_maxwellii:9.4,Cephalophus\_monticola:9.4)'992\_Cephalophus2\*':3.4)'982\_Cephalophinae':10.2,(Dorcatragus\_megalotis:7.2,((Raphicerus\_campestrinus:2.4,Raphicerus\_sharpei:2.4)'995':2.2,Raphicerus\_melanotis:4.6)'994\_Raphicerus':2.6)'993\_Antilopinae2\*':15.8,(((Kobus\_ellipsiprymnus:13.8,(Kobus\_leche:11.1,Kobus\_megaceros:11.1)'1000':2.7)'999':0.3,(Kobus\_kob:6.9,Kobus\_vardonii:6.9)'1001':7.2)'998\_Kobus':3.2,((Redunca\_arundinum:6.3,Redunca\_redunda:6.3)'1003':1.8,Redunca\_fulvorufula:8.1)'1002\_Redunca':9.2)'997\_Reduncinae':1.1,Pelea\_capreolus:18.4)'996':4.6,Madoqua\_guentheri:23.0,Madoqua\_kirkii:23.0,Madoqua\_piacentinii:23.0,Madoqua\_saltiana:23.0,Neotragus\_batesi:23.0,Neotragus\_moschatus:23.0,Neotragus\_pygmaeus:23.0,Oreotragus\_oreotragus:23.0,Ourebia\_ourebi:2

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Cervus\_unicolor:7.9, Elaphurus\_davidianus:7.9) '1039':4.4, (Dama\_dama:3.6, Dama\_mesopotamica:3.6) '1040\_Dama':8.7) '1038':0.2) '1036\_Cervinae':4.4, (Elaphodus\_cephalophorus:13.8, (Muntiacus\_atherodes:6.0, Muntiacus\_crinifrons:6.0, Muntiacus\_feae:6.0, Muntiacus\_gongshanensis:6.0, Muntiacus\_muntjak:6.0, Muntiacus\_reevesi:6.0) '1042\_Muntiacus':7.8) '1041\_Muntiacinae':3.1) '1035':1.3) '1023\_Cervidae':9.3, ((Moschus\_berezovskii:7.0, (Moschus\_chrysogaster:0.2, Moschus\_fuscus:0.2) '1045':6.8) '1044':4.3, Moschus\_moschiferus:11.3) '1043\_Moschidae\_Moschus':16.2) '1022':0.2) '937':0.1, (Antilocapra\_americana:20.1, (Giraffa\_camelopardalis:7.9, Okapia\_johnstoni:7.9) '1047\_Giraffidae':12.2) '1046':7.7) '936':20.9, (Hyemoschus\_aquaticus:18.0, Moschiola\_meminna:18.0, (Tragulus\_javanicus:12.9, Tragulus\_napu:12.9) '1049\_Tragulus':5.1) '1048\_Tragulidae':30.7) '935':12.9, ((((((Australophocaena\_dioptrica:8.2, Neophocaena\_phocaenoides:8.2, Phocoena\_phocoena:8.2, 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Grampus\_griseus:14.1, Lagenodelphis\_hosei:14.1, Lagenorhynchus\_acutus:14.1, Lagenorhynchus\_albirostris:14.1, Orcella\_brevirostris:14.1, Orcinus\_orca:14.1, Sotalia\_fluvialis:14.1, (Sousa\_chinensis:5.1, Sousa\_teuszii:5.1) '1075\_Sousa':9.0, Stenella\_longirostris:14.1, Steno\_bredanensis:14.1) '1060\_Delphinidae':16.0) '1057':0.6, (Delphinapterus\_leucas:10.8, Monodon\_monoceros:10.8) '1076\_Monodontidae':19.9) '1056':8.6, ((Inia\_geoffrensis:32.1, Pontoporia\_blainvilieei:32.1) '1078':7.0, Lipotes\_vexillifer:39.1) '1077\_Platanistidae1\*':0.2) '1055':10.6, (Berardius\_arnuxii:31.6, Berardius\_bairdii:31.6, Hyperoodon\_ampullatus:31.6, Hyperoodon\_planifrons:31.6, Indopacetus\_pacificus:31.6, Mesoplodon\_bidens:31.6, Mesoplodon\_bowdoini:31.6, Mesoplodon\_carlhubbsi:31.6, Mesoplodon\_densirostris:31.6, Mesoplodon\_europaeus:31.6, Mesoplodon\_ginkgodens:31.6, Mesoplodon\_grayi:31.6, Mesoplodon\_hectori:31.6, Mesoplodon\_layardii:31.6, Mesoplodon\_mirus:31.6, Mesoplodon\_peruvianus:31.6, Mesoplodon\_stejnegeri:31.6, Tasmacetus\_shepherdi:31.6, Zippi

us\_cavirostris:31.6)'1079\_Ziphiidae':18.3)'1054':0.2,(Platanista\_gangetica:2.2,Platanista\_minor:2.2)'1080\_Planistidae2\* Platanista':47.9)'1053':1.5,((Kogia\_breviceps:21.5,Kogia\_simus:21.5)'1082\_Kogia':15.0,Physeter\_catodon:36.5)'1081\_Physeteridae':15.1)'1052':0.6,((Balaena\_mysticetus:11.1,(Eubalaena\_australis:2.7,Eubalaena\_glacialis:2.7)'1086\_Eubalaena':8.4)'1085\_Balaenidae':20.1,Caperea\_marginata:31.2)'1084':3.0,(Balaenoptera\_acutorostrata:26.2,((Balaenoptera\_borealis:9.6,Balaenoptera\_edeni:9.6)'1089\_Balaenopteridae1\* Balaenoptera\*:15.4,(Balaenoptera\_musculus:24.3,Balaenoptera\_physalus:24.3,Megaptera\_novaeangliae:24.3)'1090\_Balaenopteridae2\*':0.7,Eschrichtius\_robustus:25.0)'1088':1.2)'1087':8.0)'1083':18.0)'1051':2.7,(Hexaprotodon\_liberiensis:13.4,Hippopotamus\_amphibius:13.4)'1091\_Hippopotamidae':41.5)'1050':6.7)'934':6.2,((Babyrusa\_babyrussa:26.3,((Hylochoerus\_meinertzhageni:21.9,(Potamochoerus\_larvatus:7.1,Potamochoerus\_porcus:7.1)'1096\_Potamochoerus':14.8,(Sus\_barbatus:9.6,Sus\_bucculentus:9.6,Sus\_cebifrons:9.6,Sus\_celebensis:9.6,Sus\_heureni:9.6,Sus\_philippensis:9.6,Sus\_salvanus:9.6,Sus\_scrofa:9.6,Sus\_timoriensis:9.6,Sus\_verrucosus:9.6)'1097\_Sus':12.3)'1095\_Suinae':0.2,(Phacochoerus\_aethiopicus:16.3,Phacochoerus\_africanus:16.3)'1098\_Phacochoerinae\_Phacochoerus':5.8)'1094':4.2)'1093\_Suidae':20.8,((Catagonus\_wagneri:8.6,Tayassu\_peccari:8.6)'1100':14.2,Pecari\_tajacu:22.8)'1099\_Tayassuidae':24.3)'1092':20.7)'933':2.9,((Camelus\_bactrianus:10.8,Camelus\_dromedarius:10.8)'1102\_Camelus':11.4,((Lama\_glama:10.3,Lama\_guanicoe:10.3)'1104\_Lama\*':0.2,(Lama\_pacos:10.3,Vicugna\_vicugna:10.3)'1105':0.2)'1103':11.7)'1101\_Camelidae':48.5)'932\_Cetartiodactyla':12.7,(((Ceratotherium\_simum:14.7,Diceros\_bicornis:14.7)'1109':11.1,Dicerorhinus\_sumatrensis:25.8,(Rhinoceros\_sondaicus:10.4,Rhinoceros\_unicornis:10.4)'1110\_Rhinoceros':15.4)'1108\_Rhinocerotidae':25.7,((Tapirus\_bairdii:28.7,(Tapirus\_pinchaque:2.9,Tapirus terrestris:2.9)'1113':25.8)'1112':0.2,Tapirus\_indicus:28.9)'1111\_Tapiridae\_Tapirus':22.6)'1107':4.3,((Equus\_asinus:23.3,(Equus\_burchellii:23.2,Equus\_grevyi:23.2,Equus\_zebra:23.2)'1116':0.1,Equus\_hemionus:23.3,(Equus\_kiang:9.2,Equus\_onager:9.2)'1117':14.1)'1115':0.2,Equus\_caballus:23.5)'1114\_Equidae\_Equus':32.3)'1106\_Perissodactyla':27.6)'931':1.2,((((((((((Mustela\_lutreola:4.5,Mustela\_lutreolina:4.5,Mustela\_nudipes:4.5,Mustela\_sibirica:4.5,Mustela\_strigidorsa:4.5)'1131':0.2,((Mustela\_eversmannii:2.6,Mustela\_nigripes:2.6)'1133':1.9,Mustela\_putorius:4.5)'1132':0.2)'1130':5.2,(((Mustela\_altaica:8.8,Mustela\_erminea:8.8)'1137':0.7,Mustela\_frenata:9.5,Mustela\_nivalis:9.5)'1136':0.2,(Mustela\_africana:3.1,Mustela\_felipei:3.1)'1138':6.6)'1135':0.1,Mustela\_katia:9.8)'1134':0.1)'1129':3.3,Mustela\_vison:13.2)'1128\_Mustela':9.6,((((((Martes\_americana:6.8,Martes\_melampus:6.8)'1147':0.1,Martes\_zibellina:6.9)'1146':0.1,Martes\_martes:7.0)'1145':0.1,Martes\_foina:7.1)'1144':7.3,(Martes\_flavigula:5.1,Martes\_gwatkinsii:5.1)'1148':9.3,Martes\_pennanti:14.4)'1143\_Martes':1.4,Gulo\_gulo:15.8)'1142':1.1,Eira\_barbara:16.9)'1141':3.5,(Galictis\_cuja:5.4,Galictis\_vittata:5.4)'1149\_Galictis':15.0)'1140':0.3,Lyncodon\_patagonicus:20.7)'1139':2.1,((Ictonyx\_libyca:4.3,Ictonyx\_striatus:4.3)'1151\_Ictonyx':2.8,Vormela\_peregrusna:7.1)'1150':15.7,Poecilogale\_albinucha:22.8)'1127\_Mustelinae':1.1,Mellivora\_capensis:23.9)'1126':0.2,((Arctonyx\_collaris:4.7,Meles\_meles:4.7)'1153':10.8,(Mydaus\_javanensis:5.8,Mydaus\_marchei:5.8)'1154\_Mydaus':9.7)'1152\_Melinae1\*':8.6,(Melogale\_everetti:10.1,Melogale\_moschata:10.1,Melogale\_orientalis:10.1,Melogale\_personata:10.1)'1155\_Melinae2\* Melogale':14.0,(((Lontra\_felina:1.0,Lontra\_provacax:1.0)'1161':0.2,Lontra\_longicaudis:1.2)'1160':1.1,Lontra\_canadensis:2.3)'1159\_Lontra':3.2,(Lutra\_lutra:2.9,Lutra\_sumatrana:2.9)'1162\_Lutra\*':2.6)'1158':0.8,((Aonyx\_capensis:2.6,Aonyx\_conicus:2.6)'1164\_Aonyx':0.3,Amblonyx\_cinereus:2.9)'1163':3.4,(Lutra\_maculicollis:4.8,Lutrogale\_perspicillata:4.8,Pteronura\_brasiliensis:4.8)'1165':1.5,Enhydra\_lutris:6.3)'1157\_Lutrinae':15.3,(((Conepatus\_chinga:6.9,Conepatus\_leuconotus:6.9,Conepatus\_mesoleucus:6.9)'1168':3.4,(Conepatus\_humboldtii:4.3,Conepatus\_semistriatus:4.3)'1169':6.0)'1167\_Conepatus':3.0,((Mephitis\_macroura:4.5,Mephitis\_mephitis:4.5)'1171\_Mephitis':5.0,(Spilogale\_putorius:4.5,Spilogale\_pygmaea:4.5)'1172\_Spilogale':5.0)'1170':3.8)'1166\_Mephitinae':8.3)'1156':2.5,Taxidea\_taxus:24.1)'1125\_Mustelidae':5.5,(((Procyon\_cancrivorus:2.6,Procyon\_insularis:2.6,Procyon\_lotor:2.6,Procyon\_maynardi:2.6,Procyon\_minor:2.6,Procyon\_pygmaeus:2.6)'1176\_Procyon':12.3,((Nasua\_narica:5.2,Nasua\_nasua:5.2)'1178\_Nasua':3.0,Nasuel

la\_olivacea:8.2)'1177':6.7)'1175':0.2,(Bassariscus\_astutus:4.6,Bassariscus\_suchrasti:4.6)'1179\_Bassariscus':10.5)'1174\_Procyoninae':10.2,((Bassaricyon\_alleni:13.3,Bassaricyon\_beddardi:13.3,Bassaricyon\_gabbii:13.3,Bassaricyon\_lasius:13.3,Bassaricyon\_pauli:13.3)'1181\_Bassaricyon':1.9,Potos\_flavus:15.2)'1180\_Potosinae':10.1)'1173\_Procyonidae':4.3)'1124':7.9,Ailurus\_fulgens:37.5)'1123':9.3,((Odobenus\_rosmarus:24.1,(((Arctocephalus\_australis:2.2,Arctocephalus\_forsteri:2.2,Arctocephalus\_galapagoensis:2.2,Arctocephalus\_philippi:2.2)'1188':2.0,Arctocephalus\_townsendi:4.2)'1187':0.2,Arctocephalus\_gazella:4.4,Arctocephalus\_tropicalis:4.4)'1186':4.9,Arctocephalus\_pusillus:9.3)'1185\_Arctocephalus':0.2,(((Neophoca\_cinerea:3.2,Phocarctos\_hookeri:3.2)'1192':2.3,Otaria\_byronia:5.5)'1191':1.0,Eumetopias\_jubatus:6.5)'1190':0.3,Zalophus\_californianus:6.8)'1189':2.7,Callorhinus\_ursinus:9.5)'1184\_Otariidae':14.6)'1183':8.6,(((Phoca\_caspica:3.4,Phoca\_hispida:3.4,Phoca\_sibirica:3.4)'1199':0.2,(Phoca\_largha:1.6,Phoca\_vitulina:1.6)'1200':2.0)'1198\_Phoca1\*':0.1,Halichoerus\_grypus:3.7)'1197':5.2,(Phoca\_fasciata:4.2,Phoca\_groenlandica:4.2)'1201\_Phoca2\*':4.7)'1196':2.8,Cystophora\_cristata:11.7)'1195':6.8,Erignathus\_barbatus:18.5)'1194':3.6,(((Hydrurga\_leptonyx:8.4,Lobodon\_carcinophagus:8.4)'1205':0.1,(Leptonychotes\_weddellii:8.0,Ommatophoca\_rossii:8.0)'1206':0.5)'1204':5.3,(Mirounga\_angustirostris:3.3,Mirounga\_leonina:3.3)'1207\_Mirounga':10.5)'1203':1.6,(Monachus\_schauinslandi:12.9,Monachus\_monachus:12.9)'1208\_Monachus':2.5)'1202':6.7)'1193\_Phocidae':10.6)'1182':14.1)'1122':2.9,(((Ursus\_arctos:2.3,Ursus\_maritimus:2.3)'1213':8.9,Ursus\_thibetanus:11.2)'1212\_Ursus\*':0.2,(Helarctos\_malayanus:11.2,Melursus\_ursinus:11.2)'1214':0.2,Ursus\_americanus:11.4)'1211':15.4,Tremarctos\_ornatus:26.8)'1210\_Ursinae':8.8,Ailuropoda\_melanoleuca:35.6)'1209\_Ursidae\*':14.1)'1121':6.8,((((Canis\_lupus:0.9,Canis\_rufus:0.9)'1220':0.5,Canis\_latrans:1.4,Canis\_simensis:1.4)'1219':0.2,((Canis\_adustus:1.3,Canis\_aureus:1.3)'1222':0.2,Canis\_mesomelas:1.5)'1221':0.1)'1218\_Canis':1.9,((Pseudalopex\_culpaeus:0.7,Pseudalopex\_griseus:0.7,Pseudalopex\_gymnocercus:0.7,Pseudalopex\_sechurae:0.7)'1224':0.2,Pseudalopex\_vetulus:0.9)'1223\_Pseudalopex':2.6,Atelocynus\_microtis:3.5,Cerdocyon\_thous:3.5,Chrysocyon\_brachyurus:3.5,Cuon\_alpinus:3.5,Lycaon\_pictus:3.5,Speothos\_venaticus:3.5)'1217':2.9,Nyctereutes\_procyonoides:6.4)'1216':0.7,((((Vulpes\_corsac:0.9,Vulpes\_ferrilata:0.9)'1231':0.7,(Vulpes\_rueppellii:0.9,Vulpes\_vulpes:0.9)'1232':0.7)'1230\_Vulpes1\*':0.2,(Alopex\_lagopus:1.1,Vulpes\_velox:1.1)'1233':0.7)'1229':2.0,(Vulpes\_cana:1.5,Vulpes\_zerda:1.5)'1234\_Vulpes2\*':2.3)'1228':2.9,(Vulpes\_bengalensis:3.5,Vulpes\_chama:3.5,Vulpes\_pallida:3.5)'1235\_Vulpes3\*':3.2)'1227':0.1,(Urocyon\_cinereoargentatus:2.8,Urocyon\_littoralis:2.8)'1236\_Urocyon':4.0)'1226':0.2,Otocyon\_megalotis:7.0)'1225':0.1)'1215\_Canidae':49.4)'1120':6.9,((((((((Panthera\_leo:5.7,Panthera pardus:5.7)'1251':0.2,Panthera\_onca:5.9)'1250':0.1,Panthera\_tigris:6.0)'1249\_Panthera':0.1,Uncia\_uncia:6.1)'1248':1.9,Neofelis\_nebulosa:8.0)'1247':0.2,Pardofelis\_marmorata:8.2)'1246\_Pantherinae':2.5,((Lynx\_canadensis:3.5,Lynx\_lynx:3.5)'1254':1.8,Lynx\_pardinus:5.3)'1253':3.4,Lynx\_rufus:8.7)'1252\_Felinae1\*'\_Lynx':2.0)'1245':0.2,(Catopuma\_badia:6.8,Catopuma\_temminckii:6.8)'1256\_Catopuma':0.8,Profelis\_aurata:7.6)'1255\_Felinae2\*':3.3)'1244':0.1,((Leopardus\_tigrinus:7.2,Oncifelis\_geoffroyi:7.2,Oncifelis\_guigna:7.2)'1259':0.2,(Oncifelis\_colocolo:2.9,Oreailurus\_jacobita:2.9)'1260':4.5)'1258':1.5,(Leopardus\_pardalis:5.8,Leopardus\_wiedii:5.8)'1261\_Leopardus\*':3.1)'1257\_Felinae3\*':2.1)'1243':0.1,((((Felis\_margarita:4.9,Felis\_nigripes:4.9)'1267':0.4,Felis\_silvestris:5.3)'1266':0.9,(Felis\_bieti:2.8,Felis\_chaus:2.8)'1268':3.4)'1265\_Felis':0.7,Otocolobus\_manul:6.9)'1264':1.9,Caracal\_caracal:8.8)'1263':0.2,Leptailurus\_serval:9.0)'1262\_Felinae4\*':2.1)'1242':3.6,(((Prionailurus\_bengalensis:7.5,Prionailurus\_viverrinus:7.5)'1271':0.2,Prionailurus\_rubiginosus:7.7)'1270':2.3,Prionailurus\_planiceps:10.0)'1269\_Felinae5\*'\_Prionailurus':4.7)'1241':0.2,(Herpailurus\_yaguarondi:12.4,Puma\_concolor:12.4)'1272\_Felinae6\*':2.5)'1240':1.9,Acinonyx\_jubatus:16.8)'1239\_Felidae':21.8,((Crocuta\_crocuta:24.1,Hyaena\_hyaena:24.1,Parahyaena\_brunnea:24.1)'1274\_Hyaeninae':0.2,Proteles\_cristatus:24.3)'1273\_Hyaenidae':14.3)'1238':3.0,((((((Helogale\_hirtula:6.3,Helogale\_parvula:6.3)'1285\_Helogale':3.0,(Mungos\_gambianus:4.0,Mungos\_mungo:4.0)'1286\_Mungos':5.3)'1284':0.4,(Crossarchus\_alexandri:5.1,Crossarchus\_ansorgei:5.1,Crossarchus\_obscurus:5.1)'1287\_Crossarchus':4.6)'1283':1.7,Ichneumia\_alb

icauda:11.4)'1282':0.5,Suricata\_suricatta:11.9)'1281':3.2,(Bdeogale\_crassicauda:7.0,Bdeogale\_jacksoni:7.0,Bdeogale\_nigripes:7.0)'1288\_Bdeogale':8.1,Liberictis\_kuhni:15.1)'1280':2.8,(Cynictis\_penicillata:4.8,Paracynictis\_selousi:4.8)'1289':13.1)'1279':0.2,(((Herpestes\_edwardsii:5.8,Herpestes\_javanicus:5.8)'1292':4.5,Herpestes\_brachyurus:10.3,Herpestes\_urva:10.3)'1291':6.6,Herpestes\_ichneumon:16.9,Herpestes\_naso:16.9,Herpestes\_palustris:16.9,Herpestes\_semitorquatus:16.9,Herpestes\_smithii:16.9,Herpestes\_vitticollis:16.9)'1290\_Herpestes':1.2,(Galerella\_flavescens:13.8,Galerella\_pulverulenta:13.8,Galerella\_sanguinea:13.8,Galerella\_swalius:13.8)'1293\_Galerella':4.3)'1278':5.2,Atilax\_paludinosus:23.3,Dologale\_dybowskii:23.3,Rhynchogale\_melleri:23.3)'1277\_Herpestinae':12.4,((Galidictis\_fasciata:6.5,Galidictis\_grandidieri:6.5)'1295\_Galidictis':8.3,Galidia\_elegans:14.8,Mungotictis\_decemlineata:14.8,Salanoia\_concolor:14.8)'1294\_Galidiinae':20.9)'1276\_Herpestidae':1.1,((((((Genetta\_abyssinica:3.2,Genetta\_thierryi:3.2)'1305':3.3,Genetta\_johnstoni:6.5)'1304':0.3,(Genetta\_angolensis:3.7,Genetta\_maculata:3.7)'1306':3.1)'1303':0.2,(Genetta\_genetta:5.8,Genetta\_tigrina:5.8)'1307':1.2)'1302':1.2,(Genetta\_servalina:7.7,Genetta\_victoriae:7.7)'1308':0.5)'1301\_Genetta':3.6,((Prionodon\_linsang:3.2,Prionodon\_pardicolor:3.2)'1310\_Prionodon':7.5,Poiana\_richardsonii:10.7)'1309':1.1)'1300':0.2,Osbornictis\_piscivora:12.0)'1299':7.5,(((Viverra\_civettina:3.9,Viverra\_megaspila:3.9)'1314':1.5,(Viverra\_tangalunga:4.1,Viverra\_zibetha:4.1)'1315':1.3)'1313\_Viverra':5.4,Viverricula\_indica:10.8)'1312':2.9,Civettictis\_civetta:13.7)'1311':5.8)'1298\_Viverrinae':4.4,((((((Paradoxurus\_jerdoni:5.5,Paradoxurus\_zeylonensis:5.5)'1322':3.7,Paradoxurus\_hermaphroditus:9.2)'1321\_Paradoxurus':2.1,(Arctictis\_binturong:5.8,Paguma\_larvata:5.8)'1323':5.5)'1320':4.2,Macrogalidia\_musschenbroekii:15.5)'1319':1.1,Arctogalidia\_trivirgata:16.6)'1318\_Paradoxurinae':5.9,Nandinia\_binotata:22.5)'1317':0.5,((Chrotogale\_owstoni:14.0,Diplogale\_hosei:14.0,Hemigalus\_derbyanus:14.0)'1325':0.2,Cynogale\_bennetti:i:14.2)'1324\_Hemigalinae':8.8)'1316':0.9)'1297':12.7,((Eupleres\_goudotii:10.2,Fossa\_fossana:10.2)'1327\_Euplerinae':17.0,Cryptoprocta\_ferox:27.2)'1326':9.4)'1296\_Viverridae':0.2)'1275':4.8)'1237':21.8)'1119\_Carnivora':18.0,((Manis\_javanica:13.3,(Manis\_crassicaudata:8.4,Manis\_pentadactyla:8.4)'1330':4.9)'1329':5.8,(Manis\_gigantea:16.8,Manis\_temminckii:16.8,Manis\_tetradactyla:16.8,Manis\_tricuspis:16.8)'1331':2.3)'1328\_Pholidota\_Manidae\_Manis':62.3)'1118':3.2)'930':0.2,(((Paranyctimene\_raptor:18.1,(Nyctimene\_aello:3.4,Nyctimene\_celaeno:3.4)'1337':3.9,(Nyctimene\_certans:3.4,Nyctimene\_cyclotis:3.4)'1338':3.9,(Nyctimene\_major:7.1,Nyctimene\_robinsoni:7.1)'1339':0.2,(Nyctimene\_albiventer:5.5,Nyctimene\_draconilla:5.5,Nyctimene\_minutus:5.5)'1340':1.8,(Nyctimene\_cephalotes:7.1,Nyctimene\_rabori:7.1,Nyctimene\_malaitensis:7.1,Nyctimene\_masalai:7.1,Nyctimene\_vizcaccia:7.1)'1341':0.2)'1336\_Nyctimene':10.8)'1335':6.6,(Sphaerias\_blanfordi:21.0,(Alionycteris\_paucidentata:8.0,(Otopteropus\_cartilagonodus:4.7,Haplonycteris\_fischeri:4.7)'1344':3.3)'1343':13.0,(Latidens\_salimalii:8.0,(Pentheter\_lucasi:4.7,Thoopterus\_nigrescens:4.7)'1346':3.3)'1345':13.0,(Aethalops\_alecto:11.7,(Balionycteris\_maculata:5.6,Chironax\_melanocephalus:5.6)'1348':6.1)'1347':9.3,(Dyacopterus\_spadiceus:9.4,(Ptenochirus\_jagori:4.0,Ptenochirus\_minor:4.0)'1350\_Ptenochirus':5.4,(Megaerops\_ecaudatus:8.0,Megaerops\_kusnotoi:8.0,Megaerops\_niphanae:8.0,Megaerops\_wetmorei:8.0)'1351\_Megaerops':1.4,((Cynopterus\_sphinx:3.7,Cynopterus\_brachyotis:3.7)'1353':5.5,(Cynopterus\_nusatenggara:5.9,(Cynopterus\_horsfieldi:3.7,Cynopterus\_titthaecheilus:3.7)'1355':2.2)'1354':3.3)'1352\_Cynopterus':0.2)'1349':11.6)'1342':3.7)'1334\_Pteropodinael\*':0.4,((Boneia\_bidens:13.3,Rousettus\_angolensis:13.3,Megalogglossus\_woermannii:13.3,(Eidolon\_helvum:3.8,Eidolon\_dupreanum:3.8)'1358\_Pteropodinae2\*Eidolon':9.5,(Myonycteris\_relicita:5.9,Myonycteris\_brachycephala:5.9,Myonycteris\_torquata:5.9)'1359\_Pteropodinae3\*Myonycteris':7.4,(Rousettus\_lanosus:3.0,(Rousettus\_egyptiacus:1.2,Rousettus\_amplexicaudatus:1.2,Rousettus\_celebensis:1.2,Rousettus\_leschenaulti:1.2,Rousettus\_madagascariensis:1.2,Rousettus\_obliviosus:1.2,Rousettus\_spinalatus:1.2)'1361':1.8)'1360\_Pteropodinae4\*Rousettus\*':10.3,(Plerotes\_anchietai:13.2,((Casinycteris\_argynnus:4.4,(Scotonycteris\_ophiodon:2.6,Scotonycteris\_zenkeri:2.6)'1365\_Scotonycteris':1.8)'1364':6.0,(Nanonycteris\_veldkampi:4.5,(Hypsognathus\_monstrosus:3.5,(Epomops\_buettikoferi:2.2,Epomops\_dobsoni:2.2,Epomops\_franqueti:2.2)'1368\_Epomops':1.3)'1367':1.0,((Micropter

opus\_intermedius:1.0, Micropteropus\_pusillus:1.0)'1370\_Micropteropus':1.4, (Epmophorus\_wahlbergi:2.2, (Epomophorus\_angolensis:2.1, Epomophorus\_gambianus:2.1, Epomophorus\_grandis:2.1, Epomophorus\_labiatus:2.1, Epomophorus\_minimus:2.1)'1372':0.1)'1371\_Epomophorus':0.2)'1369':2.1)'1366':5.9)'1363':2.8)'1362\_Pteropodinae5\*:0.1)'1357':11.3, ((Eonycteris\_major:4.8, Eonycteris\_spelaea:4.8)'1375\_Eonycteris':18.4, ((Macroglossus\_minimus:5.4, Macroglossus\_sobrinus:5.4)'1377\_Macroglossus':15.1, ((Syconycteris\_australis:9.8, Syconycteris\_carolinae:9.8, Syconycteris\_hobbit:9.8)'1379\_Syconycteris':10.5, (Notopteris\_macdonaldi:20.2, (Melonycteris\_melanops:12.2, (Melonycteris\_aurantius:8.2, Melonycteris\_woodfordi:8.2)'1382'):4.0)'1381\_Melonycteris':8.0)'1380':0.1)'1378':0.2)'1376':2.7)'1374\_Macroglossinae\*:1.2, ((Harpyionycteris\_celebensis:3.9, Harpyionycteris\_whiteheadi:3.9)'1384\_Harpyionycteris':20.3, ((Aproteles\_bulmerae:14.3, ((Dobsonia\_beauforti:1.0, Dobsonia\_inermis:1.0, Dobsonia\_praedatrix:1.0, Dobsonia\_viridis:1.0)'1388'):0.2, Dobsonia\_minor:1.2, Dobsonia\_peroni:1.2, Dobsonia\_emersa:1.2, Dobsonia\_exoleta:1.2, Dobsonia\_moluccensis:1.2, Dobsonia\_pannietensis:1.2)'1387\_Dobsonia':13.1)'1386':8.1, ((Styloctenium\_wallacei:3.6, Neopteryx\_frosti:3.6)'1390'):17.7, ((Pteralopex\_acrodonta:7.1, Pteralopex\_anceps:7.1, Pteralopex\_atrata:7.1, Pteralopex\_pulchra:7.1)'1392\_Pteralopex':13.9, ((Acerodon\_celebensis:6.3, Acerodon\_humilis:6.3, Acerodon\_jubatus:6.3, Acerodon\_leucotis:6.3, Acerodon\_mackloti:6.3)'1394\_Acerodon':6.2, (Pteropus\_sanctacrucis:12.4, Pteropus\_mearnsi:12.4, Pteropus\_speciosus:12.4, Pteropus\_neohibernicus:12.4, Pteropus\_howensis:12.4, Pteropus\_ornatus:12.4, Pteropus\_pumilus:12.4, Pteropus\_melanotus:12.4, Pteropus\_hypomelanus:12.4, Pteropus\_griseus:12.4, Pteropus\_admiralitatum:12.4, Pteropus\_alecto:12.4, Pteropus\_faunulus:12.4, Pteropus\_dasymallus:12.4, (Pteropus\_livingstonii:2.5, Pteropus\_melanopogon:2.5)'1396':9.9, (Pteropus\_caniceps:2.5, Pteropus\_argentatus:2.5)'1397':9.9, (Pteropus\_conspicillatus:2.5, Pteropus\_ocularis:2.5)'1398':9.9, (Pteropus\_anetianus:0.2, Pteropus\_samoensis:0.2)'1399':12.2, (Pteropus\_mariannus:2.5, Pteropus\_tonganus:2.5)'1400':9.9, (Pteropus\_personatus:12.2, Pteropus\_temmincki:12.2)'1401':0.2, (Pteropus\_macrotis:4.0, Pteropus\_pohlei:4.0, Pteropus\_poliocephalus:4.0)'1402':8.4, (Pteropus\_lombocensis:4.0, Pteropus\_molossinus:4.0, Pteropus\_roridensis:4.0)'1403':8.4, (Pteropus\_chrysoproctus:4.0, Pteropus\_fundatus:4.0, Pteropus\_rayneri:4.0)'1404':8.4, (Pteropus\_giganteus:4.0, Pteropus\_lylei:4.0, Pteropus\_vampyrus:4.0)'1405':8.4, (Pteropus\_gilliardi:12.2, Pteropus\_mahaganus:12.2, Pteropus\_scapulatus:12.2, Pteropus\_woodfordi:12.2)'1406':0.2, (Pteropus\_aldabrensis:5.8, Pteropus\_seychellensis:5.8, Pteropus\_niger:5.8, Pteropus\_rufus:5.8, Pteropus\_voeltzkowi:5.8)'1407':6.6, (Pteropus\_insularis:7.0, Pteropus\_leucopterus:7.0, Pteropus\_nitendiensis:7.0, Pteropus\_phaeocephalus:7.0, Pteropus\_pselaphon:7.0, Pteropus\_tuberculatus:7.0, Pteropus\_vetus:7.0)'1408':5.4)'1395\_Pteropus':0.1)'1393':8.5)'1391':0.3)'1389':1.1)'1385':1.8)'1383\_Pteropodinae6\*:0.2)'1373':0.2)'1356':0.5)'1333\_Pteropodidae':46.1, (((((Saccolaimus\_peli:19.8, (Saccolaimus\_flaviventris:17.5, Saccolaimus\_mixtus:17.5, (Saccolaimus\_pluto:9.1, Saccolaimus\_saccolaimus:9.1)'1415':8.4)'1414':2.3)'1413\_Saccolaimus':15.2, ((Taphozous\_hamiltoni:8.8, Taphozous\_nudiventris:8.8)'1417':22.7, (Taphozous\_theobaldi:30.3, ((Taphozous\_hilli:18.3, (Taphozous\_australis:14.5, Taphozous\_georgianus:14.5, Taphozous\_kapalgensis:14.5)'1421':3.8)'1420':11.9, (Taphozous\_hildegardeae:23.6, Taphozous\_longimanus:23.6, Taphozous\_mauritianus:23.6, Taphozous\_perforatus:23.6, (Taphozous\_melanopogon:9.1, Taphozous\_philippensis:9.1)'1423':14.5)'1422':6.6)'1419':0.1)'1418':1.2)'1416\_Taphozous':3.5)'1412':15.8, ((Mosia\_nigrescens:29.9, (Emballonura\_atrata:29.3, Emballonura\_beccarii:29.3, Emballonura\_dianae:29.3, Emballonura\_furax:29.3, Emballonura\_raffrayana:29.3, Emballonura\_semicaudata:29.3, (Coleura\_afra:9.0, Coleura\_seychellensis:9.0)'1427\_Coleura'):20.3, (Emballonura\_alecto:9.0, Emballonura\_monticola:9.0)'1428\_Emballonura\*:20.3)'1426':0.6)'1425':13.1, ((Rhynchonycteris\_naso:32.8, (Cyttarops\_alecto:23.2, (Diclidurus\_isabellus:20.5, (Diclidurus\_scutatus:16.7, (Diclidurus\_albus:11.2, Diclidurus\_ingens:11.2)'1434':5.5)'1433':3.8)'1432\_Diclidurus':2.7)'1431':9.6)'1430':1.5, (Centronycteris\_maximiliani:33.1, Cormura\_brevirostris:33.1, ((Saccopteryx\_bilineata:9.4, Saccopteryx\_leptura:9.4)'1437':8.6, (Saccopteryx\_gymnura:8.8, Saccopteryx\_canescens:8.8)'1438':9.2)'1436\_Saccopteryx':15.1, ((Balantiopteryx\_io:14.9, Balantiopteryx\_infusca:14.9, Balantiopteryx\_plicata:14.9)'1440\_Balantiopteryx':12.4, (Peropteryx\_leucoptera:15.6, (Peropteryx\_kappleri:

11.1, *Peropteryx macrotis*:11.1) '1442':4.5) '1441\_ *Peropteryx*':11.7) '1439':5.8) '1  
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*onglongyai*:16.3, (*Rhinopoma hardwickei*:13.1, *Rhinopoma microphyllum*:13.1, *Rhinop*  
*oma muscatellum*:13.1) '1445\_ *Rhinopomatidae Rhinopoma*':3.2) '1444':45.5, ((*Cardio*  
*derma cor*:26.1, *Lavia frons*:26.1, *Macroderma gigas*:26.1, (*Megaderma lyra*:9.4, *Meg*  
*aderma spasma*:9.4) '1448\_ *Megaderma*':16.7) '1447\_ *Megadermatidae*':35.5, ((*Nycteri*  
*s javanica*:6.8, *Nycteris tragata*:6.8) '1451':5.8, (*Nycteris arge*:12.4, *Nycteris i*  
*ntermedia*:12.4, *Nycteris major*:12.4, *Nycteris nana*:12.4) '1452':0.2, ((*Nycteris g*  
*ambiensis*:5.7, *Nycteris thebaica*:5.7) '1454':4.9, (*Nycteris grandis*:5.7, *Nycteris*  
*hispida*:5.7) '1455':4.9, (*Nycteris macrotis*:5.7, *Nycteris woodi*:5.7) '1456':4.9)  
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, *Hipposideros fuliginosus*:42.1, *Hipposideros fulvus*:42.1, *Hipposideros galeritu*  
*s*:42.1, *Hipposideros halophyllus*:42.1, *Hipposideros jonesi*:42.1, *Hipposideros ma*  
*crobullatus*:42.1, *Hipposideros maggietaaylorae*:42.1, *Hipposideros marisae*:42.1, *H*  
*ipposideros megalotis*:42.1, *Hipposideros nequam*:42.1, *Hipposideros obscurus*:42.  
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, *Hipposideros ridleyi*:42.1, *Hipposideros speoris*:42.1, (*Hipposideros doriae*:7.6  
, *Hipposideros sabanus*:7.6) '1480\_ *Hipposideros*1\*:34.5, (*Hipposideros coronatus*:  
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*ercivali*:7.6, *Aselliscus stoliczkanus*:7.6) '1484':34.5, (*Hipposideros armiger*:35  
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:35.7, *Hipposideros inexpectatus*:35.7, *Hipposideros lankadiva*:35.7, *Hipposideros*  
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*sideros turpis*:35.7, (*Hipposideros lylei*:8.0, *Hipposideros pratti*:8.0) '1486\_ *Hip*  
*posideros*5\*:27.7, ((*Asellia patrizii*:8.0, *Asellia tridens*:8.0) '1488\_ *Asellia*':1  
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ucus:4.7) '1582':0.6) '1581':1.3) '1580':1.7, ((Artibeus\_concolor:6.1, (Artibeus\_fimbriatus:5.9, (Artibeus\_amplus:3.9, (Artibeus\_jamaicensis:3.8, Artibeus\_lituratus:3.8, Artibeus\_obscurus:3.8, Artibeus\_planirostris:3.8, (Artibeus\_fraterculus:3.6, (Artibeus\_hirsutus:3.0, Artibeus\_inopinatus:3.0) '1588':0.6) '1587':0.2) '1586':0.1) '1585':2.0) '1584':0.2) '1583':2.2) '1579':4.1) '1578\_Artibeus':0.7, (Ectophylla\_alba:10.8, (Chiroderma\_salvini:4.4, ((Chiroderma\_improvisum:2.1, Chiroderma\_villosum:2.1) '1592':2.1, (Chiroderma\_doriae:2.1, Chiroderma\_trinitatum:2.1) '1593':2.1) '1591':0.2) '1590\_Chiroderma':6.4, (Mesophylla\_macconnelli:10.5, ((Vampyressa\_melissa:3.4, Vampyressa\_pusilla:3.4) '1596':6.5, (Vampyressa\_bidens:5.9, Vampyressa\_brocki:5.9, Vampyressa\_nymphaea:5.9) '1597':4.0) '1595\_Vampyressa':0.6) '1594':0.3, ((Uroderma\_bilobatum:3.0, Uroderma\_magnirostrum:3.0) '1599\_Uroderma':7.2, (Vampyrodes\_caraccioli:8.3, (Platyrrhinus\_aurarius:8.2, 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'1613':2.5) '1612':9.4, (Mormopterus\_petrophilus:14.8, ((Mormopterus\_kalinowskii:7.9, Mormopterus\_minutus:7.9, Mormopterus\_phrudus:7.9) '1616':5.3, (Mormopterus\_doriae:7.9, Mormopterus\_jugularis:7.9, Mormopterus\_acetabulosus:7.9) '1617':5.3) '1615':1.6) '1614':5.2) '1611\_Mormopterus':4.3, ((Tadarida\_espiritosantensis:13.6, Tadarida\_brasiliensis:11.9, (Tadarida\_australis:10.2, Tadarida\_aegyptiaca:10.2, (Tadarida\_fulmina:ns:7.9, Tadarida\_lobata:7.9, Tadarida\_teniotis:7.9, Tadarida\_ventralis:7.9) '1622':2.3) '1621':1.7) '1620':1.7) '1619\_Tadarida':10.0, ((Nyctinomops\_aurispinosus:10.4, Nyctinomops\_femorosaccus:10.4, Nyctinomops\_laticaudatus:10.4, Nyctinomops\_macrotis:10.4) '1624\_Nyctinomops':12.5, ((Otomops\_formosus:10.3, Otomops\_martiensseni:10.3, Otomops\_papuensis:10.3, Otomops\_secundus:10.3, Otomops\_wroughtoni:10.3) '1627\_Otomops':12.3, ((Promops\_centralis:6.0, Promops\_nasutus:6.0) '1630\_Promops':16.3, (Molossus\_sinaloae:22.2, (Molossus\_bondae:22.0, Molossus\_molossus:22.0, (Molossus\_ater:8.9, Molossus\_pretiosus:8.9) '1633':13.1) '1632':0.2) '1631\_Molossus':0.1) '1629':0.2, ((Eumops\_hansae:5.1, Eumops\_perotis:5.1) '1635':9.7, (Eumops\_dabbenei:13.2, (Eumops\_bonariensis:12.3, (Eumops\_maurus:11.2, (Eumops\_glaucus:9.1, (Eumops\_auripendulus:5.8, Eumops\_underwoodi:5.8) '1640':3.3) '1639':2.1) '1638':1.1) '1637':0.9) '1636':1.6) '1634\_Eumops':7.7) '1628':0.1) '1626':0.2, (((Chaerephon\_ansorgei:5.2, Chaerephon\_bemmeleni:5.2, Chaerephon\_bivittata:5.2) '1643':6.5, (Chaerephon\_aloysiisabaudiae:10.8, Chaerephon\_chapini:10.8, Chaerephon\_gallagheri:10.8, Chaerephon\_jobensis:10.8, Chaerephon\_johorensis:10.8, Chaerephon\_major:10.8, Chaerephon\_nigeriae:10.8, Chaerephon\_plicata:10.8, Chaerephon\_pumila:10.8, Chaerephon\_russata:10.8) '1644':0.9) '1642\_Chaerephon':0.2, ((Mops\_brachypterus:7.6, Mops\_nanulus:7.6, Mops\_petersoni:7.6, Mops\_spurrelli:7.6, Mops\_thersites:7.6) '1646':4.1, (Mops\_conicus:10.3, Mops\_condylurus:10.3, Mops\_midas:10.3, Mops\_mops:10.3, Mops\_niangarae:10.3, Mops\_sarasinorum:10.3, Mops\_trevori:10.3, (Mops\_demonstrator:3.1, Mops\_niveiventer:3.1) '1648':7.2) '1647':1.4) '1645\_Mops':0.2) '1641':10.9) '1625':0.1) '1623':0.7) '1618':0.7) '1604\_Molossidae':14.1) '1603':15.6, ((Miniopterus\_schreibersi:14.8, (Miniopterus\_robustior:5.8, Miniopterus\_tristis:5.8) '1651':9.0, (Miniopterus\_inflatus:5.8, Miniopterus\_magnater:5.8) '1652':9.0, (Miniopterus\_fraterculus:5.8, Miniopterus\_fuscus:5.8) '1653':9.0, (Miniopterus\_australis:8.7, Miniopterus\_minor:8.7, Miniopterus\_pusillus:8.7) '1654':6.1) '1650\_Miniopterinae\_Miniopterus':36.8, (Eudiscopus\_denticulus:26.0, Hesperoptenus\_doriae:26.0, Ia\_io:26.0, Lasionycteris\_noctivagans:26.0, Mimetillus\_moloneyi:26.0, Nycticeius\_humeralis:26.0, Nycticeius\_rueppellii:26.0, Otonycteris\_hemprichii:26.0, Philetor\_brachypterus:26.0, Pipistrellus\_dormeri:26.0, Pipistrellus\_subflavus:26.0, (Antrozous\_dubiaquercus:11.8, Antrozous\_pallidus:11.8) '1656\_Vesper

tilioninae1\* *Antrozous*' :14.2, (*Glischropus\_javanus*:5.3, *Glischropus\_tylopus*:5.3 )'1657\_ *Vespertilioninae2*\* *Glischropus*' :20.7, (*Pipistrellus\_anchietai*:5.3, *Pipistrellus\_eisentrauti*:5.3 )'1658\_ *Vespertilioninae3*\* *Pipistrellus1*\*':20.7, (*Pipistrellus\_hesperus*:5.3, *Pipistrellus\_musciculus*:5.3 )'1659\_ *Vespertilioninae4*\* *Pipistrellus2*\*':20.7, (*Tylonycteris\_pachypus*:5.3, *Tylonycteris\_robustula*:5.3 )'1660\_ *Vespertilioninae5*\* *Tylonycteris*' :20.7, (*Vespertilio\_murinus*:8.9, *Vespertilio\_supperans*:8.9)'1661\_ *Vespertilioninae6*\* *Vespertilio*' :17.1, (*Pipistrellus\_anthonyi*:8.4, *Pipistrellus\_joffrei*:8.4, *Pipistrellus\_stenopterus*:8.4)'1662\_ *Vespertilioninae7*\* *Pipistrellus3*\*':17.6, (*Pipistrellus\_crassulus*:8.4, *Pipistrellus\_nanulus*:8.4, *Pipistrellus\_rueppelli*:8.4)'1663\_ *Vespertilioninae8*\* *Pipistrellus4*\*':17.6, (*Pipistrellus\_circumdatus*:8.4, *Pipistrellus\_cuprosus*:8.4, *Pipistrellus\_societatis*:8.4)'1664\_ *Vespertilioninae9*\* *Pipistrellus5*\*':17.6, (*Scotoecus\_pallidus*:8.4, (*Scotoecus\_albofuscus*:5.0, *Scotoecus\_hirundo*:5.0)'1666':3.4)'1665\_ *Vespertilioninae10*\* *Scotoecus*' :17.6, (*Pipistrellus\_imbricatus*:8.4, (*Pipistrellus\_arabicus*:5.0, *Pipistrellus\_nanus*:5.0)'1668':3.4)'1667\_ *Vespertilioninae11*\* *Pipistrellus6*\*':17.6, (*Pipistrellus\_pulveratus*:8.4, (*Pipistrellus\_kitcheneri*:5.0, *Pipistrellus\_lophurus*:5.0)'1670':3.4)'1669\_ *Vespertilioninae12*\* *Pipistrellus7*\*':17.6, (*Hesperoptenus\_blanfordi*:10.6, *Hesperoptenus\_gaskelli*:10.6, *Hesperoptenus\_tickelli*:10.6, *Hesperoptenus\_tomesi*:10.6)'1671\_ *Vespertilioninae13*\* *Hesperoptenus*\*':15.4, (*Histiotus\_alienus*:10.6, *Histiotus\_macrotus*:10.6, *Histiotus\_montanus*:10.6, *Histiotus\_velatus*:10.6)'1672\_ *Vespertilioninae14*\* *Histiotus*' :15.4, (*Laephotis\_angolensis*:10.6, *Laephotis\_botswanae*:10.6, *Laephotis\_namibensis*:10.6, *Laephotis\_wintoni*:10.6)'1673\_ *Vespertilioninae15*\* *Laephotis*' :15.4, (*Pipistrellus\_tasmaniensis*:10.6, (*Pipistrellus\_affinis*:8.0, *Pipistrellus\_mordax*:8.0, *Pipistrellus\_petersi*:8.0)'1675':2.6)'1674\_ *Vespertilioninae16*\* *Pipistrellus8*\*':15.4, (*Nycticeius\_schlieffeni*:10.6, (*Nycticeius\_balstoni*:8.0, (*Nycticeius\_greyii*:4.7, *Nycticeius\_sanborni*:4.7)'1678':3.3)'1677':2.6)'1676\_ *Vespertilioninae17*\* *Nycticeius*\*':15.4, (*Pipistrellus\_cadornae*:12.4, *Pipistrellus\_macrotis*:12.4, (*Pipistrellus\_ariel*:8.0, *Pipistrellus\_bodenheimeri*:8.0, *Pipistrellus\_savii*:8.0)'1680':4.4)'1679\_ *Vespertilioninae18*\* *Pipistrellus9*\*':13.6, (*Eptesicus\_baverstocki*:10.0, *Eptesicus\_douglasorum*:10.0, *Eptesicus\_pumilus*:10.0, *Eptesicus\_sagittula*:10.0, *Eptesicus\_regulus*:10.0, *Eptesicus\_vulturnus*:10.0)'1681\_ *Vespertilioninae19*\* *Eptesicus1*\*':16.0, (*Nyctalus\_azoreum*:5.5, *Nyctalus\_aviator*:5.5, *Nyctalus\_lasiopterus*:5.5, *Nyctalus\_leisleri*:5.5, *Nyctalus\_montanus*:5.5, *Nyctalus\_noctula*:5.5)'1682\_ *Vespertilioninae20*\* *Nyctalus*' :20.5, (*Chalinolobus\_tuberculatus*:10.8, (*Chalinolobus\_dwyeri*:10.4, *Chalinolobus\_gouldii*:10.4, *Chalinolobus\_morio*:10.4, *Chalinolobus\_nigrogriseus*:10.4, *Chalinolobus\_picatus*:10.4)'1684':0.4)'1683\_ *Vespertilioninae21*\* *Chalinolobus1*\*':15.2, (*Rhogeessa\_alleni*:9.1, (*Rhogeessa\_mira*:5.8, (*Rhogeessa\_gracilis*:5.6, (*Rhogeessa\_genowayi*:4.1, *Rhogeessa\_minutilla*:4.1, *Rhogeessa\_parvula*:4.1, *Rhogeessa\_tumida*:4.1)'1688':1.5)'1687':0.2)'1686':3.3)'1685\_ *Vespertilioninae22*\* *Rhogeessa*' :16.9, (*Lasiurus\_egregius*:11.1, (*Lasiurus\_egregius*:4.7, *Lasiurus\_intermedius*:4.7)'1690':6.4, (*Lasiurus\_cinerereus*:8.1, *Lasiurus\_castaneus*:8.1, (*Lasiurus\_borealis*:3.0, *Lasiurus\_seminolus*:3.0)'1692':5.1)'1691':3.0)'1689\_ *Vespertilioninae23*\* *Lasiurus*' :14.9, ((*Eptesicus\_flavescens*:7.3, *Eptesicus\_rendalli*:7.3, *Eptesicus\_tenuipinnis*:7.3)'1694':4.0, (*Eptesicus\_brunneus*:10.7, *Eptesicus\_capensis*:10.7, *Eptesicus\_guineensis*:10.7, *Eptesicus\_melckorum*:10.7, *Eptesicus\_somalicus*:10.7)'1695':0.6)'1693\_ *Vespertilioninae24*\* *Eptesicus2*\*':14.7, (*Chalinolobus\_alboguttatus*:6.7, *Chalinolobus\_argentatus*:6.7, *Chalinolobus\_beatrix*:6.7, *Chalinolobus\_egeria*:6.7, *Chalinolobus\_gleni*:6.7, *Chalinolobus\_kenyacola*:6.7, *Chalinolobus\_poensis*:6.7, *Chalinolobus\_superbus*:6.7, *Chalinolobus\_variegatus*:6.7)'1696\_ *Vespertilioninae25*\* *Chalinolobus2*\*':19.3, (*Pharotis\_imogene*:14.5, (*Nyctophilus\_arnhemensis*:7.0, *Nyctophilus\_geoffroyi*:7.0, *Nyctophilus\_gouldi*:7.0, *Nyctophilus\_heran*:7.0, *Nyctophilus\_microdon*:7.0, *Nyctophilus\_microtis*:7.0, *Nyctophilus\_timoriensis*:7.0, *Nyctophilus\_walker*i:7.0)'1698\_ *Nyctophilus*' :7.5)'1697\_ *Vespertilioninae26*\*':11.5, ((*Barbastella\_barbastellus*:12.4, *Barbastella\_leucomelas*:12.4)'1700\_ *Barbastella*' :7.1, ((*Euderma\_maculatum*:15.8, *Idionycteris\_phyllotis*:15.8)'1702':2.7, ((*Plecotus\_rufipes*:7.9, (*Plecotus\_mexicanus*:2.9, *Plecotus\_townsendii*:2.9)'1705':5.0)'1704':9.2, ((*Plecotus\_austriacus*:6.0, *Plecotus\_teneriffae*:6.0)'1707':7.6, (*Plecotus\_auritus*:6.0, *Plecotus\_taivanus*:6.0)'1708':7.6)'1706':3.5)'1703\_ *Plecotus*' :1.4)'1701':1.0)'1699\_ *Vespertilioninae27*\*':6.5, ((*Scotomanes\_emarginatus*:5.2, *Scoto-*

manes\_ornatus:5.2)'1710\_Scotomanes':14.7,(Scotophilus\_kuhlii:5.1,Scotophilus\_nigrita:5.1,(Scotophilus\_borbonicus:3.9,Scotophilus\_viridis:3.9)'1712':1.2,(Scotophilus\_celebensis:3.9,Scotophilus\_heathi:3.9)'1713':1.2,(Scotophilus\_leucogaster:4.8,(Scotophilus\_dinganii:4.7,Scotophilus\_nux:4.7,Scotophilus\_robustus:4.7)'1715':0.1)'1714':0.3)'1711\_Scotophilus':14.8)'1709\_Vespertilioninae28\*':6.1,((Pipistrellus\_minahassae:4.6,Pipistrellus\_ceylonicus:4.6)'1717':11.5,((Pipistrellus\_aegyptius:11.9,Pipistrellus\_aero:11.9,Pipistrellus\_inexspectatus:11.9,Pipistrellus\_kuhlii:11.9,Pipistrellus\_maderensis:11.9,Pipistrellus\_rusticus:11.9)'1718':4.2,((Pipistrellus\_nathusii:12.7,Pipistrellus\_permixtus:12.7,Pipistrellus\_pipistrellus:12.7)'1720':1.2,((Pipistrellus\_coromandra:7.8,Pipistrellus\_mimus:7.8,Pipistrellus\_tenuis:7.8)'1722':1.2,(Pipistrellus\_babu:8.5,Pipistrellus\_endoi:8.5,Pipistrellus\_javanicus:8.5,Pipistrellus\_paterculus:8.5,Pipistrellus\_peguensis:8.5)'1723':0.5)'1721':4.9)'1719':2.2)'1716\_Vespertilioninae29\*':9.9,(Eptesicus\_floweri:19.2,(Eptesicus\_nasutus:10.2,(Eptesicus\_bobrinskoi:3.7,Eptesicus\_nilssonii:3.7)'1726':6.5,((Eptesicus\_diminutus:2.9,Eptesicus\_innoxius:2.9)'1728':6.6,Eptesicus\_brasiliensis:9.5,Eptesicus\_bottae:9.5,Eptesicus\_demissus:9.5,Eptesicus\_furinalis:9.5,Eptesicus\_fuscus:9.5,Eptesicus\_guadeloupensis:9.5,Eptesicus\_hottentotus:9.5,Eptesicus\_kobayashii:9.5,Eptesicus\_pachyotis:9.5,Eptesicus\_platyops:9.5,Eptesicus\_serotinus:9.5,Eptesicus\_tatei:9.5)'1727':0.7)'1725':9.0)'1724\_Vespertilioninae30\*':9.5,Eptesicus3\*':6.8,((Harpiocephalus\_harpia:11.1,(Murina\_grisea:10.9,((Murina\_aenea:6.3,Murina\_cyclotis:6.3,Murina\_huttoni:6.3,Murina puta:6.3,Murina\_rozendaali:6.3)'1733':4.5,(Murina\_aurata:7.5,Murina\_florium:7.5,Murina\_silvatica:7.5,Murina\_suilla:7.5,Murina\_tenebrosa:7.5,Murina\_tubinaria:7.5,Murina\_ussuricensis:7.5,(Murina\_fusca:2.6,Murina\_leucogaster:2.6)'1735':4.9)'1734':3.3)'1732':0.1)'1731\_Murina':0.2)'1730\_Murininae':3.7,((Kerivoula\_aerosa:7.7,Kerivoula\_atrox:7.7,Kerivoula\_jagorii:7.7,Kerivoula\_papuensis:7.7)'1737':6.9,(Kerivoula\_agnelala:7.7,Kerivoula\_argentata:7.7,Kerivoula\_cuprosa:7.7,Kerivoula\_eriophora:7.7,Kerivoula\_flora:7.7,Kerivoula\_hardwickei:7.7,Kerivoula\_intermedia:7.7,Kerivoula\_lanosa:7.7,Kerivoula\_minuta:7.7,Kerivoula\_muscina:7.7,Kerivoula\_myrella:7.7,Kerivoula\_papillosa:7.7,Kerivoula\_pellucida:7.7,Kerivoula\_phalaena:7.7,Kerivoula\_picta:7.7,Kerivoula\_smithii:7.7,Kerivoula\_whiteheadi:7.7)'1738':6.9)'1736\_Kerivoulinae\_Kerivoula':0.2)'1729':11.2,(Myotis\_abeii:10.9,Myotis\_aelleni:10.9,Myotis\_albescens:10.9,Myotis\_austroriparius:10.9,Myotis\_chiloensis:10.9,Myotis\_cobanensis:10.9,Myotis\_dasygnome:10.9,Myotis\_fortidens:10.9,Myotis\_griseescens:10.9,Myotis\_levis:10.9,Myotis\_lucifugus:10.9,Myotis\_montivagus:10.9,Myotis\_oxyotus:10.9,Myotis\_peninsularis:10.9,Myotis\_ricketti:10.9,Myotis.velifer:10.9,Myotis.volans:10.9,Myotis.yumanensis:10.9,(Myotis.lesueuri:1.0,Myotis.seabrai:1.0)'1740':9.9,(Myotis.macrotaurus:8.2,Myotis.stalkeri:8.2,Myotis.vivesi:8.2)'1741':2.7,(Myotis.riparius:4.7,(Myotis.simus:3.3,Myotis.ruber:3.3)'1743':1.4)'1742':6.2,(Myotis.adversus:7.0,Myotis.bocagei:7.0,Myotis.hasseltii:7.0,Myotis.horsfieldii:7.0)'1744':3.9,(Myotis.capaccinii:6.3,Myotis.daubentonii:6.3,Myotis.longipes:6.3,Myotis.macrodactylus:6.3,Myotis.pruinosus:6.3)'1745':4.6,((Myotis.formosus:5.1,Myotis.welwitschii:5.1)'1747':2.9,(Myotis.emarginatus:4.3,Myotis.goudotii:4.3,Myotis.morrisi:4.3,Myotis.tricolor:4.3)'1748':3.7,(Myotis.blythii:3.5,Myotis.chinensis:3.5,Myotis.myotis:3.5,Myotis.sicarius:3.5)'1749':4.5,(Myotis.bechsteini:7.9,(Myotis.auriculus:5.6,Myotis.evotis:5.6,Myotis.keenii:5.6,Myotis.milleri:5.6)'1751':2.3)'1750':0.1,(Myotis.pequinius:7.4,(Myotis.bombinus:7.2,Myotis.nattereri:7.2,Myotis.schaubi:7.2,Myotis.thysanodes:7.2)'1753':0.2)'1752':0.6)'1746':2.9,(Myotis.siligerensis:10.6,Myotis.scottii:10.6,(Myotis.oreias:3.1,Myotis.altarium:3.1)'1755':7.5,(Myotis.californicus:0.5,Myotis.leibii:0.5,Myotis.planiceps:0.5)'1756':10.1,((Myotis.brandti:8.8,Myotis.insularum:8.8,Myotis.mystacinus:8.8)'1758':1.1,Myotis.frater:9.9)'1757':0.7,(Myotis.annectans:5.7,Myotis.australis:5.7,Myotis.hosonoi:5.7,Myotis.ikonnikovi:5.7,Myotis.muricola:5.7,Myotis.ozensis:5.7,Myotis.ridleyi:5.7,Myotis.rosseti:5.7,Myotis.yesoensis:5.7)'1759':4.9,(Myotis.atacamensis:8.4,Myotis.dominicensis:8.4,Myotis.elegans:8.4,Myotis.findleyi:8.4,Myotis.keaysi:8.4,Myotis.martiniquensis:8.4,Myotis.nesopolus:8.4,Myotis.nigricans:8.4,Myotis.sodalensis:8.4)'1760':2.2)'1754':0.3)'1739\_Vespertilioninae31\*':9.5,Myotis':15.1)'1655':25.6)'1649\_Vespertilionidae\*':2.4)'1602':6.0)'1494':9.2)'1409':2.0)'1332\_Chi

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ypsibius:13.6,Soriculus\_lamula:13.6,Soriculus\_salenskii:13.6)'1855':9.4)'1852  
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             ista\_caucasica:23.5,Sicista\_caudata:23.5,Sicista\_concolor:23.5,Sicista\_klucho  
             rica:23.5,Sicista\_napaea:23.5,Sicista\_pseudonapaea:23.5,Sicista\_severtzovi:23  
             .5,Sicista\_strandi:23.5,Sicista\_subtilis:23.5)'24\_Sicistinae\_Sicista':9.8,(Di  
             pus\_sagitta:6.4,Eremodipus\_lichtensteinii:6.4,(Jaculus\_jaculus:6.2,Jaculus\_bla  
             nfordi:6.2,Jaculus\_orientalis:6.2,Jaculus\_turcmenicus:6.2)'26\_Jaculus':0.2,(S  
             tylodipus\_andrewsi:6.2,Stylocitellus\_sungorus:6.2,Stylocitellus\_telum:6.2)'27\_Stylo  
             dipus':0.2)'25\_Dipodinae':26.9,(Napaeozapus\_insignis:3.0,Eozapus\_setchuanus:3  
             .0,(Zapus\_hudsonius:2.8,Zapus\_princeps:2.8,Zapus\_trinotatus:2.8)'29\_Zapus':0.  
             2)'28\_Zapodinae':30.3,(Cardiocranus\_paradoxus:17.8,(Salpingotus\_crassicauda:  
             16.2,Salpingotus\_heptneri:16.2,Salpingotus\_kozlovi:16.2,Salpingotus\_michaelis  
             :16.2,Salpingotus\_pallidus:16.2,Salpingotus\_thomasi:16.2)'31\_Salpingotus':1.6  
             )'30\_Cardiocrainiinae':15.5)'23':0.2,(Pygeretmus\_pumilio:10.1,Pygeretmus\_platy  
             urus:10.1,Pygeretmus\_shitkovi:10.1)'32\_Allactaginae2\*Pygeretmus':23.4)'22':0  
             .1)'20\_Dipodidae':33.7,((Abditors\_laticauda:13.3,(Bullimus\_bagobus:4.4,Bulli  
             mus\_luzonicus:4.4)'36\_Bullimus':8.9,Limnomys\_sibuanus:13.3,(Tarsomys\_apoensis  
             :4.4,Tarsomys\_echinatus:4.4)'37\_Tarsomys':8.9,Tryphomys\_adustus:13.3)'35\_Muri  
             nae1\*':12.6,((Acomys\_cahirinus:5.3,Acomys\_cilicicus:5.3,Acomys\_cinerascens:5  
             .3,Acomys\_ignitus:5.3,Acomys\_kempi:5.3,Acomys\_minous:5.3,Acomys\_mullah:5.3,A  
             comys\_nesiotes:5.3,Acomys\_percivali:5.3,Acomys\_russatus:5.3,Acomys\_spinosissim  
             us:5.3,Acomys\_subspinosus:5.3,Acomys\_wilsoni:5.3)'40':5.3,Acomys\_louisae:10.6  
             )'39\_Acomys':0.2,(Lophuromys\_cinereus:5.8,Lophuromys\_flavopunctatus:5.8,Lophu  
             romys\_luteogaster:5.8,Lophuromys\_medicaudatus:5.8,Lophuromys\_melanonyx:5.8,L  
             ophuromys\_nudicaudatus:5.8,Lophuromys\_rahami:5.8,Lophuromys\_sikapusi:5.8,Lophurom  
             ys\_woosnami:5.8)'41\_Lophuromys':5.0,Uranomys\_ruddi:10.8)'38\_Murinae2\*':15.1,(  
             Aethomys\_bocagei:17.1,Aethomys\_chrysophilus:17.1,Aethomys\_granti:17.1,Aethomy  
             s\_hindei:17.1,Aethomys\_kaiseri:17.1,Aethomys\_namaquensis:17.1,Aethomys\_nyikae  
             :17.1,Aethomys\_silindensis:17.1,Aethomys\_stannarius:17.1,Aethomys\_thomasi:17.  
             1)'42\_Murinae3\*Aethomys':8.8,(Anisomys\_imitator:25.7,(Chiruromys\_forbesi:6.9  
             ,Chiruromys\_lamia:6.9,Chiruromys\_vates:6.9)'44\_Chiruromys':18.8,(Coccymys\_alb  
             idens:4.4,Coccymys\_ruemmeli:4.4)'45\_Coccymys':21.3,Crossomys\_moncktoni:25.7,  
             (Hyomys\_dammermani:4.4,Hyomys\_goliath:4.4)'46\_Hyomys':21.3,((Leptomys\_elegans  
             :6.0,Leptomys\_ernstmayri:6.0,Leptomys\_signatus:6.0)'48\_Leptomys':8.5,Lorentzi  
             mys\_nouhuysi:14.5,(Mayermys\_ellermani:3.8,Neohydromys\_fuscus:3.8)'49':10.7,(P  
             araileptomys\_rufilatus:3.8,Paraleptomys\_wilhelmina:3.8)'50\_Paraleptomys':10.7,  
             (Pseudohydromys\_murinus:3.8,Pseudohydromys\_occidentalis:3.8)'51\_Pseudohydromy  
             s':10.7)'47':11.2,(Macruromys\_elegans:4.4,Macruromys\_major:4.4)'52\_Macruromys  
             ':21.3,(Mallomys\_araoensis:8.7,Mallomys\_gunung:8.7,Mallomys\_istapantap:8.7,M  
             allomys\_rothschildi:8.7)'53\_Mallomys':17.0,(Microhydromys\_musseri:4.4,Microhy  
             dromys\_richardsoni:4.4)'54\_Microhydromys':21.3,Parahydromys\_asper:25.7,(Pogono  
             melomys\_bruijni:6.9,Pogonomelomys\_mayeri:6.9,Pogonomelomys\_sevia:6.9)'55\_Pogo  
             nomelomys':18.8,(Solomys\_ponceleti:10.1,Solomys\_salamonis:10.1,Solomys\_salebr  
             osus:10.1,Solomys\_sapientis:10.1,Solomys\_spriggsarum:10.1)'56\_Solomys':15.6,X  
             enuromys\_barbatus:25.7)'43\_Murinae4\*':0.2,Anonymomys\_mindorensis:25.9,((Apod  
             emus\_argenteus:10.4,Apodemus\_draco:10.4,Apodemus\_gurkha:10.4,Apodemus\_latronu  
             m:10.4,Apodemus\_peninsulae:10.4,Apodemus\_semotus:10.4,Apodemus\_speciosus:10.4

) '59':1.5, (Apodemus\_agrarius:0.1,Apodemus\_chevrieri:0.1) '60':11.8,Apodemus\_my  
stacinus:11.9, (Apodemus\_alpicola:3.4,Apodemus\_arianus:3.4,Apodemus\_flavicolli  
s:3.4,Apodemus\_fulvipectus:3.4,Apodemus\_hermonensis:3.4,Apodemus\_hyrcanicus:3  
.4,Apodemus\_ponticus:3.4,Apodemus\_rusiges:3.4,Apodemus\_sylvaticus:3.4,Apodemu  
s\_uralensis:3.4,Apodemus\_wardi:3.4) '61':8.5) '58\_Apodemus':7.0, (Tokudaia\_muenn  
inki:4.3,Tokudaia\_osimensis:4.3) '62\_Tokudaia':14.6) '57\_Murinae5\*':7.0, ((Apomy  
s\_abrae:1.3,Apomys\_datae:1.3,Apomys\_hylocoetes:1.3,Apomys\_insignis:1.3,Apomys  
littoralis:1.3,Apomys\_microdon:1.3,Apomys\_musculus:1.3,Apomys\_sacobianus:1.3  
) '64\_Apomys':0.8, (((Archboldomys\_luzonensis:1.7,(Crunomys\_celebensis:1.4,Crun  
omys\_fallax:1.4,Crunomys\_melanius:1.4,Crunomys\_rabori:1.4) '68\_Crunomys':0.3)  
'67':0.1, (Celaenomys\_silaceus:1.7,(Chrotomys\_gonzalesi:0.8,Chrotomys\_mindorens  
is:0.8,Chrotomys\_whiteheadi:0.8) '70\_Chrotomys':0.9) '69':0.1) '66':0.2, (Rhyncho  
mys\_isarogensis:1.8,Rhynchomys\_soricoides:1.8) '71\_Rhynchomys':0.2) '65':0.1) '6  
3\_Murinae6\*':23.8, (Arvicanthis\_abyssinicus:9.6,Arvicanthis\_blicki:9.6,Arvican  
this\_nairobae:9.6,Arvicanthis\_niloticus:9.6,Arvicanthis\_somalicus:9.6) '72\_Mur  
inae7\*\_Arvicanthis':16.3, (Bandicota\_bengalensis:7.5,Bandicota\_indica:7.5,Band  
icota\_savilei:7.5) '73\_Murinae8\*\_Bandicota':18.4, ((Batomys\_dentatus:6.9,Batony  
s\_granti:6.9,Batomys\_salomonensi:6.9) '75\_Batomys':7.4, (Carpomys\_melanurus:4.4  
,Carpomys\_phaeurus:4.4) '76\_Carpomys':9.9, (Crateromys\_australis:6.9,Crateromys  
paulus:6.9,Crateromys\_schadenbergi:6.9) '77\_Crateromys':7.4) '74\_Murinae9\*':11  
.6, (Berylmys\_berdmorei:9.5,Berylmys\_bowersi:9.5,Berylmys\_mackenziei:9.5,Beryl  
mys\_manipulus:9.5) '78\_Murinae10\*\_Berylmys':16.4, (Bunomys\_andrewsi:13.3,Bunomy  
s\_chrysocomus:13.3,Bunomys\_coelestis:13.3,Bunomys\_fratrorum:13.3,Bunomys\_hein  
richi:13.3,Bunomys\_penitus:13.3,Bunomys\_prolatus:13.3) '79\_Murinae11\*\_Bunomys'  
'12.6, Chiromyscus\_chiropus:25.9, ((Chiropodomys\_calamianensis:9.9,Chiropodomy  
s\_gliroides:9.9,Chiropodomys\_karlkoopmani:9.9,Chiropodomys\_major:9.9,Chiropod  
omys\_muroides:9.9,Chiropodomys\_pusillus:9.9) '82\_Chiropodomys':3.2, (Hapalomys  
delacouri:3.8,Hapalomys\_longicaudatus:3.8) '83\_Hapalomys':9.3) '81':3.3, (Haerom  
ys\_margarettae:6.9,Haeromys\_minahassae:6.9,Haeromys\_pusillus:6.9) '84\_Haeromys  
'9.5) '80\_Murinae12\*':9.5, Colomys\_goslingi:25.9, (((Conilurus\_penicillatus:7.6  
,Leporillus\_conditor:7.6,(Mesembriomys\_gouldii:3.2,Mesembriomys\_macrurus:3.2)  
'88\_Mesembriomys':4.4) '87':14.7, ((Melomys\_aerosus:13.9,Melomys\_bougainville:1  
3.9,Melomys\_burtoni:13.9,Melomys\_capensis:13.9,Melomys\_cervinipes:13.9,Melomy  
s\_fellowsi:13.9,Melomys\_fraterculus:13.9,Melomys\_gracilis:13.9,Melomys\_lanosu  
s:13.9,Melomys\_leucogaster:13.9,Melomys\_levipes:13.9,Melomys\_lorentzii:13.9,Mel  
omys\_mollis:13.9,Melomys\_moncktoni:13.9,Melomys\_obiensis:13.9,Melomys\_platy  
ops:13.9,Melomys\_rattoides:13.9,Melomys\_rubex:13.9,Melomys\_rubicola:13.9,Melo  
mys\_rufescens:13.9,Melomys\_spechti:13.9) '90\_Melomys':4.0, (Uromys\_anak:7.4,Uro  
mys\_caudimaculatus:7.4,Uromys\_hadrourus:7.4,Uromys\_neobritanicus:7.4,Uromys\_r  
ex:7.4) '91\_Uromys':10.5) '89':4.4, (Zyzomys\_argurus:8.9,Zyzomys\_maini:8.9,Zyzomys  
palatilis:8.9,Zyzomys\_pedunculatus:8.9,Zyzomys\_woodwardi:8.9) '92\_Zyzomys':  
13.4) '86':3.4, (Leggadina\_forresti:4.4,Leggadina\_lakedownensis:4.4) '93\_Leggadi  
na':21.3, (Notomys\_alexis:10.1,Notomys\_aquilo:10.1,Notomys\_cervinus:10.1,Notomy  
s\_fuscus:10.1,Notomys\_mitchellii:10.1) '94\_Notomys':15.6, (Pseudomys\_albociner  
eus:20.0,Pseudomys\_apodemoides:20.0,Pseudomys\_australis:20.0,Pseudomys\_bolami  
:20.0,Pseudomys\_chapmani:20.0,Pseudomys\_delicatulus:20.0,Pseudomys\_desertor:2  
0.0,Pseudomys\_fieldi:20.0,Pseudomys\_fumeus:20.0,Pseudomys\_fuscus:20.0,Pseudom  
ys\_glaucus:20.0,Pseudomys\_gracilicaudatus:20.0,Pseudomys\_hermannsburgensis:20  
.0,Pseudomys\_higginsi:20.0,Pseudomys\_johnsoni:20.0,Pseudomys\_laborifex:20.0,Pse  
udomys\_nanus:20.0,Pseudomys\_novaehollandiae:20.0,Pseudomys\_occidentalis:20.  
0,Pseudomys\_oralis:20.0,Pseudomys\_patrius:20.0,Pseudomys\_pillaensis:20.0,Pse  
udomys\_praeconis:20.0,Pseudomys\_shortridgei:20.0) '95\_Pseudomys':5.7) '85\_Muri  
nae13\*':0.2, ((Cremnomys\_blanfordi:6.9,Cremnomys\_cutchicus:6.9,Cremnomys\_elvir  
a:6.9) '97\_Cremnomys':6.4, (Millardia\_gleadowi:8.7,Millardia\_kathleenae:8.7,Mill  
ardia\_kondana:8.7,Millardia\_meltada:8.7) '98\_Millardia':4.6) '96\_Murinae14\*':1  
2.6,Dacnomys\_millardii:25.9,(Dasymys\_foxi:6.5,Dasymys\_incomitus:6.5,Dasymys\_m  
onanus:6.5,Dasymys\_nudipes:6.5,Dasymys\_rufulus:6.5) '99\_Murinae15\*\_Dasymys':19.  
4, ((Dephomys\_defua:3.8,Dephomys\_eburnea:3.8) '102\_Dephomys':9.3,(Hybomys\_basi  
lii:9.9,Hybomys\_eisentrauti:9.9,Hybomys\_lunaris:9.9,Hybomys\_planifrons:9.9,Hy  
bomys\_trivirgatus:9.9,Hybomys\_univittatus:9.9) '103\_Hybomys':3.2) '101':5.0, ((H

ydromys\_chrysogaster:8.9, Hydromys\_habbema:8.9, Hydromys\_hussoni:8.9, Hydromys\_n\_eobrittanicus:8.9, Hydromys\_shawmayeri:8.9) '105\_Hydromys':2.4, Xeromys\_myoides:11.3) '104':6.8) '100\_Murinae16\*':7.8, Desmomys\_harringtoni:25.9, Diomys\_crumpi:25.9, Diplothrix\_legatus:25.9, (Echiotrix\_leucura:13.3, (Margaretamys\_beccarii:6.9, Margaretamys\_elegans:6.9, Margaretamys\_parvus:6.9) '107\_Margaretamys':6.4, (M elasmotherix\_naso:6.9, (Tateomys\_macrocercus:3.8, Tateomys\_rhinogradoides:3.8) '109\_Tateomys':3.1) '108':6.4) '106\_Murinae17\*':12.6, (Eropeplus\_canus:4.8, Lenomys\_meyeri:4.8) '110\_Murinae18\*':21.1, Golunda\_elliotti:25.9, ((Grammomys\_aridulus:15.1, Grammomys\_buntingi:15.1, Grammomys\_caniceps:15.1, Grammomys\_cometes:15.1, Grammomys\_dolichurus:15.1, Grammomys\_dryas:15.1, Grammomys\_gigas:15.1, Grammomys\_i beanus:15.1, Grammomys\_macmillani:15.1, Grammomys\_minnae:15.1, Grammomys\_rutilans:15.1) '112\_Grammomys':3.5, (Thallomys\_loringi:8.7, Thallomys\_nigricauda:8.7, Th allomys\_paedulcus:8.7, Thallomys\_shortridgei:8.7) '113\_Thallomys':9.9) '111\_Muri nae19\*':7.3, Hadromys\_humei:25.9, Heimyscus\_fumosus:25.9, (Hylomyscus\_aeta:5.1, H ylomyscus\_alleni:5.1, Hylomyscus\_baeri:5.1, Hylomyscus\_carillus:5.1, Hylomyscus\_denniae:5.1, Hylomyscus\_parvus:5.1, Hylomyscus\_stella:5.1) '114\_Murinae20\*\_Hylom yscus':20.8, Kadarsanomys\_sodyi:25.9, (Komodomys\_rintjanus:4.8, Papagomys\_armand villei:4.8) '115\_Murinae21\*':21.1, (Lamottemys\_okuensis:11.0, (Oenomys\_hypoxanth us:4.4, Oenomys\_ornatus:4.4) '117\_Oenomys':6.6, (Thamnomys\_kempi:4.4, Thamnomys\_v enustus:4.4) '118\_Thamnomys':6.6) '116\_Murinae22\*':14.9, (Lemniscomys\_barbarus:13.3, Lemniscomys\_bellieri:13.3, Lemniscomys\_griselda:13.3, Lemniscomys\_hoogstraali:13.3, Lemniscomys\_linulus:13.3, Lemniscomys\_macculus:13.3, Lemniscomys\_mitten dorfi:13.3, Lemniscomys\_rosalia:13.3, Lemniscomys\_roseveari:13.3, Lemniscomys\_st riatus:13.3) '119\_Murinae23\*\_Lemniscomys':12.6, Lenothrix\_canus:25.9, (Leopoldam ys\_edwardsi:9.5, Leopoldamys\_neilli:9.5, Leopoldamys\_sabanus:9.5, Leopoldamys\_si poranus:9.5) '120\_Murinae24\*\_Leopoldamys':16.4, (Malacomys\_cansdalei:11.0, Malacomys\_edwardsi:11.0, Malacomys\_longipes:11.0, Malacomys\_lukolelae:11.0, Malacomys\_verschureni:11.0) '121\_Murinae25\*\_Malacomys':14.9, (Mastomys\_angolensis:14.7, Mastomys\_coucha:14.7, Mastomys\_erythroleucus:14.7, Mastomys\_hildebrandtii:14.7, Mastomys\_natalensis:14.7, Mastomys\_peranus:14.7, Mastomys\_shortridgei:14.7, Mast omys\_verheyeni:14.7) '122\_Murinae26\*\_Mastomys':11.2, (Maxomys\_alticola:19.4, Maxomys\_baeodon:19.4, Maxomys\_bartelsii:19.4, Maxomys\_dollmani:19.4, Maxomys\_hellw idii:19.4, Maxomys\_hylomyoides:19.4, Maxomys\_inas:19.4, Maxomys\_inflatus:19.4, Maxomys\_moi:19.4, Maxomys\_musschenbroekii:19.4, Maxomys\_ochraceiventer:19.4, Maxom ys\_pagensis:19.4, Maxomys\_panglima:19.4, Maxomys\_rajabah:19.4, Maxomys\_surifer:19.4, Maxomys\_wattsi:19.4, Maxomys\_whiteheadi:19.4) '123\_Murinae27\*\_Maxomys':6.5, M cromys\_minutus:25.9, Muriculus\_imberbis:25.9, ((Mus\_crociduroides:11.1, Mus\_famus:11.1, Mus\_mayori:11.1, Mus\_pahari:11.1, Mus\_vulcani:11.1) '125':0.2, (Mus\_booda:2.5, Mus\_caroli:2.5, Mus\_cervicolor:2.5, Mus\_cookii:2.5, Mus\_macedonicus:2.5, Mus\_musculus:2.5, Mus\_spicilegus:2.5, Mus\_spretus:2.5, Mus\_terricolor:2.5) '126':8.8, (Mus\_baoulei:7.5, Mus\_bufo:7.5, Mus\_callewaerti:7.5, Mus\_goundae:7.5, Mus\_haussa:7.5, Mus\_indutus:7.5, Mus\_kasaicus:7.5, Mus\_mahomet:7.5, Mus\_mattheyi:7.5, Mus\_minutoides:7.5, Mus\_musculoides:7.5, Mus\_neavei:7.5, Mus\_orangiae:7.5, Mus\_oubanguui:7.5, Mus\_setulosus:7.5, Mus\_setzeri:7.5, Mus\_sorella:7.5, Mus\_tenellus:7.5, Mus\_triton:7.5) '127':3.8, (Mus\_fernandoni:0.3, Mus\_phillipsi:0.3, Mus\_platythrix:0.3, Mus\_saxicola:0.3, Mus\_shortridgei:0.3) '128':11.0) '124\_Murinae28\*\_Mus':14.6, (Myomys\_dybowskii:21.4, (Pelomys\_campanae:21.2, Pelomys\_fallax:21.2, Pelomys\_hopkinsi:21.2, Pelomys\_isselfi:21.2, Pelomys\_minor:21.2) '130\_Pelomys':0.2) '129\_Mu rinae29\*':4.5, ((Myomys\_albipes:16.0, Myomys\_daltoni:16.0, Myomys\_derooi:16.0, Myomys\_fumatus:16.0, Myomys\_ruppi:16.0, Myomys\_verreauxii:16.0, Myomys\_yemeni:16.0) '132\_Myomys':1.1, (Stenocephalemys\_albocaudata:11.8, Stenocephalemys\_griseicauda:11.8) '133\_Stenocephalemys':5.3) '131\_Murinae30\*':8.8, (Nesokia\_bunnii:4.8, Nesokia\_indica:4.8) '134\_Murinae31\*\_Nesokia':21.1, (Niviventer\_andersoni:18.6, Niviventer\_brahma:18.6, Niviventer\_confucianus:18.6, Niviventer\_coxingi:18.6, Niviventer\_cremoriventer:18.6, Niviventer\_culturatus:18.6, Niviventer\_eha:18.6, Niviventer\_excelsior:18.6, Niviventer\_fulvescens:18.6, Niviventer\_hippoon:18.6, Niviventer\_langbianis:18.6, Niviventer\_lepturus:18.6, Niviventer\_niviventer:18.6, Niviventer\_rapit:18.6, Niviventer\_tenaster:18.6) '135\_Murinae32\*\_Niviventer':7.3, ((Otomys\_anchietae:8.6, Otomys\_angoniensis:8.6, Otomys\_denti:8.6, Otomys\_irroratus:8.6, Otomys\_laminatus:8.6, Otomys\_maximus:8.6, Otomys\_occidentalis:8.6, Otomys\_

saundersiae:8.6,Otomys\_sloggetti:8.6,Otomys\_tropicalis:8.6,Otomys\_typus:8.6,Otomys\_unisulcatus:8.6)'137\_Otomys':0.2,(Parotomys\_brantsii:8.6,Parotomys\_littledalei:8.6)'138\_Parotomys':0.2)'136\_Otomyinae':17.1,Palawanomys\_furvus:25.9,(Paruromys\_dominator:4.8,Paruromys\_ursinus:4.8)'139\_Murinae33\*Paruromys':21.1,(Phloeomys\_cumingi:4.8,Phloeomys\_pallidus:4.8)'140\_Murinae34\*Phloeomys':21.1,(Pithecheir\_melanurus:4.8,Pithecheir\_parvus:4.8)'141\_Murinae35\*Pithecheir':21.1,(Pogonomys\_championi:9.5,Pogonomys\_loriae:9.5,Pogonomys\_macrourus:9.5,Pogonomys\_sylvestris:9.5)'142\_Murinae36\*Pogonomys':16.4,(Praomys\_delectorum:14.4,Praomys\_hartwigi:14.4,Praomys\_jacksoni:14.4,Praomys\_minor:14.4,Praomys\_misonnei:14.4,Praomys\_morio:14.4,Praomys\_mutoni:14.4,Praomys\_rostratus:14.4,Pracomys\_tullbergi:14.4)'143\_Murinae37\*Praomys':11.5,((Rattus\_colletti:7.2,Rattus\_us\_fuscipes:7.2,Rattus\_hainaldi:7.2,Rattus\_lutreolus:7.2,Rattus\_sordidus:7.2,Rattus\_timorensis:7.2,Rattus\_tunneyi:7.2,Rattus\_villosissimus:7.2)'145':0.2,(Rattus\_elaphinus:7.2,Rattus\_feliceus:7.2,Rattus\_giluwensis:7.2,Rattus\_jobiensis:7.2,Rattus\_leucopus:7.2,Rattus\_mordax:7.2,Rattus\_morotaiensis:7.2,Rattus\_novaeguineae:7.2,Rattus\_praetor:7.2,Rattus\_sanila:7.2,Rattus\_sterni:7.2)'146':0.2,Rattus\_annandalei:7.4,Rattus\_enganus:7.4,Rattus\_exulans:7.4,Rattus\_hoogerwerfi:7.4,Rattus\_korinchi:7.4,Rattus\_montanus:7.4,Rattus\_ranjiniae:7.4,Rattus\_stoicus:7.4,(Rattus\_adustus:7.2,Rattus\_argentiventer:7.2,Rattus\_baluensis:7.2,Rattus\_burrus:7.2,Rattus\_everetti:7.2,Rattus\_hoffmanni:7.2,Rattus\_koopmani:7.2,Rattus\_losea:7.2,Rattus\_lugens:7.2,Rattus\_mindorensis:7.2,Rattus\_mollicomulus:7.2,Rattus\_nitidus:7.2,Rattus osgoodi:7.2,Rattus\_palmarum:7.2,Rattus\_rat tus:7.2,Rattus\_sikkimensis:7.2,Rattus\_simalurensis:7.2,Rattus\_tanezumi:7.2,Rattus\_tawitawiensis:7.2,Rattus\_tiomanicus:7.2,Rattus\_turkestanicus:7.2)'147':0.2,Rattus\_norvegicus:7.4,(Rattus\_bontanus:7.2,Rattus\_foramineus:7.2,Rattus\_marmosurus:7.2,Rattus\_pelurus:7.2,Rattus\_xanthurus:7.2)'148':0.2)'144\_Murinae38\* Rattus':18.5,Rhabdomys\_pumilio:25.9,Srilankamys\_ohiensis:25.9,(Stenomys\_ceramicus:11.0,Stenomys\_niobe:11.0,Stenomys\_richardsoni:11.0,Stenomys\_vandeuseni:11.0,Stenomys\_verecundus:11.0)'149\_Murinae39\*Stenomys':14.9,Stochomys\_longicaudatus:25.9,(Sundamys\_infraluteus:7.5,Sundamys\_maxi:7.5,Sundamys\_muelleri:7.5)'150\_Murinae40\*Sundamys':18.4,(Taeromys\_arcuatus:12.3,Taeromys\_callitrichus:12.3,Taeromys\_celebensis:12.3,Taeromys\_hamatus:12.3,Taeromys\_punicans:12.3,Taeromys\_taerae:12.3)'151\_Murinae41\*Taeromys':13.6,(Vandeleuria\_nolthenii:4.8,Vandeleuria\_oleracea:4.8)'152\_Murinae42\*Vandeleuria':21.1,Vernaya\_fulva:25.9,(Zelotomys\_hildegardeae:4.8,Zelotomys\_woosnami:4.8)'153\_Murinae43\*Zelotomys':21.1)'34':17.9,(((Abrawayaomys\_ruschii:14.5,(Aepeomys\_fuscatus:2.6,Aepeomys\_lugens:2.6)'159\_Aepeomys':8.6,(Thomasomys\_aureus:4.7,Thomasomys\_baeops:4.7,Thomasomys\_bombycinus:4.7,Thomasomys\_cinereiventer:4.7,Thomasomys\_cinereus:4.7,Thomasomys\_daphne:4.7,Thomasomys\_eleusis:4.7,Thomasomys\_gracilis:4.7,Thomasomys\_hylophilus:4.7,Thomasomys\_incanus:4.7,Thomasomys\_ischyurus:4.7,Thomasomys\_kalinowskii:4.7,Thomasomys\_ladewi:4.7,Thomasomys\_laniger:4.7,Thomasomys\_monochromos:4.7,Thomasomys\_niveipes:4.7,Thomasomys\_notatus:4.7,Thomasomys\_orientes:4.7,Thomasomys\_paramorum:4.7,Thomasomys\_pyrrhonotus:4.7,Thomasomys\_rhoadsi:4.7,Thomasomys\_rosalinda:4.7,Thomasomys\_silvestris:4.7,Thomasomys\_taczanowski:4.7,Thomasomys Vestitus:4.7)'160\_Thomasomys':6.5)'158':3.3,(((Akodon\_lanosus:3.6,Akodon\_longipilis:3.6,Akodon\_mansoensis:3.6,Akodon\_sanborni:3.6)'163':3.1,Akodon\_hershkovitzii:6.7,Akodon\_illuteus:6.7,(Akodon\_affinis:3.2,Akodon\_aibiventris:3.2,Akodon\_azarae:3.2,Akodon\_cursor:3.2,Akodon\_fumeus:3.2,Akodon\_iniscatus:3.2,Akodon\_kofordi:3.2,Akodon\_lindberghi:3.2,Akodon\_markhami:3.2,Akodon\_mollis:3.2,Akodon.olivaceus:3.2,Akodon.orophilus:3.2,Akodon.puer:3.2,Akodon.sanctipaulensis:3.2,Akodon.serrensis:3.2,Akodon.spegazzinii:3.2,Akodon.subfuscus:3.2,Akodon.surdus:3.2,Akodon.sylvanus:3.2,Akodon.torques:3.2,Akodon.uri chi:3.2,(Akodon\_boliviensis:2.1,Akodon\_juninensis:2.1)'165':1.1,(Akodon\_dayi:0.1,Akodon\_dolores:0.1,Akodon\_molinae:0.1,Akodon\_neocenus:0.1,Akodon\_simulator:0.1,Akodon\_toba:0.1,Akodon\_varius:0.1)'166':3.1)'164':3.5,Akodon\_xanthorhinus:6.7,Akodon\_aerosus:6.7,Akodon\_kempi:6.7,(Akodon\_budini:1.8,Akodon\_siberiae:1.8)'167':4.9,(Akodon\_bogotensis:2.9,Akodon\_latebricola:2.9,Akodon\_mimus:2.9)'168':3.8,Akodon.nigrita:6.7)'162\_Akodon':6.7,(Chroeomys\_andinus:2.6,Chroeomys\_jelskii:2.6)'169\_Chroeomys':10.8)'161':1.1,(((Andalgalomys\_olrogi:1.9,Andalgalomys.pearsoni:1.9)'172\_Andalgalomys':5.4,((Auliscomys\_boliviensis:6.4,Aul

iscomys\_micropus:6.4,Auliscomys\_pictus:6.4,Auliscomys\_sublimis:6.4)'174\_Auliscomys':0.8,(Phyllotis\_amicus:7.1,Phyllotis\_andium:7.1,Phyllotis\_bonaeriensis:7.1,Phyllotis\_caprinus:7.1,Phyllotis\_darwini:7.1,Phyllotis\_definitus:7.1,Phyllotis\_gerbillus:7.1,Phyllotis\_haggardi:7.1,Phyllotis\_magister:7.1,Phyllotis osgoodi:7.1,Phyllotis\_osilae:7.1,Phyllotis\_wolffsohni:7.1,Phyllotis\_xanthopygus:7.1)'175\_Phyllotis':0.1)'173':0.1)'171':0.2,(Graomys\_domorum:3.2,Graomys\_edithae:3.2,Graomys\_griseoflavus:3.2)'176\_Graomys':4.3)'170':7.0,Andinomys\_edax:14.5,(((Bibimys\_chacoensis:0.2,Bibimys\_labiosus:0.2,Bibimys\_torresi:0.2)'179\_Bibimys':9.8,(Kunsia\_fronto:3.4,Kunsia\_tomentosus:3.4)'180\_Kunsia':6.6)'178':0.2,Scapteromys\_tumidus:10.2)'177':4.3,Blarinomys\_breviceps:14.5,(Bolomys\_aeonus:0.5,Bolomys\_lactens:0.5,Bolomys\_lasiurus:0.5,Bolomys\_obscurus:0.5,Bolomys\_punctulatus:0.5,Bolomys\_temchuki:0.5)'181\_Bolomys':14.0,(Calomys\_boliviae:6.9,Calomys\_callidus:6.9,Calomys\_callosus:6.9,Calomys\_hummelincki:6.9,Calomys\_laucha:6.9,Calomys\_lepidus:6.9,Calomys\_musculinus:6.9,Calomys\_sorellus:6.9,Calamomys\_tener:6.9)'182\_Calamomys':7.6,(Chelemys\_macronyx:2.8,Chelemys\_megalonyx:2.8)'183\_Chelemys':11.7,Chilomys\_instans:14.5,Chinchillula\_sahamae:14.5,(Delomys\_dorsalis:6.2,Delomys\_sublineatus:6.2)'184\_Delomys':8.3,(Eligmodontia\_morenii:4.7,Eligmodontia\_morgani:4.7,Eligmodontia\_puerulus:4.7,Eligmodontia\_typus:4.7)'185\_Eligmodontia':9.8,(Euneomys\_chinchilloides:5.6,Euneomys\_fossor:5.6,Euneomys\_mordax:5.6,Euneomys\_petersoni:5.6)'186\_Euneomys':8.9,Galenomys\_garleppi:14.5,Geoxus\_valdivianus:14.5,((Holochilus\_brasiliensis:0.1,Holochilus\_chacarius:0.1,Holochilus\_magnus:0.1,Holochilus\_sciureus:0.1)'188\_Holochilus':3.5,Pseudoryzomys\_simplex:3.6)'187':10.9,Irenomys\_tarsalis:14.5,(Juscelinomys\_candango:2.8,Juscelinomys\_talpinus:2.8)'189\_Juscelinomys':11.7,Lenoxus\_apicalis:14.5,(Melanomys\_caliginosus:4.5,Melanomys\_robustulus:4.5,Melanomys\_zunigae:4.5)'190\_Melanomys':10.0,(Microryzomys\_altissimus:2.8,Microryzomys\_minutus:2.8)'191\_Microryzomys':11.7,(Neacomys\_guianae:5.6,Neacomys\_pictus:5.6,Neacomys\_spinosus:5.6,Neacomys\_tenuipes:5.6)'192\_Neacomys':8.9,(Nectomys\_palmipes:4.5,Nectomys\_parvipes:4.5,Nectomys\_squamipes:4.5)'193\_Nectomys':10.0,Neotomys\_ebriosus:14.5,(Nesoryzomys\_fernandinae:1.9,Nesoryzomys\_indefessus:1.9,Nesoryzomys\_swarthi:1.9)'194\_Nesoryzomys':12.6,Notiomys\_edwardsii:14.5,(Oecomys\_bicolor:3.4,Oecomys\_cleberi:3.4,Oecomys\_concolor:3.4,Oecomys\_flavicans:3.4,Oecomys\_mamorae:3.4,Oecomys\_paricola:3.4,Oecomys\_phaeotis:3.4,Oecomys\_rex:3.4,Oecomys\_roberti:3.4,Oecomys\_rutilus:3.4,Oecomys\_speciosus:3.4,Oecomys\_superans:3.4,Oecomys\_trinitatis:3.4)'195\_Oecomys':11.1,(Oligoryzomys\_andinus:3.1,Oligoryzomys\_arenalis:3.1,Oligoryzomys\_chacoensis:3.1,Oligoryzomys\_delticola:3.1,Oligoryzomys\_destructor:3.1,Oligoryzomys\_elius:3.1,Oligoryzomys\_flavescens:3.1,Oligoryzomys\_fulvescens:3.1,Oligoryzomys\_griseolus:3.1,Oligoryzomys\_longicaudatus:3.1,Oligoryzomys\_magellanicus:3.1,Oligoryzomys\_microtis:3.1,Oligoryzomys\_nigriceps:3.1,Oligoryzomys\_vegetus:3.1,Oligoryzomys\_victus:3.1)'196\_Oligoryzomys':11.4,(Oryzomys\_albigularis:5.5,Oryzomys\_alfaroi:5.5,Oryzomys\_auriventer:5.5,Oryzomys\_balneator:5.5,Oryzomys\_bolivaris:5.5,Oryzomys\_buccinatus:5.5,Oryzomys\_capito:5.5,Oryzomys\_chapmani:5.5,Oryzomys\_couesi:5.5,Oryzomys\_devius:5.5,Oryzomys\_dimidiatus:5.5,Oryzomys\_galapagoensis:5.5,Oryzomys\_gorgasi:5.5,Oryzomys\_hammondi:5.5,Oryzomys\_intectus:5.5,Oryzomys\_intermedius:5.5,Oryzomys\_keaysi:5.5,Oryzomys\_kelloggi:5.5,Oryzomys\_lamiae:5.5,Oryzomys\_legatus:5.5,Oryzomys\_levipes:5.5,Oryzomys\_macconnelli:5.5,Oryzomys\_melanotis:5.5,Oryzomys\_nitidus:5.5,Oryzomys\_oniscus:5.5,Oryzomys\_palustris:5.5,Oryzomys\_polius:5.5,Oryzomys\_ratticeps:5.5,Oryzomys\_rhabdops:5.5,Oryzomys\_rostratus:5.5,Oryzomys\_saturior:5.5,Oryzomys\_subflavus:5.5,Oryzomys\_talamancae:5.5,Oryzomys\_xantheolus:5.5,Oryzomys\_yunganus:5.5)'197\_Oryzomys':9.0,(Oxymycterus\_akodontius:2.2,Oxymycterus\_angularis:2.2,Oxymycterus\_delator:2.2,Oxymycterus\_hiska:2.2,Oxymycterus\_hispidus:2.2,Oxymycterus\_hucucha:2.2,Oxymycterus\_iheringi:2.2,Oxymycterus\_inca:2.2,Oxymycterus\_nasutus:2.2,Oxymycterus\_paramensis:2.2,Oxymycterus\_roberti:2.2,Oxymycterus\_rufus:2.2)'198\_Oxymycterus':12.3,Phaenomys\_ferrugineus:14.5,Podomys\_roraimae:14.5,Punomys\_lemminus:14.5,Reithrodon\_auritus:14.5,Rhagomys\_rufescens:14.5,(Rhipidomys\_austrinus:7.8,Rhipidomys\_caucensis:7.8,Rhipidomys\_couesi:7.8,Rhipidomys\_fulviventer:7.8,Rhipidomys\_latimanus:7.8,Rhipidomys\_leuodactylus:7.8,Rhipidomys\_macconnelli:7.8,Rhipidomys\_mastacalis:7.8,Rhipidomys\_nitela:7.8,Rhipidomys\_ochrogaster:7.8,Rhipidomys\_scandens:7.8,Rhipidomys\_vene

zuelae:7.8,Rhipidomys\_venustus:7.8,Rhipidomys\_wetzeli:7.8)'199\_Rhipidomys':6.7,(Scolomys\_melanops:5.8,Scolomys\_ucayalensis:5.8)'200\_Scolomys':8.7,(Sigmodontomys\_alfari:2.8,Sigmodontomys\_aphrastus:2.8)'201\_Sigmodontomys':11.7,(Thalpomys\_cerradensis:2.8,Thalpomys\_lasiotis:2.8)'202\_Thalpomys':11.7,Wiedomys\_pyrhorhinus:14.5,(Wilfredomys\_oenax:2.8,Wilfredomys\_pictipes:2.8)'203\_Wilfredomys':11.7,(Zygodontomys\_brevicauda:2.8,Zygodontomys\_brunneus:2.8)'204\_Zygodontomys':11.7)'157':4.0,((Anotomys\_leander:13.9,Chibchanomys\_trichotis:13.9,(Ichthyomys\_hydrobates:6.9,Ichthyomys\_pittieri:6.9,Ichthyomys\_stolzmanni:6.9,Ichthyomys\_tweedii:6.9)'207\_Ichthyomys':7.0,(Neusticomys\_monticolus:8.1,Neusticomys\_mussoi:8.1,Neusticomys\_oyaapocki:8.1,Neusticomys\_peruviensis:8.1,Neusticomys\_venezuelae:8.1)'208\_Neusticomys':5.8,(Rheomys\_mexicanus:6.9,Rheomys\_raptor:6.9,Rheomys\_thomasi:6.9,Rheomys\_underwoodi:6.9)'209\_Rheomys':7.0)'206':4.3,(Sigmodon\_alleni:4.4,Sigmodon\_alstoni:4.4,Sigmodon\_arizonae:4.4,Sigmodon\_fulviventer:4.4,Sigmodon\_hispidus:4.4,Sigmodon\_inopinatus:4.4,Sigmodon\_leucotis:4.4,Sigmodon\_mascotensis:4.4,Sigmodon\_ochrognathus:4.4,Sigmodon\_peruanus:4.4)'210\_Sigmodon':13.8)'205':0.3)'156':14.5,((Nyctomys\_sumichrasti:5.1,Otonyctomys\_hatti:5.1)'212':17.2,(Ototylomys\_phyllostis:7.2,(Tylomys\_bullaris:7.0,Tylomys\_fulviventer:7.0,Tylomys\_mirae:7.0,Tylomys\_nudicaudus:7.0,Tylomys\_panamensis:7.0,Tylomys\_tumbalensis:7.0,Tylomys\_watsoni:7.0)'214\_Tylomys':0.2)'213':15.1)'211':10.7)'155':2.0,(((Baiomys\_musculus:11.2,Baiomys\_taylori:11.2)'219\_Baiomys':0.2,(Scotinomys\_teguina:0.5,Scotinomys\_xerampelinus:0.5)'220\_Scotinomys':10.9)'218':5.5,Ochrotomys\_nuttalli:16.9)'217':6.1,((((((Habromys\_chinanteo:8.2,Habromys\_lepturus:8.2,Habromys\_lophurus:8.2,Habromys\_simulatus:8.2)'228\_Habromys':0.2,Neotomodon\_alstoni:8.4,Podomys\_floridanus:8.4)'227':6.9,Osgoodomys\_banderaurus:15.3)'226':0.6,(Megadontomys\_cryophilus:5.8,Megadontomys\_nelsoni:5.8,Megadontomys\_thomasi:5.8)'229\_Megadontomys':10.1)'225':0.2,(Peromyscus\_attwateri:8.6,Peromyscus\_aztecus:8.6,Peromyscus\_boylisi:8.6,Peromyscus\_bullatus:8.6,Peromyscus\_californicus:8.6,Peromyscus\_caniceps:8.6,Peromyscus\_crinitus:8.6,Peromyscus\_dickeyi:8.6,Peromyscus\_difficilis:8.6,Peromyscus\_ereemicus:8.6,Peromyscus\_eva:8.6,Peromyscus\_furvus:8.6,Peromyscus\_gossypinus:8.6,Peromyscus\_grandis:8.6,Peromyscus\_gratus:8.6,Peromyscus\_guardia:8.6,Peromyscus\_guate malensis:8.6,Peromyscus\_gymnotis:8.6,Peromyscus\_hooperi:8.6,Peromyscus\_interparietalis:8.6,Peromyscus\_leucopus:8.6,Peromyscus\_levipes:8.6,Peromyscus\_madrensis:8.6,Peromyscus\_maniculatus:8.6,Peromyscus\_mayensis:8.6,Peromyscus\_megalops:8.6,Peromyscus\_mekisturus:8.6,Peromyscus\_melanocarpus:8.6,Peromyscus\_melanophrys:8.6,Peromyscus\_melanotis:8.6,Peromyscus\_melanurus:8.6,Peromyscus\_merriami:8.6,Peromyscus\_mexicanus:8.6,Peromyscus\_nasutus:8.6,Peromyscus\_ochraventer:8.6,Peromyscus\_oreas:8.6,Peromyscus\_pectoralis:8.6,Peromyscus\_perfulvus:8.6,Peromyscus\_polionotus:8.6,Peromyscus\_poliurus:8.6,Peromyscus\_pseudocrinitus:8.6,Peromyscus\_sejugis:8.6,Peromyscus\_simulus:8.6,Peromyscus\_sitkensis:8.6,Peromyscus\_slevini:8.6,Peromyscus\_spicilegus:8.6,Peromyscus\_stephani:8.6,Peromyscus\_stirtoni:8.6,Peromyscus\_truei:8.6,Peromyscus\_winkelmanni:8.6,Peromyscus\_yu catanicus:8.6,Peromyscus\_zarhynchus:8.6)'230\_Peromyscus':7.5)'224':1.6,(Onychomys\_arenicola:3.4,Onychomys\_leucogaster:3.4,Onychomys\_torridus:3.4)'231\_Onychomys':14.3)'223':0.2,(Isthmomys\_flavidus:3.2,Isthmomys\_pirrensis:3.2)'232\_Isthmomys':14.7)'222':2.0,((Reithrodontomys\_brevirostris:9.8,Reithrodontomys\_darienensis:9.8,Reithrodontomys\_gracilis:9.8,Reithrodontomys\_mexicanus:9.8,Reithrodontomys\_paradoxus:9.8,Reithrodontomys\_spectabilis:9.8)'235':1.5,(Reithrodontomys\_creper:7.0,Reithrodontomys\_microdon:7.0,Reithrodontomys\_rodriguezi:7.0,Reithrodontomys\_tenuirostris:7.0)'236':4.3)'234':5.4,((Reithrodontomys\_fulvescens:3.2,Reithrodontomys\_hirsutus:3.2)'238':6.8,(Reithrodontomys\_burti:9.8,Reithrodontomys\_chrysopsis:9.8,Reithrodontomys\_humulis:9.8,Reithrodontomys\_megalotis:9.8,Reithrodontomys\_montanus:9.8,Reithrodontomys\_raviventris:9.8,Reithrodontomys\_sumichrasti:9.8,Reithrodontomys\_zacatecae:9.8)'239':0.2)'237':6.7)'233\_Reithrodontomys':3.2)'221':3.1)'216':0.2,((Hodomys\_alleni:13.4,Xenomys\_nelsoni:13.4)'242':3.1,((Neotoma\_albigula:3.7,Neotoma\_angustapalata:3.7,Neotoma\_anthonyi:3.7,Neotoma\_bryanti:3.7,Neotoma\_bunkeri:3.7,Neotoma\_chrysomelas:3.7,Neotoma\_devia:3.7,Neotoma\_floridana:3.7,Neotoma\_goldmani:3.7,Neotoma\_lepida:3.7,Neotoma\_martinensis:3.7,Neotoma\_mexicana:3.7,Neotoma\_micropus:3.7,Neotoma\_nelsoni:3.7,Neotoma\_palatina:3.7,Neotoma\_stephensi:3.7,Neotoma\_varia:3.7

)'244':11.8, *Neotoma phenax*:15.5, (*Neotoma cinerea*:13.9, *Neotoma fuscipes*:13.9) '245':1.6) '243 *Neotoma*':1.0) '241':0.3, (*Nelsonia goldmani*:3.7, *Nelsonia neotomodon*:3.7) '246 *Nelsonia*':13.1) '240':6.4) '215':11.8) '154 *Sigmodontinae*':8.8, (((*Allocricetulus curtatus*:5.8, *Allocricetulus eversmanni*:5.8) '249 *Allocricetulus*':3.6, *Cricetus cricetus*:9.4) '248':16.6, *Cansumys canus*:26.0, (*Cricetulus alticola*:15.4, *Cricetulus barabensis*:15.4, *Cricetulus kamensis*:15.4, *Cricetulus longicaudatus*:15.4, *Cricetulus migratorius*:15.4, *Cricetulus sokolovi*:15.4) '250 *Cricetus*':10.6, (*Mesocricetus auratus*:11.9, *Mesocricetus brandti*:11.9, *Mesocricetus newtoni*:11.9, *Mesocricetus raddei*:11.9) '251 *Mesocricetus*':14.1, (*Phodopus campbelli*:0.1, *Phodopus roborovskii*:0.1, *Phodopus sungorus*:0.1) '252 *Phodopus*':25.9, *Tscherskia triton*:26.0) '247 *Cricetinae*':17.8, (((((*Alticola albicauda*:4.7, *Alticola argentatus*:4.7, *Alticola barakshin*:4.7, *Alticola macrotis*:4.7, *Alticola montoza*:4.7, *Alticola roylei*:4.7, *Alticola semicanus*:4.7, *Alticola stoliczkanus*:4.7, *Alticola stracheyi*:4.7, *Alticola tuvinicus*:4.7) '258':1.7, *Alticola lemminus*:6.4, *Alticola strelzowi*:6.4) '257 *Alticola*':0.1, (*Clethrionomys californicus*:4.7, *Clethrionomys centralis*:4.7, *Clethrionomys gapperi*:4.7, *Clethrionomys glareolus*:4.7, *Clethrionomys rufocanus*:4.7, *Clethrionomys rutilus*:4.7, *Clethrionomys sikotensis*:4.7) '259 *Clethrionomys*':1.8, (*Eothenomys chinensis*:4.0, *Eothenomys custos*:4.0, *Eothenomys eva*:4.0, *Eothenomys inez*:4.0, *Eothenomys melanogaster*:4.0, *Eothenomys olitor*:4.0, *Eothenomys proditor*:4.0, *Eothenomys regulus*:4.0, *Eothenomys shanensis*:4.0) '260 *Eothenomys*':2.5, (*Phaulomys andersoni*:5.1, *Phaulomys smithii*:5.1) '261 *Phaulomys*':1.4) '256':9.0, (*Hyperacrius fertilis*:3.4, *Hyperacrius wynnei*:3.4) '262 *Hyperacrius*':12.1) '255':1.8, *Dinaromys bogdanovi*:17.3) '254':0.2, ((*Arborimus albipes*:2.2, *Arborimus longicaudus*:2.2, *Arborimus pomo*:2.2) '264 *Arborimus*':2.3, (*Phenacomys intermedius*:3.3, *Phenacomys ungava*:3.3) '265 *Phenacomys*':1.2) '263':13.0, (*Arvicola sapidus*:4.4, *Arvicola terrestris*:4.4) '266 *Arvicola*':13.1, (*Blanfordimys afghanus*:4.4, *Blanfordimys bucharicus*:4.4) '267 *Blanfordimys*':13.1, (*Chionomys gud*:9.3, *Chionomys nivalis*:9.3, *Chionomys roberti*:9.3) '268 *Chionomys*':8.2, (*Dicrostonyx exsul*:5.0, *Dicrostonyx groenlandicus*:5.0, *Dicrostonyx hudsonius*:5.0, *Dicrostonyx kilangmiutak*:5.0, *Dicrostonyx nelsoni*:5.0, *Dicrostonyx nunatakensis*:5.0, *Dicrostonyx richardsoni*:5.0, *Dicrostonyx rubricatus*:5.0, *Dicrostonyx torquatus*:5.0, *Dicrostonyx unalascensis*:5.0, *Dicrostonyx vinogradovi*:5.0) '269 *Dicrostonyx*':12.5, ((*Ellobius alaicus*:10.6, *Ellobius fuscocapillus*:10.6, *Ellobius lutescens*:10.6, *Ellobius talpinus*:10.6, *Ellobius tancrei*:10.6) '271 *Ellobius*':1.0, *Prometheomys schaposchnikowi*:11.6) '270':5.9, ((*Eolagurus luteus*:4.0, *Eolagurus przewalskii*:4.0) '273 *Eolagurus*':3.0, *Lagurus lagurus*:7.0) '272':10.5, (*Lasiopodomys brandtii*:7.0, *Lasiopodomys fuscus*:7.0, *Lasiopodomys mandarinus*:7.0) '274 *Lasiopodomys*':10.5, *Lemmiscus curtatus*:17.5, (((*Lemmus amurensis*:9.3, *Lemmus lemmus*:9.3, *Lemmus sibiricus*:9.3) '277 *Lemmus*':2.1, *Myopus schisticolor*:11.4) '276':0.8, (*Synaptomys borealis*:4.2, *Synaptomys cooperi*:4.2) '278 *Synaptomys*':8.0) '275':5.3, ((*Microtus agrestis*:7.3, *Microtus cabrerae*:7.3) '280':0.2, (*Microtus fortis*:6.4, *Microtus hyperboreus*:6.4, (*Microtus evoronensis*:3.7, *Microtus maximowiczii*:3.7, *Microtus mujanensis*:3.7) '282':2.7, (*Microtus middendorffii*:3.7, *Microtus mongolicus*:3.7, *Microtus sachalinensis*:3.7) '283':2.7) '281':1.1, (*Microtus chrotorrhinus*:7.3, (*Microtus richardsoni*:6.2, *Microtus xanthognathus*:6.2) '285':1.1) '284':0.2, *Microtus guatemalensis*:7.5, *Microtus longicaudus*:7.5, *Microtus mexicanus*:7.5, *Microtus oaxacensis*:7.5, ((*Microtus arvalis*:3.9, *Microtus kermanensis*:3.9, *Microtus kirgisorum*:3.9, *Microtus obscurus*:3.9, *Microtus rossiaemericinalis*:3.9, *Microtus transcaspicus*:3.9) '287':1.9, (*Microtus guentheri*:1.7, *Microtus irani*:1.7, *Microtus socialis*:1.7) '288':4.1) '286':1.7, (*Microtus californicus*:7.3, (*Microtus canicaudus*:5.5, *Microtus montanus*:5.5) '290':1.8, *Microtus oregoni*:7.3, (*Microtus breweri*:5.6, *Microtus pennsylvanicus*:5.6, *Microtus townsendii*:5.6) '291':1.7) '289':0.2, (*Microtus juldaschi*:6.1, *Microtus leucurus*:6.1, (*Microtus irene*:2.5, *Microtus sikimensis*:2.5) '293':3.6) '292':1.4, *Microtus umbrosus*:7.5, (*Microtus limnophilus*:5.7, *Microtus montebelli*:5.7, *Microtus oeconomus*:5.7) '294':1.8, *Microtus ochrogaster*:7.5, (*Microtus pinetorum*:4.0, *Microtus quasiater*:4.0) '295':3.5, (*Microtus abbreviatus*:7.3, *Microtus gregalis*:7.3, *Microtus miurus*:7.3) '296':0.2, (*Microtus majori*:6.0, *Microtus multiplex*:6.0, *Microtus schelkovnikovi*:6.0, (*Microtus duodecimcostatus*:4.3, *Microtus lusitanicus*:4.3, *Microtus thomasi*:4.3) '298':1.7, (*Microtus felteni*:5.6, *Microtus gerbei*:5.6, *Microtus savii*:5.

6)'299':0.4,(*Microtus\_bavaricus*:5.4,*Microtus\_daghestanicus*:5.4,*Microtus\_nasarovi*:5.4,*Microtus\_subterraneus*:5.4,*Microtus\_tatricus*:5.4)'300':0.6)'297':1.5)'279\_*MicrotusNeofiber\_alleni*:17.5,*Ondatra\_zibethicus*:17.5,*Proedromys\_be dfordi*:17.5,(*Volemys\_clarkei*:8.9,*Volemys\_kikuchii*:8.9,*Volemys\_millicens*:8.9,*Volemys\_musseri*:8.9)'301\_*VolemysArvicolinaeAmmodillus\_imbellis*:19.9,((*Brachionomys\_przewalskii*:16.8,(*Meriones\_hurrianae*:13.2,*Meriones\_tamarsicus*:13.2,(*Meriones\_arimalius*:11.4,*Meriones\_chengi*:11.4,*Meriones\_crassus*:11.4,*Meriones\_dahli*:11.4,*Meriones\_libycus*:11.4,*Meriones\_meridianus*:11.4,*Meriones\_sacramenti*:11.4,*Meriones\_shawi*:11.4,*Meriones\_tristrami*:11.4,*Meriones\_unguiculatus*:11.4,*Meriones\_vinogradovi*:11.4,*Meriones\_zarudnyi*:11.4)'306':1.8,(*Meriones\_persicus*:2.6,*Meriones\_rex*:2.6)'307':10.6)'305\_*MerionesSekeetamys\_calurus*:16.8)'304':0.8,(*Psammomys\_obesus*:4.0,*Psammomys\_vexillaris*:4.0)'308\_*PsammomysRhombomys\_optimus*:17.6)'303':2.3,*Desmodillus\_braueri*:19.9,(*Desmodillus\_auricularis*:10.4,(*Gerbillurus\_paeba*:8.1,*Gerbillurus\_setzeri*:8.1,*Gerbillurus\_tytonis*:8.1,*Gerbillurus\_vallinus*:8.1)'310\_*GerbillurusGerbillus\_acticola*:19.6,*Gerbillus\_agag*:19.6,*Gerbillus\_allenbyi*:19.6,*Gerbillus\_amoenus*:19.6,*Gerbillus\_andersoni*:19.6,*Gerbillus\_aquilus*:19.6,*Gerbillus\_bilensis*:19.6,*Gerbillus\_bonhotei*:19.6,*Gerbillus\_bottai*:19.6,*Gerbillus\_brockmani*:19.6,*Gerbillus Burtoni*:19.6,*Gerbillus\_campestris*:19.6,*Gerbillus\_chesmani*:19.6,*Gerbillus\_cosensi*:19.6,*Gerbillus\_dalloni*:19.6,*Gerbillus\_dasyurus*:19.6,*Gerbillus\_diminutus*:19.6,*Gerbillus\_dongolanus*:19.6,*Gerbillus\_dunni*:19.6,*Gerbillus\_famulus*:19.6,*Gerbillus\_floweri*:19.6,*Gerbillus\_garamantis*:19.6,*Gerbillus\_gerbillus*:19.6,*Gerbillus\_gleadowi*:19.6,*Gerbillus\_grobbeni*:19.6,*Gerbillus\_harwoodi*:19.6,*Gerbillus\_henleyi*:19.6,*Gerbillus\_hesperinus*:19.6,*Gerbillus\_hoogstraali*:19.6,*Gerbillus\_jamesi*:19.6,*Gerbillus\_julianoi*:19.6,*Gerbillus\_latastei*:19.6,*Gerbillus\_lowei*:19.6,*Gerbillus\_mackillingini*:19.6,*Gerbillus\_magharebi*:19.6,*Gerbillus\_mauretaniae*:19.6,*Gerbillus\_mesopotamiae*:19.6,*Gerbillus\_muriculus*:19.6,*Gerbillus\_nancillus*:19.6,*Gerbillus\_nanus*:19.6,*Gerbillus\_nigeriae*:19.6,*Gerbillus\_occiduus*:19.6,*Gerbillus\_percivali*:19.6,*Gerbillus\_perpallidus*:19.6,*Gerbillus\_poechilops*:19.6,*Gerbillus\_principulus*:19.6,*Gerbillus\_pulvinatus*:19.6,*Gerbillus\_pusillus*:19.6,*Gerbillus\_pyramidalis*:19.6,*Gerbillus\_quadrivirgatus*:19.6,*Gerbillus\_riggenbachi*:19.6,*Gerbillus\_rosalinda*:19.6,*Gerbillus\_ruberrimus*:19.6,*Gerbillus\_simoni*:19.6,*Gerbillus\_somalicus*:19.6,*Gerbillus\_stigmoneyx*:19.6,*Gerbillus\_syrticus*:19.6,*Gerbillus\_tarabuli*:19.6,*Gerbillus\_vivax*:19.6,*Gerbillus\_watersi*:19.6)'312\_*GerbillusMicrodillus\_peeli*:19.7)'311':0.2,*Pachyuromys\_duprasi*:19.9,(*Tatera\_boehmi*:17.6,*Tatera\_indica*:17.6,(*Tatera\_afra*:13.4,*Tatera\_brantsii*:13.4,*Tatera\_guineae*:13.4,*Tatera\_inclusa*:13.4,*Tatera\_kempi*:13.4,*Tatera\_leucogaster*:13.4,*Tatera\_nigricauda*:13.4,*Tatera\_phillipsi*:13.4,*Tatera\_robusta*:13.4,*Tatera\_valida*:13.4)'314':4.2)'313\_*TateraTaterillus\_arenarius*:17.6,*Taterillus\_conicus*:17.6,*Taterillus\_emini*:17.6,*Taterillus\_gracilis*:17.6,*Taterillus\_harringtoni*:17.6,*Taterillus\_lacustris*:17.6,*Taterillus\_petteri*:17.6,*Taterillus\_pygargus*:17.6)'315\_*TaterillusGerbillinaeBeamys\_hindei*:7.0,*Beamys\_major*:7.0)'318\_*BeamysCricetomys\_emini*:7.0,*Cricetomys\_gambianus*:7.0)'319\_*CricetomysSaccostomus\_campestris*:6.9,*Saccostomus\_mearnsi*:6.9)'320\_*SaccostomusCricetomyinaeBrachytarsomys\_albicauda*:15.6,((*Eliurus\_majori*:6.5,*Eliurus\_minor*:6.5,*Eliurus\_myoxinus*:6.5,*Eliurus\_penicillatus*:6.5,*Eliurus\_tanala*:6.5,*Eliurus\_webbi*:6.5)'324\_*EliurusGymnuromys\_roberti*:13.3)'323':2.3)'322':5.4,((*Brachyuromys\_betsileoensis*:7.1,*Brachyuromys\_ramirohitra*:7.1)'327\_*BrachyuromysNesomys\_rufus*:9.7)'326':6.1,*Hypogeomys\_antimena*:15.8)'325':5.2,(*Macrotarsomys\_bastardi*:5.7,*Macrotarsomys\_ingens*:5.7)'328\_*MacrotarsomysNesomyinaeCalomyscus\_bailwardi*:8.5,*Calomyscus\_baluchi*:8.5,*Calomyscus\_hotsoni*:8.5,*Calomyscus\_mystax*:8.5,*Calomyscus\_tsolovi*:8.5,*Calomyscus\_urartensis*:8.5)'329\_*Calomyscinae*'*CalomyscusCannomys\_badius*:8.9,(*Rhizomys\_pruinosus*:6.1,*Rhizomys\_sinensis*:6.1,*Rhizomys\_sumatrensis*:6.1)'332\_*RhizomysTachyoryctes\_ankolieae*:8.9,*Tachyoryctes\_annectens*:8.9,*Tachyoryctes\_audax*:8.9,*Tachyoryctes\_daemon*:8.9,*Tachyoryctes\_macrocephalus*:8.9,*Tachyoryctes\_naivasha*:8.9,*Tachyoryctes\_rex*:8.9,*Tachyoryctes\_ruandae*:8.9,*Tachyoryctes\_ruddi*:8.9,*Tachyoryctes\_spalacinus*:8.9,*Tachyoryctes\_splendens*:8.9)'333\_*TachyoryctesRhizomyinaeDelanomys\_brooksi*:14.0,(*Petromyscus\_barbouri*:11.6,*Petromyscus\_collinus*:11.6

, Petromyscus\_monticularis:11.6, Petromyscus\_shortridgei:11.6) '335\_Petromyscus':2.4) '334\_Petromyscinae':29.8, (Dendromus\_insignis:20.9, Dendromus\_kahuziensis:20.9, Dendromus\_kivu:20.9, Dendromus\_lovati:20.9, Dendromus\_melanotis:20.9, Dendromus\_mesomelas:20.9, Dendromus\_messorius:20.9, Dendromus\_mystacalis:20.9, Dendromus\_nyikae:20.9, Dendromus\_oreas:20.9, Dendromus\_vernayi:20.9) '336\_Dendromurinae1\*' Dendromus':22.9, Dendroprionomys\_rousseloti:43.8, Deomys\_ferrugineus:43.8, (Leimacomys\_buettneri:17.0, (Steatomys\_caurinus:15.0, Steatomys\_cuppedius:15.0, Steatomys\_jacksoni:15.0, Steatomys\_krebsii:15.0, Steatomys\_parvus:15.0, Steatomys\_pratensis:15.0) '338\_Steatomys':2.0) '337\_Dendromurinae2\*':26.8, Lophiomys\_imhausi:43.8, Malacothrix\_typica:43.8, Megadendromus\_nikolausi:43.8, (Myospalax\_aspalax:4.4, Myospalax\_epsilanus:4.4, Myospalax\_fontanieri:4.4, Myospalax\_myospalax:4.4, Myospalax\_psilurus:4.4, Myospalax\_rothschildi:4.4, Myospalax\_smithii:4.4) '339\_Myospalacinae\_Myospalax':39.4, Mystromys\_albicaudatus:43.8, ((Nannospalax\_ehrenbergi:6.7, Nannospalax\_leucodon:6.7, Nannospalax\_nehringi:6.7) '341\_Nannospalax':10.1, (Spalax\_arenarius:13.5, Spalax\_giganteus:13.5, Spalax\_graecus:13.5, Spalax\_microphtalmus:13.5, Spalax\_zemni:13.5) '342\_Spalax':3.3) '340\_Spalacinae':27.0, (Platacanthomys\_lasiurus:9.6, (Typhlomys\_chapensis:5.8, Typhlomys\_cinereus:5.8) '344\_Typhlomys':3.8) '343\_Platacanthomyinae':34.2, Prionomys\_batesi:43.8) '33\_Muridae':23.5) '19':7.8) '13':0.1, ((Castor\_canadensis:11.4, Castor\_fiber:11.4) '346\_Castoridae\_Castor':55.1, (((Perognathus\_italicola:15.9, Perognathus\_amplus:15.9, Perognathus\_fasciatus:15.9, Perognathus\_flavescens:15.9, Perognathus\_flavus:15.9, Perognathus\_inornatus:15.9, Perognathus\_longimembris:15.9, Perognathus\_merriami:15.9, Perognathus\_parvus:15.9, Perognathus\_xanthanotus:15.9) '350\_Perognathus':10.4, (Chaetodipus\_formosus:18.6, ((Chaetodipus\_arenarius:11.3, ((Chae todipus\_penicillatus:6.8, (Chaetodipus\_intermedius:6.6, Chaetodipus\_nelsoni:6.6, Chaetodipus\_lineatus:6.6) '357':0.2, (Chaetodipus\_goldmani:1.0, Chaetodipus\_artus:1.0) '358':5.8) '356':2.8, Chaetodipus\_perinx:9.6) '355':1.6, ((Chaetodipus\_spiratus:10.9, Chaetodipus\_fallax:10.9) '360':0.2, Chaetodipus\_californicus:11.1) '359':0.1) '354':0.1) '353':0.1, (Chaetodipus\_baileyi:4.0, Chaetodipus\_hispidus:4.0) '361':7.4) '352':7.2) '351\_Chaetodipus':7.7) '349\_Perognathinae':0.3, (((((Dipodomys\_ordii:2.3, (Dipodomys\_gravipes:0.8, Dipodomys\_ingens:0.8) '367':1.5) '366':1.4, Dipodomys\_compactus:3.7) '365':0.2, ((Dipodomys\_panamintinus:2.2, (Dipodomys\_heermannii:1.2, Dipodomys\_stephensi:1.2) '371':1.0) '370':1.4, ((Dipodomys\_venustus:1.4, Dipodomys\_elephantinus:1.4) '374':0.5, Dipodomys\_agilis:1.9) '373':0.8, Dipodomys\_microps:2.7) '372':0.9, Dipodomys\_elator:3.6, Dipodomys\_phillipsii:3.6, Dipodomys\_californicus:3.6) '369':0.1, ((Dipodomys\_merriami:1.3, Dipodomys\_nitratoides:1.3) '376':1.3, Dipodomys\_insularis:2.6) '375':1.1) '368':0.2) '364':0.1, (Dipodomys\_deserti:2.9, (Dipodomys\_spectabilis:2.3, Dipodomys\_nelsoni:2.3) '378':0.6) '377':1.1) '363\_Dipodomys':16.0, (Microdipodops\_megacephalus:5.4, Microdipodops\_pallidus:5.4) '379\_Microdipodops':14.6) '362\_Dipodomynaef':6.6) '348\_Heteromyidae1\*':1.5, (((((Thomomys\_bottae:10.7, Thomomys\_townsendii:10.7) '384':0.1, Thomomys\_umbrinus:10.8) '383':2.2, Thomomys\_bulbivorus:13.0) '382':0.2, (Thomomys\_talpoides:9.7, Thomomys\_monticola:9.7, Thomomys\_mazama:9.7) '385':3.5) '381\_Geomyidae1\*' Thomomys':7.7, (((Geomys\_personatus:0.4, Geomys\_tropicalis:0.4) '389':4.1, (Geomys\_bursarius:4.3, Geomys\_arenarius:4.3) '390':0.2) '388':2.8, Geomys\_pinetis:7.3) '387\_Geomyidae2\*Geomys':5.2, ((Pappogeomys\_bulleri:7.2, Pappogeomys\_merriami:7.2, Pappogeomys\_castanops:7.2, (((Heteromys\_goldmani:1.2, Heteromys\_desmarestianus:1.2) '397':1.5, Heteromys\_oresterus:2.7) '396':1.0, Heteromys\_nelsoni:3.7) '395\_Heteromys\*':3.2, (((Liomys\_adspersus:1.2, Liomys\_salvini:1.2) '401':1.7, (Liomys\_pictus:1.2, Liomys\_spectabilis:1.2) '403':0.8, Liomys\_irroratus:2.0) '402':0.9) '400\_Liomys':1.5, Heteromys\_australis:4.4) '399':0.8, Heteromys\_anomalus:5.2) '398':1.7) '394':0.1, Heteromys\_gaumeri:7.0) '393\_Heteromyidae2\*Heteromyinae':0.2, Pappogeomys\_gymnurus:7.2, Pappogeomys\_tylorhinus:7.2, Pappogeomys\_neglectus:7.2, Pappogeomys\_zinsieri:7.2, Pappogeomys\_fumosus:7.2, Pappogeomys\_alcorni:7.2) '392':5.1, ((Orthogeomys\_heterodus:6.0, Orthogeomys\_hispidus:6.0, Orthogeomys\_grandis:6.0, Orthogeomys\_cherriei:6.0, Orthogeomys\_underwoodi:6.0, Orthogeomys\_dariensis:6.0, Orthogeomys\_cavator:6.0, Orthogeomys\_cuniculus:6.0, Orthogeomys\_lanius:6.0, Orthogeomys\_matagalpae:6.0, Orthogeomys\_thaeleri:6.0) '405\_Orthogeomys':4.9, Zygogeomys\_trichopus:10.9) '404\_Geomyidae3\*':1.4) '391':0.2) '386':8.4) '380':7.2) '347':38.4) '345':8.7) '12':4.9, (((Octodon\_bridgesi:3.7, Octodon\_lunatus

:3.7,Octodon\_degus:3.7)'408\_Octodontidae1\*\_Octodon':38.0,((Massoutiera\_mzabi:3.8,Pectinator\_spekei:3.8,(Ctenodactylus\_gundi:3.5,Ctenodactylus\_vali:3.5)'411\_Ctenodactylus':0.3)'410':13.3,Felovia\_vae:17.1)'409\_Ctenodactylidae':24.6)'407':0.2,((Tympanoctomys\_barrerae:19.7,Octomys\_mimax:19.7)'413\_Octodontidae2\*:22.0,((Ctenomys\_conoveri:2.0,Ctenomys\_frater:2.0,Ctenomys\_boliviensis:2.0,Ctenomys\_steinbachi:2.0,Ctenomys\_haigi:2.0,Ctenomys\_leucodon:2.0,Ctenomys\_opimus:2.0,Ctenomys\_mendocinus:2.0,Ctenomys\_pearsoni:2.0,Ctenomys\_torquatus:2.0,Ctenomys\_lewisi:2.0,Ctenomys\_sociabilis:2.0,Ctenomys\_tuconax:2.0,Ctenomys\_talarum:2.0,Ctenomys\_bonettoi:2.0,Ctenomys\_azarae:2.0,Ctenomys\_tucumanus:2.0,Ctenomys\_nattereri:2.0,Ctenomys\_argentinus:2.0,Ctenomys\_occultus:2.0,Ctenomys\_lator:2.0,Ctenomys\_magellanicus:2.0,Ctenomys\_perrensis:2.0,Ctenomys\_maulinus:2.0,Ctenomys\_australis:2.0,Ctenomys\_porteousi:2.0,Ctenomys\_fulvus:2.0,Ctenomys\_brasiliensis:2.0,Ctenomys\_colburni:2.0,Ctenomys\_dorsalis:2.0,Ctenomys\_emilianus:2.0,Ctenomys\_knighti:2.0,Ctenomys\_minutus:2.0,Ctenomys\_peruanus:2.0,Ctenomys\_pontifex:2.0,Ctenomys\_saltarius:2.0,Ctenomys\_sericeus:2.0,Ctenomys\_validus:2.0)'415\_Ctenomyidae\_Ctenomys':37.4,(Abrocoma\_bennettii:39.2,Hydrochaeris\_hydrochaeris:39.2,Dynomys\_branickii:39.2,Petromus\_typicus:39.2,Abrocoma\_cinerea:39.2,Abrocoma\_boliviensis:39.2,(Kerodon\_rupestris:29.6,(Cavia\_porcellus:4.7,Cavia\_tschudii:4.7,Cavia\_aperea:4.7,Cavia\_fulgida:4.7,Cavia\_magna:4.7,(Microcavia\_australis:4.5,Microcavia\_niata:4.5,Microcavia\_shiptoni:4.5)'419\_Microcavia':0.2,(Galea\_musteloides:4.5,Galea\_spixii:4.5,Galea\_flavidens:4.5)'420\_Galea':0.2)'418':24.9)'417\_Caviidae1\*\_Caviniae':9.6,((Myoprocta\_acouchy:5.2,Myoprocta\_exilis:5.2)'422\_Myoprocta':12.7,(Dasyprocta\_punctata:4.8,Dasyprocta\_leporina:4.8,Dasyprocta\_azarae:4.8,Dasyprocta\_coibae:4.8,Dasyprocta\_cristata:4.8,Dasyprocta\_fuliginosa:4.8,Dasyprocta\_guamara:4.8,Dasyprocta\_kalinowskii:4.8,Dasyprocta\_mexicana:4.8,Dasyprocta\_prymnolopha:4.8,Dasyprocta\_ruatanica:4.8)'423\_Dasyprocta':13.1)'421\_Dasyproctidae':21.3,((Myocastor\_coyopus:11.7,(Thrichomys\_apereoides:11.5,Proechimys\_dimidiatus:11.5,Proechimys\_setosus:11.5,Proechimys\_iheringi:11.5,Hoplomys\_gymnurus:11.5,Proechimys\_amphichoricus:11.5,Proechimys\_simonsi:11.5,Euryzygomatomys\_spinosus:11.5,Lonchothrix\_emiliae:11.5,Proechimys\_longicaudatus:11.5,Proechimys\_oris:11.5,Proechimys\_albispinus:11.5,Proechimys\_trinitatis:11.5,Carterodon\_sulcidens:11.5,Chaetomys\_subspinosus:11.5,Proechimys\_bolivianus:11.5,Proechimys\_brevicauda:11.5,Proechimys\_canicollis:11.5,Proechimys\_cayennensis:11.5,Proechimys\_chrysaeolus:11.5,Proechimys\_cuvieri:11.5,Proechimys\_decumanus:11.5,Proechimys\_goeldii:11.5,Proechimys\_gorgonae:11.5,Proechimys\_guairae:11.5,Proechimys\_gularis:11.5,Proechimys\_hendeei:11.5,Proechimys\_hoplomyoides:11.5,Proechimys\_magdalena:11.5,Proechimys\_mincae:11.5,Proechimys\_myosuros:11.5,Proechimys\_oconnelli:11.5,Proechimys\_polopus:11.5,Proechimys\_quadruplicatus:11.5,Proechimys\_semispinosus:11.5,Proechimys\_steeriei:11.5,Proechimys\_urichi:11.5,Proechimys\_warreni:11.5,(Clyomys\_laticeps:2.5,Clyomys\_bishopi:2.5)'427\_Eumysopinae1\*\_Clyomys':9.0,(Makalata\_armata:11.4,(Echimys\_chrysurus:10.4,Echimys\_blainvillei:10.4,Echimys\_braziliensis:10.4,Echimys\_dasythrix:10.4,Echimys\_grandis:10.4,Echimys\_lamarum:10.4,Echimys\_macrurus:10.4,Echimys\_nigrispinus:10.4,Echimys\_pictus:10.4,Echimys\_rhipidurus:10.4,Echimys\_saturnus:10.4,Echimys\_semivillosus:10.4,Echimys\_thomasi:10.4,Echimys unicolor:10.4)'429\_Echimys':1.0,(Isothrix\_bistriata:4.6,Isothrix\_pagurus:4.6)'430\_Isothrix':6.8,(Diplomys\_caniceps:3.8,Diplomys\_labilis:3.8,Diplomys\_rufodorsalis:3.8)'431\_Diplomys':7.6)'428\_Echimyinae':0.1,(Kannabateomys\_amblonyx:4.6,(Dactylomys\_dactylinus:1.7,Dactylomys\_boliviensis:1.7,Dactylomys\_peruanus:1.7)'433\_Dactylomys':2.9,(Olallamys\_albicauda:2.0,Olallamys\_edax:2.0)'434\_Olallamys':2.6)'432\_Dactylomyinae':6.9,(Mesomys\_hispidus:4.4,Mesomys\_didelphoides:4.4,Mesomys\_leniceps:4.4,Mesomys\_obscurus:4.4,Mesomys\_stimulax:4.4)'435\_Eumysopinae2\*\_Mesomys':7.1)'426\_Echimyidae':0.2)'425':0.1,(((Capromys\_piloriades:3.6,(Geocapromys\_brownii:0.5,Geocapromys\_ingrahami:0.5)'440\_Geocapromys':3.1)'439':5.3,(Mysateles\_prehensilis:5.3,Mysateles\_garridoi:5.3,Mysateles\_gundlachi:5.3,Mysateles\_melanurus:5.3,Mysateles\_meridionalis:5.3)'441\_Mysateles':3.6)'438':2.2,(Mesocapromys\_auritus:5.9,Mesocapromys\_angelcabrerai:5.9,Mesocapromys\_nanus:5.9,Mesocapromys\_sanfelipensis:5.9)'442\_Mesocapromys':5.2)'437\_Capromyinae':0.2,Plagiodontia\_aedium:11.3,Isolobodon\_portoricensis:11.3)'436\_Capromyidae':0.5)'424':27.4,(Dolichotis\_patagonum:23.0,Dolichotis\_salinicola:23.0)

'443\_Caviidae2\* Dolichotinae\_Dolichotis':16.2, (Agouti\_paca:4.8, Agouti\_taczanowskii:4.8) '444\_Agoutidae\_Agouti':34.4, (Trichys\_fasciculata:15.3, (Hystrix\_afri caeaaustralis:12.4, Hystrix\_cristata:12.4, Hystrix\_brachyura:12.4, Hystrix\_crassi spinis:12.4, Hystrix\_indica:12.4, Hystrix\_javanica:12.4, Hystrix\_pumila:12.4, Hystrix\_sumatrae:12.4) '446\_Hystrix':2.9, (Atherurus\_macrourus:15.2, Atherurus\_afri canus:15.2) '447\_Atherurus':0.1) '445\_Hystricidae':23.9, (Thryonomys\_swinderianus:5.4, Thryonomys\_gregorianus:5.4) '448\_Thryonomyidae\_Thryonomys':33.8, (Heteroc ephalus\_glaber:29.9, (Heliophobius\_argenteocinereus:14.4, ((Cryptomys\_damarensis:10.9, Cryptomys\_hottentotus:10.9, Cryptomys\_mechowi:10.9, Cryptomys\_bocagei:10.9, Cryptomys\_foxi:10.9, Cryptomys\_ochraceocinereus:10.9, Cryptomys\_zechi:10.9) '452\_Cryptomys':0.8, (Georychus\_capensis:11.6, (Bathyergus\_suillus:3.8, Bathyergus\_janetta:3.8) '454\_Bathyergus':7.8) '453':0.1) '451':2.7) '450':15.5) '449\_Bathye rgidae':9.3, (Erethizon\_dorsatum:9.6, Echinoprocta\_rufescens:9.6, (Sphiggurus\_in sidiosus:9.4, Sphiggurus\_villosus:9.4, Sphiggurus\_mexicanus:9.4, Sphiggurus\_spin osus:9.4, Sphiggurus\_vestitus:9.4) '456\_Sphiggurus':0.2, (Coendou\_bicolor:0.1, Co endou\_prehensilis:0.1, Coendou\_koopmani:0.1, Coendou\_rothschildi:0.1) '457\_Coend ou':9.5) '455\_Erethizontidae':29.6, (Lagostomus\_maximus:14.0, ((Chinchilla\_lanig era:5.4, Chinchilla\_brevicaudata:5.4) '460\_Chinchilla':7.0, (Lagidium\_peruanum:8.6, Lagidium\_visccacia:8.6, Lagidium\_wolffsohni:8.6) '461\_Lagidium':3.8) '459':1.6) '458\_Chinchillidae':25.2) '416':0.2) '414':2.3, (Spalacopus\_cyanus:30.1, Octodon tomys\_gliroides:30.1) '462\_Octodontidae3\*':11.6, (Aconaemys\_sagei:7.8, Aconaemys\_fuscus:7.8) '463\_Octodontidae4\* Aconaemys':33.9) '412':0.2) '406':38.2) '11':0.1 , ((Aploodontia\_rufa:48.5, (((((((((Marmota\_menzbieri:1.3, Marmota\_caudata:1.3) '478':1.1, ((Marmota\_baibacina:2.0, Marmota\_bobak:2.0) '480':0.3, ((Marmota\_cams chatica:1.7, Marmota\_himalayana:1.7) '482':0.2, Marmota\_sibirica:1.9) '481':0.4) '479':0.1) '477':0.2, (Marmota\_broweri:2.2, Marmota\_marmota:2.2) '483':0.4) '476':0.1, Marmota\_monax:2.7) '475':0.1, (Marmota\_flaviventris:1.8, (Marmota\_olympus:0.7, Marmota\_caligata:0.7, Marmota\_vancouverensis:0.7) '485':1.1) '484':1.0) '474\_M armota':4.0, (((((((((Spermophilus\_undulatus:1.4, Spermophilus\_columbianus:1.4) '497':1.1, Spermophilus\_parryi:2.5, ((Spermophilus\_richardsonii:2.2, Spermophilus\_armatus:2.2) '499':0.2, Spermophilus\_atricapillus:2.4) '498':0.1) '496':1.0 , ((Spermophilus\_tridecemlineatus:2.1, Spermophilus\_perotensis:2.1) '501':0.7, Spermophilus\_franklinii:2.8) '500':0.7, Spermophilus\_washingtoni:3.5) '495':0.4, (((((Spermophilus\_dauricus:2.9, Spermophilus\_spilosoma:2.9) '507':0.3, Spermophilus\_beecheyi:3.2) '506':0.1, Spermophilus\_madrensis:3.3) '505':0.2, ((Spermophilus\_major:3.0, Spermophilus\_citellus:3.0) '509':0.3, Spermophilus\_fulvus:3.3) '508':0.2, (Spermophilus\_xanthoprymnus:3.4, ((Spermophilus\_pygmaeus:2.8, Spermophilus\_relictus:2.8, Spermophilus\_erythrogenys:2.8) '512':0.4, Spermophilus\_suslicus:3.2, Spermophilus\_musicus:3.2, Spermophilus\_beldingi:3.2, Spermophilus\_adocetus:3.2, Spermophilus\_mollis:3.2) '511':0.2) '510':0.1) '504':0.1, Spermophilus\_alashanicus:3.6) '503':0.1, (Spermophilus\_brunneus:2.9, Spermophilus\_townsendii:2.9) '513':0.8) '502':0.2) '494':0.5, Spermophilus\_tereticaudus:4.4) '493':0.2, Spermophilus\_canus:4.6) '492':0.7, Spermophilus\_mohavensis:5.3) '491':0.9, Spermophilus\_annu latus:6.2) '490':0.2, Spermophilus\_saturatus:6.4) '489':0.1, Spermophilus\_mexicanus:6.5) '488':0.1, Spermophilus\_elegans:6.6) '487':0.1, (Spermophilus\_lateralis:5.2, Spermophilus\_variegatus:5.2) '514':1.5) '486\_Spermophilus':0.1, ((Cynomys\_gun nisoni:2.8, (Cynomys\_leucurus:1.7, Cynomys\_parvidens:1.7) '517':1.1) '516':1.3, (Cynomys\_ludovicianus:0.7, Cynomys\_mexicanus:0.7) '518':3.4) '515\_Cynomys':2.7) '473':0.2, ((Ammospermophilus\_leucurus:1.5, Ammospermophilus\_nelsoni:1.5, Ammospermophilus\_interpres:1.5, Ammospermophilus\_harrisii:1.5) '520':0.8, Ammospermophilus\_insularis:2.3) '519\_Ammospermophilus':4.7) '472':16.0, (Tamias\_striatus:16.4, (Tamias\_sibiricus:14.9, (((((Tamias\_amoenus:7.9, (Tamias\_quadrivittatus:7.8, (Tamias\_durangae:5.1, Tamias\_canipes:5.1) '529':2.7) '528':0.1) '527':0.1, (Tamias\_bulleri:3.1, (Tamias\_rufus:2.2, ((Tamias\_quadrivittatus:1.5, Tamias\_dorsalis:1.5) '534':0.2, Tamias\_cinereicollis:1.7) '533':0.2, (Tamias\_palmeri:1.3, Tamias\_umbri nus:1.3) '535':0.6) '532':0.3) '531':0.9) '530':4.9) '526':0.2, ((Tamias\_townsendii:1.1, (Tamias\_senex:0.9, Tamias\_sonomae:0.9) '538':0.2) '537':5.3, Tamias\_siskiyou:6.4) '536':1.8) '525':0.1, (Tamias\_merriami:2.7, Tamias\_obscurus:2.7) '539':5.6) '524':0.1, (((Tamias\_ruficaudus:3.6, Tamias\_ochrogenys:3.6) '543':4.1, Tamias\_spe ciosus:7.7) '542':0.1, (Tamias\_minimus:2.8, 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toceros\_bezoarticus:1.3)'1030':0.3,(Mazama\_americana:0.2,Mazama\_bricenii:0.2,Mazama\_chunyi:0.2,Mazama\_gouazoupira:0.2,Mazama\_nana:0.2,Mazama\_rufina:0.2)'1032\_Mazama':1.4,(Odocoileus\_hemionus:1.2,Odocoileus\_virginianus:1.2)'1033\_Odocoileus':0.4,(Pudu\_mephistophiles:1.2,Pudu\_puda:1.2)'1034\_Pudu':0.4)'1029':5.9,Rangifer\_tarandus:7.5)'1028\_Odocoileinae2\*':7.2)'1024':0.2,((Axis\_axis:7.1,Axis\_calamianensis:7.1,Axis\_kuhlii:7.1,Axis\_porcinus:7.1)'1037\_Axis':0.2,((Cervus\_albirostris:4.3,Cervus\_alfredi:4.3,Cervus\_duvaucelii:4.3,Cervus\_elaphus:4.3,Cervus\_eldii:4.3,Cervus\_mariannus:4.3,Cervus\_nippon:4.3,Cervus\_timorensis:4.3,Cervus\_unicolor:4.3,Elaphurus\_davidianus:4.3)'1039':2.8,(Dama\_dama:2.8,Dama\_mesopotamica:2.8)'1040\_Dama':4.3)'1038':0.2)'1036\_Cervinae':7.4,(Elaphodus\_cephalophus:12.4,(Muntiacus\_atherodes:3.1,Muntiacus\_crinifrons:3.1,Muntiacus\_faeae:3.1,Muntiacus\_gongshanensis:3.1,Muntiacus\_muntjak:3.1,Muntiacus\_reevesi:3.1)'1042\_Muntiacus':9.3)'1041\_Muntiacinae':2.3)'1035':0.2)'1023\_Cervidae':9.2,((Moschus\_berezovskii:4.9,(Moschus\_chrysogaster:0.2,Moschus\_fuscus:0.2)'1045':4.7)'1044':6.4,Moschus\_moschiferus:11.3)'1043\_Moschidae\_Moschus':12.8)'1022':0.2)'937':0.1,(Antilocapra\_americana:17.1,(Giraffa\_camelopardalis:6.8,Okapia\_johnstoni:6.8)'1047\_Giraffidae':10.3)'1046':7.3)'936':16.2,(Hyemoschus\_aquaticus:11.1,Moschiola\_meminna:11.1,(Tragulus\_javanicus:0.8,Tragulus\_napu:0.8)'1049\_Tragulus':10.3)'1048\_Tragulidae':29.5)'935':18.6,(((((((Australophocaena\_dioptrica:4.2,Neophocaena\_phocaenoides:4.2,Phocoena\_phocoena:4.2,(Phocoena\_sinus:4.0,Phocoena\_spinipinnis:4.0)'1059\_Phocoena\*':0.2,Phocoenoides\_dalli:4.2)'1058\_Phocoenidae':23.6,((((((Cephalorhynchus\_commersonii:2.9,Cephalorhynchus\_eutropia:2.9)'1065':2.8,Cephalorhynchus\_hectori:5.7)'1064':0.9,Cephalorhynchus\_heavisidii:6.6)'1063\_Cephalorhynchus':0.2,(Lagenorhynchus\_australis:6.6,Lagenorhynchus\_cruciger:6.6,(Lagenorhynchus\_obliquidens:2.7,Lagenorhynchus\_obscurus:2.7)'1067':3.9)'1066\_Lagenorhynchus\*':0.2)'1062':0.1,(Lissodelphis\_borealis:2.2,Lissodelphis\_peronii:2.2)'1068\_Lissodelphis':4.7)'1061':0.1,(Delphinus\_delphis:3.9,Stenella\_attenuata:3.9,(Stenella\_clymene:3.7,Stenella\_ceruleoalba:3.7)'1070\_Stenella\*':0.2,Stenella\_frontalis:3.9,Tursiops\_truncatus:3.9)'1069':3.1,(((Feresa\_attenuata:5.8,Pseudorca\_crassidens:5.8)'1073':0.1,(Globicephala\_macrorhynchus:2.4,Globicephala\_melas:2.4)'1074\_Globicephala':3.5)'1072':0.2,Peponocephala\_electra:6.1)'1071':0.9,Grampus\_griseus:7.0,Lagenodelphis\_hosei:7.0,Lagenorhynchus\_acutus:7.0,Lagenorhynchus\_albirostris:7.0,Orcaella\_brevirostris:7.0,Orcinus\_orca:7.0,Sotalia\_fluvialis:7.0,(Sousa\_chinensis:4.3,Sousa\_teuszii:4.3)'1075\_Sousa':2.7,Stenella\_longirostris:7.0,Steno\_bredanensis:7.0)'1060\_Delphinidae':20.8)'1057':0.2,(Delphinapterus\_leucas:1.1,Monodon\_monoceros:1.1)'1076\_Monodontidae':26.9)'1056':8.1,((Inia\_geoffrensis:29.2,Pontoporia\_blainvilliei:29.2)'1078':6.7,Lipotes\_vexillifer:35.9)'1077\_Platynistidae1\*':0.2)'1055':11.3,(Berardius\_arnuxii:27.1,Berardius\_bairdii:27.1,Hyperoodon\_ampullatus:27.1,Hyperoodon\_planifrons:27.1,Indopacetus\_pacificus:27.1,Mesoplodon\_bidens:27.1,Mesoplodon\_bowdoini:27.1,Mesoplodon\_carlhubbsi:27.1,Mesoplodon\_densirostris:27.1,Mesoplodon\_europaeus:27.1,Mesoplodon\_ginkgodens:27.1,Mesoplodon\_grayi:27.1,Mesoplodon\_hectori:27.1,Mesoplodon\_layardii:27.1,Mesoplodon\_mirus:27.1,Mesoplodon\_peruvianus:27.1,Mesoplodon\_stejnegeri:27.1,Tasmacetus\_shepherdi:27.1,Ziphius\_cavirostris:27.1)'1079\_Ziphiidae':20.3)'1054':0.2,(Platanista\_gangetica:2.2,Platanista\_minor:2.2)'1080\_Platanistidae2\*\_Platanista':45.4)'1053':1.3,((Kogia\_breviceps:6.0,Kogia\_simus:6.0)'1082\_Kogia':26.5,Physeter\_catodon:32.5)'1081\_Physeteridae':16.4)'1052':0.3,((Balaena\_mysticetus:6.6,(Eubalaena\_australis:1.9,Eubalaena\_glacialis:1.9)'1086\_Eubalaena':4.7)'1085\_Balaenidae':21.0,Caperea\_marginata:27.6)'1084':2.7,(Balaenoptera\_acutorostrata:23.3,((Balaenoptera\_borealis:8.5,Balaenoptera\_edeni:8.5)'1089\_Balaenopteridae1\*Balaenoptera\*':14.6,(Balaenoptera\_musculus:22.4,Balaenoptera\_physalus:22.4,Megaptera\_novaeangliae:22.4)'1090\_Balaenopteridae2\*':0.7,Eschrichtius\_robustus:23.1)'1088':0.2)'1087':7.0)'1083':18.9)'1051':3.7,(Hexapododon liberiensis:13.4,Hippopotamus\_amphibius:13.4)'1091\_Hippopotamidae':39.5)'1050':6.3)'934':6.7,((Babyrousa\_babyrussa:16.2,(Hylochoerus\_meinertzhageni:15.9,(Potamochoerus\_larvatus:5.1,Potamochoerus\_porcus:5.1)'1096\_Potamochoerus':10.8,(Sus\_barbatus:9.6,Sus\_bucculentus:9.6,Sus\_cebifrons:9.6,Sus\_celebensis:9.6,Sus\_heureni:9.6,Sus\_philippensis:9.6,Sus\_salvanus:9.6,Sus\_scrofa:9.6,Sus\_timoriensis:9.6,Sus\_verrucosus:9.6)'1097\_Sus':6.3)'1095\_Suinae':0.1,(Phacochoe

rus\_aethiopicus:15.9, Phacochoerus\_africanus:15.9)'1098\_Phacochoerinae\_Phacochoerus':0.1)'1094':0.2)'1093\_Suidae':17.5, ((Catagonus\_wagneri:8.6, Tayassu\_peccari:8.6)'1100':14.2, Pecari\_tajacu:22.8)'1099\_Tayassuidae':10.9)'1092':32.2)'933':1.7, ((Camelus\_bactrianus:0.6, Camelus\_dromedarius:0.6)'1102\_Camelus':6.1, ((Lama\_glama:6.4, Lama\_guanicoe:6.4)'1104\_Lama\*':0.2, (Lama\_pacos:6.4, Vicugna\_vicugna:6.4)'1105':0.2)'1103':0.1)'1101\_Camelidae':60.9)'932\_Cetartiodactyla':14.3, (((Ceratotherium\_simum:10.8, Diceros\_bicornis:10.8)'1109':11.4, Dicerorhinus\_sumatrensis:22.2, (Rhinoceros\_sondaicus:6.9, Rhinoceros\_unicornis:6.9)'1110\_Rhinoceros':15.3)'1108\_Rhinocerotidae':26.6, ((Tapirus\_bairdii:14.4, Tapirus\_pinchique:2.9, Tapirus\_terrestris:2.9)'1113':11.5)'1112':0.2, Tapirus\_indicus:14.6)'1111\_Tapiridae\_Tapirus':34.2)'1107':2.3, ((Equus\_asinus:10.2, (Equus\_burchelli:10.0, Equus\_grevyi:10.0, Equus\_zebra:10.0)'1116':0.2, Equus\_hemionus:10.2, (Equus\_kiang:10.0, Equus\_onager:10.0)'1117':0.2)'1115':0.1, Equus\_caballus:10.3)'1114\_Equidae\_Equus':40.8)'1106\_Perissodactyla':30.8)'931':1.1, (((((((((Mustela\_lutreola:4.5, Mustela\_lutreolina:4.5, Mustela\_nudipes:4.5, Mustela\_sibirica:4.5, Mustela\_strigidorsa:4.5)'1131':0.2, ((Mustela\_eversmannii:2.3, Mustela\_nigripes:2.3)'1133':2.2, Mustela\_putorius:4.5)'1132':0.2)'1130':2.8, (((Mustela\_altaica:7.1, Mustela\_erminea:7.1)'1137':0.1, Mustela\_frenata:7.2, Mustela\_nivalis:7.2)'1136':0.1, (Mustela\_africana:2.3, Mustela\_felipei:2.3)'1138':5.0)'1135':0.1, Mustela\_kathiah:7.4)'1134':0.1)'1129':1.2, Mustela\_vison:8.7)'1128\_Mustela':11.6, ((((((((Martes\_americana:4.4, Martes\_melampus:4.4)'1147':0.2, Martes\_zibellina:4.6)'1146':1.6, Martes\_martes:6.2)'1145':0.2, Martes\_foina:6.4)'1144':5.7, (Martes\_flavigula:4.3, Martes\_gwatkinsii:4.3)'1148':7.8, Martes\_pennanti:12.1)'1143\_Martes':0.2, Gulo\_gulo:12.3)'1142':0.1, Eira\_barbara:12.4)'1141':6.7, (Galictis\_cuja:5.1, Galictis\_vittata:5.1)'1149\_Galictis':14.0)'1140':0.3, Lyncodon\_patagonicus:19.4)'1139':0.9, ((Ictonyx\_libyca:3.8, Ictonyx\_striatus:3.8)'1151\_Ictonyx':2.2, Vormela\_peregrusna:6.0)'1150':14.3, Poecilogale\_albinucha:20.3)'1127\_Mustelinae':0.2, Mellivora\_capensis:20.5)'1126':0.2, ((Arctonyx\_collaris:0.1, Meles\_meles:0.1)'1153':3.1, (Mydaus\_javanensis:3.0, Mydaus\_marchei:3.0)'1154\_Mydaus':0.2)'1152\_Melinae1\*':17.5, (Melogale\_everetti:8.4, Melogale\_moschata:8.4, Melogale\_orientalis:8.4, Melogale\_personata:8.4)'1155\_Melinae2\*\_Melogale':12.3, (((((Lontra\_felina:0.5, Lontra\_provocax:0.5)'1161':0.2, Lontra\_longicaudis:0.7)'1160':0.9, Lontra\_canadensis:1.6)'1159\_Lontra':0.9, (Lutra\_lutra:2.3, Lutra\_sumatrana:2.3)'1162\_Lutra\*':0.2)'1158':0.2, ((Aonyx\_capensis:2.0, Aonyx\_conicus:2.0)'1164\_Aonyx':0.5, Amblonyx\_cinereus:2.5)'1163':0.2, (Lutra\_maculicollis:2.5, Lutrogale\_perspicillata:2.5, Pteronura\_brasiliensis:2.5)'1165':0.2, Enhydrailutris:2.7)'1157\_Lutrinae':17.4, (((Conepatus\_chinga:4.8, Conepatus\_leuconotus:4.8, Conepatus\_mesoleucus:4.8)'1168':1.7, (Conepatus\_humboldtii:3.1, Conepatus\_semistriatus:3.1)'1169':3.4)'1167\_Conepatus':0.2, ((Mephitis\_macroura:3.2, Mephitis\_mephitis:3.2)'1171\_Mephitis':3.3, (Spilogale\_putorius:3.2, Spilogale\_pygmaea:3.2)'1172\_Spilogale':3.3)'1170':0.2)'1166\_Mephitinae':13.4)'1156':0.6, Taxidea\_taxus:20.7)'1125\_Mustelidae':3.5, (((Procyon\_cancrivorus:2.6, Procyon\_insularis:2.6, Procyon\_lotor:2.6, Procyon\_maynardi:2.6, Procyon\_minor:2.6, Procyon\_pygmaeus:2.6)'1176\_Procyon':6.9, ((Nasua\_narica:4.5, Nasua\_nasua:4.5)'1178\_Nasua':2.5, Nasuella.olivacea:7.0)'1177':2.5)'1175':0.2, (Bassariscus\_astutus:9.5, Bassariscus\_sumichrasti:9.5)'1179\_Bassariscus':0.2)'1174\_Procyoninae':11.6, ((Bassaricyon\_alleni:10.9, Bassaricyon\_beddardi:10.9, Bassaricyon\_gabbii:10.9, Bassaricyon\_lasius:10.9, Bassaricyon\_pauli:10.9)'1181\_Bassaricyon':1.7, Potos\_flavus:12.6)'1180\_Potosinae':8.7)'1173\_Procyonidae':2.9)'1124':1.0, Ailurus\_fulgens:25.2)'1123':20.1, ((Odobenus\_rosmarus:21.4, (((Arctocephalus\_australis:1.7, Arctocephalus\_forsteri:1.7, Arctocephalus\_galapagoensis:1.7, Arctocephalus\_philippi:1.7)'1188':0.2, Arctocephalus\_townsendi:1.9)'1187':0.1, Arctocephalus\_gazella:2.0, Arctocephalus\_tropicalis:2.0)'1186':4.9, Arctocephalus\_pusillus:6.9)'1185\_Arctocephalus':0.2, (((Neophoca\_cinerea:2.3, Phocarctos\_hookeri:2.3)'1192':1.8, Otaria\_byronia:4.1)'1191':0.2, Eumetopias\_jubatus:4.3)'1190':0.1, Zalophus\_californianus:4.4)'1189':2.7, Callorhinus Ursinus:7.1)'1184\_Otariidae':14.3)'1183':8.3, (((((Phoca\_caspica:2.0, Phoca\_hispida:2.0, Phoca\_sibirica:2.0)'1199':0.1, (Phoca\_largha:1.2, Phoca\_vitulina:1.2)'1200':0.9)'1198\_Phoca1\*':0.2, Halichoerus\_grypus:2.3)'1197':5.7, (Phoca\_fasciata:3.8, Phoca\_groenlandica:3.8)'1201\_Phoca2\*':4.2)'1196':2.6, Cystophora\_cristata:10.6)'1195':5.7, Erignathus\_barba

tus:16.3)'1194':4.0,(((Hydrurga\_leptonyx:7.7,Lobodon\_carcinophagus:7.7)'1205':0.2,(Leptonychotes\_weddellii:7.7,Ommatophoca\_rossii:7.7)'1206':0.2)'1204':5.2,(Mirounga\_angustirostris:2.9,Mirounga\_leonina:2.9)'1207\_Mirounga':10.2)'1203':0.7,(Monachus\_schauinslandi:12.0,Monachus\_monachus:12.0)'1208\_Monachus':1.8)'1202':6.5)'1193\_Phocidae':9.4)'1182':15.6)'1122':0.9,(((Ursus\_arctos:1.1,Ursus\_maritimus:1.1)'1213':8.5,Ursus\_thibetanus:9.6)'1212\_Ursus\*':0.2,(Hela\_rctos\_malayanus:9.6,Melursus\_ursinus:9.6)'1214':0.2,Ursus\_americanus:9.8)'1211':10.8,Tremarctos\_ornatus:20.6)'1210\_Ursinae':4.8,Ailuropoda\_melanoleuca:25.4)'1209\_Ursidae\*':20.8)'1121':7.0,(((Canis\_lupus:0.5,Canis\_rufus:0.5)'1220':0.2,Canis\_latrans:0.7,Canis\_simensis:0.7)'1219':0.9,((Canis\_adustus:1.2,Canis\_aureus:1.2)'1222':0.2,Canis\_mesomelas:1.4)'1221':0.2)'1218\_Canis':1.9,((Ps\_eudalopex\_culpaeus:0.7,Pseudalopex\_griseus:0.7,Pseudalopex\_gymnocercus:0.7,Ps\_eudalopex\_sechurae:0.7)'1224':0.2,Pseudalopex\_vetus:0.9)'1223\_Pseudalopex':2.6,Atelocynus\_microtis:3.5,Cerdocyon\_thous:3.5,Chrysocyon\_brachyurus:3.5,Cyon\_alpinus:3.5,Lycaon\_pictus:3.5,Speothos\_venaticus:3.5)'1217':0.8,Nyctereutes\_procyonoides:4.3)'1216':1.6,((((Vulpes\_corsac:0.9,Vulpes\_ferrilata:0.9)'1231':0.7,(Vulpes\_rueppellii:0.9,Vulpes\_vulpes:0.9)'1232':0.7)'1230\_Vulpes\*':0.2,(Alopex\_lagopus:1.1,Vulpes\_velox:1.1)'1233':0.7)'1229':2.0,(Vulpes\_cana:1.3,Vulpes\_zerda:1.3)'1234\_Vulpes2\*':2.5)'1228':1.7,(Vulpes\_bengalensis:3.0,Vulpes\_chama:3.0,Vulpes\_pallida:3.0)'1235\_Vulpes3\*':2.5)'1227':0.1,(Urocyon\_cinereoargenteus:2.5,Urocyon\_littoralis:2.5)'1236\_Urocyon':3.1)'1226':0.1,Otocyon\_megalotis:5.7)'1225':0.2)'1215\_Canidae':47.3)'1120':6.6,((((((((((Panthaea\_leo:5.1,Panthera\_pardus:5.1)'1251':0.1,Panthera\_onca:5.2)'1250':0.1,Panthera\_tigris:5.3)'1249\_Panthera':0.1,Uncia\_uncia:5.4)'1248':1.7,Neofelis\_nebulosa:7.1)'1247':0.4,Pardofelis\_marmorata:7.5)'1246\_Pantherinae':2.4,((Lynx\_canadensis:2.6,Lynx\_lynx:2.6)'1254':1.5,Lynx\_pardinus:4.1)'1253':0.4,Lynx\_rufus:4.5)'1252\_Felinae1\*Lynx':5.4)'1245':0.2,(Catopuma\_badia:6.0,Catopuma\_temmickii:6.0)'1256\_Catopuma':0.2,Profelis\_aurata:6.2)'1255\_Felinae2\*':3.9)'1244':0.1,((Leopardus\_tigrinus:4.0,Oncifelis\_geoffroyi:4.0,Oncifelis\_guigna:4.0)'1259':0.4,(Oncifelis\_colocolo:2.1,Oreailurus\_jacobita:2.1)'1260':2.3)'1258':2.1,(Leopardus\_pardalis:5.8,Leopardus\_wiedii:5.8)'1261\_Leopardus\*':0.7)'1257\_Felinae3\*':3.7)'1243':0.1,((((Felis\_margarita:4.3,Felis\_nigripes:4.3)'1267':0.1,Felis\_silvestris:4.4)'1266':0.1,(Felis\_bieti:2.0,Felis\_chaus:2.0)'1268':2.5)'1265\_Felis':0.1,Otocolobus\_manul:4.6)'1264':2.0,Caracal\_caracal:6.6)'1263':0.2,Leptailurus\_serval:6.8)'1262\_Felinae4\*':3.5)'1242':1.9,(((Prionailurus\_bengalensis:4.3,Prionailurus\_viverrinus:4.3)'1271':0.6,Prionailurus\_rubiginosus:4.9)'1270':0.1,Prionailurus\_planiceps:5.0)'1269\_Felinae5\*Prionailurus':7.2)'1241':0.1,(Herpailurus\_yaguarondi:7.6,Puma\_concolor:7.6)'1272\_Felinae6\*':4.7)'1240':0.2,Acinonyx\_jubatus:12.5)'1239\_Felidae':23.1,((Crocuta\_crocuta:24.1,Hyaena\_hyaena:24.1,Parahyaena\_brunnea:24.1)'1274\_Hyaeninae':0.2,Proteles\_cristatus:24.3)'1273\_Hyaenidae':11.3)'1238':1.0,((((((Helogale\_hirtula:6.3,Helogale\_parvula:6.3)'1285\_Helogale':2.5,(Mungos\_gambianus:3.8,Mungos\_mungo:3.8)'1286\_Mungos':5.0)'1284':0.2,(Crossarchus\_alexandri:5.1,Crossarchus\_ansorgei:5.1,Crossarchus\_obscurus:5.1)'1287\_Crossarchus':3.9)'1283':1.1,Ichneumia\_albicauda:10.1)'1282':0.2,Suricata\_suricatta:10.3)'1281':4.7,(Bdeogale\_crassicauda:6.5,Bdeogale\_jacksoni:6.5,Bdeogale\_nigripes:6.5)'1288\_Bdeogale':8.5,Liberiictis\_kuhni:15.0)'1280':0.2,(Cynictis\_penicillata:4.3,Paracynictis\_selousi:4.3)'1289':10.9)'1279':0.1,((Herpestes\_edwardsii:3.5,Herpestes\_javanicus:3.5)'1292':5.0,Herpestes\_brachyurus:8.5,Herpestes\_urva:8.5)'1291':6.6,Herpestes\_ichneumon:15.1,Herpestes\_naso:15.1,Herpestes\_palustris:15.1,Herpestes\_semitorquatus:15.1,Herpestes\_smithii:15.1,Herpestes\_vitticollis:15.1)'1290\_Herpestes\*':0.2,(Galerella\_flavescens:15.1,Galerella\_pulverulenta:15.1,Galerella\_sanguinea:15.1,Galerella\_swalius:15.1)'1293\_Galerella':0.2)'1278':8.0,Atilax\_paludinosus:23.3,Dologale\_dybowskii:23.3,Rhynchogale\_mellieri:23.3)'1277\_Herpestinae':9.3,((Galidictis\_fasciata:5.3,Galidictis\_grandidieri:5.3)'1295\_Galidictis':5.3,Galidia\_elegans:10.6,Mungotictis\_decemlineata:10.6,Salanoia\_concolor:10.6)'1294\_Galidiinae':22.0)'1276\_Herpestidae':0.2,(((((((Genetta\_abyssinica:3.2,Genetta\_thierryi:3.2)'1305':3.3,Genetta\_johnstoni:6.5)'1304':0.3,(Genetta\_angolensis:3.7,Genetta\_maculata:3.7)'1306':3.1)'1303':0.2,(Genetta\_genetta:5.8,Genetta\_tigrina:5.8)'1307':1.2)'1302':1.2,(Genetta\_servalina:7.7,Genetta\_v

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nsis:12.6)'1518\_Lonchorhina':11.9)'1517':1.9,((Macrotus\_californicus:7.0,Macrotus\_waterhousii:7.0)'1520\_Macrotus':16.2,(Micronycteris\_brachyotis:22.9,(Micronycteris\_megalotis:10.4,Micronycteris\_hirsuta:10.4,(Micronycteris\_minuta:0.9,Micronycteris\_schmidtorum:0.9)'1523':9.5)'1522':12.5,(Micronycteris\_nicefori:12.8,(Micronycteris\_pusilla:11.8,(Micronycteris\_daviesi:10.6,(Micronycteris\_behnii:6.3,Micronycteris\_sylvestris:6.3)'1527':4.3)'1526':1.2)'1525':1.0)'1524':10.1)'1521\_Micronycteris':0.3,(Trachops\_cirrhosus:20.1,(Chrotopterus\_auritus:12.7,Vampyrum\_spectrum:12.7)'1529':7.4,((Tonatia\_bidens:6.3,Tonatia\_brasiliense:6.3,Tonatia\_carrikeri:6.3,Tonatia\_evotis:6.3,Tonatia\_schulzi:6.3,Tonatia\_silvicola:6.3)'1531\_Tonatia':10.9,((Mimon\_bennettii:4.8,Mimon\_crenulatum:4.8)'1533\_Mimon':8.9,(Phylloderma\_stenops:13.1,(Phyllostomus\_latifolius:10.2,Phyllostomus\_discolor:10.2,(Phyllostomus\_elongatus:5.2,Phyllostomus\_hastatus:5.2)'1536':5.0)'1535\_Phyllostomus':2.9)'1534':0.6)'1532':3.5)'1530':2.9)'1528':3.1)'1519':3.2)'1516\_Phyllostominae':0.2,(((Brachyphylla\_cavernarum:5.1,Brachyphylla\_nana:5.1)'1540\_Brachyphyllinae\_Brachyphylla':13.2,(Erophylla\_sezeka rni:7.7,(Phyllonycteris\_aphylla:5.2,Phyllonycteris\_poeyi:5.2)'1542\_Phyllonyct eris':2.5)'1541\_Phyllonycterinae':10.6)'1539':2.3,((Platalina\_genovensem:15.9,(Lionycteris\_spurrelli:8.2,(Lonchophylla\_bokermanni:8.1,Lonchophylla\_dekeys eri:8.1,Lonchophylla\_handleyi:8.1,Lonchophylla\_hesperia:8.1,Lonchophylla\_mordax:8.1,Lonchophylla\_robusta:8.1,Lonchophylla\_thomasi:8.1)'1546\_Lonchophylla':0.1)'1545':7.7)'1544\_Lonchophyllinae':4.5,((Leptonycteris\_curasoae:4.0,Lepto nycteris\_nivalis:4.0)'1549\_Leptonycteris':9.4,((Monophyllus\_plethodon:7.0,Mon ophyllus\_redmani:7.0)'1551\_Monophyllus':6.2,(Glossophaga\_commissarisi:6.5,Glossophaga\_soricina:6.5,(Glossophaga\_leachii:5.3,Glossophaga\_longirostris:5.3,Glossophaga\_morenoi:5.3)'1553':1.2)'1552\_Glossophaga':6.7)'1550':0.2)'1548':4.7,((Anoura\_caudifera:7.8,Anoura\_cultrata:7.8,Anoura\_geoffroyi:7.8,Anoura\_lati dens:7.8)'1555\_Anoura':5.5,((Scleronycteris\_egaea:4.9,(Hylonycteris\_underwoodi:3.0,Lichonycteris\_obscura:3.0)'1558':1.9)'1557':0.2,((Choeronycteris\_mexicana:0.1,Musonycteris\_harrisoni:0.1)'1560':4.5,(Choeroniscus\_godmani:4.4,Choeroni scus\_intermedius:4.4,Choeroniscus\_minor:4.4,Choeroniscus\_periosus:4.4)'1561\_Choeroniscus':0.2)'1559':0.5)'1556':8.2)'1554':4.8)'1547\_Glossophaginae':2.3)'1543':0.2)'1538':3.4,((Rhinophylla\_alethina:11.7,Rhinophylla\_fischerae:11.7,Rhinophylla\_pumilio:11.7)'1564\_Rhinophylla':7.7,(Carollia\_castanea:5.6,Caroll ia\_brevicauda:5.6,Carollia\_perspicillata:5.6,Carollia\_subrufa:5.6)'1565\_Carolia':13.8)'1563\_Carollinae':0.2,((Sturnira\_bidens:11.5,Sturnira\_nana:11.5)'1568':2.5,((Sturnira\_aratathomasi:4.1,Sturnira\_lilium:4.1)'1570':0.2,(Sturnira\_ludovici:4.1,Sturnira\_luisi:4.1,Sturnira\_magna:4.1,Sturnira\_mordax:4.1,Sturnira\_thomasi:4.1,Sturnira\_tildae:4.1,Sturnira\_bogotensis:4.1,Sturnira\_erythromos:4.1)'1571':0.2)'1569':9.7)'1567\_Sturnira':0.2,((Pygoderma\_bilabiatum:4.5,Centurio\_senex:4.5,(Ametrida\_centurio:1.8,Sphaeronycteris\_toxophyllum:1.8)'1574':2.7,(Phylllops\_falcatus:4.3,Stenoderma\_rufum:4.3,(Ardops\_nicholssi:0.1,Arietus\_flavescens:0.1)'1576':4.2)'1575':0.2)'1573':7.0,((Artibeus\_hartii:11.2,(Artibeus\_aztecus:6.5,Artibeus\_phaeotis:6.5,Artibeus\_toltecus:6.5,(Artibeus\_cinereus:5.3,(Artibeus\_anderseni:4.7,Artibeus\_glaucus:4.7)'1582':0.6)'1581':1.2)'1580':0.2,(Artibeus\_concolor:6.1,(Artibeus\_fimbriatus:5.9,(Artibeus\_amplus:3.4,(Artibeus\_jamaicensis:2.4,Artibeus\_lituratus:2.4,Artibeus\_obscurus:2.4,Artibeus\_planirostris:2.4,(Artibeus\_fraterculus:2.3,(Artibeus\_hirsutus:2.1,Artibeus\_inopinatus:2.1)'1588':0.2)'1587':0.1)'1586':1.0)'1585':2.5)'1584':0.2)'1583':0.6)'1579':4.5)'1578\_Artibeus':0.1,(Ectophylla\_alba:9.7,(Chiroderma\_salvini:1.6,((Chiroderma\_improvisum:1.2,Chiroderma\_villosum:1.2)'1593':0.1)'1591':0.3)'1590\_Chiroderma':8.1,(Mesophylla\_macconnelli:9.5,((Vampyressa\_melissa:3.0,Vampyressa\_pusilla:3.0)'1596':5.1,(Vampyressa\_bidens:4.5,Vampyressa\_brocki:4.5,Vampyressa\_nymphaea:4.5)'1597':3.6)'1595\_Vampyressa':1.4)'1594':0.2,((Uroderma\_bilobatum:3.0,Uroderma\_magnirostrum:3.0)'1599\_Uroderma':6.5,(Vampyrodes\_caraccioli:7.3,(Platyrrhinus\_aurarius:7.1,Platyrrhinus\_brachycephalus:7.1,Platyrrhinus\_chocoensis:7.1,Platyrrhinus\_dorsalis:7.1,Platyrrhinus\_helleri:7.1,Platyrrhinus\_infuscus:7.1,Platyrrhinus\_lineatus:7.1,Platyrrhinus\_recifinus:7.1,Platyrrhinus\_umbtatus:7.1,Platyrrhinus\_vittatus:7.1)'1601\_Platyrrhinus':0.2)'1600':2.2)'1598':0.2)'1589':1.6)'1577':0.2)'1572':2.7)'1566\_Stenodermatinae':5.4)'1562':4.

4)'1537':2.6)'1515':0.8)'1512\_Phyllostomidae':10.9)'1505':6.7)'1503':4.8)'1502':7.9,((Tomopeas\_ravus:33.1,(((Cheiromeles\_torquatus:5.4,(Myopterus\_daubentoni:2.5,Myopterus\_whitleyi:2.5)'1607\_Myopterus':2.9)'1606':9.1,(Molossops\_aequatorianus:9.5,Molossops\_mattogrossensis:9.5,(Molossops\_neglectus:2.5,Molossops\_temminckii:2.5)'1609':7.0,(Molossops\_abrasus:4.0,Molossops\_greenhalli:4.0,Molossops\_planirostris:4.0)'1610':5.5)'1608\_Molossops':5.0)'1605':4.9,((Mormopterus\_setiger:7.1,(Mormopterus\_beccarii:5.0,Mormopterus\_norfolkensis:5.0,Mormopterus\_planiceps:5.0)'1613':2.1)'1612':7.4,(Mormopterus\_petrophilus:10.0,((Mormopterus\_kalinowskii:4.5,Mormopterus\_minutus:4.5,Mormopterus\_phrudus:4.5)'1616':3.7,(Mormopterus\_doriae:4.5,Mormopterus\_jugularis:4.5,Mormopterus\_acetabulosus:4.5)'1617':3.7)'1615':1.8)'1614':4.5)'1611\_Mormopterus':4.9,((Tadarida\_espiritosantensis:10.8,(Tadarida\_brasiliensis:9.0,(Tadarida\_australis:7.5,Tadarida\_aegyptiaca:7.5,(Tadarida\_fulminans:6.1,Tadarida\_lobata:6.1,Tadarida\_teniotis:6.1,Tadarida\_ventralis:6.1)'1622':1.4)'1621':1.5)'1620':1.8)'1619\_Tadarida':8.5,((Nyctinomops\_aurispinosus:6.0,Nyctinomops\_femorosaccus:6.0,Nyctinomops\_laticaudatus:6.0,Nyctinomops\_macrotis:6.0)'1624\_Nyctinomops':13.2,(((Otomops\_formosus:9.4,Otomops\_martiensseni:9.4,Otomops\_papuensis:9.4,Otomops\_secundus:9.4,Otomops\_wroughtoni:9.4)'1627\_Otomops':9.5,(((Promops\_centralis:5.1,Promops\_nasutus:5.1)'1630\_Promops':10.5,(Molossus\_sinaloae:14.5,(Molossus\_bondae:14.3,Molossus\_molossus:14.3,(Molossus\_ater:6.3,Molossus\_pretiosus:6.3)'1633':8.0)'1632':0.2)'1631\_Molossus':1.1)'1629':3.2,(Eumops\_hansae:4.9,Eumops\_perotis:4.9)'1635':9.3,(Eumops\_dabbenei:12.7,(Eumops\_bonariensis:12.0,(Eumops\_maurotus:10.8,(Eumops\_glaucinus:9.0,(Eumops\_auripendulus:5.7,Eumops\_underwoodi:5.7)'1640':3.3)'1639':1.8)'1638':1.2)'1637':0.7)'1636':1.5)'1634\_Eumops':4.6)'1628':0.1)'1626':0.2,((Chaerephon\_ansorgei:3.7,Chaerephon\_bemmeleni:3.7,Chaerephon\_bivittata:3.7)'1643':3.0,(Chaerephon\_aloysiisabaudiae:6.6,Chaerephon\_chapini:6.6,Chaerephon\_gallagheri:6.6,Chaerephon\_jobensis:6.6,Chaerephon\_johorensis:6.6,Chaerephon\_major:6.6,Chaerephon\_nigeriae:6.6,Chaerephon\_plicata:6.6,Chaerephon\_pumila:6.6,Chaerephon\_russata:6.6)'1644':0.1)'1642\_Chaerephon':0.1,((Mops\_brachypterus:5.4,Mops\_nanulus:5.4,Mops\_petersoni:5.4,Mops\_spurrelli:5.4,Mops\_thersites:5.4)'1646':1.2,(Mops\_conicus:6.5,Mops\_condylurus:6.5,Mops\_midas:6.5,Mops\_mops:6.5,Mops\_niangarae:6.5,Mops\_sarasinorum:6.5,Mops\_trevori:6.5,(Mops\_demonstrator:2.0,Mops\_niveiventer:2.0)'1648':4.5)'1647':0.1)'1645\_Mops':0.2)'1641':12.3)'1625':0.1)'1623':0.1)'1618':0.1)'1604\_Molossidae':13.7)'1603':17.7,((Miniopterus\_schreibersi:11.6,(Miniopterus\_robustior:5.2,Miniopterus\_tristis:5.2)'1651':6.4,(Miniopterus\_inflatus:5.2,Miniopterus\_magnater:5.2)'1652':6.4,(Miniopterus\_fraterculus:5.2,Miniopterus\_fuscus:5.2)'1653':6.4,(Miniopterus\_australis:5.3,Miniopterus\_minor:5.3,Miniopterus\_pusillus:5.3)'1654':6.3)'1650\_Miniopterinae\_Miniopterus':36.5,(Eudiscopus\_denticulus:21.9,Hesperoptenus\_doriae:21.9,Ia\_io:21.9,Lasionycteris\_noctivagans:21.9,Mimetillus\_moloneyi:21.9,Nycticeius\_humeralis:21.9,Nycticeius\_rueppellii:21.9,Otonycteris\_hemprichii:21.9,Philetor\_brachypterus:21.9,Pipistrellus\_dormeri:21.9,Pipistrellus\_subflavus:21.9,(Antrozous\_dubiaquercus:7.6,Antrozous\_pallidus:7.6)'1656\_Vespertilioninae1\*\_Antrozous':14.3,(Glischropus\_javanus:4.9,Glischropus\_tylopus:4.9)'1657\_Vespertilioninae2\*\_Glischropus':17.0,(Pipistrellus\_anchietai:4.9,Pipistrellus\_eisentrauti:4.9)'1658\_Vespertilioninae3\*\_Pipistrellus1\*:17.0,(Pipistrellus\_hesperus:4.9,Pipistrellus\_musciculus:4.9)'1659\_Vespertilioninae4\*\_Pipistrellus2\*:17.0,(Tylonycteris\_pachypus:4.9,Tylonycteris\_robustula:4.9)'1660\_Vespertilioninae5\*\_Tylonycteris':17.0,(Vespertilio\_murinus:6.8,Vespetilio\_superans:6.8)'1661\_Vespertilioninae6\*\_Vespertilio':15.1,(Pipistrellus\_anthonyi:7.8,Pipistrellus\_joffrei:7.8,Pipistrellus\_stenopterus:7.8)'1662\_Vespertilioninae7\*\_Pipistrellus3\*:14.1,(Pipistrellus\_crassulus:7.8,Pipistrellus\_nanulus:7.8,Pipistrellus\_rueppelli:7.8)'1663\_Vespertilioninae8\*\_Pipistrellus4\*:14.1,(Pipistrellus\_circumdatus:7.8,Pipistrellus\_cuprosus:7.8,Pipistrellus\_societatis:7.8)'1664\_Vespertilioninae9\*\_Pipistrellus5\*:14.1,(Scotoecus\_pallidus:7.8,(Scotoecus\_albofuscus:4.6,Scotoecus\_hirundo:4.6)'1666':3.2)'1665\_Vespertilioninae10\*\_Scotoecus':14.1,(Pipistrellus\_imbricatus:7.8,(Pipistrellus\_arabicus:4.6,Pipistrellus\_nanus:4.6)'1668':3.2)'1667\_Vespertilioninae11\*\_Pipistrellus6\*:14.1,(Pipistrellus\_pulveratus:7.8,(Pipistrellus\_kitcheneri:4.6,Pipistrellus\_lophurus:4.6)'1670':3.2)'1669\_Vespertilioninae12\*\_Pipistrellus7\*:14

.1,(*Hesperoptenus\_blanfordi*:9.8,*Hesperoptenus\_gaskellii*:9.8,*Hesperoptenus\_tickelli*:9.8,*Hesperoptenus\_tomesi*:9.8)'1671\_Vespertilioninae13\*' *Hesperoptenus*'':1  
2.1,(*Histiotus\_alienus*:9.8,*Histiotus\_macrotus*:9.8,*Histiotus\_montanus*:9.8,*Histiotus\_velatus*:9.8)'1672\_Vespertilioninae14\*' *Histiotus*'':12.1,(*Laephotis\_angolensis*:9.8,*Laephotis\_botswanae*:9.8,*Laephotis\_namibensis*:9.8,*Laephotis\_wintoni*:9.8)'1673\_Vespertilioninae15\*' *Laephotis*'':12.1,(*Pipistrellus\_tasmaniensis*:9.8,(*Pipistrellus\_affinis*:7.3,*Pipistrellus\_mordax*:7.3,*Pipistrellus\_petersi*:7.3)'1675':2.5)'1674\_Vespertilioninae16\*' *Pipistrellus*8\*'':12.1,(*Nycticeius\_schlieffeni*:9.8,(*Nycticeius\_balstoni*:7.3,(*Nycticeius\_greyii*:4.2,*Nycticeius\_sanborni*:4.2)'1678':3.1)'1677':2.5)'1676\_Vespertilioninae17\*' *Nycticeius*'':12.1,(*Pipistrellus\_cadornae*:11.4,*Pipistrellus\_macrotis*:11.4,(*Pipistrellus\_ariel*:7.3,*Pipistrellus\_bodenheimeri*:7.3,*Pipistrellus\_savii*:7.3)'1680':4.1)'1679\_Vespertilioninae18\*' *Pipistrellus*9\*'':10.5,(*Eptesicus\_baverstocki*:8.8,*Eptesicus\_douglasorum*:8.8,*Eptesicus\_pumilus*:8.8,*Eptesicus\_sagittula*:8.8,*Eptesicus\_regulus*:8.8,*Eptesicus\_vulturnus*:8.8)'1681\_Vespertilioninae19\*' *Eptesicus*1\*'':13.1,(*Nyctalus\_azoreum*:2.7,*Nyctalus\_aviator*:2.7,*Nyctalus\_lasiopterus*:2.7,*Nyctalus\_leisleri*:2.7,*Nyctalus\_montanus*:2.7,*Nyctalus\_noctula*:2.7)'1682\_Vespertilioninae20\*' *Nyctalus*'':19.2,(*Chalinolobus\_tuberculatus*:8.3,(*Chalinolobus\_dwyeri*:8.1,*Chalinolobus\_gouldi*:8.1,*Chalinolobus\_morio*:8.1,*Chalinolobus\_nigrogriseus*:8.1,*Chalinolobus\_picatus*:8.1)'1684':0.2)'1683\_Vespertilioninae21\*' *Chalinolobus*1\*'':13.6,(*Rhogeessa\_alleni*:7.0,(*Rhogeessa\_mira*:3.2,(*Rhogeessa\_gracilis*:3.0,(*Rhogeessa\_genowaysi*:2.4,*Rhogeessa\_minutilla*:2.4,*Rhogeessa\_parvula*:2.4,*Rhogeessa\_tumida*:2.4)'1688':0.6)'1687':0.2)'1686':3.8)'1685\_Vespertilioninae22\*' *Rhogeessa*'':14.9,(*Lasiurus\_egregius*:5.1,(*Lasiurus\_ega*:3.7,*Lasiurus\_intermedius*:3.7)'1690':1.4,(*Lasiurus\_cinereus*:4.3,*Lasiurus\_castaneus*:4.3,(*Lasiurus\_borealis*:0.1,*Lasiurus\_seminolus*:0.1)'1692':4.2)'1691':0.8)'1689\_Vespertilioninae23\*' *Lasiurus*'':16.8,((*Eptesicus\_flavescens*:7.0,*Eptesicus\_rendalli*:7.0,*Eptesicus\_tenuipinnis*:7.0)'1694':0.2,(*Eptesicus\_brunneus*:7.0,*Eptesicus\_capensis*:7.0,*Eptesicus\_guineensis*:7.0,*Eptesicus\_melckorum*:7.0,*Eptesicus\_somalicus*:7.0)'1695':0.2)'1693\_Vespertilioninae24\*' *Eptesicus*2\*'':14.7,(*Chalinolobus\_alboguttatus*:4.2,*Chalinolobus\_argentatus*:4.2,*Chalinolobus\_beatrix*:4.2,*Chalinolobus\_egeria*:4.2,*Chalinolobus\_gleni*:4.2,*Chalinolobus\_kenyacula*:4.2,*Chalinolobus\_poensis*:4.2,*Chalinolobus\_superbus*:4.2,*Chalinolobus\_variegatus*:4.2)'1696\_Vespertilioninae25\*' *Chalinolobus*2\*'':17.7,(*Pharotis\_imogene*:12.8,(*Nyctophilus\_arnhemensis*:4.2,*Nyctophilus\_geoffroyi*:4.2,*Nyctophilus\_gouldi*:4.2,*Nyctophilus\_heran*:4.2,*Nyctophilus\_microdon*:4.2,*Nyctophilus\_microtis*:4.2,*Nyctophilus\_timoriensis*:4.2,*Nyctophilus\_walkeri*:4.2)'1698\_Nyctophilus':8.6)'1697\_Vespertilioninae26\*'':9.1,((*Barbastella\_barbastellus*:8.0,*Barbastella\_leucomelas*:8.0)'1700\_Barbastella':9.2,((*Euderma\_maculatum*:13.5,*Idionycteris\_phyllotis*:13.5)'1702':3.5,((*Plecotus\_rafinesquii*:5.9,(*Plecotus\_mexicanus*:1.7,*Plecotus\_townsendii*:1.7)'1705':4.2)'1704':9.7,((*Plecotus\_austriaeus*:5.1,*Plecotus\_teneriffae*:5.1)'1707':5.2,(*Plecotus\_auritus*:5.1,*Plecotus\_taiwanus*:5.1)'1708':5.2)'1706':5.3)'1703\_Plecotus':1.4)'1701':0.2)'1699\_Vespertilioninae27\*'':4.7,((*Scotomanes\_emarginatus*:4.8,*Scotomanes\_ornatus*:4.8)'1710\_Scotomanes':13.3,(*Scotophilus\_kuhlii*:4.2,*Scotophilus\_nigrita*:4.2,(*Scotophilus\_borbonicus*:3.4,*Scotophilus\_viridis*:3.4)'1712':0.8,(*Scotophilus\_celebensis*:3.4,*Scotophilus\_heathi*:3.4)'1713':0.8,(*Scotophilus\_leucogaster*:4.0,(*Scotophilus\_dinganii*:3.7,*Scotophilus\_nux*:3.7,*Scotophilus\_robustus*:3.7)'1715':0.3)'1714':0.2)'1711\_Scotophilus':13.9)'1709\_Vespertilioninae28\*'':3.8,((*Pipistrellus\_minassae*:4.3,*Pipistrellus\_ceylonicus*:4.3)'1717':11.8,(*Pipistrellus\_aegyptius*:11.2,*Pipistrellus\_aero*:11.2,*Pipistrellus\_inexspectatus*:11.2,*Pipistrellus\_kuhlii*:11.2,*Pipistrellus\_maderensis*:11.2,*Pipistrellus\_rusticus*:11.2)'1718':4.9,((*Pipistrellus\_nathusii*:11.0,*Pipistrellus\_permixtus*:11.0,*Pipistrellus\_pipistrellus*:11.0)'1720':1.1,((*Pipistrellus\_coromandra*:6.6,*Pipistrellus\_mimus*:6.6,*Pipistrellus\_tenuis*:6.6)'1722':0.2,(*Pipistrellus\_babu*:6.6,*Pipistrellus\_endoi*:6.6,*Pipistrellus\_javanicus*:6.6,*Pipistrellus\_paterculus*:6.6,*Pipistrellus\_peguensis*:6.6)'1723':0.2)'1721':5.3)'1719':4.0)'1716\_Vespertilioninae29\*' *Pipistrellus*10\*'':5.8,(*Eptesicus\_floweri*:16.3,(*Eptesicus\_nasutus*:4.7,(*Eptesicus\_bobrinskoi*:2.7,*Eptesicus\_nilsoni*:2.7)'1726':2.0,((*Eptesicus\_diminutus*:1.8,*Eptesicus\_innoxius*:1.8)'1728':2.7,*Eptesicus\_brasiliensis*:4.5,*Eptesicus\_bottae*:4.5,*Eptesicus\_demissus*:4.5,*Eptesicus\_furinalis*:4.5,*Eptesicus\_fuscus*:4.5,*Eptesicus\_guadeloupe*

nsis:4.5, *Eptesicus\_hottentotus*:4.5, *Eptesicus\_kobayashii*:4.5, *Eptesicus\_pachyotis*:4.5, *Eptesicus\_platyops*:4.5, *Eptesicus\_serotinus*:4.5, *Eptesicus\_tatei*:4.5) '1727':0.2) '1725':11.6) '1724\_Vespertilioninae30\*' *Eptesicus3\**:5.6, ((*Harpiocephalus\_harpia*:10.5, (*Murina\_grisea*:10.3, ((*Murina\_aenea*:5.9, *Murina\_cyclotis*:5.9, *Murina\_huttoni*:5.9, *Murina puta*:5.9, *Murina\_rozendaali*:5.9) '1733':4.3, (*Murina\_aura*:7.5, *Murina\_florium*:7.5, *Murina\_silvatica*:7.5, *Murina\_suilla*:7.5, *Murina\_tenebrosa*:7.5, *Murina\_tubinaris*:7.5, *Murina\_ussuriensis*:7.5, (*Murina\_fusca*:2.5, *Murina\_leucogaster*:2.5) '1735':5.0) '1734':2.7) '1732':0.1) '1731\_Murina':0.2) '1730\_Murininae':2.3, ((*Kerivoula\_aerosa*:6.8, *Kerivoula\_atrox*:6.8, *Kerivoula\_jagorii*:6.8, *Kerivoula\_papuensis*:6.8) '1737':5.8, (*Kerivoula\_agrella*:5.8, *Kerivoula\_argentata*:5.8, *Kerivoula\_cuprosa*:5.8, *Kerivoula\_eriophora*:5.8, *Kerivoula\_flora*:5.8, *Kerivoula\_hardwickei*:5.8, *Kerivoula\_intermedia*:5.8, *Kerivoula\_lanosa*:5.8, *Kerivoula\_minuta*:5.8, *Kerivoula\_muscina*:5.8, *Kerivoula\_myrella*:5.8, *Kerivoula\_papillosa*:5.8, *Kerivoula\_pellucida*:5.8, *Kerivoula\_phalaena*:5.8, *Kerivoula\_picta*:5.8, *Kerivoula\_smithii*:5.8, *Kerivoula\_whiteheadi*:5.8) '1738':6.8) '1736\_Kerivoulinae\_Kerivoula':0.2) '1729':9.1, (*Myotis\_abei*:8.9, *Myotis\_aelleni*:8.9, *Myotis\_albescens*:8.9, *Myotis\_austroriparius*:8.9, *Myotis\_chiloensis*:8.9, *Myotis\_cobanensis*:8.9, *Myotis\_dasycneme*:8.9, *Myotis\_fortidens*:8.9, *Myotis\_grisescens*:8.9, *Myotis\_levis*:8.9, *Myotis\_lucifugus*:8.9, *Myotis\_montivagus*:8.9, *Myotis\_oxyotus*:8.9, *Myotis\_peninsularis*:8.9, *Myotis\_ricketti*:8.9, *Myotis\_velifer*:8.9, *Myotis\_volans*:8.9, *Myotis\_yumanensis*:8.9, (*Myotis\_lesueuri*:1.0, *Myotis\_seabrai*:1.0) '1740':7.9, (*Myotis\_macrotarsus*:8.7, *Myotis\_stalker*:8.7, *Myotis\_vivesi*:8.7) '1741':0.2, (*Myotis\_riparius*:3.5, (*Myotis\_simus*:2.8, *Myotis\_ruber*:2.8) '1743':0.7) '1742':5.4, (*Myotis\_adversus*:6.1, *Myotis\_bocagei*:6.1, *Myotis\_hasseltii*:6.1, *Myotis\_horsfieldii*:6.1) '1744':2.8, (*Myotis\_capaccinii*:4.9, *Myotis\_daubentonii*:4.9, *Myotis\_longipes*:4.9, *Myotis\_macroactylus*:4.9, *Myotis\_pruinosus*:4.9) '1745':4.0, ((*Myotis\_formosus*:3.5, *Myotis\_welwitschi*:3.5) '1747':4.2, (*Myotis\_emarginatus*:4.3, *Myotis\_goudoti*:4.3, *Myotis\_morrisi*:4.3, *Myotis\_tricolor*:4.3) '1748':3.4, (*Myotis\_blythii*:3.1, *Myotis\_chinensis*:3.1, *Myotis\_myotis*:3.1, *Myotis\_sicarius*:3.1) '1749':4.6, (*Myotis\_bechsteinii*:7.5, (*Myotis\_auriculus*:5.1, *Myotis\_evotis*:5.1, *Myotis\_keenii*:5.1, *Myotis\_milleri*:5.1) '1751':2.4) '1750':0.2, (*Myotis\_pequinius*:6.7, (*Myotis\_bombinus*:6.5, *Myotis\_nattereri*:6.5, *Myotis\_schaubi*:6.5, *Myotis\_thysanodes*:6.5) '1753':0.2) '1752':1.0) '1746':1.2, (*Myotis\_siligorensis*:8.8, *Myotis\_scotti*:8.8, (*Myotis\_oreias*:2.7, *Myotis\_altarium*:2.7) '1755':6.1, (*Myotis\_californicus*:0.1, *Myotis\_leibii*:0.1, *Myotis\_planiceps*:0.1) '1756':8.7, ((*Myotis\_brandti*:8.0, *Myotis\_insularum*:8.0, *Myotis\_mystacinus*:8.0) '1758':0.6, *Myotis\_frater*:8.6) '1757':0.2, (*Myotis\_annectans*:4.0, *Myotis\_australis*:4.0, *Myotis\_hosonoi*:4.0, *Myotis\_ikonnikovi*:4.0, *Myotis\_muricola*:4.0, *Myotis\_ozensis*:4.0, *Myotis\_ridleyi*:4.0, *Myotis\_rosseti*:4.0, *Myotis\_yesoensis*:4.0) '1759':4.8, (*Myotis\_atacamensis*:7.8, *Myotis\_dominicensis*:7.8, *Myotis\_elegans*:7.8, *Myotis\_findleyi*:7.8, *Myotis\_keaysi*:7.8, *Myotis\_martiniquensis*:7.8, *Myotis\_nesopolus*:7.8, *Myotis\_nigricans*:7.8, *Myotis\_sodalis*:7.8) '1760':1.0) '1754':0.1) '1739\_Vespertilioninae31\*' *Myotis*:13.0) '1655':26.2) '1649\_Vespertilionidae\*':2.7) '1602':6.9) '1494':9.5) '1409':0.8) '1332\_Chiroptera':15.2) '929':1.8, (((*Uropsilus\_andersoni*:17.2, *Uropsilus\_gracilis*:17.2, *Uropsilus\_investigator*:17.2, *Uropsilus\_soricipes*:17.2) '1764\_Uropsilinae\_Uropsilus':26.4, ((*Scaptonyx\_fusicaudus*:35.4, ((*Parascaptor\_leucura*:28.3, (*Talpa\_altaica*:25.2, *Talpa\_streeti*:25.2, *Talpa\_stankovici*:25.2, *Talpa\_romana*:25.2, *Talpa\_occidentalis*:25.2, *Talpa\_europaea*:25.2, *Talpa\_caucasicus*:25.2, *Talpa\_caeca*:25.2, *Talpa\_levantis*:25.2, ((*Mogera\_wogura*:17.7, *Mogera\_tokudae*:17.7, *Mogera\_robusta*:17.7, *Mogera\_insularis*:17.7, *Mogera\_etigo*:17.7, *Mogera\_kobeae*:17.7, *Mogera\_minor*:17.7) '1772\_Mogera':7.3, (*Euroscaptor\_grandis*:16.3, *Euroscaptor\_mizura*:16.3, *Euroscaptor\_parvidens*:16.3, *Euroscaptor\_micrura*:16.3, *Euroscaptor\_longirostris*:16.3, *Euroscaptor\_klossi*:16.3) '1773\_Euroscaptor':8.7) '1771':0.2) '1770':3.1) '1769':4.6, (*Scaptocochirus\_moschatus*:6.8, *Nesoscaptor\_uchidai*:6.8) '1774':26.1) '1768':2.5) '1767':0.3, (*Condylura\_cristata*:35.6, ((*Scapanulus\_oweni*:25.7, (*Parascalops\_breweri*:25.2, (*Scalopus\_aquaticus*:25.0, (*Scapanus\_latimanus*:17.9, (*Scapanus\_townsendii*:10.7, *Scapanus\_orarius*:10.7) '1781':7.2) '1780\_Scapanus':7.1) '1779':0.2) '1778':0.5) '1777':9.7, (*Neurotrichus\_gibbsii*:35.3, (*Urotrichus\_pilirostris*:14.9, *Urotrichus\_talpooides*:14.9) '1783\_Urotrichus':20.4) '1782':0.1) '1776':0.2) '1775':0.1) '1766\_Talpinae':0.1, (*Desmana\_moschata*:7.8, *Galemys\_pyrenaicus*:7.8) '1784\_Desmaninae':28.0) '1765':7.8) '1763\_Talpidae':34.9, (((*Ech*

inosorex\_gymnura:17.2, (Podogymnura\_aureospinula:11.8, Podogymnura\_truei:11.8)'1789\_Podogymnura':5.4)'1788':18.7, (Hylomys\_suillus:18.7, (Hylomys\_sinensis:12.2, Hylomys\_hainanensis:12.2)'1791':6.5)'1790\_Hylomys':17.2)'1787\_Hylomyinae':21.7, (((Hemiechinus\_hypomelas:12.1, (Hemiechinus\_aethiopicus:7.1, Hemiechinus\_micropus:7.1)'1795':5.0)'1794':0.7, (Hemiechinus\_auritus:7.6, Hemiechinus\_collaris:7.6)'1796':5.2)'1793\_Hemiechinus':0.3, (Mesechinus\_dauuricus:8.0, Mesechinus\_hughi:8.0)'1797\_Mesechinus':5.1, ((Erinaceus\_concolor:2.9, (Erinaceus\_amurensis:2.7, Erinaceus\_europaeus:2.7)'1800':0.2)'1799\_Erinaceus':10.0, (Atelerix\_frontalis:12.8, (Atelerix\_algirus:9.3, (Atelerix\_albiventris:5.1, Atelerix\_sclateri:5.1)'1803':4.2)'1802':3.5)'1801\_Atelerix':0.1)'1798':0.2)'1792\_Erinaceinae':44.5)'1786\_Erinaceidae':15.5, (((Crocidura\_aleksandrisi:8.0, Crocidura\_alle:8.0, Crocidura\_andamanensis:8.0, Crocidura\_ansellorum:8.0, Crocidura\_arabica:8.0, Crocidura\_armenica:8.0, Crocidura\_attenuata:8.0, Crocidura\_attila:8.0, Crocidura\_bailleyi:8.0, Crocidura\_batesi:8.0, Crocidura\_beatus:8.0, Crocidura\_beccarii:8.0, Crocidura\_bottegi:8.0, Crocidura\_bottegoioides:8.0, Crocidura\_buettikoferi:8.0, Crocidura\_caliginea:8.0, Crocidura\_canariensis:8.0, Crocidura\_cinderella:8.0, Crocidura\_congobelgica:8.0, Crocidura\_cossyrensis:8.0, Crocidura\_crenata:8.0, Crocidura\_crossei:8.0, Crocidura\_cyanea:8.0, Crocidura\_denti:8.0, Crocidura\_desperata:8.0, Crocidura\_dhofarensis:8.0, Crocidura\_dolichura:8.0, Crocidura\_douceti:8.0, Crocidura\_dsinezumi:8.0, Crocidura\_eisentrauti:8.0, Crocidura\_elgonius:8.0, Crocidura\_elongata:8.0, Crocidura\_erica:8.0, Crocidura\_fischeri:8.0, Crocidura\_flavescentis:8.0, Crocidura\_floweri:8.0, Crocidura\_foxi:8.0, Crocidura\_fuliginosa:8.0, Crocidura\_fulvastra:8.0, Crocidura\_fumosa:8.0, Crocidura\_fuscomurina:8.0, Crocidura\_glassi:8.0, Crocidura\_goliath:8.0, Crocidura\_gracilipes:8.0, Crocidura\_grandiceps:8.0, Crocidura\_grandis:8.0, Crocidura\_grassei:8.0, Crocidura\_grayi:8.0, Crocidura\_greenwoodi:8.0, Crocidura\_gueldenstaedtii:8.0, Crocidura\_harennia:8.0, Crocidura\_hildegardeae:8.0, Crocidura\_hirta:8.0, Crocidura\_hispida:8.0, Crocidura\_horsfieldii:8.0, Crocidura\_jacksoni:8.0, Crocidura\_jenkinsi:8.0, Crocidura\_kivuana:8.0, Crocidura\_lamottei:8.0, Crocidura\_lanosa:8.0, Crocidura\_lasiura:8.0, Crocidura\_latona:8.0, Crocidura\_lea:8.0, Crocidura\_leucodon:8.0, Crocidura\_levicula:8.0, Crocidura\_littoralis:8.0, Crocidura\_longipes:8.0, Crocidura\_lucina:8.0, Crocidura\_ludia:8.0, Crocidura\_luna:8.0, Crocidura\_lusitania:8.0, Crocidura\_macarthuri:8.0, Crocidura\_macmillani:8.0, Crocidura\_macowi:8.0, Crocidura\_malayana:8.0, Crocidura\_manengubae:8.0, Crocidura\_maquassiensis:8.0, Crocidura\_mariquensis:8.0, Crocidura\_maurisca:8.0, Crocidura\_maxi:8.0, Crocidura\_mindorus:8.0, Crocidura\_minuta:8.0, Crocidura\_miya:8.0, Crocidura\_monax:8.0, Crocidura\_monticola:8.0, Crocidura\_montis:8.0, Crocidura\_muricauda:8.0, Crocidura\_mutuae:8.0, Crocidura\_nana:8.0, Crocidura\_nanilla:8.0, Crocidura\_neglecta:8.0, Crocidura\_negrina:8.0, Crocidura\_nicobarica:8.0, Crocidura\_nigeriae:8.0, Crocidura\_nigricans:8.0, Crocidura\_nigripes:8.0, Crocidura\_nigrofusca:8.0, Crocidura\_nimbae:8.0, Crocidura\_niobe:8.0, Crocidura\_obscurior:8.0, Crocidura.olivieri:8.0, Crocidura ори:8.0, Crocidura.osorio:8.0, Crocidura.palawanensis:8.0, Crocidura.paradoxa:8.0, Crocidura.parvipes:8.0, Crocidura.pasha:8.0, Crocidura.pergrisea:8.0, Crocidura.phaeura:8.0, Crocidura.picea:8.0, Crocidura.pitmani:8.0, Crocidura.planiceps:8.0, Crocidura.poensis:8.0, Crocidura.polia:8.0, Crocidura.pullata:8.0, Crocidura.raineyi:8.0, Crocidura.religiosa:8.0, Crocidura.rhoditis:8.0, Crocidura.roosevelti:8.0, Crocidura.russula:8.0, Crocidura.selina:8.0, Crocidura.serezkyensis:8.0, Crocidura.sibirica:8.0, Crocidura.sicula:8.0, Crocidura.silacea:8.0, Crocidura.smithii:8.0, Crocidura.somalica:8.0, Crocidura.stenocephala:8.0, Crocidura.suaveolens:8.0, Crocidura.usiana:8.0, Crocidura.tansaniana:8.0, Crocidura.tarella:8.0, Crocidura.tarfayensis:8.0, Crocidura.telfordi:8.0, Crocidura.tenuis:8.0, Crocidura.thalia:8.0, Crocidura.theresae:8.0, Crocidura.thomensis:8.0, Crocidura.turba:8.0, Crocidura.ultima:8.0, Crocidura.usambarae:8.0, Crocidura.viaria:8.0, Crocidura.voi:8.0, Crocidura.whitakeri:8.0, Crocidura.wimmeri:8.0, Crocidura.xantippe:8.0, Crocidura.yankariensis:8.0, Crocidura.zaphiri:8.0, Crocidura.zarudnyi:8.0, Crocidura.zimmeri:8.0, Crocidura.zimmermanni:8.0)'1806\_Crocidura':6.6, Diplomesodon\_pulchellum:14.6, Feroculus\_ferculus:14.6, (Myosorex\_babaulti:14.4, Myosorex.blarina:14.4, Myosorex.cafer:14.4, Myosorex.eisentrauti:14.4, Myosorex.geata:14.4, Myosorex.longicaudatus:14.4, Myosorex.okuensis:14.4, Myosorex.rumpii:14.4, Myosorex.schalleri:14.4, Myosorex.sclateri:14.4, Myosorex.tenuis:14.4, Myosorex.varius:14.4)'1807\_Myos

orex':0.2,(Paracrocidura\_graueri:4.2,Paracrocidura\_maxima:4.2,Paracrocidura\_schoutedeni:4.2)'1808\_Paracrocidura':10.4,Ruwenzorisorex\_suncoides:14.6,Scutisorex\_somerreni:14.6,Solisorex\_pearsoni:14.6,(Suncus\_ater:14.4,Suncus\_dayi:14.4,Suncus\_etruscus:14.4,Suncus\_fellowesgordoni:14.4,Suncus\_hosei:14.4,Suncus\_infinitesimus:14.4,Suncus\_lixus:14.4,Suncus\_madagascariensis:14.4,Suncus\_malayanus:14.4,Suncus\_mertensi:14.4,Suncus\_montanus:14.4,Suncus\_murinus:14.4,Suncus\_remyi:14.4,Suncus\_stoliczkanus:14.4,Suncus\_varilla:14.4,Suncus\_zeylanicus:14.4)'1809\_Suncus':0.2,(Surdisorex\_norae:5.3,Surdisorex\_polulus:5.3)'1810\_Surdisorex':9.3,(Sylvisorex\_granti:14.4,Sylvisorex\_howelli:14.4,Sylvisorex\_isabellae:14.4,Sylvisorex\_johnstoni:14.4,Sylvisorex\_lunaris:14.4,Sylvisorex\_megalura:14.4,Sylvisorex\_morio:14.4,Sylvisorex\_ollula:14.4,Sylvisorex\_oriundus:14.4,Sylvisorex\_vulcanorum:14.4)'1811\_Sylvisorex':0.2,Congosorex\_polli:14.6)'1805\_Crocidurinae':23.7,(((Sorex\_alpinus:15.4,((Sorex\_raddei:12.3,Sorex\_mirabilis:12.3,Sorex\_excelsus:12.3,(Sorex\_samniticus:12.1,(Sorex\_arcticus:9.5,((Sorex\_coronatus:5.4,(Sorex\_araneus:3.5,Sorex\_granarius:3.5)'1825':1.9)'1824':1.2,(Sorex\_satunini:3.1,Sorex\_daphaenodon:3.1)'1826':3.5)'1823':1.7,(Sorex\_tundrensis:3.2,Sorex\_asper:3.2)'1827':5.1)'1822':1.2)'1821':2.6)'1820':0.2,((Sorex\_isodon:6.3,Sorex\_unguiculatus:6.3)'1829':5.8,(Sorex\_roboratus:10.3,(Sorex\_caeutiens:10.2,Sorex\_shinto:10.2,Sorex\_sadonis:10.2)'1831':0.1)'1830':1.8)'1828':0.2)'1819':2.9,(Sorex\_minutissimus:9.8,Sorex\_hosonoi:9.8,(Sorex\_gracillimus:9.7,(Sorex\_minutus:9.5,Sorex.volnuchini:9.5,Sorex\_bucharensis:9.5)'1834':0.2)'1833':0.1)'1832':5.4)'1818':0.2)'1817':0.1,(Sorex\_cinereus:6.7,Sorex\_hoyi:6.7,Sorex\_fumeus:6.7,Sorex\_preblei:6.7,Sorex\_longirostris:6.7,Sorex\_ornatus:6.7,Sorex\_nanus:6.7,Sorex\_leucogaster:6.7,Sorex\_ugyunak:6.7,Sorex\_haydeni:6.7,Sorex\_dispar:6.7,Sorex\_tenellus:6.7,Sorex\_bairdii:6.7,Sorex\_portenkoi:6.7,Sorex\_jacksoni:6.7,(Sorex\_palustris:3.3,Sorex\_bendirii:3.3)'1836':3.4,(Sorex\_monticolus:0.1,Sorex\_vagrans:0.1,Sorex\_pacificus:0.1)'1837':6.6)'1835':8.8)'1816':12.0,(Sorex\_trowbridgii:7.5,Sorex\_arizonae:7.5,Sorex\_merriami:7.5)'1838':20.0)'1815\_Sorex':0.2,(Blarinella\_wardi:4.8,Blarinella\_quadratica:4.8)'1839\_Blarinella':22.9)'1814':0.2,((Blarina\_hylophaga:13.6,(Blarina\_carolinensis:12.1,Blarina\_brevicauda:12.1)'1842':1.5)'1841\_Blarina':10.0,(Cryptotis\_goodwini:19.4,Cryptotis\_magna:19.4,Cryptotis\_meridensis:19.4,Cryptotis\_nigrescens:19.4,Cryptotis\_parva:19.4,Cryptotis\_thomasi:19.4,(Cryptotis\_gracilis:4.9,Cryptotis\_endersi:4.9)'1844':14.5,(Cryptotis\_hondurensis:4.9,Cryptotis\_avia:4.9)'1845':14.5,(Cryptotis\_mexicana:4.9,Cryptotis\_goldmani:4.9)'1846':14.5,(Cryptotis\_squamipes:4.9,Cryptotis\_montivaga:4.9)'1847':14.5)'1843\_Cryptotis':4.2)'1840':4.3)'1813':2.3,(Anourosorex\_squamipes:30.0,(Nectogale\_elegans:29.9,(Neomys\_anomalus:9.8,Neomys\_fodiens:9.8,Neomys\_schelkovnikovi:9.8)'1850\_Neomys':20.1,(Chimarrogale\_hantu:15.9,Chimarrogale\_platycephala:15.9,Chimarrogale\_himalayica:15.9,Chimarrogale\_phaeura:15.9,Chimarrogale\_styani:15.9,Chimarrogale\_sumatra:15.9)'1851\_Chimarrogale':14.0,((Soriculus\_caudatus:12.1,Soriculus\_macrurus:12.1,Soriculus\_fumidus:12.1,Soriculus\_leucops:12.1)'1853':8.3,(Soriculus\_nigrescens:6.1,Soriculus\_parca:6.1)'1854':14.3,(Soriculus\_smithii:12.1,Soriculus\_hypsibius:12.1,Soriculus\_lamula:12.1,Soriculus\_salenskii:12.1)'1855':8.3)'1852\_Soriculus':9.5)'1849':0.1,(Notiosorex\_crawfordi:5.9,Megasorex\_gigas:5.9)'1856':24.1)'1848':0.2)'1812\_Soricinae':8.1)'1804\_Soricidae':34.8)'1785':5.4)'1762':1.3,(Solenodon\_cubanus:40.0,Solenodon\_paradoxus:40.0)'1857\_Solenodontidae\_Solenodon':39.8)'1761\_Eulipotyphla':5.2)'928\_Laurasiatheria':7.9)'7\_Boreo\_eutheria':0.2,((Choloepus\_didactylus:1.7,Choloepus\_hoffmanni:1.7)'1860\_Megalonychidae\_Choloepinae\_Choloepus':24.9,(Bradypus\_torquatus:13.3,(Bradypus\_tridactylus:1.1,Bradypus\_variegatus:1.1)'1862':12.2)'1861\_Bradypodidae\_Bradypus':13.3)'1859\_Pilosa1\*':39.0,(((Tamandua\_tetradactyla:12.9,Tamandua\_mexicana:12.9)'1865\_Tamandua':0.9,Myrmecophaga\_tridactyla:13.8)'1864':29.3,Cyclopes\_didactylus:43.1)'1863\_Pilosa2\* Myrmecophagidae':22.5,(Chlamyphorus\_retusus:10.6,Chlamyphorus\_truncatus:10.6)'1866\_Cingulata1\* Dasypodidae1\* Chlamyphorinae\_Chlamyphorus':55.0,(((Euphractus\_sexcinctus:5.1,Zaedyus\_pichiy:5.1)'1870':0.2,(Chaetophractus\_nationi:5.1,Chaetophractus\_vellerosus:5.1,Chaetophractus\_villosus:5.1)'1871\_Chaetophractus':0.2)'1869':23.5,(Priodontes\_maximus:19.0,(Tolypeutes\_matacus:7.8,Tolypeutes\_tricinctus:7.8)'1874\_Tolypeutes':11.0,(Cabassous\_centralis:15.5,Cabassous\_chacoensis:15.5,Cabassous\_tatouay:15.5,Cabassous\_un

icinctus:15.5)'1875\_Cabassous':3.3)'1873':0.2)'1872':9.8)'1868':2.3,(Dasypus\_hybridus:7.4,Dasypus\_kappleri:7.4,Dasypus\_novemcinctus:7.4,Dasypus\_pilosus:7.4,Dasypus\_sabanicola:7.4,Dasypus\_septemcinctus:7.4)'1876\_Dasypus':23.7)'1867\_Cingulata2\*\_Dasypodidae2\*\_Dasypodinae':34.5)'1858\_Atlantogenata1\*Xenarthra':27.5)'6':0.1,(((Calcochloris\_obtusirostris:16.5,(Chrysospalax\_trevelyanii:16.3,Chrysospalax\_villosus:16.3)'1882\_Chrysospalax'):0.2,(Chrysochloris\_asiatica:16.3,Chrysochloris\_stuhlmanni:16.3,Chrysochloris\_visagiei:16.3)'1883\_Chrysocloris':0.2,((Amblysomus\_hottentotus:9.8,Amblysomus\_iris:9.8)'1885':6.5,(Amblysomus\_gunningi:9.8,Amblysomus\_julianae:9.8)'1886':6.5)'1884\_Amblysomus':0.2,(Chlorotalpa\_sclateri:16.3,Chlorotalpa\_duthieae:16.3,Chlorotalpa\_arendsi:16.3,Chlorotalpa\_leucorhina:16.3,Chlorotalpa\_tytonis:16.3)'1887\_Chlorotalpa':0.2)'1881\_Chrysochloridae':61.8,(Limnogale\_mergulus:49.5,Geogale\_aurita:49.5,((Oryzorictes\_tetradactylus:19.4,Oryzorictes\_hova:19.4,Oryzorictes\_talpoides:19.4)'1890\_Oryzorictes':20.2,(Microgale\_dobsoni:14.7,Microgale\_brevicaudata:14.7,Microgale\_cowani:14.7,Microgale\_dryas:14.7,Microgale\_gracilis:14.7,Microgale\_longicaudata:14.7,Microgale\_parvula:14.7,Microgale\_principula:14.7,Microgale\_pulla:14.7,Microgale\_pusilla:14.7,Microgale\_talazaci:14.7,Microgale\_thomasi:14.7)'1891\_Microgale':24.9)'1889\_Oryzorictinae':9.9,(Potamogale\_velox:21.4,(Micropotamogale\_lamottei:13.2,Micropotamogale\_ruwenzorii:13.2)'1893\_Micropotamogale':8.2)'1892\_Potamgalinae':28.1,(Hemicentetes\_semispinosus:19.4,Tenrec\_e caudatus:19.4,(Setifer\_setosus:12.1,Echinops\_telfairi:12.1)'1895':7.3)'1894\_Tenrecinae':30.1)'1888\_Tenrecidae':28.8)'1880\_Afrosoricida':7.3,((((((Elephantulus\_brachyrhynchus:6.4,(Elephantulus\_fuscipes:4.2,Elephantulus\_fuscus:4.2)'1903'):2.2)'1902'):2.3,(Elephantulus\_intufi:4.0,Elephantulus\_rupestoris:4.0)'1904':4.7,(Elephantulus\_revoili:4.0,Elephantulus\_rufescens:4.0)'1905':4.7)'1901':3.4,(Elephantulus\_edwardii:6.4,Elephantulus\_myurus:6.4)'1906':5.7)'1900':0.2,Elephantulus\_rozeti:12.3)'1899\_Elephantulus':0.1,Macroscelides\_proboscideus:12.4)'1898':0.1,Petrodromus\_tetradactylus:12.5)'1897':27.4,(Rhynchoyon\_chrysopygus:22.3,Rhynchoyon\_cirnei:22.3,Rhynchoyon\_petersi:22.3)'1907\_Rhynchoyon':17.6)'1896\_Macroscelidea\_Macroscelididae':45.7)'1879':1.5,Orycteropus\_afer:87.1)'1878':0.2,(((Dugong\_dugon:37.9,(Trichechus\_inunguis:29.2,(Trichechus\_manatus:19.4,Trichechus\_senegalensis:19.4)'1912':9.8)'1911\_Trichechidae\_Trichechus':8.7)'1910\_Sirenia':32.3,(((Dendrohyrax\_arboreus:17.5,Dendrohyrax\_dorsalis:17.5,Dendrohyrax\_validus:17.5)'1915\_Dendrohyrax':0.2,(Heterohyrax\_antineae:12.5,Heterohyrax\_brucei:12.5)'1916\_Heterohyrax':5.2)'1914':0.1,Procavia\_capeensis:17.8)'1913\_Hyracoidea\_Procaviidae':52.4)'1909':2.2,(Elephas\_maximus:7.6,Loxodonta\_africana:7.6)'1917\_Proboscidea\_Elephantidae':64.8)'1908':14.9)'1877\_Atlantogenata2\*Afrotheria':5.9)'5\_Eutheria':48.6,((((((Acrobates\_pygmaeus:10.0,Distoechurus\_pennatus:10.0)'1929\_Acrobatidae':15.6,Tarsipes\_rostratus:25.6)'1928':0.7,(((Dactylopsila\_megalura:17.2,Dactylopsila\_palpator:17.2,Dactylopsila\_tatei:17.2,Dactylopsila\_trivirgata:17.2)'1932\_Dactylopsila':8.8,Gymnobelideus\_leadbeateri:26.0)'1931':0.2,(Petaurus\_abidi:5.3,Petaurus\_australis:5.3,Petaurus\_breviceps:5.3,Petaurus\_gracilis:5.3,Petaurus\_norfolkensis:5.3)'1933\_Petaurus':20.9)'1930\_Petauridae':0.1)'1927':4.0,(((Hemibelideus\_lemuroides:6.6,Petauroides\_volans:6.6)'1936':12.1,(Petropseudes\_dahli:15.4,((Pseudochirops\_albertisi:15.2,(Pseudochirops\_archeri:14.0,Pseudochirops\_cupreus:14.0)'1940'):1.2)'1939':0.1,Pseudochirops\_corinnae:15.3)'1938\_Pseudochirops':0.1)'1937':3.3)'1935':4.3,((Pseudochirus\_canescens:15.2,((Pseudochirus\_caroli:6.3,Pseudochirus\_herbertensis:6.3)'1944':4.1,Pseudochirus\_forbesi:10.4)'1943':4.8,Pseudochirus\_mayeri:15.2)'1942':2.0,Pseudochirus\_peregrinus:17.2)'1941\_Pseudochirus':5.8)'1934\_Pseudochiridae':7.3)'1926':11.5,((Ailurops\_ursinus:20.2,((((Phalanger\_carmelitae:5.2,Phalanger Vestitus:5.2)'1954':1.8,Phalanger\_orientalis:7.0)'1953':1.1,Phalanger\_sericeus:8.1)'1952':2.5,Phalanger\_lullulae:10.6)'1951':0.2,Phalanger\_pelengensis:10.8)'1950\_Phualanger1\*:0.1,(Strigocuscus\_celebensis:4.2,Strigocuscus\_gymnotis:4.2)'1955\_Strigocuscus':6.7)'1949':2.5,(Spilogocuscus\_maculatus:7.6,Spilogucuscus\_rufoniger:7.6)'1956\_Spilogucus':5.8)'1948':6.8)'1947':1.2,((Phalanger\_matanim:6.3,Phalanger\_ornatus:6.3)'1958\_Phualanger2\*:10.5,((Trichosurus\_arnhemensis:4.0,Trichosurus\_vulpecula:4.0)'1961':0.2,Trichosurus\_caninus:4.2)'1960\_Trichosurus':9.2,Wyulda\_squamicaudata:13.4)'1959':3.4)'1957':4.6)'1946\_Phualangeridae':9.3,(Burramys\_parvus:2

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':4.9,(*Stylocitellus\_andrewsi*:11.7,*Stylocitellus\_sungorus*:11.7,*Stylocitellus\_telum*:11.7)'27\_ *Stylocitellus'*:8.0)'25\_ *Dipodinae*' :23.3,(*Napaeozapus\_insignis*:24.3,*Eozapus\_setchuanus*:24.3,(*Zapus\_hudsonius*:14.5,*Zapus\_princeps*:14.5,*Zapus\_trinotatus*:14.5)'29\_ *Zapus'*:9.8)'28\_ *Zapodinae*' :18.7,(*Cardiocranus\_paradoxus*:22.7,(*Salpingotus\_crassicauda*:21.3,*Salpingotus\_heptneri*:21.3,*Salpingotus\_kozlovi*:21.3,*Salpingotus\_michaelis*:21.3,*Salpingotus\_pallidus*:21.3,*Salpingotus\_thomasi*:21.3)'31\_ *Salpingotus'*:1.4)'30\_ *Cardiocrainiinae*' :20.3)'23':0.2,(*Pygeretmus\_pumilio*:12.1,*Pygeretmus\_platyurus*:12.1,*Pygeretmus\_shikovi*:12.1)'32\_ *Allactaginae2\** *Pygeretmus'*:31.1)'22':3.0)'20\_ *Dipodidae*' :27.1,((*Abditomys\_latidens*:15.2,(*Bullimus\_bagobus*:5.0,*Bullimus\_luzonicus*:5.0)'36\_ *Bullimus'*:10.2,*Limnomys\_sibuanus*:15.2,(*Tarsomys\_apoensis*:5.0,*Tarsomys\_echinatus*:5.0)'37\_ *Tarsomys'*:10.2,*Tryphomys\_adustus*:15.2)'35\_ 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Pithecheir\_parvus:5.4)'141\_Murinae35\*'\_Pithecheir':26.5, (Pogonomys\_championi:10.8, Pogonomys\_loriae:10.8, Pogonomys\_macrourus:10.8, Pogonomys\_sylvestris:10.8)'142\_Murinae36\*'\_Pogonomys':21.1, (Praomys\_delectorum:14.4, Praomys\_hartwigi:14.4, Praomys\_jacksoni:14.4, Praomys\_minor:14.4, Praomys\_misonnei:14.4, Praomys\_morio:14.4, Praomys\_mutoni:14.4, Praomys\_rostratus:14.4, Praomys\_tullbergi:14.4)'143\_Murinae37\*'\_Praomys':17.5, ((Rattus\_colletti:12.3, Rattus\_fuscipes:12.3, Rattus\_hainaldi:12.3, Rattus\_lutreolus:12.3, Rattus\_sordidus:12.3, Rattus\_timorensis:12.3, Rattus\_tunneyi:12.3, Rattus\_villosissimus:12.3)'145':0.2, (Rattus\_elaphinus:12.3, Rattus\_feliceus:12.3, Rattus\_giluwensis:12.3, Rattus\_jobiensis:12.3, Rattus\_leucopus:12.3, Rattus\_mordax:12.3, Rattus\_morotaiensis:12.3, Rattus\_novaeguineae:12.3, Rattus\_praetor:12.3, Rattus\_sanila:12.3, Rattus\_steini:12.3)'146':0.2, Rattus\_annandalei:12.5, Rattus\_enganus:12.5, Rattus\_exulans:12.5, Rattus\_hoogerwerfi:12.5, Rattus\_korinchi:12.5, Rattus\_montanus:12.5, Rattus\_ranjiniae:12.5, Rattus\_stoicus:12.5, (Rattus\_adustus:5

.6, *Rattus\_argentiventer*:5.6, *Rattus\_baluensis*:5.6, *Rattus\_burrus*:5.6, *Rattus\_everetti*:5.6, *Rattus\_hoffmanni*:5.6, *Rattus\_koopmani*:5.6, *Rattus\_losea*:5.6, *Rattus\_lugens*:5.6, *Rattus\_mindorensis*:5.6, *Rattus\_mollicomulus*:5.6, *Rattus\_nitidus*:5.6, *Rattus osgoodi*:5.6, *Rattus\_palmarum*:5.6, *Rattus\_rattus*:5.6, *Rattus\_sikkimensis*:5.6, *Rattus\_simalurensis*:5.6, *Rattus\_tanezumi*:5.6, *Rattus\_tawitawiensis*:5.6, *Rattus\_tiomanicus*:5.6, *Rattus\_turkestanicus*:5.6) '147':6.9, *Rattus\_norvegicus*:12.5, (*Rattus\_bontanus*:9.3, *Rattus\_foramineus*:9.3, *Rattus\_marmosurus*:9.3, *Rattus\_pelurus*:9.3, *Rattus\_xanthurus*:9.3) '148':3.2) '144\_Murinae38\*\_Rattus':19.4, *Rhabdomys\_pumilio*:31.9, *Srilankamys\_ohiensis*:31.9, (*Stenomys\_ceramicus*:12.6, *Stenomys\_niobe*:12.6, *Stenomys\_richardsoni*:12.6, *Stenomys\_vandeuseni*:12.6, *Stenomys\_verecundus*:12.6) '149\_Murinae39\*\_Stenomys':19.3, *Stochomys\_longicaudatus*:31.9, (*Sundamys\_infraoluteus*:8.6, *Sundamys\_maxi*:8.6, *Sundamys\_muelleri*:8.6) '150\_Murinae40\*\_Sundamys':23.3, (*Taeromys\_arcuatus*:14.0, *Taeromys\_callitrichus*:14.0, *Taeromys\_celebensis*:14.0, *Taeromys\_hamatus*:14.0, *Taeromys\_punicans*:14.0, *Taeromys\_taerae*:14.0) '151\_Murinae41\*\_Taeromys':17.9, (*Vandeleuria\_nolthenii*:5.4, *Vandeleuria\_oleracea*:5.4) '152\_Murinae42\*\_Vandeleuria':26.5, *Vernaya\_fulva*:31.9, (*Zelotomys\_hildegardae*:5.4, *Zelotomys\_woosnami*:5.4) '153\_Murinae43\*\_Zelotomys':26.5) '34':20.5, (((*Abrawayaomys\_ruschii*:17.6, ((*Aepeomys\_fuscatus*:3.2, *Aepeomys\_lugens*:3.2) '159\_Aepeomys':11.3, (*Thomasomys\_aureus*:8.0, *Thomasomys\_baeops*:8.0, *Thomasomys\_bombycinus*:8.0, *Thomasomys\_cinereiventer*:8.0, *Thomasomys\_cinereus*:8.0, *Thomasomys\_daphne*:8.0, *Thomasomys\_eleusis*:8.0, *Thomasomys\_gracilis*:8.0, *Thomasomys\_hylophilus*:8.0, *Thomasomys\_incanus*:8.0, *Thomasomys\_ischyurus*:8.0, *Thomasomys\_kalinowskii*:8.0, *Thomasomys\_ladewi*:8.0, *Thomasomys\_laniger*:8.0, *Thomasomys\_monochromos*:8.0, *Thomasomys\_niveipes*:8.0, *Thomasomys\_notatus*:8.0, *Thomasomys\_oreas*:8.0, *Thomasomys\_paramorum*:8.0, *Thomasomys\_pyrrhonotus*:8.0, *Thomasomys\_rhoadsi*:8.0, *Thomasomys\_rosalinda*:8.0, *Thomasomys\_silvestris*:8.0, *Thomasomys\_taczanowskii*:8.0, *Thomasomys\_vestitus*:8.0) '160\_Thomasomys':6.5) '158':3.1, ((*Akodon\_lanosus*:5.0, *Akodon\_longipilis*:5.0, *Akodon\_mansoensis*:5.0, *Akodon\_sanborni*:5.0) '163':5.9, *Akodon\_hershkovitzi*:10.9, *Akodon\_illuteus*:10.9, (*Akodon\_affinis*:7.5, *Akodon\_albiventer*:7.5, *Akodon\_azarae*:7.5, *Akodon\_cursor*:7.5, *Akodon\_fumeus*:7.5, *Akodon\_iniscatus*:7.5, *Akodon\_kofordi*:7.5, *Akodon\_lindberghi*:7.5, *Akodon\_markhami*:7.5, *Akodon\_mollis*:7.5, *Akodon.olivaceus*:7.5, *Akodon\_orphilus*:7.5, *Akodon\_puer*:7.5, *Akodon\_sanctipaulensis*:7.5, *Akodon\_serrensis*:7.5, *Akodon\_spegazzinii*:7.5, *Akodon\_subfuscus*:7.5, *Akodon\_surdus*:7.5, *Akodon\_sylvanus*:7.5, *Akodon\_torques*:7.5, *Akodon\_urichi*:7.5, (*Akodon\_boliviensis*:2.1, *Akodon\_juninensis*:2.1) '165':5.4, (*Akodon\_dayi*:3.7, *Akodon\_dolores*:3.7, *Akodon\_molinae*:3.7, *Akodon\_neocenus*:3.7, *Akodon\_simulator*:3.7, *Akodon\_toba*:3.7, *Akodon\_varius*:3.7) '166':3.8) '164':3.4, *Akodon\_xanthorhinus*:10.9, *Akodon\_aerosus*:10.9, *Akodon\_kempi*:10.9, (*Akodon\_budini*:2.5, *Akodon\_siberiae*:2.5) '167':8.4, (*Akodon\_bogotensis*:4.0, *Akodon\_latebricola*:4.0, *Akodon\_mimus*:4.0) '168':6.9, *Akodon\_nigrita*:10.9) '162\_Akodon':6.4, (*Chroelemys\_andinus*:3.2, *Chroelemys\_jelskii*:3.2) '169\_Chroelemys':14.1) '161':0.3, ((*Andalgalomys\_olrogi*:2.9, *Andalgalomys\_pearsoni*:2.9) '172\_Andalgalomys':7.4, ((*Auliscomys\_boliviensis*:10.1, *Auliscomys\_micropus*:10.1, *Auliscomys\_pictus*:10.1, *Auliscomys\_sublimis*:10.1) '174\_Auliscomys':0.1, (*Phyllotis\_amicus*:8.3, *Phyllotis\_andium*:8.3, *Phyllotis\_bonaeriensis*:8.3, *Phyllotis\_caprinus*:8.3, *Phyllotis\_darwini*:8.3, *Phyllotis\_definitus*:8.3, *Phyllotis\_gerbillus*:8.3, *Phyllotis\_haggardi*:8.3, *Phyllotis\_magister*:8.3, *Phyllotis osgoodi*:8.3, *Phyllotis\_osilae*:8.3, *Phyllotis\_wolffsohni*:8.3, *Phyllotis\_xanthopygus*:8.3) '175\_Phyllotis':1.9) '173':0.1) '171':6.5, (*Graomys\_domorum*:5.4, *Graomys\_edithae*:5.4, *Graomys\_griseoflavus*:5.4) '176\_Graomys':11.4) '170':0.8, *Andinomys\_edax*:17.6, (((*Bibimys\_chacoensis*:0.2, *Bibimys\_labiosus*:0.2, *Bibimys\_torresi*:0.2) '179\_Bibimys':9.9, (*Kunsia\_fronto*:3.8, *Kunsia\_tomentosus*:3.8) '180\_Kunsia':6.3) '178':1.6, *Scapteromys\_tumidus*:11.7) '177':5.9, *Blarinomys\_breviceps*:17.6, (*Bolomys\_amoenus*:7.5, *Bolomys\_lactens*:7.5, *Bolomys\_lasiurus*:7.5, *Bolomys\_obscurus*:7.5, *Bolomys\_punctulatus*:7.5, *Bolomys\_temchuki*:7.5) '181\_Bolomys':10.1, (*Calomys\_boliviae*:9.8, *Calomys\_callidus*:9.8, *Calomys\_callosus*:9.8, *Calomys\_hummelincki*:9.8, *Calomys\_laucha*:9.8, *Calomys\_lepidus*:9.8, *Calomys\_musculinus*:9.8, *Calomys\_sorellus*:9.8, *Calomys\_tener*:9.8) '182\_Calomys':7.8, (*Chelemys\_macronyx*:3.5, *Chelemys\_megalonyx*:3.5) '183\_Chelemys':14.1, *Chilomys\_instans*:17.6, *Chinchillula\_sahamae*:17.6, (*Delomys\_dorsalis*:6.2, *Delomys\_sublineatus*:6.2) '184\_Delomys':11.4, (*Eligmodontia\_moreni*:4.7, *Eligmodontia\_morgani*:4.7, *Eligmodontia\_puerulus*:4.7, *Eligmodontia\_typus*:4.7) '185\_Eligmod

ontia':12.9, (Euneomys\_chinchilloides:7.0, Euneomys\_fossor:7.0, Euneomys\_mordax:7.0, Euneomys\_petersoni:7.0) '186\_Euneomys':10.6, Galenomys\_garleppi:17.6, Geoxus\_valdivianus:17.6, ((Holochilus\_brasiliensis:0.6, Holochilus\_chacarius:0.6, Holochilus\_magnus:0.6, Holochilus\_sciureus:0.6) '188\_Holochilus':3.0, Pseudoryzomys\_simplex:3.6) '187':14.0, Irenomys\_tarsalis:17.6, (Juscelinomys\_candango:3.5, Jusc elinomys\_talpinus:3.5) '189\_Juscelinomys':14.1, Lenoxus\_apicalis:17.6, (Melanomy s\_caliginosus:5.5, Melanomys\_robustulus:5.5, Melanomys\_zunigae:5.5) '190\_Melanom ys':12.1, (Microryzomys\_altissimus:3.5, Microryzomys\_minutus:3.5) '191\_Microryzo mys':14.1, (Neacomys\_guianae:7.0, Neacomys\_pictus:7.0, Neacomys\_spinosus:7.0, Nea comys\_tenuipes:7.0) '192\_Neacomys':10.6, (Nectomys\_palmipes:5.5, Nectomys\_parvip es:5.5, Nectomys\_squamipes:5.5) '193\_Nectomys':12.1, Neotomys\_ebriosus:17.6, (Nes oryzomys\_fernandinae:1.9, Nesoryzomys\_indefessus:1.9, Nesoryzomys\_swarthi:1.9) '194\_Nesoryzomys':15.7, Notiomys\_edwardsii:17.6, (Oecomys\_bicolor:4.9, Oecomys\_cl eberi:4.9, Oecomys\_concolor:4.9, Oecomys\_flavicans:4.9, Oecomys\_mamorae:4.9, Oeco mys\_paricola:4.9, Oecomys\_phaeotis:4.9, Oecomys\_rex:4.9, Oecomys\_roberti:4.9, Oec omys\_rutilus:4.9, Oecomys\_speciosus:4.9, Oecomys\_superans:4.9, Oecomys\_trinitati s:4.9) '195\_Oecomys':12.7, (Oligoryzomys\_andinus:6.7, Oligoryzomys\_areinalis:6.7, Oligoryzomys\_chacoensis:6.7, Oligoryzomys\_delticola:6.7, Oligoryzomys\_destructo r:6.7, Oligoryzomys\_eliurus:6.7, Oligoryzomys\_flavescens:6.7, Oligoryzomys\_fulve scens:6.7, Oligoryzomys\_griseolus:6.7, Oligoryzomys\_longicaudatus:6.7, Oligoryzo mys\_magellanicus:6.7, Oligoryzomys\_microtis:6.7, Oligoryzomys\_nigripes:6.7, Olig oryzomys\_vegetus:6.7, Oligoryzomys\_victus:6.7) '196\_Oligoryzomys':10.9, (Oryzomy s\_albigularis:9.6, Oryzomys\_alfaroi:9.6, Oryzomys\_auriventer:9.6, Oryzomys\_balne ator:9.6, Oryzomys\_bolivaris:9.6, Oryzomys\_buccinatus:9.6, Oryzomys\_capito:9.6, O ryzomys\_chapmani:9.6, Oryzomys\_couesi:9.6, Oryzomys\_devius:9.6, Oryzomys\_dimidia tus:9.6, Oryzomys\_galapagoensis:9.6, Oryzomys\_gorgasi:9.6, Oryzomys\_hammondi:9.6 , Oryzomys\_intectus:9.6, Oryzomys\_intermedius:9.6, Oryzomys\_keaysi:9.6, Oryzomys\_kelloggi:9.6, Oryzomys\_lamia:9.6, Oryzomys\_legatus:9.6, Oryzomys\_levipes:9.6, Ory zomys\_macconnelli:9.6, Oryzomys\_melanotis:9.6, Oryzomys\_nitidus:9.6, Oryzomys\_on iscus:9.6, Oryzomys\_palustris:9.6, Oryzomys\_polius:9.6, Oryzomys\_ratticeps:9.6, O ryzomys\_rhabdops:9.6, Oryzomys\_rostratus:9.6, Oryzomys\_saturatior:9.6, Oryzomys\_subflavus:9.6, Oryzomys\_talamancae:9.6, Oryzomys\_xantheolus:9.6, Oryzomys\_yungan us:9.6) '197\_Oryzomys':8.0, (Oxymycterus\_akodontius:11.3, Oxymycterus\_angularis: 11.3, Oxymycterus\_delator:11.3, Oxymycterus\_hiska:11.3, Oxymycterus\_hispidus:11 .3, Oxymycterus\_hucucha:11.3, Oxymycterus\_iheringi:11.3, Oxymycterus\_inca:11.3, Ox ymycterus\_nasutus:11.3, Oxymycterus\_paramensis:11.3, Oxymycterus\_roberti:11.3, O xymycterus\_rufus:11.3) '198\_Oxymycterus':6.3, Phaenomys\_ferrugineus:17.6, Podoxy mys\_roraimae:17.6, Punomys\_leminius:17.6, Reithrodon\_auritus:17.6, Rhagomys\_rufe scens:17.6, (Rhipidomys\_austrinus:8.5, Rhipidomys\_caucensis:8.5, Rhipidomys\_coue si:8.5, Rhipidomys\_fulviventer:8.5, Rhipidomys\_latimanus:8.5, Rhipidomys\_leucoda ctylus:8.5, Rhipidomys\_macconnelli:8.5, Rhipidomys\_mastacalis:8.5, Rhipidomys\_ni tela:8.5, Rhipidomys\_ochrogaster:8.5, Rhipidomys\_scandens:8.5, Rhipidomys\_venezuela:8.5, Rhipidomys\_venustus:8.5, Rhipidomys\_wetzeli:8.5) '199\_Rhipidomys':9.1, (Scolomys\_melanops:5.8, Scolomys\_ucayalensis:5.8) '200\_Scolomys':11.8, (Sigmodon tomys\_alfari:3.5, Sigmodontomys\_aphrastus:3.5) '201\_Sigmodontomys':14.1, (Thalpo mys\_cerradensis:3.5, Thalpomys\_lasiotis:3.5) '202\_Thalpomys':14.1, Wiedomys\_pyrr horhinos:17.6, (Wilfredomys\_oenax:3.5, Wilfredomys\_pictipes:3.5) '203\_Wilfredomy s':14.1, (Zygodontomys\_brevicauda:3.5, Zygodontomys\_brunneus:3.5) '204\_Zygodonto mys':14.1) '157':9.8, ((Anotomys\_leander:16.0, Chibchanomys\_trichotis:16.0, (Icht hyomys\_hydrobates:8.0, Ichthyomys\_pittieri:8.0, Ichthyomys\_stolzmanni:8.0, Ichthyomys\_tweedii:8.0) '207\_Ichthyomys':8.0, (Neusticomys\_monticolus:9.2, Neusticomys\_mussoi:9.2, Neusticomys\_oyapocki:9.2, Neusticomys\_peruviensis:9.2, Neusticomys\_venezuelae:9.2) '208\_Neusticomys':6.8, (Rheomys\_mexicanus:8.0, Rheomys\_raptor:8 .0, Rheomys\_thomasi:8.0, Rheomys\_underwoodi:8.0) '209\_Rheomys':8.0) '206':2.6, (Si gmodon\_alleni:7.0, Sigmodon\_alstoni:7.0, Sigmodon\_arizonae:7.0, Sigmodon\_fulvive nter:7.0, Sigmodon\_hispidus:7.0, Sigmodon\_inopinatus:7.0, Sigmodon\_leucotis:7.0, Sigmodon\_mascotensis:7.0, Sigmodon\_ochrognathus:7.0, Sigmodon\_peruanus:7.0) '210\_Sigmodon':11.6) '205':8.8) '156':9.4, (Nyctomys\_sumichrasti:6.5, Otonyctomys\_hatti:6.5) '212':25.2, (Ototylomys\_phyllotis:20.6, (Tylomys\_bullaris:18.8, Tylomys fulviventer:18.8, Tylomys\_mirae:18.8, Tylomys\_nudicaudus:18.8, Tylomys\_panamensi



ionomys\_sikotanensis:4.7)'259\_Clethrionomys':6.4,(Eothenomys\_chinensis:4.0,Eothenomys\_custos:4.0,Eothenomys\_eva:4.0,Eothenomys\_inez:4.0,Eothenomys\_melanogaster:4.0,Eothenomys\_olitor:4.0,Eothenomys\_proditor:4.0,Eothenomys\_regulus:4.0,Eothenomys\_shanseius:4.0)'260\_Eothenomys':7.1,(Phaulomys\_andersoni:5.1,Phaulomys\_smithii:5.1)'261\_Phaulomys':6.0)'256':8.0,(Hyperacrius\_fertilis:4.0,Hyperacrius\_wynnei:4.0)'262\_Hyperacrius':15.1)'255':1.7,Dinaromys\_bogdanovi:20.8)'254':0.3,((Arborimus\_albipes:2.2,Arborimus\_longicaudus:2.2,Arborimus\_pomo:2.2)'264\_Arborimus':2.3,(Phenacomys\_intermedius:3.7,Phenacomys\_ungava:3.7)'265\_Phenacomys':0.8)'263':16.6,(Arvicola\_sapidus:5.1,Arvicola\_terrestris:5.1)'266\_Arvicola':16.0,(Blanfordimys\_afghanus:5.1,Blanfordimys\_bucharicus:5.1)'267\_Blanfordimys':16.0,(Chionomys\_gud:9.3,Chionomys\_nivalis:9.3,Chionomys\_roberti:9.3)'268\_Chionomys':11.8,(Dicrostonyx\_exsul:5.0,Dicrostonyx\_groenlandicus:5.0,Dicrostonyx\_hudsonius:5.0,Dicrostonyx\_kilangmiutak:5.0,Dicrostonyx\_nelsoni:5.0,Dicrostonyx\_nunatakensis:5.0,Dicrostonyx\_richardsoni:5.0,Dicrostonyx\_rubricatus:5.0,Dicrostonyx\_torquatus:5.0,Dicrostonyx\_unalascensis:5.0,Dicrostonyx\_vinogradovi:5.0)'269\_Dicrostonyx':16.1,((Ellobius\_alaicus:10.6,Ellobius\_fuscocapillus:10.6,Ellobius\_lutescens:10.6,Ellobius\_talpinus:10.6,Ellobius\_tancrei:10.6)'271\_Ellobius':2.1,Prometheomys\_schaposhnikowi:12.7)'270':8.4,(Eolagurus\_luteus:4.6,Eolagurus\_przewalskii:4.6)'273\_Eolagurus':3.4,Lagurus\_lagurus:8.0)'272':13.1,(Lasiopodomys\_brandtii:8.0,Lasiopodomys\_fuscus:8.0,Lasiopodomys\_mandarinus:8.0)'274\_Lasiopodomys':13.1,Lemmiscus\_curtatus:21.1,(((Lemmus\_amurensis:9.3,Lemmus\_lemmus:9.3,Lemmus\_sibiricus:9.3)'277\_Lemmus':2.1,Myopus\_schisticolor:11.4)'276':0.8,(Synaptomys\_borealis:4.6,Synaptomys\_cooperi:4.6)'278\_Synaptomys':7.6)'275':8.9,((Microtus\_agrestis:8.0,Microtus\_cabrerae:8.0)'280':3.4,(Microtus\_fortis:6.4,Microtus\_hyperboreus:6.4,(Microtus\_evoronensis:4.5,Microtus\_maximowiczii:4.5,Microtus\_mujanensis:4.5)'282':1.9,(Microtus\_middendorffi:4.5,Microtus\_mongolicus:4.5,Microtus\_sachalinensis:4.5)'283':1.9)'281':5.0,(Microtus\_chrotorrhinus:7.5,(Microtus\_richardsoni:6.2,Microtus\_xanthognathus:6.2)'285':1.3)'284':3.9,Microtus\_guatemalensis:11.4,Microtus\_longicaudus:11.4,Microtus\_mexicanus:11.4,Microtus\_oaxacensis:11.4,((Microtus\_arvalis:3.9,Microtus\_kermanensis:3.9,Microtus\_kirgisorum:3.9,Microtus\_obscurus:3.9,Microtus\_rossiaemericidionalis:3.9,Microtus\_transcaspicus:3.9)'287':1.9,(Microtus\_guentheri:1.7,Microtus\_irani:1.7,Microtus\_socialis:1.7)'288':4.1)'286':5.6,(Microtus\_californicus:6.8,(Microtus\_canicaudus:5.5,Microtus\_montanus:5.5)'290':1.3,Microtus\_oregoni:6.8,(Microtus\_breweri:5.6,Microtus\_pennsylvanicus:5.6,Microtus\_townsendii:5.6)'291':1.2)'289':4.6,(Microtus\_juldaschi:7.4,Microtus\_leucurus:7.4,(Microtus\_irene:3.2,Microtus\_sikimensis:3.2)'293':4.2)'292':4.0,Microtus\_umbrosus:11.4,(Microtus\_limnophilus:5.7,Microtus\_montebelli:5.7,Microtus\_oconomus:5.7)'294':5.7,Microtus\_ochrogaster:11.4,(Microtus\_pinetorum:4.0,Microtus\_quasiater:4.0)'295':7.4,(Microtus\_abbreviatus:8.0,Microtus\_gregalis:8.0,Microtus\_miurus:8.0)'296':3.4,(Microtus\_majori:6.0,Microtus\_multiplex:6.0,Microtus\_schelkovnikovi:6.0,(Microtus\_duodécimcostatus:4.3,Microtus\_lusitanicus:4.3,Microtus\_thomasi:4.3)'298':1.7,(Microtus\_felteni:5.6,Microtus\_gerbei:5.6,Microtus\_savii:5.6)'299':0.4,(Microtus\_bavaricus:5.4,Microtus\_daghhestanicus:5.4,Microtus\_nasarovi:5.4,Microtus\_subterraneus:5.4,Microtus\_tataricus:5.4)'300':0.6)'297':5.4)'279\_Microtus':9.7,Neofiber\_alleni:21.1,Ondatra\_zibethicus:21.1,Proedromys\_bedfordi:21.1,(Volemys\_clarkei:10.1,Volemys\_kikuchii:10.1,Volemys\_millicens:10.1,Volemys\_musseri:10.1)'301\_Volemys':11.0)'253\_Arvicolinae':31.3,(Ammodillus\_imbellis:27.6,((Brachiones\_przewalskii:21.0,(Meriones\_hurrianae:15.7,Meriones\_tamariscinus:15.7,(Meriones\_arimalius:11.4,Meriones\_chengi:11.4,Meriones\_crassus:11.4,Meriones\_dahli:11.4,Meriones\_libycus:11.4,Meriones\_meridianus:11.4,Meriones\_sacramenti:11.4,Meriones\_shawi:11.4,Meriones\_tristrami:11.4,Meriones\_unguiculatus:11.4,Meriones\_vinogradovi:11.4,Meriones\_zarudnyi:11.4)'306':4.3,(Meriones\_persicus:4.0,Meriones\_rex:4.0)'307':11.7)'305\_Meriones':5.3,Sekeetamys\_calurus:21.0)'304':5.2,(Psammomys\_obesus:5.0,Psammomys\_vexillaris:5.0)'308\_Psammomys':21.2,Rhombomys\_opimus:26.2)'303':1.4,Desmodillus\_braueri:27.6,(Desmodillus\_auricularis:12.6,(Gerbillurus\_paeba:10.1,Gerbillurus\_setzeri:10.1,Gerbillurus\_tytonis:10.1,Gerbillurus\_vallinus:10.1)'310\_Gerbillurus':2.5)'309':15.0,((Gerbillus\_acticola:27.3,Gerbillus\_agag:27.3,Gerbillus\_allenbyi:27.3,Gerbillus\_amoenus:27.3,Gerbillus\_andersoni:27.3,Gerb

illus\_aquilus:27.3, Gerbillus\_bilensis:27.3, Gerbillus\_bonhotei:27.3, Gerbillus\_bottai:27.3, Gerbillus\_brockmani:27.3, Gerbillus\_burtoni:27.3, Gerbillus\_campestris:27.3, Gerbillus\_chesmani:27.3, Gerbillus\_cosensi:27.3, Gerbillus\_dalloni:27.3, Gerbillus\_dasyurus:27.3, Gerbillus\_diminutus:27.3, Gerbillus\_dongolanus:27.3, Gerbillus\_dunni:27.3, Gerbillus\_famulus:27.3, Gerbillus\_floweri:27.3, Gerbillus\_garamantis:27.3, Gerbillus\_gerbillus:27.3, Gerbillus\_gleadowi:27.3, Gerbillus\_grobbeni:27.3, Gerbillus\_harwoodi:27.3, Gerbillus\_henleyi:27.3, Gerbillus\_hesperinus:27.3, Gerbillus\_hoogstraali:27.3, Gerbillus\_jamesi:27.3, Gerbillus\_juliani:27.3, Gerbillus\_latastei:27.3, Gerbillus\_lowei:27.3, Gerbillus\_mackillingini:27.3, Gerbillus\_magharebi:27.3, Gerbillus\_mauritaniae:27.3, Gerbillus\_mesopotamiae:27.3, Gerbillus\_muriculus:27.3, Gerbillus\_nancillus:27.3, Gerbillus\_nanus:27.3, Gerbillus\_nigeriae:27.3, Gerbillus\_occiduus:27.3, Gerbillus\_percivali:27.3, Gerbillus\_perpallidus:27.3, Gerbillus\_poecilops:27.3, Gerbillus\_principulus:27.3, Gerbillus\_pulvinatus:27.3, Gerbillus\_pusillus:27.3, Gerbillus\_pyramidalis:27.3, Gerbillus\_quadrivirgatus:27.3, Gerbillus\_riggenbachi:27.3, Gerbillus\_rosalinda:27.3, Gerbillus\_ruberrimus:27.3, Gerbillus\_simoni:27.3, Gerbillus\_somalicus:27.3, Gerbillus\_stigmoneus:27.3, Gerbillus\_syrticus:27.3, Gerbillus\_tarabuli:27.3, Gerbillus\_vivax:27.3, Gerbillus\_watersi:27.3)'312\_Gerbillus':0.2, Microdillus\_peeli:27.5)'311':0.1, Pachyuromys\_duprasi:27.6, (Tatera\_boehmi:19.4, Tatera\_indica:19.4, (Tatera\_afra:16.8, Tatera\_brantsii:16.8, Tatera\_guineae:16.8, Tatera\_inclusa:16.8, Tatera\_kempi:16.8, Tatera\_leucogaster:16.8, Tatera\_nigricauda:16.8, Tatera\_phillipsi:16.8, Tatera\_robusta:16.8, Tatera\_valida:16.8)'314':2.6)'313\_Tatera':8.2, (Taterillus\_arenarius:16.3, Taterillus\_congicus:16.3, Taterillus\_emini:16.3, Taterillus\_gracilis:16.3, Taterillus\_harringtoni:16.3, Taterillus\_lacustris:16.3, Taterillus\_petteri:16.3, Taterillus\_pygargus:16.3)'315\_Taterillus':11.3)'302\_Gerbillinae':24.8, (((Beamys\_hindei:11.2, Beamys\_major:11.2)'318\_Beamys':13.8, (Cricetomys\_emini:11.2, Cricetomys\_gambianus:11.2)'319\_Cricetomys':13.8)'317':19.1, (Saccostomus\_campestris:10.0, Saccostomus\_mearnsi:10.0)'320\_Saccostomus':34.1)'316\_Cricetomyinae':8.3, ((Brachytarsomys\_albicauda:23.9, (Eliurus\_majori:6.5, Eliurus\_minor:6.5, Eliurus\_myoxinus:6.5, Eliurus\_penicillatus:6.5, Eliurus\_tanaala:6.5, Eliurus\_webbi:6.5)'324\_Eliurus':12.6, Gymnuromys\_roberti:19.1)'323':4.8)'322':12.7, ((Brachyuromys\_betsileoensis:7.1, Brachyuromys\_ramirohitra:7.1)'327\_Brachyuromys':14.9, Nesomys\_rufus:22.0)'326':1.7, Hypogeomys\_antimena:23.7)'325':12.9, (Macrotarsomys\_bastardi:7.5, Macrotarsomys\_ingens:7.5)'328\_Macrotarsomys':29.1)'321\_Nesomyinae':15.8, (Calomyscus\_bailwardi:8.5, Calomyscus\_baluchi:8.5, Calomyscus\_hotsoni:8.5, Calomyscus\_mystax:8.5, Calomyscus\_tsolovi:8.5, Calomyscus\_urartensis:8.5)'329\_Calomyscinae\_Calomyscus':43.9, ((Cannomys\_badius:10.6, (Rhizomys\_pruinosus:6.1, Rhizomys\_sinensis:6.1, Rhizomys\_sumatrensis:6.1)'332\_Rhizomys':4.5)'331':8.3, (Tachyoryctes\_ankoliae:18.7, Tachyoryctes\_annectens:18.7, Tachyoryctes\_audax:18.7, Tachyoryctes\_daemon:18.7, Tachyoryctes\_macrocephalus:18.7, Tachyoryctes\_naivashae:18.7, Tachyoryctes\_rex:18.7, Tachyoryctes\_ruanda:18.7, Tachyoryctes\_ruddi:18.7, Tachyoryctes\_spalacinus:18.7, Tachyoryctes\_splendens:18.7)'333\_Tachyoryctes':0.2)'330\_Rhizomysinae':33.5, (Delanymys\_brooksi:15.4, (Petromyscus\_barbouri:12.9, Petromyscus\_collinus:12.9, Petromyscus\_monticolaris:12.9, Petromyscus\_shortridgei:12.9)'335\_Petromyscus':2.5)'334\_Petromyscinae':37.0, (Dendromus\_insignis:23.0, Dendromus\_kahuziensis:23.0, Dendromus\_kivu:23.0, Dendromus\_lovati:23.0, Dendromus\_melanotis:23.0, Dendromus\_mesomelas:23.0, Dendromus\_messorius:23.0, Dendromus\_mystacalis:23.0, Dendromus\_nyikae:23.0, Dendromus\_oreas:23.0, Dendromus\_vernayi:23.0)'336\_Dendromurinae2\*Dendromus':29.4, Dendroprionomys\_rousseloti:52.4, Deomys\_ferrugineus:52.4, (Leimacomys\_buettneri:18.7, (Steatomys\_caurinus:16.6, Steatomys\_cuppedius:16.6, Steatomys\_jacksoni:16.6, Steatomys\_krebsii:16.6, Steatomys\_parvus:16.6, Steatomys\_pratensis:16.6)'338\_Steatomys':2.1)'337\_Dendromurinae2\*':33.7, Lophiomys\_imhausi:52.4, Malacothrix\_typica:52.4, Megadendromus\_nikolausi:52.4, (Myospalax\_aspalax:17.1, Myospalax\_epsilonianus:17.1, Myospalax\_fontanieri:17.1, Myospalax\_myospalax:17.1, Myospalax\_psilurus:17.1, Myospalax\_rothschildi:17.1, Myospalax\_smithii:17.1)'339\_Myospalacinae\_Myospalax':35.3, Mystromys\_albicaudatus:52.4, (Nannospalax\_ehrenbergi:18.8, Nannospalax\_leucodon:18.8, Nannospalax\_nehringi:18.8)'341\_Nannospalax':5.0, (Spalax\_arenarius:14.9, Spalax\_giganteus:14.9, Spalax\_graecus:14.9, Spalax\_microphtalmus:14.9, Spalax\_zemni:14.9)'342\_Spalax':8.9)'340\_Spalacinae':28.6, (Plata

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Chaetodipus\_californicus:11.2)'359':1.7)'354':0.9)'353':8.4, (Chaetodipus\_baileyi:6.7, Chaetodipus\_hispidus:6.7)'361':15.5)'352':0.2)'351\_Chaetodipus':14.5)'349\_Perognathinae':6.0, (((Dipodomys\_oreocanis:6.1, (Dipodomys\_gravipes:3.4, Dipodomys\_ingenus:3.4)'367':2.7)'366':2.4, Dipodomys\_compactus:8.5)'365':4.3, ((Dipodomys\_panamintinus:3.9, (Dipodomys\_heermanni:2.3, Dipodomys\_stephensi:2.3)'371':1.6)'370':2.0, ((Dipodomys\_venustus:2.1, Dipodomys\_elephantinus:2.1)'374':1.5, Dipodomys\_agilis:3.6)'373':1.3, Dipodomys\_microps:4.9)'372':1.0, Dipodomys\_elator:5.9, Dipodomys\_phillipsii:5.9, Dipodomys\_californicus:5.9)'369':1.3, ((Dipodomys\_merriami:2.8, Dipodomys\_nitratoides:2.8)'376':2.3, Dipodomys\_insularis:5.1)'375':2.1)'368':5.6)'364':0.1, (Dipodomys\_deserti:7.4, (Dipodomys\_spectabilis:2.9, Dipodomys\_nelsoni:2.9)'378':4.5)'377':5.5)'363\_Dipodomys':7.1, (Microdipodops\_megacephalus:6.9, Microdipodops\_pallidus:6.9)'379\_Microdipodops':13.1)'362\_Dipomyinae':22.9)'348\_Heteromyidae1':0.6, (((Thomomys\_bottae:10.7, Thomomys\_townsendii:10.7)'384':3.2, Thomomys\_umbrinus:13.9)'383':0.5, Thomomys\_bulbivorus:14.4)'382':15.6, (Thomomys\_talpoides:15.1, Thomomys\_monticola:15.1, Thomomys\_mazama:15.1)'385':14.9)'381\_Geomyidae1':0.2, (((Geomys\_personatus:5.9, Geomys\_tropicalis:5.9)'389':1.7, (Geomys\_bursarius:5.7, Geomys\_arenarius:5.7)'390':1.9)'388':6.6, Geomys\_pinetis:14.2)'387\_Geomyidae2':7.7, ((Pappogeomys\_bulleri:15.8, Pappogeomys\_merrimaki:15.8, Pappogeomys\_castanops:15.8, (((Heteromys\_goldmani:3.6, Heteromys\_desmarestianus:3.6)'397':2.0, Heteromys\_oresterus:5.6)'396':1.6, Heteromys\_nelsoni:7.2)'395\_Heteromys':6.0, (((Liomys\_adspersus:3.6, Liomys\_salvini:3.6)'401':4.7, ((Liomys\_pictus:3.6, Liomys\_spectabilis:3.6)'403':2.1, Liomys\_irroratus:5.7)'402':2.6)'400\_Liomys':0.8, Heteromys\_australis:9.1)'399':1.1, Heteromys\_anomalus:10.2)'398':3.0)'394':1.4, Heteromys\_gaumeri:14.6)'393\_Heteromyidae2':1.2, Pappogeomys\_gymnurus:15.8, Pappogeomys\_tylorhinus:15.8, Pappogeomys\_neglectus:15.8, Pappogeomys\_zinseri:15.8, Pappogeomys\_fumosus:15.8, Pappogeomys\_alcorni:15.8)'392':1.3, ((Orthogeomys\_heterodus:6.0, Orthogeomys\_hispidus:6.0, Orthogeomys\_grandis:6.0, Orthogeomys\_cherriei:6.0, Orthogeomys\_underwoodi:6.0, Orthogeomys\_dariensis:6.0, Orthogeomys\_cavator:6.0, Orthogeomys\_cuniculus:6.0, Orthogeomys\_lanius:6.0, Orthogeomys\_matagalpae:6.0, Orthogeomys\_thaeleri:6.0)'405\_Orthogeomys':8.8, Zygogeomys\_trichopus:14.8)'404\_Geomyidae3':2.3)'391':4.8)'386':8.3)'380':13.3)'347':28.0)'345':10.7)'12':3.0, ((Octodon\_bridgesi:3.7, Octodon\_lunatus:3.7, Octodon\_degus:3.7)'408\_Octodontidae1':Octodon':43.4, ((Massoutiera\_mzabi:15.5, Pectinator\_spekei:15.5, (Ctenodactylus\_gundi:4.5, Ctenodactylus\_vali:4.5)'411\_Ctenodactylus':11.0)'410':7.2, Felovia\_vae:22.7)'409\_Ctenodactylidae':24.4)'407':12.7, ((Tympanoctomys\_barrerae:19.7, Octomys\_mimax:19.7)'413\_Octodontidae2':28.8, ((Ctenomys\_conoveri:13.3, Ctenomys\_frater:13.3, Ctenomys\_boliviensis:13.3, Ctenomys\_steinbachi:13.3, Ctenomys\_haigi:13.3, Ctenomys\_leucodon:13.3, Ctenomys\_opimus:13.3, Ctenomys\_mendocinus:13.3, Ctenomys\_pearsoni:13.3, Ctenomys\_torquatus:13.3, Ctenomys\_lewisi:13.3, Ctenomys\_sociabilis:13.3, Ctenomys\_tuconax:13.3, Ctenomys\_talarum:13.3, Ctenomys\_bonettoi:13.3, Ctenomys\_azarae:13.3, Ctenomys\_tucumanus:13.3, Ctenomys\_nattereri:13.3, Ctenomys\_argentinus:13.3, Ctenomys\_occultus:13.3, Ctenomys\_latro:13.3, Ctenomys\_magellanicus:13.3, Ctenomys\_perrensis:13.3, Ctenomys\_maulinus:13.3, Ctenomys\_australis:13.3, Ctenomys\_porteouisi:13.3, Ctenomys\_fulvus:13.3, Ctenomys\_brasiliensis:13.3, Ctenomys\_colburni:13.3, Ctenomys\_dorsalis:13.3, Ctenomys\_emilianus:13.3, Ctenomys\_knighti:13.3, Ctenomys\_minutus:13.3, Ctenomys\_peruanus:13.3, Ctenomys\_pontifex:13.3, Ctenomys\_saltarius:13.3, Ctenomys\_sericeus:13.3, Ctenomys\_validus:13.3)'415\_Ctenomyidae\_Ctenomys\_minutus':13.3, Ctenomys\_peruanus:13.3, Ctenomys\_pontifex:13.3, Ctenomys\_saltarius:13.3, Ctenomys\_sericeus:13.3, Ctenomys\_validus:13.3)'415\_Ctenomyidae\_Ctenomys\_minutus':13.3, Ctenomys\_peruanus:13.3, Ctenomys\_pontifex:13.3, Ctenomys\_saltarius:13.3, Ctenomys\_sericeus:13.3, Ctenomys\_validus:13.3)'415\_Ctenomyidae\_Cte')

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oendou\_bicolor:3.4,Coendou\_prehensilis:3.4,Coendou\_koopmani:3.4,Coendou\_rothschildi:3.4)'457\_Coendou':8.8)'455\_Erethizontidae':35.9,(Lagostomus\_maximus:17.3,((Chinchilla\_lanigera:6.5,Chinchilla\_brevicaudata:6.5)'460\_Chinchilla':8.8,(Lagidium\_peruanum:10.3,Lagidium\_visccacia:10.3,Lagidium\_wolffsohni:10.3)'461\_Lagidium':5.0)'459':2.0)'458\_Chinchillidae':30.8)'416':0.2)'414':0.2,(Spalacopus\_cyanus:47.6,Octodontomys\_gliroides:47.6)'462\_Octodontidae3\*:0.9,(Aconaemys\_sagei:7.8,Aconaemys\_fuscus:7.8)'463\_Octodontidae4\*:Aconaemys':40.7)'412':11.3)'406':25.4)'11':0.2,((Apodemus\_rufa:64.4,(((((((Marmota\_menzbieri:2.2,Marmota\_caudata:2.2)'478':0.7,((Marmota\_baibacina:2.0,Marmota\_bobak:2.0)'480':0.4,((Marmota\_camtschatica:1.7,Marmota\_himalayana:1.7)'482':0.2,Marmota\_sibirica:1.9)'481':0.5)'479':0.5)'477':0.5,(Marmota\_broweri:2.2,Marmota\_marmota:2.2)'483':1.2)'476':0.2,Marmota\_monax:3.6)'475':1.3,(Marmota\_flaviventris:1.8,(Marmota\_olympus:0.7,Marmota\_caligata:0.7,Marmota\_vancouverensis:0.7)'485':1.1)'484':3.1)'474\_Marmota':5.5,(((((((Spermophilus\_undulatus:1.4,Spermophilus\_columbianus:1.4)'497':1.1,Spermophilus\_parryii:2.5,((Spermophilus\_richardsonii:2.2,Spermophilus\_armatus:2.2)'499':0.2,Spermophilus\_atricapillus:2.4)'498':0.1)'496':1.0,((Spermophilus\_tridecemlineatus:2.1,Spermophilus\_perotensis:2.1)'501':0.7,Spermophilus\_franklinii:2.8)'500':0.7,Spermophilus\_washingtoni:3.5)'495':0.4,((((Spermophilus\_dauricus:2.9,Spermophilus\_spilosoma:2.9)'507':0.3,Spermophilus\_beecheyi:3.2)'506':0.1,Spermophilus\_madrensis:3.3)'505':0.2,((Spermophilus\_major:3.0,Spermophilus\_citellus:3.0)'509':0.3,Spermophilus\_fulvus:3.3)'508':0.2,(Spermophilus\_xanthoprymnus:3.4,((Spermophilus\_pygmaeus:2.8,Spermophilus\_relictus:2.8,Spermophilus\_erythrogenys:2.8)'512':0.4,Spermophilus\_suslicus:3.2,Spermophilus\_musicus:3.2,Spermophilus\_beldingi:3.2,Spermophilus\_adocetus:3.2,Spermophilus\_mollis:3.2)'511':0.2)'510':0.1)'504':0.1,Spermophilus\_alashanicus:3.6)'503':0.1,(Spermophilus\_brunneus:2.9,Spermophilus\_townsendii:2.9)'513':0.8)'502':0.2)'494':0.5,Spermophilus\_tereticaudus:4.4)'493':0.2,Spermophilus\_canus:4.6)'492':0.7,Spermophilus\_mohavensis:5.3)'491':0.9,Spermophilus\_annulatus:6.2)'490':0.5,Spermophilus\_saturatus:6.7)'489':0.2,Spermophilus\_mexicanus:6.9)'488':0.1,Spermophilus\_elegans:7.0)'487':1.0,(Spermophilus\_lateralis:5.2,Spermophilus\_variegatus:5.2)'514':2.8)'486\_Spermophilus':2.4,((Cynomys\_gunnisoni:3.7,(Cynomys\_leucurus:1.7,Cynomys\_parvidens:1.7)'517':2.0)'516':0.4,(Cynomys\_ludovicianus:0.7,Cynomys\_mexicanus:0.7)'518':3.4)'515\_Cynomys':6.3)'473':7.0,((Ammospermophilus\_leucurus:1.5,Ammospermophilus\_nelsoni:1.5,Ammospermophilus\_interpres:1.5,Ammospermophilus\_harrisii:1.5)'520':0.8,Ammospermophilus\_insularis:2.3)'519\_Ammospermophilus':15.1)'472':12.1,(Tamias\_striatus:19.4,(Tamias\_sibiricus:18.1,(((Tamias\_amoenus:9.4,(Tamias\_quadrivittatus:9.2,(Tamias\_durangae:7.4,Tamias\_canipes:7.4)'529':1.8)'528':0.2)'527':0.1,(Tamias\_bulleri:7.8,(Tamias\_rufus:6.5,((Tamias\_quadrivittatus:2.7,Tamias\_dorsalis:2.7)'534':0.5,Tamias\_cinereicollis:3.2)'533':0.6,(Tamias\_palmeri:2.9,Tamias\_umbrinus:2.9)'535':0.9)'532':2.7)'531':1.3)'530':1.7)'526':0.4,(Tamias\_townsendii:7.2,(Tamias\_senex:3.2,Tamias\_sonomae:3.2)'538':4.0)'537':0.1,Tamias\_siskiyou:7.3)'536':2.6)'525':1.6,(Tamias\_merriami:4.5,Tamias\_obscurus:4.5)'539':7.0)'524':4.9,(((Tamias\_ruficaudus:9.0,Tamias\_ochrogenys:9.0)'543':0.2,Tamias\_speciosus:9.2)'542':0.5,(Tamias\_minimus:4.2,Tamias\_alpinus:4.2)'544':5.5)'541':2.7,Tamias\_panamintinus:12.4)'540':4.0)'523':1.7)'522':1.3)'521\_Tamias':10.1)'471':3.6,(Myosciurus\_pumilio:25.6,((Heliosciurus\_rwenzorii:14.4,Heliosciurus\_gambianus:14.4,Heliosciurus\_mutabilis:14.4,Heliosciurus\_punctatus:14.4,Heliosciurus\_rufobrachium:14.4,Heliosciurus\_undulatus:14.4)'547\_Heliosciurus':8.7,((Epixerus\_wilsoni:6.2,Epixerus\_ebii:6.2)'550\_Epixerus':11.9,(Protoxerus\_stangeri:6.2,Protoxerus\_aubinnii:6.2)'551\_Protoxerus':11.9)'549':2.9,((Funisciurus\_pyrropus:14.1,Funisciurus\_anerythrus:14.1,Funisciurus\_bayonii:14.1,Funisciurus\_carruthersi:14.1,Funisciurus\_conicus:14.1,Funisciurus\_isabella:14.1,Funisciurus\_lemniscatus:14.1,Funisciurus\_leucogenys:14.1,Funisciurus\_substriatus:14.1)'553\_Funisciurus':2.4,(Paraxerus\_alexandri:15.1,Paraxerus\_boehmi:15.1,Paraxerus\_cepapi:15.1,Paraxerus\_cooperi:15.1,Paraxerus\_flavovittis:15.1,Paraxerus\_lucifer:15.1,Paraxerus\_ochraceus:15.1,Paraxerus\_pallidus:15.1,Paraxerus\_poensis:15.1,Paraxerus\_vexillarius:15.1,Paraxerus\_vincenti:15.1)'554\_Paraxerus':1.4)'552':4.5)'548':2.1)'546':2.5)'545':7.5)'470':0.2,(Sciurotamias\_davidianus:5.6,Sciurotamias\_forresti:5.6)'555\_Sciurotamias

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,*Prosciurillus\_weberi*:15.0)'657\_*Prosciurillus*':5.5,*Rubrisciurus\_rubriventer*:20.5)'656

':5.7)'654\_Sciurinae9\*:10.0,Nannosciurus\_melanotis:36.2,(Sundasciurus\_brookei:21.8,Sundasciurus\_jentinki:21.8,Sundasciurus\_davensis:21.8,Sundasciurus\_fra  
terculus:21.8,Sundasciurus\_hippurus:21.8,Sundasciurus\_hoogstraali:21.8,Sundasciurus\_juvencus:21.8,Sundasciurus\_lowii:21.8,Sundasciurus\_mindanensis:21.8,Sundasciurus\_moellendorffii:21.8,Sundasciurus\_philippinensis:21.8,Sundasciurus\_rabori:21.8,Sundasciurus\_samarensis:21.8,Sundasciurus\_steerii:21.8,Sundasciurus\_tenuis:21.8)'658\_Sciurinae10\*:Sundasciurus':14.4)'560':0.2,(Callosciurus\_nigrovittatus:9.8,Callosciurus\_albescens:9.8,Callosciurus\_pygerythrus:9.8)'659\_Sciurinae11\*:Callosciurus2\*:26.6)'559':12.4)'467':0.2,Sciurillus\_pusillus:49.0)'466\_Sciuridae':15.4)'465':13.5,(((Dryomys\_laniger:19.0,Dryomys\_nitedula:19.0,Dryomys\_sichuanensis:19.0)'664\_Dryomys':22.7,(Eliomys\_melanurus:23.8,Eliomys\_quercinus:23.8)'665\_Eliomys':17.9)'663':0.2,(Myomimus\_personatus:19.2,Myomimus\_roachi:19.2,Myomimus\_setzeri:19.2)'667\_Myomimus':4.1,Selevinia\_betpakdalaensis:23.3)'666':18.6)'662\_Leithiinae':0.1,Muscardinus\_avellanarius:42.0)'661':12.0,((Myoxus\_glis:37.4,Glirulus\_japonicus:37.4)'669\_Myoxinae':16.3,((Graphiurus\_christyi:19.2,Graphiurus\_kelleni:19.2,Graphiurus\_lorraineus:19.2,Graphiurus\_microtis:19.2,Graphiurus\_monardi:19.2,Graphiurus\_murinus:19.2,Graphiurus\_ocularis:19.2,Graphiurus\_olga:19.2,Graphiurus\_parvus:19.2,Graphiurus\_platyops:19.2,Graphiurus\_rupicola:19.2,Graphiurus\_surdus:19.2)'672':15.8,Graphiurus\_crassicaudatus:35.0)'671':7.0,Graphiurus\_hueti:42.0)'670\_Graphiurinae:Graphiurus':11.7)'668':0.3)'660\_Myoxidae':23.9)'464':7.5)'10\_Rodentia':4.7,(((Brachylagus\_idahoensis:19.2,Nesolagus\_netscheri:19.2)'679':7.2,(((Sylvilagus\_aquaticus:6.0,(Sylvilagus\_brasiliensis:3.9,Sylvilagus\_dicei:3.9)'685':2.1,Sylvilagus\_insonus:6.0,Sylvilagus\_palustris:6.0)'684':6.7,((Sylvilagus\_cunicularius:4.7,Sylvilagus\_graysoni:4.7)'687':3.0,Sylvilagus\_floridanus:7.7)'686':5.0)'683':3.3,Sylvilagus\_transitionalis:16.0)'682':0.2,(Sylvilagus\_auduboni:9.8,Sylvilagus\_nuttallii:9.8)'688':6.4)'681':4.8,(Sylvilagus\_bachmani:6.3,Sylvilagus\_mansuetus:6.3)'689':14.7)'680\_Sylvilagus':5.4)'678':5.4,((Caprolagus\_hispidus:5.5,Poelagus\_marjorita:5.5)'691':20.8,(((((((Lepus\_alleni:1.5,(Lepus\_callotis:1.3,Lepus\_flavigularis:1.3)'702':0.2)'701':0.2,(Lepus\_californicus:1.4,Lepus\_insularis:1.4)'703':0.3)'700':6.1,Lepus\_americanus:7.8)'699':0.5,(((Lepus\_arcticus:1.7,(Lepus\_othus:1.5,Lepus\_timidus:1.5)'708':0.2)'707':1.3,Lepus\_townsendii:3.0)'706':2.8,((Lepus\_brachyrurus:5.5,Lepus\_mandshuricus:5.5)'710':0.2,(Lepus\_coreanus:2.3,Lepus\_sinensis:2.3)'711':3.4)'709':0.1)'705':2.0,((Lepus\_castroviejoi:2.1,Lepus\_corsicanus:2.1)'714':1.2,Lepus\_europaeus:3.3)'713':0.9,Lepus\_granatensis:4.2)'712':3.6)'704':0.5)'698':0.2,(Lepus\_comus:4.5,Lepus\_oostolus:4.5)'715':4.0)'697':1.5,((Lepus\_capensis:2.3,Lepus\_tolai:2.3)'717':1.9,Lepus\_starckii:4.2)'716':5.8)'696':2.8,Lepus\_yarkandensis:12.8)'695':0.1,(Lepus\_fagani:5.9,(Lepus\_saxatilis:3.3,Lepus\_victoriae:3.3)'719':2.6)'718':7.0)'694':0.2,(Lepus\_hainanus:7.2,(Lepus\_nigricollis:4.4,Lepus\_paguensis:4.4)'721':2.8)'720':5.9)'693\_Lepus':13.0,Oryctolagus\_cuniculus:26.1)'692':0.2)'690':5.5)'677':0.1,Bunolagus\_monticularis:31.9)'676':0.2,Romerolagus diazi:32.1)'675':2.5,(Pentalagus\_furnessi:26.9,((Pronolagus\_crassicaudatus:9.1,Pronolagus\_rupestris:9.1)'724':0.3,Pronolagus\_randensis:9.4)'723\_Pronolagus':17.5)'722':7.7)'674\_Leporidae':34.1,((((Ochotona\_alpina:5.2,Ochotona\_hyperborea:5.2)'732':7.9),(Ochotona\_collaris:8.8,Ochotona\_princeps:8.8)'733':4.3)'731':0.2,Ochotona\_pallasi:13.3)'730':0.1,Ochotona\_erythrotis:13.4)'729':0.3,(((Ochotona\_gloveri:4.7,Ochotona\_muliensis:4.7)'737':4.7,(Ochotona\_ladacensis:4.7,Ochotona\_rutila:4.7)'738':4.7)'736':2.5,Ochotona\_koslowi:11.9)'735':1.2,Ochotona\_rufescens:13.1)'734':0.6)'728':1.2,(Ochotona\_himalayana:12.2,(Ochotona\_ilienensis:8.0,(Ochotona\_macrotis:3.4,Ochotona\_roylei:3.4)'741':4.6)'740':4.2)'739':2.7)'727':11.9,(((Ochotona\_census:9.2,((Ochotona\_forresti:3.9,Ochotona\_gaoligongensis:3.9)'747':2.5,Ochotona\_thomasi:6.4)'746':1.1,Ochotona\_thibetana:7.5)'745':1.7)'744':0.2,Ochotona\_nubrica:9.4)'743':1.5,(Ochotona\_cu  
rzonae:9.2,Ochotona\_dauurica:9.2)'748':1.7)'742':15.9)'726':11.8,Ochotona\_pusilla:38.6)'725\_Ochotonidae\_Ochotona':30.1)'673\_Lagomorpha':21.4)'9':3.7,(((Allenopithecus\_nigroviridis:16.0,((((Cercopithecus\_ascanius:13.8,Cercopithecus\_cephus:13.8,Cercopithecus\_erythrogaster:13.8,Cercopithecus\_erythrotis:13.8,Cercopithecus\_petaurista:13.8,Cercopithecus\_sclateri:13.8)'763':0.1,(Cercopithecus\_mitis:9.9,Cercopithecus\_nictitans:9.9)'764':4.0)'762':0.2,((Cerc

opithecus\_campbelli:5.1,Cercopithecus\_mona:5.1)'766':8.7,((Cercopithecus\_pogonias:1.9,Cercopithecus\_wolfi:1.9)'767':11.9)'765':0.3,((Cercopithecus\_diana:3.6,Cercopithecus\_dryas:3.6)'768':10.5,Cercopithecus\_neglectus:14.1)'761':1.5,Cercopithecus\_hamlyni:15.6)'760\_Cercopithecus\*:0.2,(((Cercopithecus\_lhoesti:0.6,Cercopithecus\_preussi:0.6)'772':3.4,Cercopithecus\_solatus:4.0)'771\_Cercopithecus2\*:1.4,Chlorocebus\_aethiops:5.4)'770':3.6,Erythrocebus\_patas:9.0)'769':6.8)'759':0.1,Miopithecus\_talapoin:15.9)'758':0.1)'757':4.1,(((Cercocebus\_agilis:4.5,Cercocebus\_galeritus:4.5)'776\_Cercocebus\*:6.5,Cercocebus\_torquatus:11.0,(Mandrillus\_leucophaeus:2.9,Mandrillus\_sphinx:2.9)'777\_Mandrillus':8.1)'775':5.2,(Lophocebus\_albigena:12.7,(Papio\_hamadryas:10.9,Theropithecus\_gelada:10.9)'779':1.8)'778':3.5)'774':1.1,(((Macaca\_arctoides:9.0,((Macaca\_assamensis:5.5,Macaca\_thibetana:5.5)'784':3.3,(Macaca\_radiata:8.7,Macaca\_sinica:8.7)'785':0.1)'783':0.2)'782':0.1,(((Macaca\_cyclopis:6.9,Macaca\_mulatta:6.9)'788':0.2,Macaca\_fuscata:7.1)'787':1.5,Macaca\_fascicularis:8.6)'786':0.5)'781':0.6,((Macaca\_maura:7.1,(Macaca\_nigra:5.3,Macaca\_ochreata:5.3)'791':1.8,Macaca\_tonkeana:7.1)'790':2.4,(Macaca\_nemestrina:4.3,Macaca\_silenus:4.3)'792':5.2)'789':0.2,Macaca\_sylvanus:9.7)'780\_Macaca':7.6)'773':2.8)'756\_Cercopithecinae':2.5,(((Colobus\_angolensis:4.0,(Colobus\_guereza:0.9,Colobus\_polykomos:0.9)'797':3.1)'796':3.0,Colobus\_satanas:7.0)'795\_Colobus':3.0,(((Procolobus\_badius:3.2,Procolobus\_preussi:3.2)'800':3.7,Procolobus\_pennantii:6.9,Procolobus\_rufomitratus:6.9)'799':1.9,Procolobus\_verus:8.8)'798\_Procolobus':1.2)'794':5.3,((Nasalis\_concolor:3.3,Nasalis\_larvatus:3.3)'802\_Nasalis':6.9,(((Presbytis\_comata:3.8,Presbytis\_hosei:3.8,Presbytis\_thomasi:3.8)'806':3.6,(Presbytis\_femoralis:2.4,Presbytis\_melalophos:2.4)'807':5.0,Presbytis\_frontata:7.4,Presbytis\_potenziani:7.4,Presbytis\_rubicunda:7.4)'805\_Presbytis':2.1,Semnopithecus\_entellus:9.5,(Trachypithecus\_auratus:4.6,Trachypithecus\_cristatus:4.6,Trachypithecus\_francoisi:4.6,(Trachypithecus\_geei:0.4,Trachypithecus\_pileatus:0.4)'809':4.2,Trachypithecus\_obscurus:4.6,Trachypithecus\_phayrei:4.6)'808\_Trac'hypithecus\*:4.9,Trachypithecus\_johnii:9.5,Trachypithecus\_vetus:9.5)'804':0.5,((Pygathrix\_avunculus:4.5,(Pygathrix\_bieti:4.4,Pygathrix\_brelichi:4.4,Pygathrix\_roxellana:4.4)'812':0.1)'811':4.7,Pygathrix\_nemaeus:9.2)'810\_Pygathrix':0.8)'803':0.2)'801':5.1)'793\_Colobinae':7.3)'755\_Cercopithecidae':14.5,((Gorilla\_gorilla:13.1,(Homo\_sapiens:9.5,(Pan\_paniscus:5.5,Pan\_troglodytes:5.5)'817\_Pan':4.0)'816':3.6)'815':6.1,Pongo\_pygmaeus:19.2)'814\_Hominidae':3.9,((((Hylobates\_agilis:5.0,Hylobates\_lar:5.0,Hylobates\_moloch:5.0,Hylobates\_muelleri:5.0,Hylobates\_pileatus:5.0)'822':0.2,Hylobates\_klossii:5.2)'821':3.2,Hylobates\_hoolock:8.4)'820':2.2,Hylobates\_syndactylus:10.6)'819':0.1,((Hylobates\_concolor:3.2,Hylobates\_leucogenys:3.2)'824':4.5,Hylobates\_gabriellae:7.7)'823':3.0)'818\_Hylobatidae\_Hylobates':12.4)'813':14.0)'754':18.3,(((Alouatta\_belzebul:7.4,Alouatta\_caraya:7.4,(Alouatta\_coibensis:3.3,Alouatta\_palliata:3.3)'829':4.1,Alouatta\_fusca:7.4,Alouatta\_pigra:7.4,(Alouatta\_sara:5.4,Alouatta\_seniculus:5.4)'830':2.0)'828\_Alouattinae\_Alouatta':14.0,((Ateles\_belzebuth:5.9,(Ateles\_chamek:3.4,Ateles\_marginatus:3.4)'835':2.5)'834':9.4,(Ateles\_fusciceps:15.2,Ateles\_geoffroyi:15.2)'836':0.1)'833':0.2,Ateles\_paniscus:15.5)'832\_Ateles':4.2,(Brachyteles\_arachnoides:19.5,(Lagothrix\_flavicauda:8.0,Lagothrix\_lagotricha:8.0)'838\_Lagothrix':11.5)'837':0.2)'831\_Atelinae':1.7)'827':1.9,((Cacajao\_calvus:3.8,Cacajao\_melanocephalus:3.8)'842\_Cacajao':2.3,(Chiropotes\_albinasus:3.8,Chiropotes\_satanas:3.8)'843\_Chiropotes':2.3)'841':4.0,(Pithecia\_aequatorialis:9.9,(Pithecia\_albicans:6.6,Pithecia\_irrorata:6.6,Pithecia\_monachus:6.6)'845':3.3,Pithecia\_pithecia:9.9)'844\_Pithecia':0.2)'840\_Pitheciinae':13.0,((Callicebus\_brunneus:2.6,Callicebus\_hoffmannsi:2.6)'848':0.2,(Callicebus\_cinerascens:2.6,Callicebus\_moloch:2.6)'849':0.2)'847':8.4,(((Callicebus\_caligatus:3.8,Callicebus\_cupreus:3.8)'852':2.5,Callicebus\_dubius:6.3)'851':4.7,(Callicebus\_donacophilus:7.7,Callicebus\_modestus:7.7,Callicebus\_oenanthe:7.7,Callicebus\_olallae:7.7)'854':1.5,Callicebus\_torquatus:9.2)'853':1.8)'850':0.2)'846\_Callicebinae\*Callicebus\*:11.9)'839':0.2)'826\_Cebidae1\*:3.3,(Aotus\_azrai:23.5,Aotus\_brumbacki:23.5,Aotus\_hershkovitzi:23.5,Aotus\_infusatus:23.5,Aotus\_lemurinus:23.5,Aotus\_miconax:23.5,Aotus\_nancymaae:23.5,Aotus\_nigriceps:23.5,Aotus\_trivirgatus:23.5,Aotus\_vociferans:23.5,Callicebus\_personatus:23.5,((Callimico\_goeldii:14.2,((Callithrix\_argentata:1.1,Callithrix\_humeralifera:1.1)'861':

5.5, *Callithrix\_pygmaea*:6.6)'860':0.6, ((*Callithrix\_aurita*:2.7, *Callithrix\_flaviceps*:2.7)'863':0.8, ((*Callithrix\_geoffroyi*:1.2, *Callithrix\_kuhlii*:1.2)'865':0.7, (*Callithrix\_jacchus*:1.2, *Callithrix\_penicillata*:1.2)'866':0.7)'864':1.6)'862':3.7)'859\_ *Callithrix*'7.0)'858':1.9, (((*Leontopithecus\_caissara*:2.1, *Leontopithecus\_chrysopygus*:2.1)'869':0.1, *Leontopithecus\_rosalia*:2.2)'868':0.2, *Leontopithecus\_chrysomelas*:2.4)'867\_ *Leontopithecus*'13.7)'857':1.6, (((*Saguinus\_bicolor*:3.0, *Saguinus\_midas*:3.0)'872':3.6, (((*Saguinus\_geoffroyi*:1.0, *Saguinus\_oedipus*:1.0)'875':2.6, *Saguinus\_leucopus*:3.6)'874':2.8, (*Saguinus\_imperator*:4.3, (*Saguinus\_labiatus*:2.5, *Saguinus\_mystax*:2.5)'877':1.8)'876':2.1)'873':0.2)'871':2.0, (*Saguinus\_fuscicollis*:3.4, *Saguinus\_tripartitus*:3.4)'879':2.5, *Saguinus\_nigrilis*:5.9)'878':2.7, *Saguinus\_inustus*:8.6)'870\_ *Saguinus*'9.1)'856\_ *Callitrichidae*'5.8, (((*Cebus\_albifrons*:3.0, *Cebus\_capucinus*:3.0)'883':0.2, *Cebus\_olivaceus*:3.2)'882':6.6, *Cebus\_apella*:9.8)'881\_ *Cebus*'10.2, ((*Saimiri\_boliviensis*:4.1, *Saimiri\_vanzolinii*:4.1)'885':0.2, (*Saimiri\_oerstedii*:1.6, *Saimiri\_sciureus*:1.6, *Saimiri\_ustus*:1.6)'886':2.7)'884\_ *Saimiri*'15.7)'880\_ *Cebidae2*\* *Cebinae*'3.5)'855':3.1)'825':28.8)'753':29.8, (*Tarsius\_bancaeus*:15.6, *Tarsius\_dianae*:15.6, *Tarsius\_pumilus*:15.6, *Tarsius\_spectrum*:15.6, *Tarsius\_syrichta*:15.6)'887\_ *Tarsiidae* *Tarsius*'69.6)'752':1.9, (((((*Allocebus\_trichotis*:27.4, (*Microcebus\_coquereli*:24.1, (*Microcebus\_murinus*:12.8, *Microcebus\_rufus*:12.8)'894':11.3)'893\_ *Microcebus*'3.3)'892':9.5, (*Cheirogaleus\_major*:22.9, *Cheirogaleus\_medium*:22.9)'895\_ *Cheirogaleus*'14.0)'891\_ *Cheirogaleinae*'0.2, *Phaner\_furcifer*:37.1)'890\_ *Cheirogaleidae*'16.1, (((((*Avahi\_laniger*:30.6, (*Propithecus\_diadema*:8.9, *Propithecus\_tattersalli*:8.9, *Propithecus\_verreauxi*:8.9)'900\_ *Propithecus*'21.7)'899':1.5, *Indri\_indri*:32.1)'898\_ *Indridae*'13.2, *Daubentonias\_madagascariensis*:45.3)'897':1.1, ((*Eulemur\_coronatus*:9.7, ((*Eulemur\_fulvus*:7.8, *Eulemur\_macaco*:7.8)'904':0.6, (*Eulemur\_mongez*:8.3, *Eulemur\_rubriventer*:8.3)'905':0.1)'903':1.3)'902\_ *Eulemur*'18.7, (*Hapalemur\_aureus*:20.4, *Hapalemur\_griseus*:20.4, *Hapalemur\_simus*:20.4)'906\_ *Hapalemur*'8.0, *Lemur\_catta*:28.4, *Varecia\_variegata*:28.4)'901\_ *Lemuridae*'18.0, (*Lepilemur\_dorsalis*:14.3, *Lepilemur\_edwardsi*:14.3, *Lepilemur\_leucopus*:14.3, *Lepilemur\_microdon*:14.3, *Lepilemur\_mustelinus*:14.3, *Lepilemur\_ruficaudatus*:14.3, *Lepilemur\_septentrionalis*:14.3)'907\_ *Megaladapidae* *Lepilemur*'32.1)'896':6.8)'889':23.6, (((((*Arctocebus\_aureus*:13.2, *Arctocebus\_calabarensis*:13.2)'911\_ *Arctocebus*'7.4, *Perodicticus\_potto*:20.6)'910':17.5, (*Loris\_tardigradus*:37.9, (*Nycticebus\_coucang*:16.9, *Nycticebus\_pygmaeus*:16.9)'913\_ *Nycticebus*'21.0)'912':0.2)'909\_ *Loridae*'10.2, (((((*Euoticus\_elegantulus*:7.7, *Euoticus\_pallidus*:7.7)'918\_ *Euoticus*'12.9, *Galago\_gallarum*:20.6, *Galago\_matschiei*:20.6, (*Galago\_moholi*:16.2, *Galago\_senegalensis*:16.2)'919\_ *Galago*\*':4.4, (*Otolemur\_crassicaudatus*:4.9, *Otolemur\_garnettii*:4.9)'920\_ *Otolemur*'15.7)'917':0.2, *Galago\_alleni*:20.8)'916':6.4, *Galagooides\_demidoff*:27.2)'915':0.2, *Galagooides\_zanzibaricus*:27.4)'914\_ *Galagonidae*'20.9)'908':28.5)'888':10.3)'751\_ *Primates*'3.9, (*Cynocephalus\_variegatus*:19.9, *Cynocephalus\_volans*:19.9)'921\_ *Dermoptera* *Cynocephalidae* *Cynocephalus*'71.1)'750':2.6, (*Ptilocercus\_lowii*:34.7, ((*Anathana\_elliotti*:6.9, *Urogale\_everetti*:6.9)'924':27.7, ((*Dendrogale\_melanura*:6.3, *Dendrogale\_murina*:6.3)'926\_ *Dendrogale*'28.1, (*Tupaia\_belanteri*:34.3, *Tupaia\_chrysogaster*:34.3, *Tupaia\_dorsalis*:34.3, *Tupaia\_glis*:34.3, *Tupaia\_gracilis*:34.3, *Tupaia\_javanica*:34.3, *Tupaia\_longipes*:34.3, *Tupaia\_minor*:34.3, *Tupaia\_montana*:34.3, *Tupaia\_nicobarica*:34.3, *Tupaia\_palawanensis*:34.3, *Tupaia\_picta*:34.3, *Tupaia\_splendidula*:34.3, *Tupaia\_tana*:34.3)'927\_ *Tupaia*'0.1)'925':0.2)'923\_ *Tupaia*':0.1)'922\_ *Scandentia* *Tupaiidae*'58.9)'749':0.2)'8\_ *Euarchontoglires*'4.6, ((((((((((*Addax\_nasomaculatus*:10.8, (*Oryx\_dammah*:4.0, *Oryx\_gazella*:4.0, *Oryx\_leucoryx*:4.0)'944\_ *Oryx*'6.8)'943':1.8, (*Hippotragus\_equinus*:5.3, *Hippotragus\_niger*:5.3)'945\_ *Hippotragus*'7.3)'942\_ *Hippotraginae*'9.8, ((*Alcelaphus\_buselaphus*:2.8, *Sigmoceros\_lichtensteinii*:2.8)'947':13.0, (*Connochaetes\_gnou*:6.1, *Connochaetes\_taurinus*:6.1)'948\_ *Connochaetes*'9.7, (*Damaliscus\_hunteri*:13.1, (*Damaliscus\_lunatus*:11.6, *Damaliscus\_pygargus*:11.6)'950':1.5)'949\_ *Damaliscus*'2.7)'946\_ *Alcelaphinae*'6.6)'941':2.1, (((*Ammotragus\_lervia*:17.0, ((*Budorcas taxicolor*:16.7, ((*Ovis\_ammon*:3.3, (*Ovis\_aries*:1.3, *Ovis\_vignei*:1.3)'958':2.0)'957':4.8, (*Ovis\_canadensis*:3.7, (*Ovis\_dalli*:3.5, *Ovis\_nivicola*:3.5)'960':0.2)'959':4.4)'956\_ *Ovis*'8.6)'955':0.2, ((*Capra\_caucasica*:10.5, *Capra\_cylindricornis*:10.5, *Capra\_falconeri*:10.5, *Capra\_hircus*:10.5, *Capra\_ibex*:10.5, *Capra\_nubiana*:10.5, *Capra\_pyrenaica*:10.5, *Capra\_sibirica*:10.5, *Capra\_walie*:10.5, (*Hemitragus\_hylocrius*

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3.8)'1023\_Cervidae':9.6, ((*Moschus\_berezovskii*:9.0, (*Moschus\_chrysogaster*:0.2, *Moschus\_fuscus*:0.2)'1045':8.8)'1044':2.3, *Moschus\_moschiferus*:11.3)'1043\_*Moschidae\_Moschus*':20.4)'1022':0.2)'937':0.1, (*Antilocapra\_americana*:23.2, (*Giraffa\_camelopardalis*:9.0, *Okapia\_johnstoni*:9.0)'1047\_*Giraffidae*':14.2)'1046':8.8)'936':24.9, (*Hyemoschus\_aquaticus*:25.1, *Moschiola\_meminna*:25.1, (*Tragulus\_javanicus*:24.8, *Tragulus\_napu*:24.8)'1049\_*Tragulus*':0.3)'1048\_*Tragulidae*':31.8)'935':7.0, ((((((((*Australophocaena\_dioptrica*:17.1, *Neophocaena\_phocaenoides*:17.1, *Phocoena\_phocoena*:17.1, (*Phocoena.sinus*:8.1, *Phocoena\_spinipinnis*:8.1)'1059\_*Phocoena*\*':9.0, *Phocoenoides\_dalli*:17.1)'1058\_*Phocoenidae*':15.0, (((((*Cephalorhynchus\_commersonii*:2.9, *Cephalorhynchus\_eutropia*:2.9)'1065':2.8, *Cephalorhynchus\_hectori*:5.7)'1064':3.0, *Cephalorhynchus\_heavisidii*:8.7)'1063\_*Cephalorhynchus*':3.5, (*Lagenorhynchus\_australis*:9.7, 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*Steno\_bredanensis*:21.3)'1060\_*Delphinidae*':10.8)'1057':1.6, (*Delphinapterus\_leucas*:20.6, *Monodon\_monoceros*:20.6)'1076\_*Monodontidae*':13.1)'1056':9.0, ((*Inia\_geoffrensis*:35.1, *Pontoporia\_blainvilliei*:35.1)'1078':6.9, *Lipotes\_vexillifer*:42.0)'1077\_*Platanistidae*':0.7)'1055':9.4, (*Berardius\_arnuxii*:36.2, *Berardius\_bairdii*:36.2, *Hyperoodon\_ampullatus*:36.2, *Hyperoodon\_planifrons*:36.2, *Indopacetus\_pacificus*:36.2, *Mesoplodon\_bidens*:36.2, *Mesoplodon\_bowdoini*:36.2, *Mesoplodon\_carlhubbsi*:36.2, *Mesoplodon\_densirostris*:36.2, *Mesoplodon\_europaeus*:36.2, *Mesoplodon\_ginkgodens*:36.2, *Mesoplodon\_grayi*:36.2, *Mesoplodon\_hectori*:36.2, *Mesoplodon\_layardii*:36.2, *Mesoplodon\_mirus*:36.2, *Mesoplodon\_peruvianus*:36.2, *Mesoplodon\_stejnegeri*:36.2, *Tasmacetus\_shepherdi*:36.2, *Ziphius\_cavirostris*:36.2)'1079\_*Ziphiidae*':15.9)'1054':1.0, (*Platanista\_gangetica*:2.2, *Platanista\_minor*:2.2)'1080\_*Platanistidae*':50.9)'1053':1.3, 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uus\_onager:16.2)'1117':33.3)'1115':0.2,Equus\_caballus:49.7)'1114\_Equidae\_Equus':10.8)'1106\_Perissodactyla':24.3)'931':1.0,(((((((((Mustela\_lutreola:4.5, Mustela\_lutreolina:4.5, Mustela\_nudipes:4.5, Mustela\_sibirica:4.5, Mustela\_st rigidorsa:4.5)'1131':0.2,((Mustela\_eversmannii:2.9, Mustela\_nigripes:2.9)'1133':1.6, Mustela\_putorius:4.5)'1132':0.2)'1130':7.8,(((Mustela\_altaica:8.8, Mustela\_erminea:8.8)'1137':3.3, Mustela\_frenata:12.1, Mustela\_nivalis:12.1)'1136':0.1, (Mustela\_africana:3.9, Mustela\_felipei:3.9)'1138':8.3)'1135':0.1, Mustela\_kathiah:12.3)'1134':0.2)'1129':5.1, Mustela\_vison:17.6)'1128\_Mustela':7.0, ((((((((Martes\_americana:7.5, Martes\_melampus:7.5)'1147':1.2, Martes\_zibellina:8.7)'1146':0.1, Martes\_martes:8.8)'1145':0.1, Martes\_foina:8.9)'1144':6.9, (Martes\_flavivula:5.9, Martes\_gwatkinsii:5.9)'1148':9.9, Martes\_pennanti:15.8)'1143\_Martes':1.9, Gulo\_gulo:17.7)'1142':4.6, Eira\_barbara:22.3)'1141':0.2, (Galictis\_cuja:5.7, Galictis\_vittata:5.7)'1149\_Galictis':16.8)'1140':0.2, Lyncodon\_patagonicus:22.7)'1139':1.9, ((Ictonyx\_libyca:4.8, Ictonyx\_striatus:4.8)'1151\_Ictonyx':3.3, Vormela\_peregrusna:8.1)'1150':16.5, Poecilogale\_albinucha:24.6)'1127\_Mustelinae':3.1, Mellivora\_capensis:27.7)'1126':0.2, ((Arctonyx\_collaris:14.0, Meles\_meles:14.0)'1153':13.7, (Mydaus\_javanensis:8.4, Mydaus\_marchei:8.4)'1154\_Mydaus':19.3)'1152\_Melinae1\*':0.2, (Melogale\_everetti:11.9, Melogale\_moschata:11.9, Melogale\_orientalis:11.9, Melogale\_personata:11.9)'1155\_Melinae2\*\_Melogale':16.0, (((((Lontra\_felina:1.6, Lontra\_provocax:1.6)'1161':0.2, Lontra\_longicaudis:1.8)'1160':1.1, Lontra\_canadensis:2.9)'1159\_Lontra':3.3, (Lutra\_lutra:3.6, Lutra\_sumatrana:3.6)'1162\_Lutra\*':2.6)'1158':5.1, ((Aonyx\_capensis:3.6, Aonyx\_conicus:3.6)'1164\_Aonyx':0.4, Amblonyx\_cinereus:4.0)'1163':7.3, (Lutra\_maculicollis:6.7, Lutrogale\_perspicillata:6.7, Pteronura\_brasiliensis:6.7)'1165':4.6, Enhydra\_lutris:11.3)'1157\_Lutrinae':11.3, (((Conepatus\_chinga:8.9, Conepatus\_leuconotus:8.9, Conepatus\_mesoleucus:8.9)'1168':4.4, (Conepatus\_humboldtii:5.6, Conepatus\_semistriatus:5.6)'1169':7.7)'1167\_Conepatus':8.0, ((Mephitis\_macroura:5.7, Mephitis\_mephitis:5.7)'1171\_Mephitis':6.2, (Spilogale\_putorius:5.7, Spilogale\_pygmaea:5.7)'1172\_Spilogale':6.2)'1170':9.4)'1166\_Mephitinae':1.3)'1156':5.3, Taxidea\_taxus:27.9)'1125\_Mustelidae':7.1, (((Procyon\_cancrivorus:2.6, Procyon\_insularis:2.6, Procyon\_lotor:2.6, Procyon\_maynardi:2.6, Procyon\_minor:2.6, Procyon\_pygmaeus:2.6)'1176\_Procyon':14.6, ((Nasua\_narica:5.9, Nasua\_nasua:5.9)'1178\_Nasua':3.6, Nasuella.olivacea:9.5)'1177':7.7)'1175':0.3, (Bassariscus\_astutus:5.7, Bassariscus\_sumichrasti:5.7)'1179\_Bassariscus':11.8)'1174\_Procyoninae':11.7, ((Bassaricyon\_alleni:15.7, Bassaricyon\_beddardi:15.7, Bassaricyon\_gabbii:15.7, Bassaricyon\_lasius:15.7, Bassaricyon\_pauli:15.7)'1181\_Bassaricyon':2.0, Potos\_flavus:17.7)'1180\_Potosinae':11.5)'1173\_Procyonidae':5.8)'1124':13.9, Ailurus\_fulgens:48.9)'1123':0.2, ((Odobenus\_rosmarus:26.7, (((Arctocephalus\_australis:2.6, Arctocephalus\_forsteri:2.6, Arctocephalus\_galapagoensis:2.6, Arctocephalus\_philippii:2.6)'1188':5.1, Arctocephalus\_townsendi:7.7)'1187':2.5, Arctocephalus\_gazella:10.2, Arctocephalus\_tropicalis:10.2)'1186':1.7, Arctocephalus\_pusillus:11.9)'1185\_Arctocephalus':0.2, (((Neophoca\_cinerea:4.0, Phocarctos\_hookeri:4.0)'1192':2.7, Otaria\_byronia:6.7)'1191':0.1, Eumetopias\_jubatus:6.8)'1190':5.1, Zalophus\_californianus:11.9)'1189':0.2, Callorhinus\_ursinus:12.1)'1184\_Otariidae':14.6)'1183':9.0, (((((Phoca\_caspica:3.7, Phoca\_hispida:3.7, Phoca\_sibirica:3.7)'1199':0.2, (Phoca\_largha:2.0, Phoca\_vitulina:2.0)'1200':1.9)'1198\_Phoca1\*':3.5, Halichoerus\_grypus:7.4)'1197':2.4, (Phoca\_fasciata:4.7, Phoca\_groenlandica:4.7)'1201\_Phoca2\*':5.1)'1196':3.1, Cystophora\_cristata:12.9)'1195':7.8, Erignathus\_barbatus:20.7)'1194':3.2, (((Hydrurga\_leptonyx:8.6, Lobodon\_carcinophagus:8.6)'1205':0.9, (Leptonychotes\_weddellii:8.2, Ommatophoca\_rossii:8.2)'1206':1.3)'1204':4.9, (Mirounga\_angustirostris:3.7, Mirounga\_leonina:3.7)'1207\_Mirounga':10.7)'1203':2.6, (Monachus\_schauinslandi:13.8, Monachus\_monachus:13.8)'1208\_Monachus':3.2)'1202':6.9)'1193\_Phocidae':11.8)'1182':13.4)'1122':4.1, (((((Ursus\_arctos:3.6, Ursus\_maritimus:3.6)'1213':8.3, Ursus\_thibetanus:11.9)'1212\_Ursus\*':3.7, (Hilarctos\_malayanus:11.3, Melursus\_ursinus:11.3)'1214':4.3, Ursus\_americanus:15.6)'1211':17.4, Tremarctos\_ornatus:33.0)'1210\_Ursinae':12.9, Ailuropoda\_melanoleuca:45.9)'1209\_Ursidae\*':7.3)'1121':6.6, (((((Canis\_lupus:1.2, Canis\_rufus:1.2)'1220':0.6, Canis\_latrans:1.8, Canis\_simensis:1.8)'1219':0.2, (Canis\_adustus:1.4, Canis\_aureus:1.4)'1222':0.4, Canis\_mesomelas:1.8)'1221':0.2)'1218\_Canis':1.5, ((Pseudalopex\_culpaeus:0.7, Pseudalopex\_griseus:0.7, Pseudalopex\_gymnocercus:

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(*Alionycteris paucidentata*:8.6, (*Otopteropus cartilagonodus*:5.2, *Haplonycteris fischeri*:5.2) '1344':3.4) '1343':15.3, (*Latidens salimalii*:8.6, (*Penthetor lucasi*:5.2, *Thoopterus nigrescens*:5.2) '1346':3.4) '1345':15.3, (*Aethalops alecto*:16.8, (*Balionycteris maculata*:7.0, *Chironax melanocephalus*:7.0) '1348':9.8) '1347':7.1, (*Dyacopterus spadiceus*:11.5, (*Ptenochirus jagori*:4.5, *Ptenochirus minor*:4.5) '1350 *Ptenochirus*':7.0, (*Megaerops ecaudatus*:9.0, *Megaerops kusnotoi*:9.0, *Megaerops niphanae*:9.0, *Megaerops wetmorei*:9.0) '1351 *Megaerops*':2.5, ((*Cynopterus sphinx*:4.3, *Cynopterus brachyotis*:4.3) '1353':6.2, (*Cynopterus nusatenggara*:6.8, (*Cynopterus horsfieldi*:4.2, *Cynopterus titthaecheilus*:4.2) '1355':2.6) '1354':3.7) '1352 *Cynopterus*':1.0) '1349':12.4) '1342':1.3) '1334 *Pteropodinae1\**':5.1, ((*Boneia bidens*:15.7, *Rousettus angolensis*:15.7, *Megalochroa woermanni*:15.7, (*Eidolon helvum*:4.3, *Eidolon dupreanum*:4.3) '1358 *Pteropodinae2\* Eidolon*':11.4, (*Myonycteris reducta*:5.9, *Myonycteris brachycephala*:5.9, *Myonycteris torquata*:5.9) '1359 *Pteropodinae3\* Myonycteris*':9.8, (*Rousettus lanosus*:8.3, (*Rousettus egyptiacus*:1.2, *Rousettus amplexicaudatus*:1.2, *Rousettus celebensis*:1.2, *Rousettus leschenaulti*:1.2, *Rousettus madagascariensis*:1.2, *Rousettus obliviosus*:1.2, *Rousettus spinalatus*:1.2) '1361':7.1) '1360 *Pteropodinae4\* Rousettus\**':7.4, (*Pteropus anchietae*:15.5, ((*Casinycteris argynnus*:5.3, (*Scotonycteris ophiodon*:3.1, *Scotonycteris zenkeri*:3.1) '1365 *Scotonycteris*':2.2) '1364':6.5, (*Nanonycteris veldkampi*:4.5, (*Hypsugo monstrosus*:3.8, (*Epomops buettikoferi*:2.4, *Epomops dobsoni*:2.4, *Epomops franqueti*:2.4) '1368 *Epomops*':1.4) '1367':0.7, ((*Micropteropus intermedius*:1.1, *Micropteropus pusillus*:1.1) '1370 *Micropteropus*':1.3, (*Epomophorus wahlbergi*:2.2, (*Epomophorus angolensis*:2.1, *Epomophorus gambianus*:2.1, *Epomophorus grandis*:2.1, *Epomophorus labiatus*:2.1, *Epomophorus minimus*:2.1) '1372':0.1) '1371 *Epomophorus*':0.2) '1369':2.1) '1366':7.3) '1363':3.7) '1362 *Pteropodinae5\**':0.2) '1357':11.2, ((*Eonycteris major*:5.1, *Eonycteris spelaea*:5.1) '1375 *Eonycteris*':18.3, ((*Macroglossus minimus*:5.8, *Macroglossus sobrinus*:5.8) '1377 *Macroglossus*':17.1, ((*Syconycteris australis*:10.6, *Syconycteris carolinae*:10.6, *Syconycteris hobbit*:10.6) '1379 *Syconycteris*':11.7, (*Notopteris macdonaldi*:20.3, (*Melonycteris melanops*:12.8, (*Melonycteris aurantiaca*:8.6, *Melonycteris woodfordi*:8.6) '1382':4.2) '1381 *Melonycteris*':7.5) '1380':2.0) '1378':0.6) '1376':0.5) '1374 *Macroglossinae\**':2.9, ((*Harpyionycteris celebensis*:4.3, *Harpyionycteris whiteheadi*:4.3) '1384 *Harpyionycteris*':21.8, ((*Aproteles bulmerae*:16.1, (*Dobsonia beauforti*:1.0, *Dobsonia inermis*:1.0, *Dobsonia praedatrix*:1.0, *Dobsonia viridis*:1.0) '1388':0.2, *Dobsonia minor*:1.2, *Dobsonia peroni*:1.2, *Dobsonia emersa*:1.2, *Dobsonia exoleta*:1.2, *Dobsonia moluccensis*:1.2, *Dobsonia pannietensis*:1.2) '1387 *Dobsonia*':14.9) '1386':8.2, ((*Stylocetenium wallacei*:3.8, *Neopteryx frosti*:3.8) '1390':19.5, ((*Pteralopex acrodonta*:7.7, *Pteralopex anceps*:7.7, *Pteralopex atrata*:7.7, *Pteralopex pulchra*:7.7) '1392 *Pteralopex*':15.2, ((*Acerodon celebensis*:6.8, *Acerodon humilis*:6.8, *Acerodon jubatus*:6.8, *Acerodon leucotis*:6.8, *Acerodon mackloti*:6.8) '1394 *Acerodon*':8.8, (*Pteropus sanctacrucis*:15.4, *Pteropus mearnsi*:15.4, *Pteropus speciosus*:15.4, *Pteropus neohibernicus*:15.4, *Pteropus howensis*:15.4, *Pteropus ornatus*:15.4, *Pteropus pumilus*:15.4, *Pteropus melanotus*:15.4, *Pteropus hypomelanus*:15.4, *Pteropus griseus*:15.4, *Pteropus admirabilis*:15.4, *Pteropus alecto*:15.4, *Pteropus faunulus*:15.4, *Pteropus dasymallus*:15.4, (*Pteropus livingstonii*:3.1, *Pteropus melanopogon*:3.1) '1396':12.3, (*Pteropus caniceps*:3.1, *Pteropus argentatus*:3.1) '1397':12.3, (*Pteropus conspicillatus*:3.1, *Pteropus ocularis*:3.1) '1398':12.3, (*Pteropus anetianus*:0.2, *Pteropus samoensis*:0.2) '1399':15.2, (*Pteropus mariannus*:3.1, *Pteropus tonganus*:3.1) '1400':12.3, (

Pteropus\_personatus:13.1, Pteropus\_temmincki:13.1) '1401':2.3, (Pteropus\_macrotis:4.9, Pteropus\_pohlei:4.9, Pteropus\_poliocephalus:4.9) '1402':10.5, (Pteropus\_lombocensis:4.9, Pteropus\_molossinus:4.9, Pteropus\_rodricensis:4.9) '1403':10.5, (Pteropus\_chrysoproctus:4.9, Pteropus\_fundatus:4.9, Pteropus\_rayneri:4.9) '1404':10.5, (Pteropus\_giganteus:4.9, Pteropus\_lylei:4.9, Pteropus\_vampyrus:4.9) '1405':10.5, (Pteropus\_gilliardi:13.1, Pteropus\_mahaganus:13.1, Pteropus\_scapulatus:13.1, Pteropus\_woodfordi:13.1) '1406':2.3, (Pteropus\_aldabrensis:7.2, Pteropus\_seychellensis:7.2, Pteropus\_niger:7.2, Pteropus\_rufus:7.2, Pteropus\_voeltzkowi:7.2) '1407':8.2, (Pteropus\_insularis:8.7, Pteropus\_leucopterus:8.7, Pteropus\_nitendiensis:8.7, Pteropus\_phaeocephalus:8.7, Pteropus\_pselaphon:8.7, Pteropus\_tuberculatus:8.7, Pteropus\_vetus:8.7) '1408':6.7) '1395\_Pteropus':0.2) '1393':7.3) '1391':0.4) '1389':1.0) '1385':1.8) '1383\_Pteropodinae6\*':0.2) '1373':0.6) '1356':3.4) '1333\_Pteropodidae':44.0, (((Saccolaimus\_peli:21.6, (Saccolaimus\_flaviventris:19.3, Saccolaimus\_mixtus:19.3, (Saccolaimus\_pluto:10.2, Saccolaimus\_saccolaimus:10.2) '1415':9.1) '1414':2.3) '1413\_Saccolaimus':16.2, ((Taphozous\_hamiltoni:9.7, Taphozous\_nudiventris:9.7) '1417':24.7, (Taphozous\_theobaldi:33.8, (Taphozous\_hilli:21.4, (Taphozous\_australis:17.0, Taphozous\_georgianus:17.0, Taphozous\_kapalgensis:17.0) '1421':4.4) '1420':12.1, (Taphozous\_hildegardae:27.7, Taphozous\_longimanus:27.7, Taphozous\_mauritianus:27.7, Taphozous\_perforatus:27.7, (Taphozous\_melanopogon:10.7, Taphozous\_philippensis:10.7) '1423':17.0) '1422':5.8) '1419':0.3) '1418':0.6) '1416\_Taphozous':3.4) '1412':21.7, ((Mosia\_nigrescens:32.5, (Emballonura\_atrata:32.0, Emballonura\_beccarii:32.0, Emballonura\_dianae:32.0, Emballonura\_furax:32.0, Emballonura\_raffrayana:32.0, Emballonura\_semicaudata:32.0, (Coleura\_afra:9.9, Coleura\_seychellensis:9.9) '1427\_Coleura':22.1, (Emballonura\_alecto:9.9, Emballonura\_monticola:9.9) '1428\_Emballonura\*':22.1) '1426':0.5) '1425':13.9, ((Rhynchopteris\_naso:33.6, (Cyttarops\_alecto:25.1, (Diclidurus\_isabellus:22.0, (Diclidurus\_scutatus:17.8, (Diclidurus\_albus:11.8, Diclidurus\_ingroups:11.8) '1434':6.0) '1433':4.2) '1432\_Diclidurus':3.1) '1431':8.5) '1430':5.6, (Centronycteris\_maximiliani:34.1, Cormura\_brevirostris:34.1, ((Saccopteryx\_bilineata:12.4, Saccopteryx\_leptura:12.4) '1437':8.3, (Saccopteryx\_gymnura:9.6, Saccopteryx\_canescentis:9.6) '1438':11.1) '1436\_Saccopteryx':13.4, ((Balantiopteryx\_io:16.2, Balantiopteryx\_infusca:16.2, Balantiopteryx\_plicata:16.2) '1440\_Balantiopteryx':13.3, (Peropteryx\_leucoptera:18.4, (Peropteryx\_kappleri:15.8, Peropteryx\_macrotis:15.8) '1442':2.6) '1441\_Peropteryx':11.1) '1439':4.6) '1435':5.1) '1429':7.2) '1424':13.1) '1411\_Emballonuridae':10.9, ((Craseonycteris\_thonglongyai:16.9, (Rhinopoma\_hardwickei:13.6, Rhinopoma\_microphyllum:13.6, Rhinopoma\_muscatum:13.6) '1445\_Rhinopomatidae\_Rhinopoma':3.3) '1444':47.6, ((Cardioderma\_cor:36.1, Lavia\_frons:36.1, Macroderma\_gigas:36.1, (Megaderma\_lyra:11.1, Megaderma\_spasma:11.1) '1448\_Megaderma':25.0) '1447\_Megadermatidae':28.2, ((Nycteris\_javanica:8.7, Nycteris\_tragata:8.7) '1451':20.7, (Nycteris\_arge:17.4, Nycteris\_intermedia:17.4, Nycteris\_major:17.4, Nycteris\_nana:17.4) '1452':12.0, ((Nycteris\_gambiensis:7.4, Nycteris\_thebaica:7.4) '1454':5.2, (Nycteris\_grandis:7.4, Nycteris\_hispida:7.4) '1455':5.2) '1453':16.8) '1450\_Nycteridae\_Nycteris':34.5, ((Rhinolophus\_monoceros:28.2, Rhinolophus\_pusillus:28.2, (Rhinolophus\_osgoodi:6.3, Rhinolophus\_cornutus:6.3) '1459':21.9, (Rhinolophus\_lepidus:28.0, (Rhinolophus\_imazumii:27.9, ((Rhinolophus\_cognatus:3.9, Rhinolophus\_subadius:3.9) '1463':14.5, (Rhinolophus\_acuminatus:4.9, Rhinolophus\_adami:4.9, Rhinolophus\_affinis:4.9, Rhinolophus\_alcyone:4.9, Rhinolophus\_anderseni:4.9, Rhinolophus\_arcuatus:4.9, Rhinolophus\_blasii:4.9, Rhinolophus\_capensis:4.9, Rhinolophus\_celebensis:4.9, Rhinolophus\_clivosus:4.9, Rhinolophus\_celophyllus:4.9, Rhinolophus\_darlingi:4.9, Rhinolophus\_deckenii:4.9, Rhinolophus\_denti:4.9, Rhinolophus\_elouquens:4.9, Rhinolophus\_euryotis:4.9, Rhinolophus\_ferrumequinum:4.9, Rhinolophus\_fumigatus:4.9, Rhinolophus\_hildebrandti:4.9, Rhinolophus\_hipposideros:4.9, Rhinolophus\_inops:4.9, Rhinolophus\_keyensis:4.9, Rhinolophus\_luctus:4.9, Rhinolophus\_maclaudi:4.9, Rhinolophus\_macrotis:4.9, Rhinolophus\_malayanus:4.9, Rhinolophus\_marshalli:4.9, Rhinolophus\_megaphyllus:4.9, Rhinolophus\_mitratus:4.9, Rhinolophus\_paradoxolophus:4.9, Rhinolophus\_pearsonii:4.9, Rhinolophus\_philippensis:4.9, Rhinolophus\_rex:4.9, Rhinolophus\_robinsoni:4.9, Rhinolophus\_rouxii:4.9, Rhinolophus\_rufus:4.9, Rhinolophus\_sedulus:4.9, Rhinolophus\_shameli:4.9, Rhinolophus\_silvestris:4.9, Rhinolophus\_simplex:4.9, Rhinolophus\_simulator:4.9, Rhinolophus\_s

theno:4.9, *Rhinolophus\_subrufus*:4.9, *Rhinolophus\_swinnyi*:4.9, *Rhinolophus\_thomasi*:4.9, *Rhinolophus\_trifoliatus*:4.9, *Rhinolophus\_virgo*:4.9, *Rhinolophus\_yunanensis*:4.9, (*Rhinolophus\_nereis*:1.1, *Rhinolophus\_borneensis*:1.1)'1465':3.8, (*Rhinolophus\_canuti*:1.1, *Rhinolophus\_creaghi*:1.1)'1466':3.8, ((*Rhinolophus\_mehelyi*:0.8, *Rhinolophus\_euryale*:0.8)'1468':1.3, (*Rhinolophus\_landeri*:0.8, *Rhinolophus\_guineensis*:0.8)'1469':1.3)'1467':2.8)'1464':13.5)'1462':9.5)'1461':0.1)'1460':0.2)'1458\_ *Rhinolophinae\_Rhinolophus*'23.5, ((*Paracoelops\_megalotis*:14.8, (*Coelops\_fritzi*:11.3, (*Coelops\_hirsutus*:6.7, *Coelops\_robinsoni*:6.7)'1473':4.6)'1472\_ *Coelops*'3.5)'1471':33.5, ((*Rhinonicteris\_aurantia*:12.2, (*Triaenops\_furculus*:7.6, *Triaenops\_persicus*:7.6)'1476\_ *Triaenops*'4.6)'1475':36.0, (*Aselliscus\_tricuspidatus*:48.0, (*Anthops\_ornatus*:47.9, (*Hipposideros\_ater*:47.8, *Hipposideros\_abae*:47.8, *Hipposideros\_beatus*:47.8, *Hipposideros\_bicolor*:47.8, *Hipposideros\_breviceps*:47.8, *Hipposideros\_caffer*:47.8, *Hipposideros\_cineraceus*:47.8, *Hipposideros\_coxi*:47.8, *Hipposideros\_curtus*:47.8, *Hipposideros\_dyacorum*:47.8, *Hipposideros\_fuliginosus*:47.8, *Hipposideros\_fulvus*:47.8, *Hipposideros\_galeritus*:47.8, *Hipposideros\_halophilus*:47.8, *Hipposideros\_jonesi*:47.8, *Hipposideros\_megalotis*:47.8, *Hipposideros\_magrietaylorae*:47.8, *Hipposideros\_marisae*:47.8, *Hipposideros\_pygmaeus*:47.8, *Hipposideros\_ridleyi*:47.8, *Hipposideros\_nequam*:47.8, *Hipposideros\_obscurus*:47.8, *Hipposideros\_papua*:47.8, *Hipposideros\_pomona*:47.8, *Hipposideros\_ruber*:8.8)'1480\_ *Hipposideros*1\*:39.0, (*Hipposideros\_coronatus*:8.8, *Hipposideros\_calcaratus*:8.8)'1481\_ *Hipposideros*2\*:39.0, (*Hipposideros\_lamottei*:8.8, *Hipposideros\_ruber*:8.8)'1482\_ *Hipposideros*3\*:39.0, (*Hipposideros\_crumeniferus*:8.8, *Hipposideros\_cervinus*:8.8)'1483\_ *Hipposideros*4\*:39.0, (*Cloeotis\_percivali*:8.8, *Aselliscus\_stoliczkanus*:8.8)'1484':39.0, (*Hipposideros\_armiger*:47.7, *Hipposideros\_commersoni*:47.7, *Hipposideros\_diadema*:47.7, *Hipposideros\_dinops*:47.7, *Hipposideros\_inexpectatus*:47.7, *Hipposideros\_lankadiva*:47.7, *Hipposideros\_larvatus*:47.7, *Hipposideros\_lekaguli*:47.7, *Hipposideros\_schistaceus*:47.7, *Hipposideros\_turpis*:47.7, (*Hipposideros\_lylei*:10.6, *Hipposideros\_pratti*:10.6)'1486\_ *Hipposideros*5\*:37.1, ((*Asellia\_patrizii*:10.8, *Asellia\_tridens*:10.8)'1488\_ *Asellia*'22.7, ((*Hipposideros\_camerunensis*:10.8, *Hipposideros\_cyclops*:10.8)'1490':19.5, (*Hipposideros\_corynophylus*:25.2, (*Hipposideros\_stenotis*:11.0, *Hipposideros\_wollastoni*:11.0)'1492':14.2, (*Hipposideros\_muscinus*:11.0, *Hipposideros\_semoni*:11.0)'1493':14.2)'1491':5.1)'1489\_ *Hipposideros*6\*:3.2)'1487':14.2)'1485':0.1)'1479':0.1)'1478':0.1)'1477':0.2)'1474':0.1)'1470\_ *Hipposiderinae*'3.4)'1457\_ *Rhinolophidae*'12.2)'1449':0.4)'1446':0.2)'1443':5.9)'1410':0.8, (*Myzopoda\_aurita*:62.8, ((*Thyroptera\_discifera*:33.9, *Thyroptera\_tricolor*:33.9)'1496\_ *Thyropteridae\_Thyroptera*'28.6, ((*Amorphochilus\_schnablii*:14.1, *Furipterus\_horrens*:14.1)'1498\_ *Furipteridae*'35.9, (*Natalus\_lepidus*:23.6, (*Natalus\_stramineus*:13.5, *Natalus\_tumidirostris*:13.5)'1500':10.1, (*Natalus\_micropus*:13.5, *Natalus\_tumidifrons*:13.5)'1501':10.1)'1499\_ *Natalidae\_Natalus*'26.4)'1497':12.5)'1495':0.3, (*Mystacinatuberculata*:59.3, ((*Noctilio\_albiventris*:5.5, *Noctilio\_leporinus*:5.5)'1504\_ *Noctilionidae\_Noctilio*'47.3, ((*Mormoops\_blainvillii*:21.2, *Mormoops\_megalophylla*:21.2)'1507\_ *Mormoops*'18.4, (*Pteronotus\_parnelli*:22.2, (*Pteronotus\_davyi*:9.8, *Pteronotus\_gymnonotus*:9.8)'1509':12.4, (*Pteronotus\_personatus*:19.3, (*Pteronotus\_quadridens*:11.6, *Pteronotus\_macleayii*:11.6)'1511':7.7)'1510':2.9)'1508\_ *Pteronotus*'17.4)'1506\_ *Mormoopidae*'7.1, ((*Diphylla\_ecaudata*:28.5, (*Desmodus\_rotundus*:16.4, *Diaemus\_youngi*:16.4)'1514':12.1)'1513\_ *Desmodontinae*'6.2, ((*Macrophyllum\_macrophyllum*:27.3, (*Lonchorhina\_aurita*:18.8, *Lonchorhina\_fernandezi*:18.8, *Lonchorhina\_marinkellei*:18.8, *Lonchorhina\_orinocensis*:18.8)'1518\_ *Lonchorhina*'8.5)'1517':2.9), ((*Macrotus\_californicus*:7.0, *Macrotus\_waterhousii*:7.0)'1520\_ *Macrotus*'23.0, (*Micronycteris\_bachiyotis*:25.4, (*Micronycteris\_megalotis*:13.0, *Micronycteris\_hirsuta*:13.0, (*Micronycteris\_minuta*:2.8, *Micronycteris\_schmidtorum*:2.8)'1523':10.2)'1522':12.4, (*Micronycteris\_nicefori*:16.3, (*Micronycteris\_pusilla*:14.4, (*Micronycteris\_daviesi*:13.4, (*Micronycteris\_behnii*:7.8, *Micronycteris\_sylvestris*:7.8)'1527':5.6)'1526':1.0)'1525':1.9)'1524':9.1)'1521\_ *Micronycteris*'4.6, (*Trachops\_cirrhosus*:25.6, (*Chrotopterus\_auritus*:20.8, *Vampyrum\_spectrum*:20.8)'1529':4.8, ((*Tonatia\_bidens*:13.0, *Tonatia\_brasiliense*:13.0, *Tonatia\_carrikeri*:13.0, *Tonatia\_evotis*:13.0, *Tonatia\_schulzi*:13.0, *Tonatia\_silvicola*:13.0)'1531\_ *Tonatia*'6.3, ((*Monopterus\_bennettii*:6.1, *Monopterus\_crenulatum*:6.1)'1533\_ *Monopterus*'12.1, (*Phyllostomus\_stenops*:16.0, (*Phyllostomus\_carrioni*:16.0, (*Phyllostomus\_tuberculatus*:16.0, (*Phyllostomus\_tuberculatus*:16.0)'1534\_ *Phyllostomus*'12.1)'1535\_ *Phyllostomus*'12.1)'1536\_ *Phyllostomus*'12.1)'1537\_ *Phyllostomus*'12.1)'1538\_ *Phyllostomus*'12.1)'1539\_ *Phyllostomus*'12.1)'1540\_ *Phyllostomus*'12.1)'1541\_ *Phyllostomus*'12.1)'1542\_ *Phyllostomus*'12.1)'1543\_ *Phyllostomus*'12.1)'1544\_ *Phyllostomus*'12.1)'1545\_ *Phyllostomus*'12.1)'1546\_ *Phyllostomus*'12.1)'1547\_ *Phyllostomus*'12.1)'1548\_ *Phyllostomus*'12.1)'1549\_ *Phyllostomus*'12.1)'1550\_ *Phyllostomus*'12.1)'1551\_ *Phyllostomus*'12.1)'1552\_ *Phyllostomus*'12.1)'1553\_ *Phyllostomus*'12.1)'1554\_ *Phyllostomus*'12.1)'1555\_ *Phyllostomus*'12.1)'1556\_ *Phyllostomus*'12.1)'1557\_ 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*Phyllostomus*'12.1)'1943\_ *Phyllostomus*'12.1)'1944\_ *Phyllostomus*'12.1)'1945\_ *Phyllostomus*'12.1)'1946\_ *Phyllostomus*'12.1)'1947\_ *Phyllostomus*'12.1)'1948\_ *Phyllostomus*'12.1)'1949\_ *Phyllostomus*'12.1)'1950\_ *Phyllostomus*'12.1)'1951\_ *Phyllostomus*'12.1)'1952\_ *Phyllostomus*'12.1)'1953\_ *Phyllostomus*'12.1)'1954\_ *Phyllostomus*'12.1)'1955\_ *Phyllostomus*'12.1)'1956\_ *Phyllostomus*'12.1)'1957\_ *Phyllostomus*'12.1)'1958\_ *Phyllostomus*'12.1)'1959\_ *Phyllostomus*'12.1)'1960\_ *Phyllostomus*'12.1)'1961\_ *Phyllostomus*'12.1)'1962\_ *Phyllostomus*'12.1)'1963\_ *Phyllostomus*'12.1)'1964\_ <

*mus\_latifolius*:12.7, *Phyllostomus\_discolor*:12.7, (*Phyllostomus\_elongatus*:6.4, *Phyllostomus\_hastatus*:6.4) '1536':6.3) '1535\_ *Phyllostomus*' :3.3) '1534':2.2) '1532':1.1) '1530':6.3) '1528':4.4) '1519':0.2) '1516\_ *Phyllostominae*' :0.1, (((*Brachyphylla\_cavernarum*:6.0, *Brachyphylla\_nana*:6.0) '1540\_ *Brachyphyllinae* *Brachyphylla*' :1 5.0, (*Erophylla\_sezekorni*:7.7, (*Phyllonycteris\_aphylla*:5.8, *Phyllonycteris\_poeyi* :5.8) '1542\_ *Phyllonycteris*' :1.9) '1541\_ *Phyllonycterinae*' :13.3) '1539':2.9, ((*Platalina\_genovensium*:15.9, (*Lionycteris\_spurrelli*:14.2, (*Lonchophylla\_bokermanni*:1 0.5, *Lonchophylla\_dekeyseri*:10.5, *Lonchophylla\_handleyi*:10.5, *Lonchophylla\_hesperia*:10.5, *Lonchophylla\_mordax*:10.5, *Lonchophylla\_robusta*:10.5, *Lonchophylla\_thomasi*:10.5) '1546\_ *Lonchophylla*' :3.7) '1545':1.7) '1544\_ *Lonchophyllinae*' :6.7, (((*Leptonycteris\_curasoae*:4.9, *Leptonycteris\_nivalis*:4.9) '1549\_ *Leptonycteris*' :13.0, ((*Monophyllus\_plethodon*:7.0, *Monophyllus\_redmani*:7.0) '1551\_ *Monophyllus*' :8.1, (*Glossophaga\_commissarisi*:6.5, *Glossophaga\_soricina*:6.5, (*Glossophaga\_leachii*:5.3, *Glossophaga\_longirostris*:5.3, *Glossophaga\_morenoi*:5.3) '1553':1.2) '1552\_ *Glossophaga*' :8.6) '1550':2.8) '1548':2.8, ((*Anoura\_caudifera*:9.1, *Anoura\_cultrata*:9.1, *Anoura\_geoffroyi*:9.1, *Anoura\_latidens*:9.1) '1555\_ *Anoura*' :7.5, ((*Scleronycteris\_ega* :6.6, (*Hylonycteris\_underwoodi*:4.1, *Lichonycteris\_obscura*:4.1) '1558':2.5) '1557':4.2, ((*Choeronycteris\_mexicana*:2.9, *Musonycteris\_harrisoni*:2.9) '1560':4.1, (*Choeroneurus\_godmani*:6.9, *Choeroniscus\_intermedius*:6.9, *Choeroniscus\_minor*:6.9, *Choeroneurus\_periosus*:6.9) '1561\_ *Choeroniscus*' :0.1) '1559':3.8) '1556':5.8) '1554':4.1) '1547\_ *Glossophaginae*' :1.9) '1543':1.3) '1538':5.5, (((*Rhinophylla\_alethina*:11.7, *Rhinophylla\_fischerae*:11.7, *Rhinophylla\_pumilio*:11.7) '1564\_ *Rhinophylla*' :10.2, (*Carollia\_castanea*:5.6, *Carollia\_brevicauda*:5.6, *Carollia\_perspicillata*:5.6, *Carollia\_subrufa*:5.6) '1565\_ *Carollia*' :16.3) '1563\_ *Carollinae*' :3.3, ((*Sturnira\_bidens*:11.5, *Sturnira\_nana*:11.5) '1568':5.8, ((*Sturnira\_aratathomasi*:7.0, *Sturnira\_lilium*:7.0) '1570':10.1, (*Sturnira\_ludovici*:8.1, *Sturnira\_luisi*:8.1, *Sturnira\_magena*:8.1, *Sturnira\_mordax*:8.1, *Sturnira\_thomasi*:8.1, *Sturnira\_tildae*:8.1, *Sturnira\_bogotensis*:8.1, *Sturnira\_erythromos*:8.1) '1571':9.0) '1569':0.2) '1567\_ *Sturnira*' :3.8, ((*Pygoderma\_bilabiatum*:7.6, *Centurio\_senex*:7.6, (*Ametrida\_centurio*:6.1, *Sphaeronycteris\_toxophyllum*:6.1) '1574':1.5, (*Phyllops\_falcatus*:6.1, *Stenoderma\_rufum*:6.1, (*Ardops\_nichollsi*:3.7, *Ariteus\_flavescens*:3.7) '1576':2.4) '1575':1.5) '1573':7.8, ((*Artibeus\_hartii*:13.5, ((*Artibeus\_aztecus*:6.6, *Artibeus\_phaeotis*:6.6, *Artibeus\_toltecus*:6.6, (*Artibeus\_cinereus*:5.3, (*Artibeus\_andersenii*:4.7, *Artibeus\_glaucus*:4.7) '1582':0.6) '1581':1.3) '1580':3.3, (*Artibeus\_concolor*:7.1, (*Artibeus\_fimbriatus*:7.0, (*Artibeus\_amplus*:6.8, (*Artibeus\_jamaicensis*:6.7, *Artibeus\_litatus*:6.7, *Artibeus\_obscurus*:6.7, *Artibeus\_planirostris*:6.7, (*Artibeus\_fraterculus*:3.7, (*Artibeus\_hirsutus*:3.0, *Artibeus\_inopinatus*:3.0) '1588':0.7) '1587':3.0) '1586':0.1) '1585':0.2) '1584':0.1) '1583':2.8) '1579':3.6) '1578\_ *Artibeus*' :0.9, (*Ectophylla\_alba*:12.4, (*Chiroderma\_salvini*:9.5, ((*Chiroderma\_improvisum*:3.3, *Chiroderma\_villosum*:3.3) '1592':3.1, (*Chiroderma\_doriae*:3.3, *Chiroderma\_trinitatum*:3.3) '1593':3.1) '1591':3.1) '1590\_ *Chiroderma*' :2.9, (*Mesophylla\_macconnelli*:11.7, ((*Vampyressa\_melissa*:3.9, *Vampyressa\_pusilla*:3.9) '1596':7.6, (*Vampyressa\_bidens*:7.2, *Vampyressa\_brocki*:7.2, *Vampyressa\_nymphaea*:7.2) '1597':4.3) '1595\_ *Vampyressa*' :0.2) '1594':0.7, ((*Uroderma\_bilobatum*:3.0, *Uroderma\_magnirostrum*:3.0) '1599\_ *Uroderma*' :7.6, (*Vampyrodes\_caraccioli*:9.4, (*Platyrrhinus\_aurarius*:9.1, *Platyrrhinus\_brachycephalus*:9.1, *Platyrrhinus\_chocoensis*:9.1, *Platyrrhinus\_dorsalis*:9.1, *Platyrrhinus\_helleri*:9.1, *Platyrrhinus\_infuscus*:9.1, *Platyrrhinus\_lineatus*:9.1, *Platyrrhinus\_recifinus*:9.1, *Platyrrhinus\_umbratus*:9.1, *Platyrrhinus\_vittatus*:9.1) '1601\_ *Platyrrhinus*' :0.3) '1600':1.2) '1598':1.8) '1589':2.0) '1577':1.0) '1572':5.7) '1566\_ *Stenodermatinae*' :4.1) '1562':4.2) '1537':0.9) '1515':4.4) '1512\_ *Phyllostomidae*' :12.0) '1505':6.1) '1503':6.5) '1502':3.5, ((*Tomopeas\_ravus*:43.6, ((*Cheiromeles\_torquatus*:10.2, (*Myopterus\_daubentonii*:6.4, *Myopterus\_whitleyi*:6.4) '1607\_ *Myopterus*' :3.8) '1606':11.7, (*Molossops\_aequatorianus*:18.1, *Molossops\_mattogrossensis*:18.1, (*Molossops\_neglectus*:6.4, *Molossops\_temminckii*:6.4) '1609':11.7, (*Molossops\_abrasus*:10.1, *Molossops\_greenhalli*:10.1, *Molossops\_planirostris*:10.1) '1610':8.0) '1608\_ *Molossops*' :3.8) '1605':17.7, ((*Mormopterus\_setiger*:14.0, (*Mormopterus\_beccarii*:11.2, *Mormopterus\_norfolkensis*:11.2, *Mormopterus\_planiceps*:11.2) '1613':2.8) '1612':12.8, (*Mormopterus\_petrophilus*:19.6, ((*Mormopterus\_kalinowskii*:11.4, *Mormopterus\_minutus*:11.4, *Mormopterus\_phrudus*:11.4) '1616':6.8, (*Mormopterus\_doriae*:11.4, *Mormopterus\_jugularis*:11.4, *Mormopterus\_acetabulosus*:11.4) '1617':6.8)

'1615':1.4)'1614':7.2)'1611\_Mormopterus':12.8,((Tadarida\_espiritosantensis:16.4,(Tadarida\_brasiliensis:14.7,(Tadarida\_australis:12.9,Tadarida\_aegyptiaca:12.9,(Tadarida\_fulminans:9.7,Tadarida\_lobata:9.7,Tadarida\_teniotis:9.7,Tadarida\_ventralis:9.7)'1622':3.2)'1621':1.8)'1620':1.7)'1619\_Tadarida':10.0,((Nyctinomops\_aurispinosus:14.9,Nyctinomops\_femorosaccus:14.9,Nyctinomops\_laticaudatus:14.9,Nyctinomops\_macrotis:14.9)'1624\_Nyctinomops':11.4,((Otomops\_formosus:11.3,Otomops\_martiensseni:11.3,Otomops\_papuensis:11.3,Otomops\_secundus:11.3,Otomops\_wroughtoni:11.3)'1627\_Otomops':14.8,((Promops\_centralis:7.0,Promops\_nasutus:7.0)'1630\_Promops':18.8,(Molossus\_sinaloae:25.7,(Molossus\_bondae:25.6,Molossus\_molossus:25.6,(Molossus\_ater:11.5,Molossus\_pretiosus:11.5)'1633':14.1)'1632':0.1)'1631\_Molossus':0.1)'1629':0.2,((Eumops\_hansae:5.3,Eumops\_perotisi:5.3)'1635':10.1,(Eumops\_dabbenei:13.7,(Eumops\_bonariensis:12.7,(Eumops\_maurus:11.5,(Eumops\_glaucinus:9.3,(Eumops\_auripendulus:5.8,Eumops\_underwoodi:5.8)'1640':3.5)'1639':2.2)'1638':1.2)'1637':1.0)'1636':1.7)'1634\_Eumops':10.6)'1628':0.1)'1626':0.1,(((Chaerephon\_ansorgei:6.7,Chaerephon\_bemmeleni:6.7,Chaerephon\_bivittata:6.7)'1643':9.4,(Chaerephon\_aloysiisabaudiae:14.0,Chaerephon\_chapini:14.0,Chaerephon\_gallagheri:14.0,Chaerephon\_jobensis:14.0,Chaerephon\_johorensis:14.0,Chaerephon\_major:14.0,Chaerephon\_nigeriae:14.0,Chaerephon\_plicata:14.0,Chaerephon\_pumila:14.0,Chaerephon\_russata:14.0)'1644':2.1)'1642\_Chaerephon':3.4,((Mops\_brachypterus:9.8,Mops\_nanulus:9.8,Mops\_petersoni:9.8,Mops\_purrelli:9.8,Mops\_thersites:9.8)'1646':6.7,(Mops\_conicus:13.3,Mops\_condylurus:13.3,Mops\_midas:13.3,Mops\_mops:13.3,Mops\_niangarae:13.3,Mops\_sarasinorum:13.3,Mops\_trevori:13.3,(Mops\_demonstrator:4.2,Mops\_niveiventer:4.2)'1648':9.1)'1647':3.2)'1645\_Mops':3.0)'1641':6.7)'1625':0.1)'1623':0.1)'1618':13.2)'1604\_Molossidae':4.0)'1603':13.6,((Miniopterus\_schreibersi:18.0,(Miniopterus\_robustior:6.3,Miniopterus\_tristis:6.3)'1651':11.7,(Miniopterus\_inflatus:6.3,Miniopterus\_magnater:6.3)'1652':11.7,(Miniopterus\_fraterculus:6.3,Miniopterus\_fuscus:6.3)'1653':11.7,(Miniopterus\_australis:12.2,Miniopterus\_minor:12.2,Miniopterus\_pusillus:12.2)'1654':5.8)'1650\_Miniopterinae\_Miniopterus':37.2,(Eudiscopuss\_denticulus:30.2,Hesperoptenus\_doriae:30.2,Ia\_io:30.2,Lasionycteris\_noctivagans:30.2,Mimetillus\_moloneyi:30.2,Nycticeius\_humeralis:30.2,Nycticeius\_rueppellii:30.2,Otonycteris\_hemprichii:30.2,Philetor\_brachypterus:30.2,Pipistrellus\_dormeri:30.2,Pipistrellus\_subflavus:30.2,(Antrozous\_dubiaquercus:16.0,Antrozous\_pallidus:16.0)'1656\_Vespertilioninae1\*'\_Antrozous':14.2,(Glischropus\_javanus:5.7,Glischropus\_tylopus:5.7)'1657\_Vespertilioninae2\*'\_Glischropus':24.5,(Pipistrellus\_anchietai:5.7,Pipistrellus\_eisentrauti:5.7)'1658\_Vespertilioninae3\*'\_Pipistrellus1\*':24.5,(Pipistrellus\_hesperus:5.7,Pipistrellus\_musciculus:5.7)'1659\_Vespertilioninae4\*'\_Pipistrellus2\*':24.5,(Tylonycteris\_pachypus:5.7,Tylonycteris\_robusta:5.7)'1660\_Vespertilioninae5\*'\_Tylonycteris':24.5,(Vespertilio\_murinus:11.1,Vespertilio\_superans:11.1)'1661\_Vespertilioninae6\*'\_Vespertilio':19.1,(Pipistrellus\_anthonyi:9.1,Pipistrellus\_joffrei:9.1,Pipistrellus\_stenopterus:9.1)'1662\_Vespertilioninae7\*'\_Pipistrellus3\*':21.1,(Pipistrellus\_crasulus:9.1,Pipistrellus\_nanulus:9.1,Pipistrellus\_rueppelli:9.1)'1663\_Vespertilioninae8\*'\_Pipistrellus4\*':21.1,(Pipistrellus\_circumdatus:9.1,Pipistrellus\_cuprosus:9.1,Pipistrellus\_socciatatis:9.1)'1664\_Vespertilioninae9\*'\_Pipistrellus5\*':21.1,(Scotoecus\_pallidus:9.1,(Scotoecus\_albofuscus:5.5,Scotoecus\_hirundo:5.5)'1666':3.6)'1665\_Vespertilioninae10\*'\_Scotoecus':21.1,(Pipistrellus\_imbricatus:9.1,(Pipistrellus\_arabicus:5.5,Pipistrellus\_nanus:5.5)'1668':3.6)'1667\_Vespertilioninae11\*'\_Pipistrellus6\*':21.1,(Pipistrellus\_pulveratus:9.1,(Pipistrellus\_kitcheneri:5.5,Pipistrellus\_lophurus:5.5)'1670':3.6)'1669\_Vespertilioninae12\*'\_Pipistrellus7\*':21.1,(Hesperoptenus\_blanfordi:11.5,Hesperoptenus\_gaskellii:11.5,Hesperoptenus\_tickelli:11.5,Hesperoptenus\_tomesi:11.5)'1671\_Vespertilioninae13\*'\_Hesperoptenus\*':18.7,(Histiotus\_alienus:11.5,Histiotus\_macrotus:11.5,Histiotus\_montanus:11.5,Histiotus\_velatus:11.5)'1672\_Vespertilioninae14\*'\_Histiotus':18.7,(Laephotis\_angolensis:11.5,Laephotis\_botswanae:11.5,Laephotis\_namibensis:11.5,Laephotis\_wintoni:11.5)'1673\_Vespertilioninae15\*'\_Laephotis':18.7,(Pipistrellus\_tasmaniensis:11.5,(Pipistrellus\_affinis:8.7,Pipistrellus\_mordax:8.7,Pipistrellus\_petersi:8.7)'1675':2.8)'1674\_Vespertilioninae16\*'\_Pipistrellus8\*':18.7,(Nycticeius\_schlieffeni:11.5,(Nycticeius\_balstoni:8.7,(Nycticeius\_greyii:5.1,Nycticeius\_sanborni:5.1)'1678':3.6)'1677':2.8)'1676\_Vespertilio

ninae17\**Nycticeius*\*':18.7, (*Pipistrellus\_cadornae*:13.3, *Pipistrellus\_macrotis*:13.3, (*Pipistrellus\_ariel*:8.7, *Pipistrellus\_bodenheimeri*:8.7, *Pipistrellus\_savii*:8.7) '1680':4.6) '1679\_Vespertilioninae18\**Pipistrellus9\**':16.9, (*Eptesicus\_baverstocki*:11.2, *Eptesicus\_douglasorum*:11.2, *Eptesicus\_pumilus*:11.2, *Eptesicus\_sagittula*:11.2, *Eptesicus\_regulus*:11.2, *Eptesicus\_vulturnus*:11.2) '1681\_Vespertilio ninae19\**Eptesicus1\**':19.0, (*Nyctalus\_azoreum*:8.3, *Nyctalus\_aviator*:8.3, *Nyctalus\_lasiopterus*:8.3, *Nyctalus\_leisleri*:8.3, *Nyctalus\_montanus*:8.3, *Nyctalus\_noctula*:8.3) '1682\_Vespertilioninae20\**Nyctalus*':21.9, (*Chalinolobus\_tuberculatus*:15.4, (*Chalinolobus\_dwyeri*:10.8, *Chalinolobus\_gouldii*:10.8, *Chalinolobus\_morio*:10.8, *Chalinolobus\_nigrogriseus*:10.8, *Chalinolobus\_picatus*:10.8) '1684':4.6) '1683\_Vespertilioninae21\**Chalinolobus1\**':14.8, (*Rhogeessa\_alleni*:11.3, (*Rhogeessa\_mira*:8.4, (*Rhogeessa\_gracilis*:8.2, (*Rhogeessa\_genowaysi*:5.8, *Rhogeessa\_minutilla*:5.8, *Rhogeessa\_parvula*:5.8, *Rhogeessa\_tumida*:5.8) '1688':2.4) '1687':0.2) '1686':2.9) '1685\_Vespertilioninae22\**Rhogeessa*':18.9, (*Lasiurus\_egregius*:17.2, (*Lasiurus\_ega*:5.7, *Lasiurus\_intermedius*:5.7) '1690':11.5, (*Lasiurus\_cinereus*:12.0, *Lasiurus\_castaneus*:12.0, (*Lasiurus\_borealis*:7.1, *Lasiurus\_seminolus*:7.1) '1692':4.9) '1691':5.2) '1689\_Vespertilioninae23\**Lasiurus*':13.0, ((*Eptesicus\_flavescens*:8.7, *Eptesicus\_rendalli*:8.7, *Eptesicus\_tenuipinnis*:8.7) '1694':7.9, (*Eptesicus\_brunneus*:11.8, *Eptesicus\_capensis*:11.8, *Eptesicus\_guineensis*:11.8, *Eptesicus\_melckorum*:11.8, *Eptesicus\_somalicus*:11.8) '1695':4.8) '1693\_Vespertilioninae24\**Eptesicus2\**':13.6, (*Chalinolobus\_alboguttatus*:9.2, *Chalinolobus\_argentatus*:9.2, *Chalinolobus\_beatrix*:9.2, *Chalinolobus\_egeria*:9.2, *Chalinolobus\_gleni*:9.2, *Chalinolobus\_kenyacola*:9.2, *Chalinolobus\_poensis*:9.2, *Chalinolobus\_superbus*:9.2, *Chalinolobus\_variegatus*:9.2) '1696\_Vespertilioninae25\**Chalinolobus2\**':21.0, (*Pharotis\_imogene*:16.2, (*Nyctophilus\_arnhemensis*:9.8, *Nyctophilus\_geoffroyi*:9.8, *Nyctophilus\_gouldi*:9.8, *Nyctophilus\_heran*:9.8, *Nyctophilus\_microdon*:9.8, *Nyctophilus\_microtis*:9.8, *Nyctophilus\_timoriensis*:9.8, *Nyctophilus\_walkeri*:9.8) '1698\_Nyctophilus':6.4) '1697\_Vespertilioninae26\*':14.0, ((*Barbastella\_barbastellus*:16.9, *Barbastella\_leucomelas*:16.9) '1700\_Barbastella':5.2, ((*Euderma\_maculatum*:18.1, *Idionycteris\_phyllotis*:18.1) '1702':1.7, ((*Plecotus\_rafinesquii*:9.9, (*Plecotus\_mexicanus*:4.1, *Plecotus\_townsendii*:4.1) '1705':5.8) '1704':8.7, ((*Plecotus\_austriacus*:6.9, *Plecotus\_teneriffae*:6.9) '1707':10.1, (*Plecotus\_auritus*:6.9, *Plecotus\_taivanus*:6.9) '1708':10.1) '1706':1.6) '1703\_Plecotus':1.2) '1701':2.3) '1699\_Vespertilioninae27\*':8.1, ((*Scotomanes\_emarginatus*:5.7, *Scotomanes\_ornatus*:5.7) '1710\_Scotomanes':16.1, (*Scotophilus\_kuhlii*:6.6, *Scotophilus\_nigrita*:6.6, (*Scotophilus\_borbonicus*:4.3, *Scotophilus\_viridis*:4.3) '1712':2.3, (*Scotophilus\_celebensis*:4.3, *Scotophilus\_heathi*:4.3) '1713':2.3, (*Scotophilus\_leucogaster*:5.5, (*Scotophilus\_dinganii*:5.3, *Scotophilus\_nux*:5.3, *Scotophilus\_robustus*:5.3) '1715':0.2) '1714':1.1) '1711\_Scotophilus':15.2) '1709\_Vespertilioninae28\*':8.4, ((*Pipistrellus\_minahassae*:4.9, *Pipistrellus\_ceylonicus*:4.9) '1717':11.2, (*Pipistrellus\_aegyptius*:12.7, *Pipistrellus\_aero*:12.7, *Pipistrellus\_inexspectatus*:12.7, *Pipistrellus\_kuhlii*:12.7, *Pipistrellus\_maderensis*:12.7, *Pipistrellus\_rusticus*:12.7) '1718':3.4, ((*Pipistrellus\_nathusii*:14.4, *Pipistrellus\_permixtus*:14.4, *Pipistrellus\_pipistrellus*:14.4) '1720':1.3, ((*Pipistrellus\_coromandra*:8.7, *Pipistrellus\_mimus*:8.7, *Pipistrellus\_tenuis*:8.7) '1722':3.5, (*Pipistrellus\_babu*:9.9, *Pipistrellus\_endoi*:9.9, *Pipistrellus\_javanicus*:9.9, *Pipistrellus\_paterculus*:9.9, *Pipistrellus\_peguensis*:9.9) '1723':2.3) '1721':3.5) '1719':0.4) '1716\_Vespertilioninae29\**Pipistrellus10\**':14.1, (*Eptesicus\_floweri*:22.2, (*Eptesicus\_nasutus*:16.7, (*Eptesicus\_bobrinskoi*:4.7, *Eptesicus\_nilssonii*:4.7) '1726':12.0, ((*Eptesicus\_diminutus*:4.0, *Eptesicus\_innoxius*:4.0) '1728':9.5, *Eptesicus\_brasiliensis*:13.5, *Eptesicus\_bottae*:13.5, *Eptesicus\_demissus*:13.5, *Eptesicus\_furinalis*:13.5, *Eptesicus\_fuscus*:13.5, *Eptesicus\_guadeloupensis*:13.5, *Eptesicus\_hottentotus*:13.5, *Eptesicus\_kobayashii*:13.5, *Eptesicus\_pachyotis*:13.5, *Eptesicus\_platyops*:13.5, *Eptesicus\_serotinus*:13.5, *Eptesicus\_tatei*:13.5) '1727':3.2) '1725':5.5) '1724\_Vespertilioninae30\**Eptesicus3\**':8.0, ((*Harpiocephalus\_harpiae*:11.8, (*Murina\_grisea*:11.6, ((*Murina\_aenea*:6.7, *Murina\_cyclotis*:6.7, *Murina\_huttoni*:6.7, *Murina puta*:6.7, *Murina\_rozendaali*:6.7) '1733':4.8, 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':2.0)'1602':5.6)'1494':8.4)'1409':3.1)'1332\_ *Chiroptera* ':12.6)'929':3.6, (((*Uropsilus\_andersoni*:21.9,*Uropsilus\_gracilis*:21.9,*Uropsilus\_investigator*:21.9,*Uropsilus\_soricipes*:21.9)'1764\_ *Uropsilinae* \_*Uropsilus* ':53.9, ((*Scaptonyx\_fuscaudus*:47.0, ((*Parascaptor\_leucura*:39.2, (*Talpa Altaica*:32.2,*Talpa\_streeti*:32.2,*Talpa\_stankovici*:32.2,*Talpa\_romana*:32.2,*Talpa\_occidentalis*:32.2,*Talpa\_europea*:32.2,*Talpa\_caucasica*:32.2,*Talpa\_caeca*:32.2,*Talpa\_levantis*:32.2, ((*Mogera\_wogura*:19.6,*Mogera\_tokudae*:19.6,*Mogera\_robusta*:19.6,*Mogera\_insularis*:19.6,*Mogera\_etigo*:19.6,*Mogera\_kobeae*:19.6,*Mogera\_minor*:19.6)'1772\_ *Mogera* ':5.6, (*Euroscaptor\_grandis*:18.1,*Euroscaptor\_mizura*:18.1,*Euroscaptor\_parvidens*:18.1,*Euroscaptor\_micrura*:18.1,*Euroscaptor\_longirostris*:18.1,*Euroscaptor\_klossi*:18.1)'1773\_ *Euroscaptor* ':7.1)'1771':7.0)'1770':7.0)'1769':7.7, 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iventris:6.7,Atelerix\_sclateri:6.7)'1803':5.2)'1802':2.3)'1801\_Ateleterix':0.2)'1798':9.0)'1792\_Erinaceinae':43.5)'1786\_Erinaceidae':10.7,((Crocidura\_aleksandrisci:16.5,Crocidura\_allex:16.5,Crocidura\_andamanensis:16.5,Crocidura\_anselorum:16.5,Crocidura\_arabica:16.5,Crocidura\_armenica:16.5,Crocidura\_attenuata:16.5,Crocidura\_attila:16.5,Crocidura\_baileyi:16.5,Crocidura\_batesi:16.5,Crocidura\_beatus:16.5,Crocidura\_beccarii:16.5,Crocidura\_bottegi:16.5,Crocidura\_bottaeoides:16.5,Crocidura\_buettikoferi:16.5,Crocidura\_caliginea:16.5,Crocidura\_canariensis:16.5,Crocidura\_cinderella:16.5,Crocidura\_congobelgica:16.5,Crocidura\_cossyrensis:16.5,Crocidura\_crenata:16.5,Crocidura\_crossei:16.5,Crocidura\_cyanea:16.5,Crocidura\_denti:16.5,Crocidura\_desperata:16.5,Crocidura\_dhofaren sis:16.5,Crocidura\_dolichura:16.5,Crocidura\_douceti:16.5,Crocidura\_dsinezumi:16.5,Crocidura\_eisentrauti:16.5,Crocidura\_elgonius:16.5,Crocidura\_elongata:16.5,Crocidura\_erica:16.5,Crocidura\_fischeri:16.5,Crocidura\_flavescens:16.5,Crocidura\_floweri:16.5,Crocidura\_foxi:16.5,Crocidura\_fuliginosa:16.5,Crocidura\_fulvastra:16.5,Crocidura\_fumosa:16.5,Crocidura\_fuscomurina:16.5,Crocidura\_glassi:16.5,Crocidura\_goliath:16.5,Crocidura\_gracilipes:16.5,Crocidura\_grandiceps:16.5,Crocidura\_grandis:16.5,Crocidura\_grassei:16.5,Crocidura\_grayi:16.5,Crocidura\_greenwoodi:16.5,Crocidura\_gueldenstaedtii:16.5,Crocidura\_harennia:16.5,Crocidura\_hildegardae:16.5,Crocidura\_hirta:16.5,Crocidura\_hispida:16.5,Crocidura\_horsfieldii:16.5,Crocidura\_jacksoni:16.5,Crocidura\_jenkinsi:16.5,Crocidura\_kivuana:16.5,Crocidura\_lamottei:16.5,Crocidura\_lanosa:16.5,Crocidura\_lasiura:16.5,Crocidura\_latona:16.5,Crocidura\_lea:16.5,Crocidura\_leucodon:16.5,Crocidura\_levicula:16.5,Crocidura\_littoralis:16.5,Crocidura\_longipes:16.5,Crocidura\_lucina:16.5,Crocidura\_ludia:16.5,Crocidura\_luna:16.5,Crocidura\_lusitania:16.5,Crocidura\_macarthuri:16.5,Crocidura\_macmillani:16.5,Crocidura\_macowi:16.5,Crocidura\_malayana:16.5,Crocidura\_manengubae:16.5,Crocidura\_maquassiensis:16.5,Crocidura\_marquesensis:16.5,Crocidura\_maurisca:16.5,Crocidura\_maxi:16.5,Crocidura\_mindorus:16.5,Crocidura\_minuta:16.5,Crocidura\_miya:16.5,Crocidura\_monax:16.5,Crocidura\_monticola:16.5,Crocidura\_montis:16.5,Crocidura\_muricauda:16.5,Crocidura\_mutuae:16.5,Crocidura\_nana:16.5,Crocidura\_nanilla:16.5,Crocidura\_neglecta:16.5,Crocidura\_negrina:16.5,Crocidura\_nicobarica:16.5,Crocidura\_nigeriae:16.5,Crocidura\_nigricans:16.5,Crocidura\_nigripes:16.5,Crocidura\_nigrofusca:16.5,Crocidura\_nimbae:16.5,Crocidura\_niobe:16.5,Crocidura\_obscurior:16.5,Crocidura\_olivieri:16.5,Crocidura\_ori:16.5,Crocidura\_osorio:16.5,Crocidura\_palaeanensis:16.5,Crocidura\_paradoxura:16.5,Crocidura\_parvipes:16.5,Crocidura\_pasha:16.5,Crocidura\_pergrisea:16.5,Crocidura\_phaeura:16.5,Crocidura\_picea:16.5,Crocidura\_pitmani:16.5,Crocidura\_planiceps:16.5,Crocidura\_poensis:16.5,Crocidura\_polia:16.5,Crocidura\_pullata:16.5,Crocidura\_raineyi:16.5,Crocidura\_religiosa:16.5,Crocidura\_rhoditis:16.5,Crocidura\_roosevelti:16.5,Crocidura\_russula:16.5,Crocidura\_selina:16.5,Crocidura\_serezkyensis:16.5,Crocidura\_sibirica:16.5,Crocidura\_sicula:16.5,Crocidura\_silacea:16.5,Crocidura\_smithii:16.5,Crocidura\_somalica:16.5,Crocidura\_stenocephala:16.5,Crocidura\_suaveolens:16.5,Crocidura\_susiana:16.5,Crocidura\_tansaniana:16.5,Crocidura\_tarella:16.5,Crocidura\_tarfayensis:16.5,Crocidura\_telfordi:16.5,Crocidura\_tenuis:16.5,Crocidura\_thalia:16.5,Crocidura\_theresa:16.5,Crocidura\_thomensis:16.5,Crocidura\_turba:16.5,Crocidura\_ultima:16.5,Crocidura\_usambarae:16.5,Crocidura\_viaria:16.5,Crocidura\_voi:16.5,Crocidura\_whitakeri:16.5,Crocidura\_wimmeri:16.5,Crocidura\_xantippe:16.5,Crocidura\_yankariensis:16.5,Crocidura\_zaphiri:16.5,Crocidura\_zarudnyi:16.5,Crocidura\_zimmeri:16.5,Crocidura\_zimmermanni:16.5)'1806\_Crocidura':4.6,Diplomesodon\_pulchellum:21.1,Feroculus\_feroculus:21.1,(Myosorex\_babaulti:20.9,Myosorex\_blarina:20.9,Myosorex\_cafer:20.9,Myosorex\_eisentrauti:20.9,Myosorex\_geata:20.9,Myosorex\_longicaudatus:20.9,Myosorex\_okuensis:20.9,Myosorex\_rumpi:20.9,Myosorex\_schalleri:20.9,Myosorex\_sclateri:20.9,Myosorex\_tenuis:20.9,Myosorex\_varius:20.9)'1807\_Myosorex':0.2,(Paracrocidura\_graueri:4.2,Paracrocidura\_maxima:4.2,Paracrocidura\_schoutedeni:4.2)'1808\_Paracrocidura':16.9,Ruwenzo risorex\_suncoides:21.1,Scutisorex\_somereni:21.1,Solisorex\_pearsoni:21.1,(Suncus\_ater:11.5,Suncus\_dayi:11.5,Suncus\_etruscus:11.5,Suncus\_fellowesgordoni:11.5,Suncus\_hosei:11.5,Suncus\_infinitesimus:11.5,Suncus\_lixus:11.5,Suncus\_madagascariensis:11.5,Suncus\_malayanus:11.5,Suncus\_mertensi:11.5,Suncus\_montanus:11.5,Suncus\_murinus:11.5,Suncus\_remyi:11.5,Suncus\_stoliczkanus:11.5,Suncus\_vari

lla:11.5, *Suncus\_zeylanicus*:11.5) '1809\_Suncus':9.6, (*Surdisorex\_norae*:6.4, *Surdisorex\_pollois*:6.4) '1810\_Surdisorex':14.7, (*Sylvilorex\_granti*:20.9, *Sylvilorex\_howellii*:20.9, *Sylvilorex\_isabellae*:20.9, *Sylvilorex\_johnstoni*:20.9, *Sylvilorex\_lunaris*:20.9, *Sylvilorex\_megalura*:20.9, *Sylvilorex\_morio*:20.9, *Sylvilorex\_ollula*:20.9, *Sylvilorex\_oriundus*:20.9, *Sylvilorex\_vulcanorum*:20.9) '1811\_Sylvilorex':0.2, *Congosorex\_polli*:21.1) '1805\_Crocidurinae':34.1, (((((*Sorex\_alpinus*:21.5, ((*Sorex\_raddei*:19.8, *Sorex\_mirabilis*:19.8, *Sorex\_excelsus*:19.8, (*Sorex\_samniticus*:12.1, (*Sorex\_arcticus*:9.5, ((*Sorex\_coronatus*:5.4, (*Sorex\_araneus*:3.5, *Sorex\_granarius*:3.5) '1825':1.9) '1824':1.2, (*Sorex\_satunini*:3.2, *Sorex\_daphaenodon*:3.2) '1826':3.4) '1823':1.7, (*Sorex\_tundrensis*:3.6, *Sorex\_asper*:3.6) '1827':4.7) '1822':1.2) '1821':2.6) '1820':7.7, ((*Sorex\_isodon*:6.3, *Sorex\_unguiculatus*:6.3) '1829':7.0, 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9) '2072\_Echymipera':3.2, *Microperoryctes\_longicauda*:15.1, *Microperoryctes\_murina*:15.1, *Microperoryctes\_papuensis*:15.1, (*Peroryctes\_broadbenti*:6.8, *Peroryctes\_rufifrons*:6.8)'2073\_Peroryctes':8.3, *Rhynchomeles\_prattorum*:15.1)'2071\_Peroryctidae':15.7, (((*Isoodon\_auratus*:2.0, *Isoodon\_obesus*:2.0)'2076':7.5, *Isoodon\_macrourus*:9.5)'2075\_Isoodon':6.9, *Perameles\_bougainville*:16.4, (*Perameles\_gunnii*:7.7, *Perameles\_nasuta*:7.7)'2077\_Perameles\*':8.7)'2074\_Peramelidae\*':14.4)'2070':11.0, *Macrotis\_lagotis*:41.8)'2069\_Peramelemorphia':31.7)'1920':2.8, ((*Caenolestes\_caniventer*:21.2, *Caenolestes\_convexus*:21.2, *Caenolestes\_fuliginosus*:21.2)'2079\_Caenolestes':18.9, *Lestoros\_inca*:40.1, *Rhyncholestes\_raphanurus*:40.1)'2078\_Paucituberculata\_Caenolestidae':36.2)'1919':17.4, (((*Caluromys\_derbianus*:4.4, *Caluromys\_lanatus*:4.4, *Caluromys\_philander*:4.4)'2083\_Caluromys':9.7, *Caluromys\_iops\_irrupta*:14.1)'2082':36.8, *Glironia\_venusta*:50.9)'2081\_Caluromyinae':16.8, (((*Chironectes\_minimus*:25.7, (((*Didelphis\_albiventris*:25.1, (*Didelphis\_aureola*:24.2, *Didelphis\_marsupialis*:24.2)'2092':0.9)'2091':0.2, *Didelphis\_virginiana*:25.3)'2090\_Didelphis':0.1, (*Philander\_andersoni*:6.7, *Philander\_opossum*:6.7)'2093\_Philander':18.7)'2089':0.2, *Lutreolina\_crassicaudata*:25.6)'2088':0.1)'2087':15.3, *Metachirus\_nudicaudatus*:41.0)'2086':7.7, (((*Gracilinanus\_aceramarcae*:25.8, (*Gracilinanus\_agilis*:11.4, *Gracilinanus\_microtarsus*:11.4)'2098':14.4, *Gracilinanus\_emiliae*:25.8, *Gracilinanus\_marica*:25.8)'2097':2.7, *Gracilinanus\_dryas*:28.5)'2096\_Gracilinanus':18.3, (*Marmosops\_cracens*:28.7, *Marmosops\_dorothea*:28.7, (*Marmosops\_fuscatus*:10.4, *Marmosops\_parvidens*:10.4)'2100':18.3, *Marmosops\_handyi*:28.7, *Marmosops\_impavidus*:28.7, *Marmosops\_incanus*:28.7, *Marmosops\_invictus*:28.7, *Marmosops\_noctivagus*:28.7)'2099\_Marmosops':18.1)'2095':0.2, (*Lestodelphys\_halli*:31.1, ((*Thylamys\_elegans*:9.5, *Thylamys\_pallidior*:9.5)'2103':21.4, (*Thylamys\_macrura*:30.7, *Thylamys\_pusilla*:30.7)'2104':0.2)'2102\_Thylamys':0.2)'2101':15.9)'2094':1.7)'2085':9.7, ((*Marmosa\_andersoni*:40.5, *Marmosa\_canescens*:40.5, *Marmosa\_lepida*:40.5, *Marmosa\_mexicana*:40.5, *Marmosa\_murina*:40.5, *Marmosa\_robinsoni*:40.5, *Marmosa\_rubra*:40.5, *Marmosa\_tyleriana*:40.5, *Marmosa\_xerophila*:40.5, (*Micoureus\_alstoni*:18.1, *Micoureus\_constantiae*:18.1, *Micoureus\_demerarae*:18.1, *Micoureus\_regina*:18.1)'2107\_Micoureus':22.4)'2106':10.5, (*Monodelphis\_adusta*:45.4, *Monodelphis\_americana*:45.4, *Monodelphis\_brevicaudata*:45.4, *Monodelphis\_dimidiata*:45.4, *Monodelphis\_domestica*:45.4, *Monodelphis\_emiliae*:45.4, *Monodelphis\_iheringi*:45.4, *Monodelphis\_kunsi*:45.4, *Monodelphis\_maraxina*:45.4, *Monodelphis osgoodi*:45.4, *Monodelphis\_rubida*:45.4, *Monodelphis\_scalops*:45.4, *Monodelphis\_sorex*:45.4, *Monodelphis\_theresa*:45.4, *Monodelphis\_unistriata*:45.4)'2108\_Monodelphis':5.6)'2105':7.4)'2084\_Didelphinae':9.3)'2080\_Didelphimorphia\_Didelphidae':26.0)'1918\_Metatheria':59.4)'4':13.1)'1':10;  
end;

site	age	genus	o18	c13	o185pt	c135pt
607	0	CIB	3.28	0.88	NA	NA
849	0	CIB	3.58	0.15	NA	NA
607	0.002	CIB	3.16	0.96	3.252	0.72
659	0.002	CIB	2.91	3.228	0.66	NA
607	0.004	CIB	3.33	0.88	3.228	0.67
659	0.004	CIB	3.16	3.328	0.58	NA
849	0.004	CIB	3.58	0.17	3.392	NA
607	0.0059	CIB	3.66	0.7	3.32	0.38
659	0.006	CIB	3.23	3.334	NA	NA
806	0.007	CIB	2.97	0.27	3.36	0.34
659	0.008	CIB	3.23	3.268	0.17	NA
849	0.008	CIB	3.71	0.06	3.244	0.2
659	0.01	CIB	3.2	3.52	0.29	NA
806	0.01	CIB	3.11	0.27	3.604	0.21
607	0.0118	CIB	4.35	0.55	3.73	0.16
806	0.012	CIB	3.65	-0.04	3.784	NA
849	0.012	CIB	4.34	-0.15	4.026	0.06
659	0.013	CIB	3.47	4.1	-0.13	NA
806	0.015	CIB	4.32	-0.13	4.384	-0.09
849	0.016	CIB	4.72	-0.21	4.48	-0.06
607	0.0179	CIB	5.07	0.15	4.796	NA
659	0.018	CIB	4.82	4.872	-0.06	NA
659	0.018	CIB	5.05	4.922	0.01	NA
806	0.018	CIB	4.7	-0.13	4.85	-0.14
659	0.02	CIB	4.97	4.884	-0.03	NA
849	0.02	CIB	4.71	-0.14	4.758	-0.07
607	0.0214	CIB	4.99	0.17	4.804	-0.05
806	0.023	CIB	4.42	-0.18	4.734	-0.04
659	0.024	CIB	4.93	4.756	0.05	NA
849	0.024	CIB	4.62	-0.02	4.712	0.01
607	0.026	CIB	4.82	0.22	4.72	0.01
659	0.027	CIB	4.77	4.652	0.02	NA
806	0.028	CIB	4.46	-0.16	4.588	0.03
849	0.028	CIB	4.59	0.03	4.554	0.15
659	0.03	CIB	4.3	4.504	0.13	NA
607	0.0305	CIB	4.65	0.59	4.52	0.23
849	0.032	CIB	4.52	0.06	4.458	0.23
659	0.033	CIB	4.54	4.558	0.37	NA
806	0.033	CIB	4.28	0.05	4.524	0.23
607	0.0335	CIB	4.8	0.76	4.554	0.41
849	0.036	CIB	4.48	0.05	4.482	0.3
607	0.0361	CIB	4.67	0.76	4.544	0.43
806	0.037	CIB	4.18	-0.12	4.454	0.35
607	0.0388	CIB	4.59	0.72	4.472	0.34
659	0.04	CIB	4.35	4.414	0.2	NA
849	0.04	CIB	4.57	0	4.418	NA
659	0.041	CIB	4.38	4.406	0.24	NA
806	0.042	CIB	4.2	-0.12	4.452	0.18
607	0.0423	CIB	4.53	0.84	4.428	0.37
849	0.044	CIB	4.58	0.01	4.406	0.31
607	0.0457	CIB	4.45	0.74	4.392	0.42
806	0.047	CIB	4.27	0.07	4.382	0.22
659	0.048	CIB	4.13	4.382	0.46	NA
849	0.048	CIB	4.48	0.05	4.378	0.36
607	0.0486	CIB	4.58	0.97	4.414	0.62
659	0.05	CIB	4.43	4.472	NA	NA
607	0.0507	CIB	4.45	0.85	4.362	0.54
659	0.052	CIB	4.42	4.338	0.22	NA
806	0.052	CIB	3.93	-0.19	4.29	0.36

849	0.052	CIB	4.46	0.01	4.206	0.2
607	0.0529	CIB	4.19	0.77	4.168	0.23
607	0.055	CIB	4.23	0.32	4.294	0.26
659	0.055	CIB	4.03	4.276	0.26	NA
849	0.056	CIB	4.47	-0.08	4.226	0.02
607	0.0569	CIB	4.55	0.03	4.328	-0.03
806	0.057	CIB	3.85	-0.21	4.414	-0.09
849	0.06	CIB	4.54	-0.19	4.358	-0.12
607	0.0607	CIB	4.66	-0.01	4.318	-0.16
806	0.061	CIB	4.19	-0.23	4.386	-0.15
659	0.064	CIB	4.35	4.384	-0.14	NA
806	0.064	CIB	4.19	-0.17	4.326	-0.03
849	0.064	CIB	4.53	-0.13	4.44	0.03
607	0.0645	CIB	4.37	0.4	4.448	0.04
659	0.065	CIB	4.76	4.436	0.11	NA
849	0.068	CIB	4.39	0.06	4.322	0.52
659	0.069	CIB	4.13	4.24	0.38	NA
607	0.0705	CIB	3.96	1.09	4.128	0.33
806	0.072	CIB	3.96	-0.02	4.048	0.61
849	0.072	CIB	4.2	0.19	4.052	NA
607	0.0741	CIB	3.99	1.19	4.088	0.38
659	0.076	CIB	4.15	4.074	0.65	NA
849	0.076	CIB	4.14	0.14	3.988	0.83
607	0.077	CIB	3.89	1.07	3.912	0.71
607	0.0799	CIB	3.77	0.91	3.784	0.55
659	0.08	CIB	3.61	3.766	0.55	NA
806	0.08	CIB	3.51	0.08	3.796	0.45
849	0.08	CIB	4.05	0.12	3.78	0.22
607	0.0829	CIB	4.04	0.67	3.838	0.21
806	0.083	CIB	3.69	-0.01	3.994	0.38
849	0.084	CIB	3.9	0.18	3.958	0.37
607	0.086	CIB	4.29	0.93	3.918	0.26
806	0.087	CIB	3.87	0.06	3.964	0.33
849	0.088	CIB	3.84	0.15	3.998	0.54
659	0.089	CIB	3.92	3.99	0.41	NA
607	0.0894	CIB	4.07	1.01	3.938	0.4
659	0.09	CIB	4.25	3.95	0.38	NA
806	0.091	CIB	3.61	0.03	3.97	0.53
849	0.092	CIB	3.9	0.11	3.892	0.37
607	0.0929	CIB	4.02	0.98	3.726	0.29
659	0.095	CIB	3.68	3.794	0.31	NA
806	0.095	CIB	3.42	0.04	3.776	0.54
849	0.096	CIB	3.95	0.11	3.716	0.39
607	0.0967	CIB	3.81	1.01	3.728	0.29
659	0.098	CIB	3.72	3.822	0.28	NA
806	0.099	CIB	3.74	-0.02	3.756	0.46
849	0.1	CIB	3.89	0.02	3.764	0.28
607	0.1004	CIB	3.62	0.83	3.728	NA
659	0.101	CIB	3.85	3.674	0.26	NA
659	0.104	CIB	3.54	3.656	0.25	NA
806	0.104	CIB	3.47	-0.06	3.726	0.21
849	0.104	CIB	3.8	-0.01	3.708	0.18
607	0.1062	CIB	3.97	0.71	3.77	NA
849	0.108	CIB	3.76	0.06	3.838	0.15
659	0.109	CIB	3.85	3.878	0.33	NA
806	0.109	CIB	3.81	-0.16	3.82	0.17
607	0.112	CIB	4	0.7	3.842	0.21
849	0.112	CIB	3.68	0.09	3.728	NA
659	0.113	CIB	3.87	3.656	0.26	NA
659	0.114	CIB	3.28	3.594	0.33	NA

806	0.114	CIB	3.45	0	3.544	0.36
607	0.1155	CIB	3.69	0.91	3.62	NA
849	0.116	CIB	3.43	0.16	3.688	0.47
659	0.118	CIB	4.25	3.542	0.44	NA
607	0.1188	CIB	3.62	0.81	3.448	0.28
806	0.119	CIB	2.72	-0.14	3.412	0.26
659	0.12	CIB	3.22	3.2	0.39	NA
849	0.12	CIB	3.25	0.12	3.014	0.25
607	0.1216	CIB	3.19	0.78	3.13	0.3
659	0.122	CIB	2.69	3.096	0.46	NA
849	0.124	CIB	3.3	0	3.004	0.57
607	0.1244	CIB	3.05	0.92	3.246	0.21
659	0.126	CIB	2.79	3.476	0.23	NA
806	0.126	CIB	4.4	-0.3	3.572	0.19
607	0.1269	CIB	3.84	0.29	3.7	-0.05
849	0.128	CIB	3.78	-0.14	4.07	-0.01
659	0.131	CIB	3.69	4.076	0	NA
607	0.1312	CIB	4.64	0.12	4.208	-0.16
849	0.132	CIB	4.43	-0.27	4.45	-0.16
806	0.133	CIB	4.5	-0.34	4.704	NA
659	0.135	CIB	4.99	4.73	-0.32	NA
659	0.136	CIB	4.96	4.748	-0.34	NA
849	0.136	CIB	4.77	-0.34	4.826	-0.26
659	0.137	CIB	4.52	4.744	NA	NA
607	0.14	CIB	4.89	-0.17	4.71	-0.29
659	0.14	CIB	4.58	4.716	-0.27	NA
849	0.14	CIB	4.79	-0.37	4.722	-0.29
659	0.141	CIB	4.8	4.654	-0.35	NA
806	0.141	CIB	4.55	-0.33	4.65	NA
659	0.143	CIB	4.55	4.64	-0.32	NA
659	0.144	CIB	4.56	4.666	-0.3	NA
849	0.144	CIB	4.74	-0.31	4.614	-0.34
607	0.1447	CIB	4.93	-0.25	4.698	-0.26
806	0.145	CIB	4.29	-0.45	4.722	NA
607	0.1466	CIB	4.97	-0.03	4.704	-0.26
659	0.148	CIB	4.68	4.684	-0.2	NA
849	0.148	CIB	4.65	-0.29	4.84	-0.11
607	0.1482	CIB	4.83	-0.02	4.794	-0.08
659	0.149	CIB	5.07	4.718	-0.18	NA
607	0.1498	CIB	4.74	0.07	4.704	-0.19
806	0.151	CIB	4.3	-0.47	4.654	-0.15
607	0.152	CIB	4.58	0.14	4.566	-0.2
849	0.152	CIB	4.58	-0.35	4.596	NA
659	0.153	CIB	4.78	4.518	-0.19	NA
607	0.1548	CIB	4.59	-0.13	4.528	-0.19
806	0.156	CIB	4.06	-0.41	4.512	-0.29
849	0.156	CIB	4.63	-0.34	4.476	-0.2
659	0.157	CIB	4.5	4.482	-0.25	NA
607	0.1575	CIB	4.6	0.09	4.546	-0.12
849	0.16	CIB	4.62	-0.35	4.574	-0.04
607	0.1602	CIB	4.38	0.14	4.54	-0.15
659	0.161	CIB	4.77	4.49	-0.12	NA
806	0.161	CIB	4.33	-0.48	4.452	-0.11
607	0.163	CIB	4.35	0.21	4.436	-0.07
849	0.164	CIB	4.43	-0.3	4.32	-0.15
607	0.1655	CIB	4.3	0.28	4.36	-0.06
806	0.166	CIB	4.19	-0.44	4.362	-0.02
659	0.167	CIB	4.53	4.33	-0.01	NA
607	0.1676	CIB	4.36	0.38	4.37	-0.04
849	0.168	CIB	4.27	-0.26	4.354	0.1
607	0.1698	CIB	4.5	0.17	4.254	-0.03

659	0.171	CIB	4.11	4.266	-0.1	NA
806	0.171	CIB	4.03	-0.39	4.262	-0.11
607	0.172	CIB	4.42	0.08	4.266	-0.14
849	0.172	CIB	4.25	-0.3	4.284	NA
607	0.1741	CIB	4.52	0.04	4.3	-0.18
659	0.176	CIB	4.2	4.274	-0.29	NA
806	0.176	CIB	4.11	-0.54	4.346	-0.26
849	0.176	CIB	4.29	-0.36	4.31	-0.36
607	0.1763	CIB	4.61	-0.18	4.336	-0.28
849	0.18	CIB	4.34	-0.36	4.342	-0.24
607	0.1808	CIB	4.33	0.02	4.384	-0.21
806	0.181	CIB	4.14	-0.32	4.316	-0.23
659	0.183	CIB	4.5	4.336	-0.18	NA
849	0.184	CIB	4.27	-0.25	4.258	-0.32
659	0.186	CIB	4.44	4.242	-0.01	NA
806	0.186	CIB	3.94	-0.38	4.15	-0.03
607	0.1873	CIB	4.06	0.61	4.02	0.05
849	0.188	CIB	4.04	-0.09	3.818	0
659	0.189	CIB	3.62	3.82	0.12	NA
806	0.19	CIB	3.43	-0.15	3.776	-0.09
659	0.191	CIB	3.95	3.714	0.23	NA
849	0.192	CIB	3.84	-0.03	3.564	NA
607	0.1938	CIB	3.73	0.86	3.564	0.27
659	0.194	CIB	2.87	3.47	0.42	NA
806	0.195	CIB	3.43	-0.01	3.444	0.41
607	0.1955	CIB	3.48	0.85	3.436	0.41
849	0.196	CIB	3.71	-0.05	3.54	0.33
607	0.1969	CIB	3.69	0.84	3.614	0.55
806	0.199	CIB	3.39	0.02	3.598	0.48
607	0.1996	CIB	3.8	1.09	3.596	0.48
659	0.2	CIB	3.4	3.498	0.27	NA
849	0.2	CIB	3.7	-0.05	3.546	0.5
806	0.202	CIB	3.2	0.03	3.542	0.23
607	0.2024	CIB	3.63	0.92	3.538	NA
849	0.204	CIB	3.78	0.02	3.508	0.49
659	0.205	CIB	3.38	3.58	0.69	NA
607	0.2051	CIB	3.55	0.97	3.602	0.47
607	0.2079	CIB	3.56	0.86	3.568	0.66
849	0.208	CIB	3.74	0.02	3.626	0.52
607	0.2115	CIB	3.61	0.8	3.598	0.41
849	0.212	CIB	3.67	-0.04	3.644	0.17
659	0.214	CIB	3.41	3.602	0.26	NA
849	0.216	CIB	3.79	-0.12	3.592	0.07
607	0.2161	CIB	3.53	0.38	3.57	0.17
659	0.217	CIB	3.56	3.604	NA	NA
607	0.219	CIB	3.56	0.26	3.638	0.04
659	0.22	CIB	3.58	3.728	-0.16	NA
806	0.22	CIB	3.96	-0.51	3.856	NA
849	0.22	CIB	3.98	-0.22	4.078	-0.1
659	0.222	CIB	4.2	4.192	-0.16	NA
607	0.2223	CIB	4.67	0.44	4.216	-0.11
806	0.224	CIB	4.15	-0.35	4.364	-0.07
849	0.224	CIB	4.08	-0.31	4.39	0.08
659	0.225	CIB	4.72	4.284	-0.07	NA
607	0.2256	CIB	4.33	0.53	4.284	-0.07
806	0.228	CIB	4.14	-0.14	4.266	0.16
849	0.228	CIB	4.15	-0.37	4.124	NA
607	0.2289	CIB	3.99	0.62	3.928	0.02
659	0.229	CIB	4.01	3.918	-0.02	NA
806	0.232	CIB	3.35	-0.05	3.944	0.29
849	0.232	CIB	4.09	-0.26	4.026	0.17

607	0.2321	CIB	4.28	0.83	3.952	0.33
659	0.235	CIB	4.4	3.966	0.34	NA
607	0.2354	CIB	3.64	0.79	3.93	0.38
806	0.236	CIB	3.42	0	3.8	0.23
849	0.236	CIB	3.91	-0.09	3.61	0.35
659	0.238	CIB	3.63	3.518	0.12	NA
607	0.2387	CIB	3.45	0.7	3.586	0.12
806	0.24	CIB	3.18	-0.12	3.484	0.32
849	0.24	CIB	3.76	-0.03	3.54	0.37
607	0.242	CIB	3.4	0.72	3.578	0.28
607	0.2427	CIB	3.91	0.56	3.746	0.17
659	0.243	CIB	3.64	3.786	0.13	NA
806	0.244	CIB	4.02	-0.57	3.986	0.1
849	0.244	CIB	3.96	-0.2	4.144	0.06
607	0.2451	CIB	4.4	0.62	4.288	NA
607	0.2473	CIB	4.7	0.39	4.358	0.12
659	0.248	CIB	4.36	4.416	0.09	NA
806	0.248	CIB	4.37	-0.32	4.476	-0.08
849	0.248	CIB	4.25	-0.34	4.464	-0.05
607	0.2493	CIB	4.7	-0.03	4.506	NA
607	0.2515	CIB	4.64	0.5	4.494	-0.05
659	0.252	CIB	4.57	4.506	-0.04	NA
806	0.252	CIB	4.31	-0.31	4.454	0.04
849	0.252	CIB	4.31	-0.32	4.46	-0.12
607	0.2535	CIB	4.44	0.28	4.422	0.04
659	0.255	CIB	4.67	4.4	0.04	NA
607	0.2557	CIB	4.38	0.5	4.404	0.03
806	0.256	CIB	4.2	-0.32	4.41	0.08
849	0.256	CIB	4.33	-0.35	4.326	-0.02
607	0.2576	CIB	4.47	0.47	4.274	-0.2
806	0.259	CIB	4.25	-0.42	4.316	-0.17
607	0.2599	CIB	4.12	-0.39	4.322	-0.19
659	0.26	CIB	4.41	4.306	-0.23	NA
849	0.26	CIB	4.36	-0.43	4.166	0.06
607	0.2619	CIB	4.39	0.33	4.174	0.01
607	0.2627	CIB	3.55	0.74	4.252	NA
806	0.263	CIB	4.16	-0.62	4.256	0.01
659	0.264	CIB	4.8	4.206	-0.15	NA
849	0.264	CIB	4.38	-0.41	4.42	-0.44
607	0.2651	CIB	4.14	-0.3	4.474	-0.29
659	0.266	CIB	4.62	4.372	-0.35	NA
607	0.2669	CIB	4.43	-0.15	4.384	-0.35
806	0.267	CIB	4.29	-0.52	4.414	-0.16
849	0.268	CIB	4.44	-0.42	4.378	NA
607	0.2697	CIB	4.29	0.44	4.414	-0.17
659	0.27	CIB	4.44	4.444	-0.15	NA
659	0.272	CIB	4.61	4.362	0.29	NA
849	0.272	CIB	4.44	-0.47	4.288	0.08
607	0.2724	CIB	4.03	0.91	4.172	0.26
806	0.273	CIB	3.92	-0.19	4.136	NA
607	0.2752	CIB	3.86	0.77	4.11	0.27
659	0.276	CIB	4.43	4.074	0.22	NA
849	0.276	CIB	4.31	-0.4	4.012	0.24
607	0.2779	CIB	3.85	0.68	4.056	-0.02
806	0.278	CIB	3.61	-0.1	3.968	-0.08
849	0.28	CIB	4.08	-0.25	3.926	0
607	0.2825	CIB	3.99	-0.32	3.872	-0.23
659	0.283	CIB	4.1	3.94	-0.25	NA
806	0.284	CIB	3.58	-0.25	3.87	-0.24
849	0.284	CIB	3.95	-0.16	3.916	-0.09

659	0.287	CIB	3.73	3.888	-0.11	NA
607	0.2872	CIB	4.22	0.13	3.866	-0.13
849	0.288	CIB	3.96	-0.16	3.842	-0.11
806	0.29	CIB	3.47	-0.31	3.912	-0.15
659	0.291	CIB	3.83	3.938	-0.25	NA
849	0.292	CIB	4.08	-0.27	3.996	-0.01
607	0.294	CIB	4.25	0.54	4.162	-0.07
659	0.294	CIB	4.35	4.11	0.01	NA
806	0.296	CIB	4.04	-0.25	4.184	0.17
849	0.296	CIB	4.09	-0.3	4.236	NA
607	0.2965	CIB	4.19	0.69	4.268	0.05
659	0.299	CIB	4.61	4.276	0.04	NA
659	0.3	CIB	4.41	4.238	0.26	NA
849	0.3	CIB	4.08	-0.27	4.27	0.05
607	0.3018	CIB	3.9	0.36	4.166	-0.04
659	0.303	CIB	4.35	4.05	NA	NA
849	0.304	CIB	4.09	-0.21	4.01	0.21
659	0.305	CIB	3.83	3.964	0.14	NA
607	0.3059	CIB	3.88	0.49	3.882	0.02
659	0.308	CIB	3.67	3.778	0.22	NA
849	0.308	CIB	3.94	-0.23	3.67	NA
607	0.3105	CIB	3.57	0.39	3.644	-0.03
659	0.312	CIB	3.29	3.612	0.16	NA
849	0.312	CIB	3.75	-0.25	3.632	0.29
607	0.3152	CIB	3.51	0.72	3.666	0.11
659	0.316	CIB	4.04	3.728	0.04	NA
849	0.316	CIB	3.74	-0.14	3.596	0.24
806	0.318	CIB	3.6	-0.18	3.73	0.08
607	0.3199	CIB	3.09	0.56	3.662	0.05
659	0.32	CIB	4.18	3.564	0.12	NA
849	0.32	CIB	3.7	-0.03	3.556	0.2
659	0.322	CIB	3.25	3.524	0.18	NA
849	0.324	CIB	3.56	0.06	3.298	0.14
607	0.3245	CIB	2.93	0.51	3.274	0.19
806	0.325	CIB	3.05	0.01	3.302	0.17
659	0.327	CIB	3.58	3.238	0.33	NA
849	0.328	CIB	3.39	0.1	3.31	0.27
607	0.3292	CIB	3.24	0.71	3.382	NA
659	0.331	CIB	3.29	3.328	0.16	NA
849	0.332	CIB	3.41	0.01	3.356	0.11
806	0.333	CIB	3.31	-0.18	3.472	-0.1
607	0.3338	CIB	3.53	-0.12	3.568	-0.11
659	0.335	CIB	3.82	3.648	-0.22	NA
849	0.336	CIB	3.77	-0.13	3.8	-0.25
607	0.3387	CIB	3.81	-0.43	3.942	-0.27
806	0.34	CIB	4.07	-0.3	4.132	-0.27
849	0.34	CIB	4.24	-0.2	4.284	-0.3
607	0.3405	CIB	4.77	-0.27	4.492	-0.26
659	0.341	CIB	4.53	4.406	-0.21	NA
659	0.343	CIB	4.85	4.47	-0.21	NA
806	0.344	CIB	3.64	-0.15	4.42	-0.27
849	0.344	CIB	4.56	-0.22	4.472	NA
607	0.3442	CIB	4.52	-0.43	4.382	-0.22
659	0.346	CIB	4.79	4.574	-0.24	NA
607	0.347	CIB	4.4	-0.06	4.56	-0.25
849	0.348	CIB	4.6	-0.25	4.484	-0.26
659	0.349	CIB	4.49	4.468	-0.16	NA
806	0.349	CIB	4.14	-0.46	4.478	-0.22
607	0.3503	CIB	4.71	0.14	4.516	-0.21
849	0.352	CIB	4.45	-0.31	4.484	-0.29
659	0.353	CIB	4.79	4.53	0.04	NA

806	0.353	CIB	4.33	-0.51	4.438	0
607	0.3536	CIB	4.37	0.83	4.492	0.16
659	0.355	CIB	4.25	4.38	-0.06	NA
659	0.356	CIB	4.72	4.394	0.01	NA
806	0.356	CIB	4.23	-0.49	4.344	-0.43
849	0.356	CIB	4.4	-0.3	4.416	NA
607	0.3569	CIB	4.12	-0.49	4.292	NA
659	0.357	CIB	4.61	4.268	NA	NA
659	0.36	CIB	4.1	4.256	-0.41	NA
806	0.36	CIB	4.11	-0.49	4.32	-0.34
849	0.36	CIB	4.34	-0.25	4.268	NA
607	0.3602	CIB	4.44	-0.28	4.224	-0.33
659	0.362	CIB	4.35	4.244	-0.25	NA
806	0.363	CIB	3.88	-0.3	4.194	-0.25
849	0.364	CIB	4.21	-0.18	4.184	0
607	0.365	CIB	4.39	0.48	4.244	-0.03
659	0.365	CIB	4.09	4.206	NA	NA
659	0.366	CIB	4.46	4.28	0.09	NA
806	0.366	CIB	4.07	-0.4	4.248	NA
607	0.3668	CIB	4.39	0.2	4.194	-0.11
659	0.368	CIB	3.93	4.156	-0.07	NA
849	0.368	CIB	4.12	-0.14	4.21	0.13
607	0.3685	CIB	4.27	0.06	4.138	0.02
607	0.3716	CIB	4.34	0.41	4.168	-0.01
806	0.372	CIB	4.03	-0.26	4.188	0.13
849	0.372	CIB	4.08	-0.12	4.162	0.14
607	0.3733	CIB	4.22	0.54	4.104	0.03
659	0.375	CIB	4.14	4.148	0.14	NA
849	0.376	CIB	4.05	-0.05	4.138	0.12
607	0.3771	CIB	4.25	0.19	4.134	0.18
806	0.378	CIB	4.03	-0.19	4.11	0.13
607	0.3799	CIB	4.2	0.75	4.098	0.18
849	0.38	CIB	4.02	-0.04	4.04	0.34
659	0.382	CIB	3.99	4.018	0.38	NA
607	0.3832	CIB	3.96	0.83	3.982	0.18
806	0.384	CIB	3.92	-0.03	3.954	0.42
849	0.384	CIB	4.02	-0.03	3.95	0.33
607	0.3865	CIB	3.88	0.92	3.928	0.2
849	0.388	CIB	3.97	-0.06	3.84	0.16
659	0.389	CIB	3.85	3.792	0.37	NA
806	0.389	CIB	3.48	-0.21	3.784	0.15
607	0.3898	CIB	3.78	0.84	3.738	0.37
849	0.392	CIB	3.84	0.01	3.676	0.3
607	0.3931	CIB	3.74	0.85	3.662	0.39
806	0.395	CIB	3.54	-0.01	3.618	0.41
849	0.396	CIB	3.41	0.25	3.532	0.66
607	0.3964	CIB	3.56	0.97	3.516	0.61
607	0.3979	CIB	3.41	1.23	3.466	0.94
659	0.398	CIB	3.66	3.422	0.95	NA
607	0.3987	CIB	3.29	1.3	3.318	1.03
849	0.4	CIB	3.19	0.28	3.284	0.79
607	0.4009	CIB	3.04	1.29	3.114	0.85
806	0.401	CIB	3.24	0.3	3.092	0.8
607	0.4016	CIB	2.81	1.06	3.084	0.79
607	0.4033	CIB	3.18	1.05	3.142	0.73
849	0.404	CIB	3.15	0.24	3.072	0.84
607	0.4046	CIB	3.33	1.01	3.138	0.66
659	0.405	CIB	2.89	3.236	0.63	NA
607	0.406	CIB	3.67	0.93	3.318	0.56
806	0.406	CIB	3.14	0.33	3.334	0.75
607	0.4075	CIB	3.64	0.73	3.466	0.56

849	0.408	CIB	3.25	0.25	3.506	0.62
607	0.4089	CIB	3.63	0.56	3.44	0.51
659	0.41	CIB	3.34	3.474	0.07	NA
659	0.41	CIB	3.34	3.444	0.07	NA
607	0.4106	CIB	3.81	-0.61	3.388	-0.03
806	0.412	CIB	3.1	0.26	3.674	-0.16
849	0.412	CIB	3.35	0.26	3.654	NA
607	0.4125	CIB	4.77	-0.56	3.582	0.06
659	0.413	CIB	3.24	3.91	-0.2	NA
849	0.416	CIB	3.45	0.27	4.204	-0.49
607	0.4162	CIB	4.74	-0.76	3.856	-0.29
607	0.4179	CIB	4.82	-0.92	3.982	NA
806	0.418	CIB	3.03	0.25	4.284	-0.51
659	0.419	CIB	3.87	4.228	-0.43	NA
607	0.4198	CIB	4.96	-0.59	3.974	-0.13
806	0.42	CIB	4.46	-0.45	4.062	-0.25
849	0.42	CIB	3.55	0.28	4.012	-0.21
659	0.423	CIB	3.47	3.846	-0.07	NA
806	0.423	CIB	3.62	-0.09	3.7	0
849	0.424	CIB	4.13	-0.02	3.966	-0.09
806	0.425	CIB	3.73	-0.17	4.212	-0.26
659	0.426	CIB	4.88	4.418	-0.32	NA
607	0.4271	CIB	4.7	-0.77	4.55	-0.41
806	0.428	CIB	4.65	-0.33	4.716	-0.49
849	0.428	CIB	4.79	-0.36	4.674	-0.45
659	0.43	CIB	4.56	4.624	-0.4	NA
806	0.431	CIB	4.67	-0.33	4.73	-0.42
607	0.4312	CIB	4.45	-0.58	4.744	-0.43
659	0.432	CIB	5.18	4.784	-0.43	NA
849	0.432	CIB	4.86	-0.37	4.892	-0.46
607	0.4344	CIB	4.76	-0.42	4.916	-0.38
659	0.436	CIB	5.21	4.86	-0.37	NA
806	0.436	CIB	4.57	-0.34	4.824	-0.35
849	0.436	CIB	4.9	-0.35	4.882	-0.32
607	0.438	CIB	4.68	-0.28	4.818	-0.33
659	0.44	CIB	5.05	4.758	-0.3	NA
849	0.44	CIB	4.89	-0.34	4.716	-0.31
806	0.441	CIB	4.27	-0.23	4.746	-0.32
607	0.4417	CIB	4.69	-0.38	4.678	-0.31
659	0.444	CIB	4.83	4.586	-0.32	NA
849	0.444	CIB	4.71	-0.28	4.658	-0.36
806	0.445	CIB	4.43	-0.4	4.68	-0.35
607	0.4453	CIB	4.63	-0.36	4.626	-0.31
659	0.447	CIB	4.8	4.534	-0.35	NA
849	0.448	CIB	4.56	-0.19	4.65	-0.34
806	0.45	CIB	4.25	-0.46	4.64	-0.31
659	0.452	CIB	5.01	4.534	-0.3	NA
849	0.452	CIB	4.58	-0.28	4.444	-0.32
607	0.4526	CIB	4.27	-0.28	4.376	-0.13
806	0.454	CIB	4.11	-0.25	4.336	NA
607	0.4545	CIB	3.91	0.31	4.342	-0.15
659	0.455	CIB	4.81	4.294	-0.19	NA
849	0.456	CIB	4.61	-0.37	4.302	-0.19
607	0.4577	CIB	4.03	-0.45	4.428	-0.33
806	0.46	CIB	4.15	-0.23	4.42	NA
849	0.46	CIB	4.54	-0.27	4.372	-0.26
659	0.461	CIB	4.77	4.406	-0.2	NA
607	0.4613	CIB	4.37	-0.08	4.468	-0.2
806	0.464	CIB	4.2	-0.23	4.446	0.02
849	0.464	CIB	4.46	-0.2	4.332	0.17

607	0.4645	CIB	4.43	0.59	4.334	0.23
607	0.465	CIB	4.2	0.75	4.36	0.24
659	0.467	CIB	4.38	4.266	0.48	NA
849	0.468	CIB	4.33	-0.2	4.302	0.3
607	0.4686	CIB	3.99	0.79	4.396	0.15
806	0.469	CIB	4.61	-0.14	4.504	NA
659	0.471	CIB	4.67	4.482	0.14	NA
659	0.471	CIB	4.92	4.436	0.16	NA
849	0.472	CIB	4.22	-0.23	4.342	0.15
607	0.4722	CIB	3.76	0.86	4.178	NA
806	0.474	CIB	4.14	-0.18	3.898	0.4
659	0.475	CIB	3.85	3.894	0.41	NA
607	0.4759	CIB	3.52	1.14	3.946	0.22
849	0.476	CIB	4.2	-0.18	3.884	0.5
806	0.478	CIB	4.02	0.11	3.996	NA
607	0.4795	CIB	3.83	0.94	4.114	0.23
659	0.48	CIB	4.41	4.138	0.36	NA
849	0.48	CIB	4.11	0.04	4.118	0.49
659	0.481	CIB	4.32	4.142	0.04	NA
659	0.482	CIB	3.92	3.986	0.16	NA
659	0.483	CIB	3.95	3.932	0.27	NA
806	0.483	CIB	3.63	0.27	3.826	0.45
849	0.484	CIB	3.84	0.27	3.814	NA
607	0.4849	CIB	3.79	0.8	3.848	NA
659	0.485	CIB	3.86	3.876	0.54	NA
659	0.485	CIB	4.12	3.764	0.56	NA
659	0.487	CIB	3.77	3.748	0.37	NA
806	0.488	CIB	3.28	0.31	3.666	NA
849	0.488	CIB	3.71	0.43	3.636	0.4
659	0.49	CIB	3.45	3.596	0.35	NA
607	0.4913	CIB	3.97	0.45	3.666	0.41
806	0.492	CIB	3.57	0.2	3.714	0.41
849	0.492	CIB	3.63	0.57	3.732	NA
659	0.493	CIB	3.95	3.67	NA	NA
659	0.495	CIB	3.54	3.684	0.38	NA
849	0.496	CIB	3.66	0.45	3.806	0.18
806	0.497	CIB	3.64	0.11	3.756	NA
607	0.4973	CIB	4.24	-0.01	3.806	0.22
659	0.498	CIB	3.7	3.852	0.14	NA
849	0.5	CIB	3.79	0.33	3.874	0.19
659	0.501	CIB	3.89	3.81	0.29	NA
806	0.502	CIB	3.75	0.25	3.85	0.28
659	0.503	CIB	3.92	3.914	0.26	NA
849	0.504	CIB	3.9	0.26	4.052	0.25
659	0.505	CIB	4.11	4.03	0.21	NA
607	0.5057	CIB	4.58	0.24	4.032	NA
806	0.506	CIB	3.64	0.14	4.042	0.2
659	0.508	CIB	3.93	4.058	NA	NA
849	0.508	CIB	3.95	0.22	3.938	0.21
659	0.511	CIB	4.19	4.014	0.25	NA
806	0.511	CIB	3.98	0.27	4.064	NA
849	0.512	CIB	4.02	0.27	4.052	0.27
659	0.513	CIB	4.18	4.05	0.27	NA
806	0.516	CIB	3.89	0.26	4.16	0.32
849	0.516	CIB	4.18	0.29	4.192	0.34
607	0.5168	CIB	4.53	0.46	4.186	0.31
659	0.517	CIB	4.18	4.158	0.33	NA
849	0.52	CIB	4.15	0.23	4.118	0.34
806	0.521	CIB	3.75	0.34	4.024	0.22
659	0.523	CIB	3.98	3.928	0.21	NA
849	0.524	CIB	4.06	0.09	3.87	0.2

806	0.525	CIB	3.7	0.18	3.928	0.07
659	0.526	CIB	3.86	4.038	0.21	NA
849	0.528	CIB	4.04	-0.06	3.998	0.24
607	0.5295	CIB	4.53	0.61	4.042	0.16
659	0.53	CIB	3.86	4.11	0.07	NA
806	0.531	CIB	3.92	-0.08	4.14	0.11
849	0.532	CIB	4.2	-0.2	3.988	-0.12
659	0.535	CIB	4.19	4.07	-0.14	NA
806	0.536	CIB	3.77	-0.07	4.176	-0.16
849	0.536	CIB	4.27	-0.22	4.192	-0.16
659	0.54	CIB	4.45	4.22	-0.21	NA
849	0.54	CIB	4.28	-0.18	4.322	-0.19
806	0.541	CIB	4.33	-0.36	4.348	-0.18
607	0.5422	CIB	4.28	0.02	4.398	NA
849	0.544	CIB	4.4	-0.2	4.378	-0.22
659	0.545	CIB	4.7	4.39	-0.16	NA
806	0.545	CIB	4.18	-0.33	4.47	-0.22
849	0.548	CIB	4.39	-0.14	4.448	-0.27
659	0.549	CIB	4.68	4.364	-0.22	NA
806	0.55	CIB	4.29	-0.35	4.492	-0.18
849	0.552	CIB	4.28	-0.04	4.426	-0.21
659	0.554	CIB	4.82	4.34	-0.12	NA
806	0.554	CIB	4.06	-0.24	4.334	-0.04
607	0.5549	CIB	4.25	0.17	4.372	NA
849	0.556	CIB	4.26	-0.05	4.206	-0.09
659	0.558	CIB	4.47	4.224	-0.06	NA
806	0.558	CIB	3.99	-0.25	4.14	-0.13
849	0.56	CIB	4.15	-0.11	4.1	-0.14
806	0.562	CIB	3.83	-0.12	4.068	NA
849	0.564	CIB	4.06	-0.08	3.99	-0.1
659	0.565	CIB	4.31	3.902	0.08	NA
806	0.567	CIB	3.6	-0.09	3.92	0.1
607	0.5676	CIB	3.71	0.62	3.854	0.25
849	0.568	CIB	3.92	-0.07	3.776	NA
607	0.5707	CIB	3.73	0.53	3.772	0.3
659	0.571	CIB	3.92	3.78	0.12	NA
806	0.571	CIB	3.58	0.1	3.764	0.27
849	0.572	CIB	3.75	-0.07	3.756	0.19
607	0.5735	CIB	3.84	0.53	3.69	0.17
659	0.574	CIB	3.69	3.674	0.16	NA
806	0.575	CIB	3.59	0.12	3.546	0.18
849	0.576	CIB	3.5	0.06	3.442	0
806	0.577	CIB	3.11	-0.01	3.516	0.09
806	0.578	CIB	3.32	-0.18	3.558	0.04
607	0.579	CIB	4.06	0.48	3.574	0.04
806	0.58	CIB	3.8	-0.16	3.698	0.2
849	0.58	CIB	3.58	0.07	3.766	0.42
607	0.5805	CIB	3.73	0.77	3.78	0.27
607	0.5821	CIB	3.66	0.94	3.792	0.3
806	0.583	CIB	4.13	-0.25	3.814	0.45
849	0.584	CIB	3.86	-0.02	3.968	0.37
607	0.5846	CIB	3.69	0.81	4.032	0.13
659	0.585	CIB	4.5	4.018	0.17	NA
806	0.587	CIB	3.98	-0.01	3.966	0.38
849	0.588	CIB	4.06	-0.12	4	0.41
607	0.5883	CIB	3.6	0.84	3.836	0.52
607	0.5898	CIB	3.86	0.94	3.774	0.53
607	0.5915	CIB	3.68	0.97	3.77	0.53
806	0.592	CIB	3.67	0.02	3.768	0.57
849	0.592	CIB	4.04	-0.14	3.692	0.58
607	0.593	CIB	3.59	1.04	3.694	0.49

607	0.5954	CIB	3.48	1.02	3.72	0.64
659	0.596	CIB	3.69	3.672	1.03	NA
659	0.596	CIB	3.8	3.734	1.02	NA
659	0.596	CIB	3.8	3.758	-0.02	NA
659	0.596	CIB	3.9	3.8	-0.12	NA
806	0.596	CIB	3.6	-0.02	3.744	0.3
849	0.596	CIB	3.9	-0.21	3.75	0.18
607	0.5967	CIB	3.52	1.14	3.616	0.33
849	0.6	CIB	3.83	-0.18	3.786	0.41
607	0.6009	CIB	3.23	0.9	3.776	0.45
659	0.601	CIB	4.45	3.868	0.16	NA
806	0.601	CIB	3.85	-0.07	3.8	0.22
849	0.604	CIB	3.98	-0.03	4	0
806	0.605	CIB	3.49	0.09	3.904	0.01
659	0.606	CIB	4.23	3.866	0.24	NA
849	0.608	CIB	3.97	0.04	3.816	0.22
607	0.6092	CIB	3.66	0.85	3.78	0.44
806	0.61	CIB	3.73	-0.09	3.804	NA
607	0.612	CIB	3.31	0.95	3.748	NA
659	0.612	CIB	4.35	3.74	0.24	NA
849	0.612	CIB	3.69	0.04	3.684	0.55
806	0.614	CIB	3.62	0.07	3.7	0.3
607	0.6153	CIB	3.45	1.13	3.556	0.4
849	0.616	CIB	3.39	-0.06	3.388	0.49
607	0.6166	CIB	3.63	0.83	3.314	0.47
659	0.617	CIB	2.85	3.422	0.23	NA
806	0.619	CIB	3.25	-0.03	3.484	0.33
607	0.6192	CIB	3.99	0.19	3.504	-0.02
659	0.62	CIB	3.7	3.75	0	NA
849	0.62	CIB	3.73	-0.23	3.89	0.01
607	0.6211	CIB	4.08	0.08	3.976	-0.15
659	0.623	CIB	3.95	4.118	-0.2	NA
806	0.623	CIB	4.42	-0.29	4.18	-0.18
849	0.624	CIB	4.41	-0.34	4.33	-0.33
659	0.625	CIB	4.04	4.542	-0.28	NA
806	0.627	CIB	4.83	-0.36	4.53	-0.27
607	0.628	CIB	5.01	-0.12	4.606	-0.27
659	0.628	CIB	4.36	4.754	NA	NA
849	0.628	CIB	4.79	-0.32	4.644	-0.24
659	0.63	CIB	4.78	4.654	-0.31	NA
806	0.631	CIB	4.28	-0.29	4.798	-0.29
659	0.632	CIB	5.06	4.796	-0.28	NA
849	0.632	CIB	5.08	-0.26	4.836	-0.01
806	0.635	CIB	4.78	-0.29	4.978	0
607	0.636	CIB	4.98	0.8	4.878	-0.11
849	0.636	CIB	4.99	-0.25	4.796	-0.07
806	0.638	CIB	4.56	-0.57	4.806	-0.06
607	0.6399	CIB	4.67	-0.04	4.762	-0.2
849	0.64	CIB	4.83	-0.22	4.636	-0.24
607	0.6413	CIB	4.76	0.07	4.68	-0.18
806	0.642	CIB	4.36	-0.45	4.676	-0.25
849	0.644	CIB	4.78	-0.26	4.542	-0.31
607	0.6443	CIB	4.65	-0.39	4.494	-0.41
806	0.646	CIB	4.16	-0.52	4.58	-0.39
659	0.648	CIB	4.52	4.476	-0.46	NA
849	0.648	CIB	4.79	-0.37	4.49	-0.46
806	0.649	CIB	4.26	-0.56	4.516	-0.45
849	0.652	CIB	4.72	-0.39	4.53	-0.45
806	0.653	CIB	4.29	-0.49	4.422	-0.46
849	0.656	CIB	4.59	-0.44	4.49	-0.33

806	0.657	CIB	4.25	-0.44	4.456	-0.27
607	0.6572	CIB	4.6	0.13	4.448	-0.3
607	0.6598	CIB	4.55	-0.09	4.434	-0.32
806	0.66	CIB	4.25	-0.64	4.502	-0.27
849	0.66	CIB	4.52	-0.56	4.406	-0.37
607	0.6625	CIB	4.59	-0.17	4.4	-0.48
806	0.664	CIB	4.12	-0.39	4.452	-0.33
849	0.664	CIB	4.52	-0.64	4.436	-0.23
607	0.6664	CIB	4.51	0.13	4.324	-0.25
607	0.6678	CIB	4.44	-0.08	4.39	-0.29
806	0.668	CIB	4.03	-0.26	4.336	-0.11
849	0.668	CIB	4.45	-0.61	4.218	-0.17
607	0.6708	CIB	4.25	0.28	4.202	-0.26
806	0.671	CIB	3.92	-0.19	4.182	-0.12
849	0.672	CIB	4.36	-0.52	4.274	0
607	0.6731	CIB	3.93	0.43	4.238	-0.14
659	0.674	CIB	4.91	4.222	0.08	NA
806	0.675	CIB	4.07	-0.26	4.206	0.11
607	0.6757	CIB	3.84	0.68	4.35	0.01
849	0.676	CIB	4.28	-0.4	4.124	0.18
659	0.677	CIB	4.65	4.206	0.32	NA
607	0.6784	CIB	3.78	0.69	4.274	0
659	0.68	CIB	4.48	4.162	0.48	NA
849	0.68	CIB	4.18	-0.3	4.084	NA
607	0.681	CIB	3.72	1.05	4.04	0.58
659	0.683	CIB	4.26	3.94	0.38	NA
607	0.6837	CIB	3.56	0.98	3.776	0.44
849	0.684	CIB	3.98	-0.22	3.858	0.23
806	0.685	CIB	3.36	-0.06	3.7	0.47
659	0.686	CIB	4.13	3.742	0.21	NA
607	0.6863	CIB	3.47	1.19	3.63	0.49
849	0.688	CIB	3.77	-0.08	3.654	0.68
607	0.689	CIB	3.42	0.92	3.552	NA
659	0.69	CIB	3.48	3.594	0.29	NA
659	0.692	CIB	3.62	3.526	0.48	NA
849	0.692	CIB	3.68	0.04	3.514	0.05
659	0.694	CIB	3.43	3.518	NA	NA
806	0.694	CIB	3.36	0.06	3.544	0.03
659	0.696	CIB	3.5	3.526	0.29	NA
849	0.696	CIB	3.75	0	3.626	0.19
607	0.6978	CIB	3.59	0.8	3.682	0.47
849	0.7	CIB	3.93	-0.1	3.68	NA
607	0.701	CIB	3.64	1.17	3.7	0.62
659	0.701	CIB	3.49	3.818	0.3	NA
659	0.704	CIB	3.85	3.742	0.35	NA
849	0.704	CIB	4.18	-0.18	3.8	-0.11
806	0.705	CIB	3.55	0.07	3.962	-0.13
607	0.7078	CIB	3.93	-0.21	4.06	-0.13
849	0.708	CIB	4.3	-0.19	4.1	-0.18
849	0.712	CIB	4.34	-0.15	4.228	-0.24
607	0.713	CIB	4.38	-0.41	4.41	-0.25
659	0.713	CIB	4.19	4.322	-0.2	NA
659	0.715	CIB	4.84	4.324	-0.22	NA
806	0.715	CIB	3.86	-0.05	4.354	-0.27
849	0.716	CIB	4.35	-0.2	4.43	-0.26
607	0.7165	CIB	4.53	-0.55	4.336	-0.27
607	0.72	CIB	4.57	-0.25	4.43	-0.32
849	0.72	CIB	4.37	-0.28	4.448	-0.31
659	0.723	CIB	4.33	4.402	-0.23	NA
607	0.7235	CIB	4.44	-0.17	4.254	-0.22
849	0.724	CIB	4.3	-0.22	4.264	-0.22

806	0.725	CIB	3.83	-0.22	4.238	-0.2
607	0.7269	CIB	4.42	-0.26	4.14	-0.21
849	0.728	CIB	4.2	-0.13	4.09	-0.09
659	0.73	CIB	3.95	4.168	-0.08	NA
607	0.7304	CIB	4.05	0.27	4.04	0.23
849	0.732	CIB	4.22	-0.19	3.998	0.19
607	0.7339	CIB	3.78	0.98	3.988	NA
806	0.734	CIB	3.99	-0.31	4.024	0.06
659	0.736	CIB	3.9	3.984	0.31	NA
849	0.736	CIB	4.23	-0.26	4.068	-0.02
607	0.739	CIB	4.02	0.82	4.076	0.15
849	0.74	CIB	4.2	-0.33	4.146	NA
607	0.7409	CIB	4.03	0.38	4.13	0.12
659	0.743	CIB	4.25	4.144	-0.2	NA
849	0.744	CIB	4.15	-0.41	4.16	-0.22
607	0.7448	CIB	4.09	-0.42	4.236	-0.46
806	0.745	CIB	4.28	-0.43	4.212	-0.45
607	0.7478	CIB	4.41	-0.57	4.292	-0.47
849	0.748	CIB	4.13	-0.43	4.312	-0.47
607	0.7513	CIB	4.55	-0.5	4.362	-0.46
849	0.752	CIB	4.19	-0.42	4.412	-0.43
607	0.7548	CIB	4.53	-0.37	4.462	-0.43
659	0.755	CIB	4.66	4.408	-0.41	NA
806	0.755	CIB	4.38	-0.42	4.43	-0.33
849	0.756	CIB	4.28	-0.44	4.474	-0.32
806	0.757	CIB	4.3	-0.1	4.438	-0.27
659	0.758	CIB	4.75	4.456	-0.22	NA
607	0.7583	CIB	4.48	-0.11	4.456	-0.22
659	0.76	CIB	4.47	4.382	-0.21	NA
849	0.76	CIB	4.28	-0.46	4.306	-0.22
806	0.761	CIB	3.93	-0.06	4.208	-0.26
607	0.7618	CIB	4.37	-0.24	4.148	-0.29
806	0.763	CIB	3.99	-0.27	4.156	-0.25
849	0.764	CIB	4.17	-0.41	4.192	-0.28
607	0.7652	CIB	4.32	-0.29	4.158	-0.23
806	0.766	CIB	4.11	-0.17	4.184	-0.27
607	0.7671	CIB	4.2	-0.01	4.16	-0.25
806	0.768	CIB	4.12	-0.45	4.124	-0.24
849	0.768	CIB	4.05	-0.32	4.078	-0.25
659	0.769	CIB	4.14	4.03	-0.18	NA
849	0.772	CIB	3.88	-0.21	4.01	-0.09
607	0.7741	CIB	3.96	0.26	3.942	-0.01
659	0.775	CIB	4.02	3.83	0.17	NA
849	0.776	CIB	3.71	-0.07	3.796	0.3
607	0.7778	CIB	3.58	0.7	3.722	0.2
659	0.78	CIB	3.71	3.572	NA	NA
849	0.78	CIB	3.59	-0.02	3.55	0.17
659	0.784	CIB	3.27	3.584	-0.03	NA
849	0.784	CIB	3.6	-0.16	3.698	-0.13
607	0.7847	CIB	3.75	0.08	3.808	-0.17
607	0.788	CIB	4.28	-0.43	3.918	-0.21
659	0.788	CIB	4.14	3.984	-0.23	NA
849	0.788	CIB	3.82	-0.34	4.178	-0.4
659	0.79	CIB	3.93	4.154	-0.42	NA
607	0.791	CIB	4.72	-0.42	4.258	NA
849	0.792	CIB	4.16	-0.5	4.382	-0.46
659	0.793	CIB	4.66	4.478	-0.49	NA
659	0.796	CIB	4.44	4.428	-0.53	NA
849	0.796	CIB	4.41	-0.55	4.46	-0.55
607	0.7966	CIB	4.47	-0.54	4.432	-0.48

607	0.7977	CIB	4.32	-0.56	4.404	NA
607	0.7994	CIB	4.52	-0.25	4.4	-0.47
659	0.8	CIB	4.3	4.338	-0.27	NA
849	0.8	CIB	4.39	-0.51	4.336	-0.22
607	0.8035	CIB	4.16	0.25	4.27	-0.07
849	0.804	CIB	4.31	-0.36	4.298	NA
607	0.805	CIB	4.19	0.34	4.32	0.08
659	0.806	CIB	4.44	4.322	-0.1	NA
659	0.807	CIB	4.5	4.208	0.25	NA
849	0.808	CIB	4.17	-0.27	4.104	0.32
607	0.8082	CIB	3.74	0.67	3.982	NA
607	0.811	CIB	3.67	0.55	3.898	0.18
659	0.812	CIB	3.83	3.864	0.32	NA
849	0.812	CIB	4.08	-0.25	3.93	0.01
659	0.816	CIB	4	3.944	-0.04	NA
849	0.816	CIB	4.07	-0.27	3.988	-0.09
607	0.8182	CIB	3.74	0.41	3.888	-0.04
849	0.82	CIB	4.05	-0.26	3.872	NA
659	0.822	CIB	3.58	3.838	-0.02	NA
659	0.824	CIB	3.92	3.852	-0.01	NA
849	0.824	CIB	3.9	-0.2	3.812	0.01
607	0.8253	CIB	3.81	0.43	3.92	NA
849	0.828	CIB	3.85	-0.2	3.892	-0.06
659	0.832	CIB	4.12	3.878	0.19	NA
849	0.832	CIB	3.78	-0.26	3.878	0.1
607	0.8347	CIB	3.83	0.77	3.864	0.06
659	0.836	CIB	3.81	3.774	NA	NA
849	0.836	CIB	3.78	-0.33	3.764	0.03
659	0.84	CIB	3.67	3.71	0.01	NA
849	0.84	CIB	3.73	-0.34	3.598	NA
607	0.843	CIB	3.56	0.69	3.568	0.02
659	0.843	CIB	3.25	3.542	0.15	NA
849	0.844	CIB	3.63	-0.3	3.514	0.17
607	0.8478	CIB	3.54	0.55	3.576	0
849	0.848	CIB	3.59	-0.26	3.648	-0.07
659	0.851	CIB	3.87	3.588	0.18	NA
849	0.852	CIB	3.61	-0.26	3.624	-0.06
607	0.8527	CIB	3.33	0.68	3.64	-0.08
849	0.856	CIB	3.72	-0.39	3.438	NA
607	0.8598	CIB	3.67	-0.34	3.46	-0.12
659	0.86	CIB	2.86	3.628	-0.36	NA
849	0.86	CIB	3.72	-0.42	3.626	-0.35
607	0.8623	CIB	4.17	-0.29	3.762	-0.36
849	0.864	CIB	3.71	-0.36	3.96	-0.19
659	0.865	CIB	4.35	4.056	-0.21	NA
607	0.8678	CIB	3.85	0.31	4.15	-0.33
849	0.868	CIB	4.2	-0.51	4.32	-0.4
607	0.872	CIB	4.64	-0.75	4.37	NA
849	0.872	CIB	4.56	-0.66	4.518	-0.65
659	0.873	CIB	4.6	4.558	-0.61	NA
849	0.876	CIB	4.59	-0.67	4.536	-0.58
607	0.8781	CIB	4.4	-0.37	4.386	-0.61
849	0.88	CIB	4.53	-0.61	4.414	NA
607	0.8812	CIB	3.81	-0.79	4.38	-0.57
659	0.884	CIB	4.74	4.368	-0.66	NA
849	0.884	CIB	4.42	-0.52	4.318	-0.67
607	0.8843	CIB	4.34	-0.71	4.432	-0.55
659	0.887	CIB	4.28	4.346	NA	NA
849	0.888	CIB	4.38	-0.41	4.366	-0.56
659	0.89	CIB	4.31	4.284	-0.36	NA
659	0.89	CIB	4.52	4.308	-0.4	NA

607	0.8904	CIB	3.93	-0.31	4.288	-0.4
849	0.892	CIB	4.4	-0.49	4.252	NA
659	0.893	CIB	4.28	4.208	-0.43	NA
659	0.896	CIB	4.13	4.242	-0.16	NA
849	0.896	CIB	4.3	-0.49	4.126	0.01
607	0.8966	CIB	4.1	0.51	4.112	-0.14
659	0.897	CIB	3.82	4.124	NA	NA
849	0.9	CIB	4.21	-0.45	4.072	0.11
659	0.902	CIB	4.19	4.032	-0.09	NA
607	0.9031	CIB	4.04	0.27	4.096	-0.24
659	0.904	CIB	3.9	4.076	0.06	NA
849	0.904	CIB	4.14	-0.55	4.028	NA
607	0.9058	CIB	4.11	0.46	4.05	-0.26
659	0.908	CIB	3.95	4.05	-0.12	NA
849	0.908	CIB	4.15	-0.7	3.976	0.03
607	0.9089	CIB	3.9	0.33	3.912	-0.19
659	0.909	CIB	3.77	3.96	NA	NA
659	0.911	CIB	3.79	3.948	0.09	NA
659	0.911	CIB	4.19	4.014	-0.49	NA
607	0.9119	CIB	4.09	-0.16	4.072	-0.7
849	0.912	CIB	4.23	-0.81	4.21	-0.67
607	0.9134	CIB	4.06	-1.12	4.286	NA
607	0.915	CIB	4.48	-0.57	4.324	-0.82
659	0.916	CIB	4.57	4.152	-0.61	NA
849	0.916	CIB	4.28	-0.79	4.19	-0.52
607	0.9186	CIB	3.37	0.03	4.15	-0.4
849	0.92	CIB	4.25	-0.76	4.02	NA
607	0.9237	CIB	4.28	-0.08	3.98	-0.35
659	0.924	CIB	3.92	4.104	-0.39	NA
849	0.924	CIB	4.08	-0.6	4.04	-0.33
607	0.9276	CIB	3.99	-0.12	3.998	-0.41
849	0.928	CIB	3.93	-0.52	3.978	-0.22
659	0.929	CIB	4.07	3.928	-0.19	NA
607	0.9312	CIB	3.82	0.38	3.892	0.03
849	0.932	CIB	3.83	-0.5	3.816	0.22
607	0.9336	CIB	3.81	0.77	3.762	NA
659	0.936	CIB	3.55	3.754	-0.04	NA
659	0.936	CIB	3.8	3.736	0.19	NA
849	0.936	CIB	3.78	-0.4	3.7	-0.29
659	0.939	CIB	3.74	3.674	-0.04	NA
849	0.94	CIB	3.63	-0.17	3.616	0.09
607	0.9404	CIB	3.42	0.45	3.546	0.26
607	0.944	CIB	3.51	0.49	3.514	NA
659	0.944	CIB	3.43	3.494	0.32	NA
659	0.944	CIB	3.58	3.486	0.36	NA
849	0.944	CIB	3.53	0.02	3.48	0.16
607	0.9464	CIB	3.38	0.57	3.428	NA
849	0.948	CIB	3.48	-0.12	3.368	0.23
659	0.95	CIB	3.17	3.352	0.15	NA
607	0.9517	CIB	3.28	0.46	3.266	0.01
849	0.952	CIB	3.45	-0.32	3.228	0.28
659	0.953	CIB	2.95	3.23	NA	NA
607	0.9549	CIB	3.29	0.69	3.334	-0.04
659	0.956	CIB	3.18	3.336	0.19	NA
849	0.956	CIB	3.8	-0.5	3.558	0.01
607	0.958	CIB	3.46	0.37	3.796	-0.17
607	0.96	CIB	4.48	-0.03	4.09	-0.14
849	0.96	CIB	4.06	-0.52	4.006	NA
659	0.962	CIB	4.23	4.282	-0.18	NA
849	0.964	CIB	4.22	-0.37	4.24	0.17
607	0.9641	CIB	4.42	0.2	4.164	0.23

607	0.9661	CIB	3.85	0.87	4.144	0.13
659	0.967	CIB	4.1	4.118	0.34	NA
849	0.968	CIB	4.13	-0.19	4.01	0.39
607	0.9705	CIB	4.09	0.48	4.018	0.04
659	0.971	CIB	3.88	3.966	0.18	NA
849	0.972	CIB	3.89	-0.16	3.83	0.3
607	0.9738	CIB	3.84	0.58	3.782	0.06
659	0.976	CIB	3.45	3.768	0.25	NA
849	0.976	CIB	3.85	-0.23	3.786	0.38
607	0.9776	CIB	3.81	0.79	3.818	0.09
659	0.98	CIB	3.98	3.886	0.24	NA
849	0.98	CIB	4	-0.29	3.906	0.39
607	0.9809	CIB	3.79	0.67	3.948	0.06
659	0.984	CIB	3.95	3.946	0.09	NA
849	0.984	CIB	4.02	-0.19	3.874	0.22
607	0.9852	CIB	3.97	0.18	3.9	-0.02
659	0.988	CIB	3.64	3.92	0.13	NA
849	0.988	CIB	3.92	-0.06	3.966	0.23
607	0.989	CIB	4.05	0.57	3.906	0.26
659	0.989	CIB	4.25	3.958	0.15	NA
659	0.992	CIB	3.67	3.948	0.47	NA
849	0.992	CIB	3.9	-0.07	3.832	0.42
607	0.9926	CIB	3.87	0.91	3.77	0.24
659	0.996	CIB	3.47	3.758	0.41	NA
849	0.996	CIB	3.94	-0.13	3.78	0.38
607	0.9973	CIB	3.61	0.91	3.76	0.36
849	1	CIB	4.01	-0.18	3.778	0.47
607	1.0014	CIB	3.77	0.82	3.816	0.46
607	1.0033	CIB	3.56	0.93	3.976	0.35
849	1.004	CIB	4.13	-0.19	3.998	0.49
659	1.005	CIB	4.41	4.082	0.25	NA
607	1.0073	CIB	4.12	0.4	4.214	0.13
849	1.008	CIB	4.19	-0.13	4.168	0.24
607	1.0097	CIB	4.22	0.44	4.098	0.16
659	1.01	CIB	3.9	4.07	0.08	NA
849	1.012	CIB	4.06	-0.07	4.012	0.43
659	1.013	CIB	3.98	3.946	0.29	NA
607	1.014	CIB	3.9	0.93	3.91	0.37
849	1.016	CIB	3.89	0	3.818	0.51
607	1.0165	CIB	3.72	0.61	3.776	0.63
659	1.018	CIB	3.6	3.746	0.41	NA
607	1.0191	CIB	3.77	0.99	3.686	0.57
849	1.02	CIB	3.75	0.05	3.72	0.55
607	1.0216	CIB	3.59	0.61	3.744	0.42
659	1.022	CIB	3.89	3.666	NA	NA
849	1.024	CIB	3.72	0.02	3.652	0.69
607	1.0241	CIB	3.38	0.99	3.594	0.71
607	1.0249	CIB	3.68	1.13	3.524	0.77
659	1.026	CIB	3.3	3.546	0.75	NA
607	1.0276	CIB	3.54	0.94	3.624	0.74
849	1.028	CIB	3.83	-0.08	3.642	0.6
607	1.0299	CIB	3.77	0.95	3.692	NA
659	1.031	CIB	3.77	3.782	0.24	NA
659	1.032	CIB	3.55	3.868	0.54	NA
849	1.032	CIB	3.99	-0.16	3.97	NA
607	1.0336	CIB	4.26	0.83	4.044	NA
607	1.0343	CIB	4.28	0.95	4.226	0.66
659	1.035	CIB	4.14	4.27	0.64	NA
607	1.0356	CIB	4.46	1	4.296	0.64
849	1.036	CIB	4.21	-0.23	4.256	0.54

607	1.0373	CIB	4.39	0.85	4.304	0.34
659	1.038	CIB	4.08	4.314	0.28	NA
849	1.04	CIB	4.38	-0.28	4.344	0.25
607	1.0409	CIB	4.51	0.78	4.338	0.05
849	1.044	CIB	4.36	-0.36	4.362	-0.1
659	1.048	CIB	4.36	4.256	NA	NA
849	1.048	CIB	4.2	-0.54	4.142	-0.3
607	1.0481	CIB	3.85	-0.28	4.032	-0.28
607	1.0517	CIB	3.94	-0.02	3.988	-0.34
659	1.052	CIB	3.81	3.916	-0.27	NA
849	1.052	CIB	4.14	-0.51	3.888	-0.27
659	1.054	CIB	3.84	3.904	-0.44	NA
659	1.056	CIB	3.71	3.918	-0.04	NA
849	1.056	CIB	4.02	-0.37	3.726	0.2
607	1.0569	CIB	3.88	0.76	3.724	0.06
659	1.06	CIB	3.18	3.61	0.3	NA
849	1.06	CIB	3.83	-0.21	3.434	0.65
607	1.0609	CIB	3.14	1	3.308	0.62
607	1.0628	CIB	3.14	1.06	3.384	0.45
659	1.064	CIB	3.25	3.204	0.73	NA
849	1.064	CIB	3.56	-0.07	3.172	0.64
607	1.0659	CIB	2.93	0.94	3.212	0.3
659	1.068	CIB	2.98	3.16	0.44	NA
849	1.068	CIB	3.34	0.02	3.124	0.47
607	1.0694	CIB	2.99	0.85	3.178	0.46
849	1.072	CIB	3.38	0.08	3.244	NA
607	1.073	CIB	3.2	0.89	3.294	0.48
659	1.074	CIB	3.31	3.36	0.49	NA
849	1.076	CIB	3.59	0.08	3.446	0.63
607	1.0778	CIB	3.32	0.91	3.512	0.5
659	1.078	CIB	3.81	3.6	0.33	NA
659	1.08	CIB	3.53	3.656	0.28	NA
849	1.08	CIB	3.75	0	3.698	-0.03
849	1.084	CIB	3.87	-0.06	3.674	0.24
659	1.087	CIB	3.53	3.744	0.13	NA
607	1.0873	CIB	3.69	0.77	3.796	0.06
849	1.088	CIB	3.88	-0.19	3.79	0.33
849	1.092	CIB	4.01	-0.3	3.842	NA
607	1.0921	CIB	3.84	1.03	3.854	0.26
659	1.093	CIB	3.79	3.91	0.23	NA
607	1.0947	CIB	3.75	0.5	3.826	0.54
849	1.096	CIB	4.16	-0.32	3.864	0.23
607	1.0991	CIB	3.59	0.93	3.856	0.31
849	1.1	CIB	4.03	-0.2	3.888	0.26
607	1.1017	CIB	3.75	0.62	3.846	0.32
659	1.103	CIB	3.91	3.882	0.11	NA
849	1.104	CIB	3.95	-0.08	3.782	0.48
659	1.106	CIB	3.77	3.818	0.26	NA
607	1.1071	CIB	3.53	0.89	3.722	0.44
849	1.108	CIB	3.93	-0.02	3.676	0.61
607	1.1106	CIB	3.43	0.95	3.718	0.42
659	1.111	CIB	3.72	3.778	0.4	NA
849	1.112	CIB	3.98	-0.15	3.8	0.33
607	1.116	CIB	3.83	0.8	3.898	0.13
849	1.116	CIB	4.04	-0.27	3.988	0
659	1.117	CIB	3.92	4.026	0.1	NA
849	1.12	CIB	4.17	-0.37	4.108	-0.19
607	1.1237	CIB	4.17	0.24	4.226	-0.28
849	1.124	CIB	4.24	-0.37	4.284	-0.29
607	1.1275	CIB	4.63	-0.6	4.28	-0.19
849	1.128	CIB	4.21	-0.33	4.38	-0.3

607	1.1293	CIB	4.15	0.09	4.37	-0.29
659	1.132	CIB	4.67	4.24	0	NA
849	1.132	CIB	4.19	-0.31	4.234	-0.01
607	1.1331	CIB	3.98	0.54	4.17	0.04
849	1.136	CIB	4.18	-0.35	4.054	-0.04
607	1.1375	CIB	3.83	0.27	3.972	0.11
849	1.14	CIB	4.09	-0.37	3.972	-0.06
607	1.1433	CIB	3.78	0.46	3.88	0.01
849	1.144	CIB	3.98	-0.33	3.848	0.17
659	1.145	CIB	3.72	3.796	0.35	NA
607	1.1472	CIB	3.67	0.92	3.818	0.15
659	1.148	CIB	3.83	3.818	0.39	NA
849	1.148	CIB	3.89	-0.15	3.754	0.57
659	1.15	CIB	3.98	3.788	0.24	NA
607	1.1505	CIB	3.4	0.94	3.786	NA
849	1.152	CIB	3.84	-0.07	3.76	0.25
659	1.155	CIB	3.82	3.704	NA	NA
849	1.156	CIB	3.76	-0.11	3.774	-0.09
659	1.159	CIB	3.7	3.68	0.29	NA
849	1.16	CIB	3.75	-0.09	3.594	NA
607	1.1602	CIB	3.37	1.07	3.59	0.33
659	1.163	CIB	3.39	3.528	0.49	NA
849	1.164	CIB	3.74	0.01	3.548	0.68
607	1.1658	CIB	3.39	0.97	3.606	0.35
659	1.166	CIB	3.85	3.61	0.53	NA
849	1.168	CIB	3.66	0.07	3.584	0.7
607	1.1697	CIB	3.41	1.06	3.624	0.41
659	1.17	CIB	3.61	3.552	0.54	NA
849	1.172	CIB	3.59	0.1	3.486	0.7
607	1.173	CIB	3.49	0.94	3.548	0.68
659	1.174	CIB	3.33	3.558	0.54	NA
607	1.1758	CIB	3.72	1.01	3.512	0.69
849	1.176	CIB	3.66	0.11	3.476	0.68
659	1.178	CIB	3.36	3.574	0.53	NA
607	1.1791	CIB	3.31	0.91	3.502	0.51
849	1.18	CIB	3.82	0.1	3.49	0.64
607	1.1812	CIB	3.36	0.92	3.594	0.51
659	1.182	CIB	3.6	3.618	0.47	NA
849	1.184	CIB	3.88	0.12	3.472	0.59
607	1.1855	CIB	3.43	0.74	3.574	0.3
659	1.186	CIB	3.09	3.672	0.45	NA
849	1.188	CIB	3.87	0.03	3.548	0.55
607	1.1888	CIB	4.09	0.89	3.57	NA
659	1.189	CIB	3.26	3.74	0.37	NA
607	1.1899	CIB	3.54	0.74	3.794	0.5
849	1.192	CIB	3.94	-0.18	3.666	0.37
607	1.1927	CIB	4.14	0.55	3.846	0.4
659	1.193	CIB	3.45	3.954	0.14	NA
607	1.196	CIB	4.16	0.47	4.004	0.31
849	1.196	CIB	4.08	-0.27	3.964	0.22
607	1.1965	CIB	4.19	0.47	4.114	0.1
659	1.197	CIB	3.94	4.168	0.01	NA
849	1.2	CIB	4.2	-0.29	4.17	0.1
607	1.2004	CIB	4.43	0.13	4.202	-0.16
659	1.203	CIB	4.09	4.3	0	NA
849	1.204	CIB	4.35	-0.31	4.322	0.12
607	1.2042	CIB	4.43	0.48	4.266	0.11
607	1.206	CIB	4.31	0.17	4.33	0
659	1.206	CIB	4.15	4.302	0.14	NA
849	1.208	CIB	4.41	-0.35	4.354	0.03
607	1.2081	CIB	4.21	0.26	4.336	-0.1

659	1.211	CIB	4.69	4.372	-0.16	NA
607	1.2119	CIB	4.22	-0.21	4.404	-0.1
849	1.212	CIB	4.33	-0.34	4.462	-0.02
659	1.213	CIB	4.57	4.346	-0.09	NA
607	1.2137	CIB	4.5	0.48	4.244	-0.04
849	1.216	CIB	4.11	-0.27	4.208	0.16
659	1.217	CIB	3.71	4.034	NA	NA
607	1.2176	CIB	4.15	0.27	3.946	0.12
659	1.218	CIB	3.7	3.89	0.19	NA
607	1.2196	CIB	4.06	0.37	3.976	NA
849	1.22	CIB	3.83	-0.07	3.902	0.29
659	1.222	CIB	4.14	3.882	0.25	NA
607	1.224	CIB	3.78	0.56	3.774	0.21
849	1.224	CIB	3.6	0.15	3.728	0.51
659	1.226	CIB	3.52	3.592	0.43	NA
607	1.2276	CIB	3.6	0.83	3.458	0.38
849	1.228	CIB	3.46	0.16	3.374	0.64
659	1.23	CIB	3.11	3.34	0.51	NA
607	1.2317	CIB	3.18	0.92	3.244	0.4
849	1.232	CIB	3.35	0.12	3.174	0.64
659	1.234	CIB	3.12	3.222	0.51	NA
607	1.2358	CIB	3.11	0.88	3.226	0.44
849	1.236	CIB	3.35	0.12	3.242	0.41
607	1.2399	CIB	3.2	0.64	3.282	NA
849	1.24	CIB	3.43	0	3.292	0.35
659	1.241	CIB	3.32	3.462	0.42	NA
607	1.244	CIB	3.16	0.63	3.564	0.11
659	1.244	CIB	4.2	3.778	0.17	NA
849	1.244	CIB	3.71	-0.3	3.92	-0.04
659	1.248	CIB	4.5	4.16	-0.28	NA
849	1.248	CIB	4.03	-0.46	4.206	-0.29
607	1.2488	CIB	4.36	-0.09	4.328	-0.28
607	1.2499	CIB	4.43	-0.3	4.248	-0.32
659	1.252	CIB	4.32	4.344	-0.33	NA
849	1.252	CIB	4.1	-0.41	4.274	-0.41
607	1.2523	CIB	4.51	-0.51	4.284	-0.48
659	1.253	CIB	4.01	4.3	-0.25	NA
607	1.2536	CIB	4.48	-0.51	4.308	-0.2
607	1.255	CIB	4.4	0.45	4.25	0.01
849	1.256	CIB	4.14	-0.22	4.168	NA
607	1.257	CIB	4.22	0.3	4.044	0.18
659	1.258	CIB	3.6	3.986	-0.02	NA
659	1.26	CIB	3.86	3.942	0	NA
849	1.26	CIB	4.11	-0.14	3.878	0.17
849	1.264	CIB	3.92	-0.17	3.942	NA
607	1.2642	CIB	3.9	0.82	3.932	0.31
659	1.267	CIB	3.92	3.86	0.32	NA
607	1.2675	CIB	3.81	0.74	3.732	0.48
849	1.268	CIB	3.75	-0.13	3.702	0.59
659	1.27	CIB	3.28	3.658	0.42	NA
607	1.2718	CIB	3.75	1.16	3.57	0.31
849	1.272	CIB	3.7	-0.09	3.596	0.74
659	1.275	CIB	3.37	3.678	0.52	NA
607	1.2757	CIB	3.88	1.14	3.602	0.31
849	1.276	CIB	3.69	-0.12	3.612	0.27
659	1.279	CIB	3.37	3.722	0.46	NA
849	1.28	CIB	3.75	-0.21	3.722	0.23
607	1.2817	CIB	3.92	1.01	3.77	0.17
659	1.284	CIB	3.88	3.842	NA	NA
849	1.284	CIB	3.93	-0.3	3.856	0.44
659	1.285	CIB	3.73	3.904	-0.04	NA

607	1.2852	CIB	3.82	0.6	3.998	0.09
849	1.288	CIB	4.16	-0.41	4.074	0.22
607	1.2891	CIB	4.35	0.48	4.198	0.18
659	1.291	CIB	4.31	4.266	-0.08	NA
607	1.2919	CIB	4.35	0.04	4.282	0.1
849	1.292	CIB	4.16	-0.42	4.22	-0.11
607	1.2929	CIB	4.24	0.28	4.156	0.03
849	1.296	CIB	4.04	-0.35	4.122	0.03
607	1.2967	CIB	3.99	0.59	4.084	0.09
659	1.3	CIB	4.18	3.964	0.22	NA
849	1.3	CIB	3.97	-0.18	3.886	0.53
607	1.3006	CIB	3.64	0.83	3.878	0.38
607	1.3039	CIB	3.65	0.88	3.754	0.54
849	1.304	CIB	3.95	0	3.75	0.59
607	1.3056	CIB	3.56	1.19	3.73	0.62
849	1.308	CIB	3.95	0.03	3.774	0.45
607	1.3091	CIB	3.54	0.99	3.772	0.67
849	1.312	CIB	3.87	0.03	3.8	0.54
607	1.3144	CIB	3.94	1.1	3.766	0.53
659	1.315	CIB	3.7	3.834	0.41	NA
849	1.316	CIB	3.78	-0.01	3.828	0.38
607	1.3172	CIB	3.88	0.51	3.84	0.21
849	1.32	CIB	3.84	-0.1	3.776	0.39
607	1.3205	CIB	4	0.42	3.824	0.36
607	1.3237	CIB	3.38	1.15	3.858	0.3
849	1.324	CIB	4.02	-0.18	3.876	0.41
607	1.3269	CIB	4.05	0.23	3.896	0.21
659	1.327	CIB	3.93	3.976	0.2	NA
849	1.328	CIB	4.1	-0.36	3.988	0.13
607	1.3301	CIB	3.78	1.1	4.004	0.13
849	1.332	CIB	4.08	-0.47	4.08	NA
607	1.3334	CIB	4.13	0.25	4.078	0.11
659	1.336	CIB	4.31	4.174	-0.1	NA
849	1.336	CIB	4.09	-0.45	4.176	0.13
607	1.3366	CIB	4.26	0.27	4.158	-0.02
607	1.3379	CIB	4.09	0.44	4.038	NA
849	1.34	CIB	4.04	-0.34	3.918	0.33
659	1.341	CIB	3.71	3.768	0.35	NA
607	1.3427	CIB	3.49	0.94	3.722	0.16
659	1.344	CIB	3.51	3.628	0.61	NA
849	1.344	CIB	3.86	-0.12	3.604	0.48
607	1.3458	CIB	3.57	1	3.546	0.55
849	1.348	CIB	3.59	0.1	3.538	0.47
607	1.3503	CIB	3.2	1.23	3.384	0.7
849	1.352	CIB	3.47	0.16	3.288	0.63
607	1.3543	CIB	3.09	1.02	3.27	0.62
659	1.355	CIB	3.09	3.304	0.6	NA
849	1.356	CIB	3.5	0.08	3.258	0.74
607	1.3588	CIB	3.37	1.13	3.374	0.39
659	1.359	CIB	3.24	3.498	0.54	NA
849	1.36	CIB	3.67	-0.04	3.546	0.69
607	1.362	CIB	3.71	0.99	3.64	0.66
659	1.363	CIB	3.74	3.79	0.45	NA
607	1.3636	CIB	3.84	1.02	3.874	0.7
849	1.364	CIB	3.99	-0.18	3.974	0.67
607	1.3651	CIB	4.09	0.98	3.95	NA
607	1.3665	CIB	4.21	0.87	4.01	0.35
659	1.367	CIB	3.62	4.05	0.46	NA
849	1.368	CIB	4.14	-0.27	4.066	0.49
607	1.3689	CIB	4.19	0.27	4.074	0.37
607	1.3699	CIB	4.17	1.1	4.174	0.21

659	1.372	CIB	4.25	4.088	0.53	NA
849	1.372	CIB	4.12	-0.27	4.05	0.61
607	1.3751	CIB	3.71	1	4.04	0.14
659	1.376	CIB	4	3.94	0.34	NA
849	1.376	CIB	4.12	-0.3	3.898	0.39
607	1.3796	CIB	3.75	0.93	4.012	0.19
849	1.38	CIB	3.91	-0.06	3.954	0.19
659	1.382	CIB	4.28	3.838	0.52	NA
849	1.384	CIB	3.71	0.17	3.812	0.38
607	1.3848	CIB	3.54	1.02	3.766	0.46
659	1.387	CIB	3.62	3.452	NA	NA
849	1.388	CIB	3.68	0.2	3.406	0.78
659	1.39	CIB	2.71	3.434	0.5	NA
607	1.3901	CIB	3.48	1.11	3.482	NA
849	1.392	CIB	3.68	0.18	3.422	0.81
659	1.393	CIB	3.86	3.616	0.64	NA
607	1.3953	CIB	3.38	1.13	3.514	0.48
849	1.396	CIB	3.68	0.13	3.516	0.41
659	1.398	CIB	2.97	3.462	0.57	NA
849	1.4	CIB	3.69	-0.04	3.428	0.38
607	1.4006	CIB	3.59	1.05	3.434	0.28
659	1.403	CIB	3.21	3.65	0.47	NA
849	1.404	CIB	3.71	-0.18	3.61	0.64
607	1.4058	CIB	4.05	1.04	3.648	0.22
659	1.408	CIB	3.49	3.836	0.35	NA
849	1.408	CIB	3.78	-0.2	3.888	0.32
607	1.4117	CIB	4.15	0.72	3.876	0.08
849	1.412	CIB	3.97	-0.28	3.978	-0.01
659	1.413	CIB	3.99	4.06	0.06	NA
849	1.416	CIB	4	-0.27	4.016	-0.24
659	1.418	CIB	4.19	3.998	-0.01	NA
849	1.42	CIB	3.93	-0.17	3.98	-0.04
607	1.4208	CIB	3.88	0.42	4	0.19
849	1.424	CIB	3.9	-0.12	4.022	NA
607	1.4249	CIB	4.1	0.61	4.006	0.22
659	1.425	CIB	4.3	3.828	0.16	NA
849	1.428	CIB	3.85	-0.02	3.674	0.3
659	1.43	CIB	2.99	3.594	0.04	NA
659	1.432	CIB	3.13	3.42	NA	NA
849	1.432	CIB	3.7	0.09	3.374	0.59
659	1.434	CIB	3.43	3.486	0.43	NA
607	1.4341	CIB	3.62	1.09	3.538	NA
849	1.436	CIB	3.55	0.11	3.49	0.41
659	1.437	CIB	3.39	3.45	0.58	NA
849	1.44	CIB	3.46	0.04	3.4	0.4
607	1.4403	CIB	3.23	1.06	3.368	0.33
659	1.444	CIB	3.37	3.348	NA	NA
849	1.444	CIB	3.39	-0.1	3.322	0.66
659	1.446	CIB	3.29	3.308	0.47	NA
607	1.4466	CIB	3.33	1.03	3.32	0.23
659	1.448	CIB	3.16	3.306	0.4	NA
849	1.448	CIB	3.43	-0.23	3.348	0.2
659	1.451	CIB	3.32	3.378	0.01	NA
849	1.452	CIB	3.5	-0.2	3.406	NA
607	1.4528	CIB	3.48	0.46	3.432	0.02
659	1.455	CIB	3.3	3.576	0	NA
849	1.456	CIB	3.56	-0.19	3.728	0.04
607	1.4567	CIB	4.04	-0.07	3.9	-0.1
607	1.4584	CIB	4.26	-0.04	4.026	-0.05
659	1.459	CIB	4.34	4.106	-0.11	NA
607	1.4593	CIB	3.93	0.1	4.174	-0.09

849	1.46	CIB	3.96	-0.41	4.19	-0.05
607	1.4613	CIB	4.38	0	4.154	-0.14
607	1.4623	CIB	4.34	0.1	4.19	-0.07
849	1.464	CIB	4.16	-0.49	4.236	0.01
607	1.4644	CIB	4.11	0.44	4.072	0.26
659	1.465	CIB	4.19	4.026	0.16	NA
607	1.4679	CIB	3.56	0.98	3.964	0.37
849	1.468	CIB	4.11	-0.31	3.884	0.22
659	1.469	CIB	3.85	3.928	NA	NA
849	1.472	CIB	3.71	0	3.906	-0.05
659	1.473	CIB	4.41	3.866	0.09	NA
849	1.476	CIB	3.45	0.17	3.758	0.35
659	1.477	CIB	3.91	3.712	0.44	NA
607	1.4779	CIB	3.31	0.89	3.522	0.4
849	1.48	CIB	3.48	0.25	3.484	0.48
849	1.484	CIB	3.46	0.3	3.37	0.65
659	1.485	CIB	3.26	3.362	0.57	NA
607	1.488	CIB	3.34	1.15	3.354	0.6
659	1.488	CIB	3.27	3.44	0.49	NA
849	1.488	CIB	3.44	0.34	3.464	0.56
849	1.492	CIB	3.89	-0.03	3.562	0.36
607	1.493	CIB	3.38	0.77	3.644	NA
659	1.493	CIB	3.83	3.786	0.37	NA
659	1.496	CIB	3.68	3.83	0.28	NA
659	1.496	CIB	4.15	4.078	-0.21	NA
849	1.496	CIB	4.11	-0.21	4.156	-0.2
659	1.499	CIB	4.62	4.274	0.06	NA
849	1.5	CIB	4.22	-0.19	4.238	NA
607	1.5004	CIB	4.27	0.57	4.29	0.3
659	1.503	CIB	3.97	4.24	0.19	NA
607	1.5031	CIB	4.37	0.53	4.194	0.31
849	1.504	CIB	4.37	-0.16	4.112	0.19
659	1.506	CIB	3.99	4.182	0.07	NA
659	1.508	CIB	3.86	4.196	0.08	NA
849	1.508	CIB	4.32	-0.15	4.166	0.23
607	1.5088	CIB	4.44	0.56	4.208	0.14
607	1.5115	CIB	4.22	0.29	4.162	NA
849	1.512	CIB	4.2	-0.13	4.098	0.33
659	1.513	CIB	3.63	4.026	0.43	NA
607	1.5144	CIB	4	0.6	3.948	0.48
607	1.516	CIB	4.08	0.96	3.906	0.52
659	1.516	CIB	3.83	3.98	0.64	NA
849	1.516	CIB	3.99	-0.01	3.936	0.53
607	1.5174	CIB	4	1.01	3.848	0.59
849	1.52	CIB	3.78	0.15	3.798	0.68
607	1.5204	CIB	3.64	1.22	3.746	0.72
607	1.5233	CIB	3.58	1.05	3.65	0.65
849	1.524	CIB	3.73	0.19	3.626	0.91
659	1.525	CIB	3.52	3.622	0.84	NA
607	1.5263	CIB	3.66	1.17	3.68	0.54
607	1.5279	CIB	3.62	0.94	3.894	0.65
849	1.528	CIB	3.87	-0.16	3.99	0.4
659	1.532	CIB	4.8	4.112	0.12	NA
849	1.532	CIB	4	-0.34	4.228	-0.23
607	1.5335	CIB	4.27	0.04	4.22	-0.25
849	1.536	CIB	4.2	-0.45	4.144	-0.16
659	1.539	CIB	3.83	4.212	-0.19	NA
607	1.5397	CIB	4.42	0.13	4.2	-0.18
849	1.54	CIB	4.34	-0.49	4.19	-0.09
607	1.5426	CIB	4.21	0.1	4.28	-0.17

659	1.543	CIB	4.15	4.212	-0.01	NA
849	1.544	CIB	4.28	-0.42	4.164	0.05
607	1.5472	CIB	4.08	0.76	4.136	0.03
849	1.548	CIB	4.1	-0.25	4.088	0.24
659	1.549	CIB	4.07	4.006	0.33	NA
607	1.5493	CIB	3.91	0.88	3.974	0.42
849	1.552	CIB	3.87	-0.09	3.934	0.64
607	1.5553	CIB	3.92	1.14	3.852	0.49
659	1.556	CIB	3.9	3.81	0.51	NA
849	1.556	CIB	3.66	0.04	3.744	0.8
607	1.5568	CIB	3.7	0.96	3.668	0.53
607	1.5581	CIB	3.54	1.04	3.576	0.61
849	1.56	CIB	3.54	0.07	3.498	0.76
607	1.5613	CIB	3.44	0.95	3.458	0.8
659	1.563	CIB	3.27	3.476	0.55	NA
607	1.5638	CIB	3.5	1.15	3.474	0.81
849	1.564	CIB	3.63	0.02	3.56	0.76
607	1.5662	CIB	3.53	1.12	3.624	0.78
659	1.567	CIB	3.87	3.692	0.46	NA
607	1.5679	CIB	3.59	0.81	3.742	0.61
849	1.568	CIB	3.84	-0.11	3.83	0.57
659	1.571	CIB	3.88	3.856	0.38	NA
607	1.5712	CIB	3.97	1	3.97	0.42
849	1.572	CIB	4	-0.19	4.016	0.39
607	1.573	CIB	4.16	0.96	4.118	0.5
849	1.576	CIB	4.07	-0.2	4.066	0.37
607	1.5767	CIB	4.39	0.92	4.134	0.63
659	1.579	CIB	3.71	4.118	0.33	NA
607	1.5796	CIB	4.34	0.82	4.144	0.57
849	1.58	CIB	4.08	-0.24	4.066	0.29
607	1.5829	CIB	4.2	0.76	4.13	0.4
849	1.584	CIB	4	-0.19	4.16	0.3
607	1.5858	CIB	4.03	0.86	4.114	0.31
659	1.588	CIB	4.49	4.062	0.39	NA
849	1.588	CIB	3.85	-0.18	4.012	0.38
607	1.5895	CIB	3.94	1.07	3.946	0.44
849	1.592	CIB	3.75	-0.23	3.78	0.35
607	1.5929	CIB	3.7	1.11	3.678	0.49
849	1.596	CIB	3.66	-0.01	3.678	0.46
659	1.598	CIB	3.34	3.632	0.58	NA
607	1.5995	CIB	3.94	0.97	3.672	0.6
849	1.6	CIB	3.52	0.23	3.628	0.81
607	1.601	CIB	3.9	1.22	3.64	0.68
659	1.602	CIB	3.44	3.584	0.58	NA
849	1.604	CIB	3.4	0.29	3.57	0.94
659	1.606	CIB	3.66	3.464	0.59	NA
607	1.6066	CIB	3.45	1.3	3.46	0.46
849	1.608	CIB	3.37	0.19	3.486	0.69
849	1.612	CIB	3.42	0.07	3.53	NA
607	1.6123	CIB	3.53	1.19	3.562	0.37
659	1.615	CIB	3.88	3.592	0.6	NA
849	1.616	CIB	3.61	0.01	3.672	0.89
607	1.6161	CIB	3.52	1.12	3.698	0.79
607	1.6189	CIB	3.82	1.24	3.674	0.62
659	1.619	CIB	3.66	3.654	0.82	NA
849	1.62	CIB	3.76	0.09	3.74	0.79
659	1.622	CIB	3.51	3.742	0.43	NA
607	1.6227	CIB	3.95	1.04	3.734	0.6
849	1.624	CIB	3.83	0.15	3.77	0.77
607	1.626	CIB	3.62	1.12	3.852	0.62
659	1.627	CIB	3.94	3.82	0.61	NA

849	1.628	CIB	3.92	0.16	3.828	0.62
607	1.6293	CIB	3.79	1.02	3.878	0.57
849	1.632	CIB	3.87	0.17	3.848	0.7
607	1.6326	CIB	3.87	0.92	3.766	0.84
607	1.634	CIB	3.79	1.25	3.726	0.64
659	1.634	CIB	3.51	3.652	0.88	NA
849	1.636	CIB	3.59	0.2	3.534	0.87
607	1.6393	CIB	3.5	1.15	3.5	0.5
659	1.64	CIB	3.28	3.556	0.7	NA
849	1.64	CIB	3.62	0.15	3.598	0.66
607	1.643	CIB	3.79	1.3	3.686	0.69
849	1.644	CIB	3.8	0.02	3.742	NA
607	1.6459	CIB	3.94	1.28	3.81	0.87
659	1.646	CIB	3.56	3.87	0.39	NA
659	1.648	CIB	3.96	3.994	0.57	NA
849	1.648	CIB	4.09	-0.14	4.066	-0.19
659	1.652	CIB	4.42	4.23	0.27	NA
849	1.652	CIB	4.3	-0.23	4.284	0.52
607	1.6524	CIB	4.38	1.19	4.318	0.49
607	1.6557	CIB	4.23	1.25	4.232	NA
849	1.656	CIB	4.26	-0.26	4.204	0.5
659	1.658	CIB	3.99	4.192	0.4	NA
849	1.66	CIB	4.16	-0.18	4.158	0.12
607	1.6623	CIB	4.32	0.8	4.11	0.18
659	1.663	CIB	4.06	4.18	0.4	NA
849	1.664	CIB	4.02	-0.08	4.114	0.43
607	1.6656	CIB	4.34	1.04	4.128	0.31
849	1.668	CIB	3.83	-0.04	4.074	0.53
659	1.669	CIB	4.39	4.106	0.74	NA
607	1.6704	CIB	3.79	1.21	3.978	0.41
659	1.671	CIB	4.18	4.088	0.63	NA
849	1.672	CIB	3.7	0.05	3.956	0.85
659	1.675	CIB	4.38	3.932	0.47	NA
607	1.6754	CIB	3.73	1.29	3.782	0.65
849	1.676	CIB	3.67	0.08	3.838	0.85
607	1.6787	CIB	3.43	1.17	3.704	0.63
659	1.679	CIB	3.98	3.658	0.6	NA
849	1.68	CIB	3.71	-0.03	3.63	0.78
607	1.6819	CIB	3.5	1.19	3.706	0.29
659	1.683	CIB	3.53	3.658	0.51	NA
849	1.684	CIB	3.81	-0.28	3.608	0.69
607	1.6852	CIB	3.74	1.17	3.686	0.17
659	1.687	CIB	3.46	3.698	0.39	NA
849	1.688	CIB	3.89	-0.39	3.7	0.61
607	1.6885	CIB	3.59	1.06	3.666	0.34
659	1.689	CIB	3.82	3.762	0.41	NA
659	1.69	CIB	3.57	3.682	0.81	NA
607	1.6918	CIB	3.94	0.55	3.742	0.11
659	1.692	CIB	3.49	3.7	0.35	NA
849	1.692	CIB	3.89	-0.33	3.74	NA
607	1.6951	CIB	3.61	0.84	3.74	0.02
659	1.696	CIB	3.77	3.87	0.09	NA
849	1.696	CIB	3.94	-0.46	3.912	0.03
607	1.6979	CIB	4.14	0.29	4.038	-0.06
849	1.7	CIB	4.1	-0.57	4.148	NA
607	1.7003	CIB	4.24	0.49	4.172	0.07
659	1.701	CIB	4.32	4.158	-0.18	NA
659	1.704	CIB	4.06	4.086	0.19	NA
849	1.704	CIB	4.07	-0.47	4.014	0.05
607	1.7053	CIB	3.74	0.56	3.862	0.34
659	1.706	CIB	3.88	3.822	0.19	NA

607	1.7078	CIB	3.56	0.94	3.832	0.4
849	1.708	CIB	3.86	-0.29	3.83	0.15
659	1.709	CIB	4.12	3.762	0.32	NA
849	1.712	CIB	3.73	-0.19	3.726	0.11
607	1.7124	CIB	3.54	0.82	3.698	0.45
659	1.714	CIB	3.38	3.634	0.29	NA
607	1.7153	CIB	3.72	0.72	3.644	0.44
849	1.716	CIB	3.8	-0.21	3.67	0.26
659	1.717	CIB	3.78	3.81	0.3	NA
659	1.719	CIB	3.67	3.832	-0.03	NA
607	1.7199	CIB	4.08	0.4	3.81	0.33
849	1.72	CIB	3.83	-0.29	3.776	NA
607	1.7228	CIB	3.69	0.89	3.81	0.17
659	1.723	CIB	3.61	3.742	0.26	NA
849	1.724	CIB	3.84	-0.32	3.822	0.45
607	1.7257	CIB	3.74	0.77	3.86	0.05
659	1.728	CIB	4.23	3.836	0.26	NA
849	1.728	CIB	3.88	-0.31	3.782	0.46
607	1.7294	CIB	3.49	0.91	3.754	0.12
659	1.732	CIB	3.57	3.614	0.2	NA
849	1.732	CIB	3.6	-0.25	3.518	0.37
607	1.7327	CIB	3.53	0.44	3.592	0.35
659	1.735	CIB	3.4	3.55	NA	NA
607	1.7358	CIB	3.86	0.86	3.506	0.37
659	1.736	CIB	3.36	3.466	0.34	NA
849	1.736	CIB	3.38	-0.19	3.486	0.15
659	1.739	CIB	3.33	3.494	0.18	NA
849	1.74	CIB	3.5	-0.22	3.734	NA
607	1.7416	CIB	3.9	0.96	3.804	0.14
659	1.743	CIB	4.56	3.896	0.3	NA
849	1.744	CIB	3.73	-0.31	4.01	0.39
607	1.7443	CIB	3.79	0.75	3.996	0.08
607	1.7474	CIB	4.07	0.17	3.818	NA
849	1.748	CIB	3.83	-0.31	3.84	0.22
659	1.749	CIB	3.67	3.806	0.04	NA
607	1.7501	CIB	3.84	0.27	3.742	-0.09
659	1.751	CIB	3.62	3.802	0.22	NA
849	1.752	CIB	3.75	-0.24	3.764	NA
607	1.753	CIB	4.13	0.62	3.648	0.5
659	1.755	CIB	3.48	3.644	0.36	NA
607	1.7551	CIB	3.26	1.11	3.568	0.67
849	1.756	CIB	3.6	-0.05	3.466	0.68
607	1.758	CIB	3.37	0.99	3.47	0.54
659	1.758	CIB	3.62	3.498	0.57	NA
849	1.76	CIB	3.5	0.1	3.46	0.77
607	1.7609	CIB	3.4	1.23	3.55	0.33
659	1.762	CIB	3.41	3.534	0.51	NA
846	1.763	CIB	3.82	-0.35	3.524	0.48
607	1.764	CIB	3.54	1.07	3.522	0.23
849	1.764	CIB	3.45	-0.03	3.55	0.46
659	1.765	CIB	3.39	3.542	0.44	NA
607	1.7651	CIB	3.55	1.14	3.504	0.23
846	1.766	CIB	3.78	-0.41	3.566	0.58
659	1.767	CIB	3.35	3.58	0.41	NA
607	1.7675	CIB	3.76	1	3.554	0.08
849	1.768	CIB	3.46	-0.1	3.452	0.24
846	1.769	CIB	3.42	-0.18	3.484	0.12
659	1.77	CIB	3.27	3.442	-0.17	NA
846	1.772	CIB	3.51	-0.23	3.548	-0.06
849	1.772	CIB	3.55	-0.15	3.586	-0.02
607	1.7722	CIB	3.99	0.31	3.65	-0.07

659	1.774	CIB	3.61	3.694	-0.07	NA
846	1.776	CIB	3.59	-0.2	3.668	-0.05
849	1.776	CIB	3.73	-0.25	3.67	0.04
659	1.778	CIB	3.42	3.628	0	NA
607	1.7787	CIB	4	0.56	3.604	0.07
846	1.779	CIB	3.4	-0.11	3.636	0.03
659	1.78	CIB	3.47	3.668	NA	NA
849	1.78	CIB	3.89	-0.36	3.674	0
659	1.781	CIB	3.58	3.762	-0.14	NA
607	1.7819	CIB	4.03	0.47	3.852	-0.22
846	1.782	CIB	3.84	-0.53	3.796	-0.17
849	1.784	CIB	3.92	-0.45	3.832	-0.22
659	1.785	CIB	3.61	3.804	-0.18	NA
846	1.785	CIB	3.76	-0.38	3.844	-0.17
607	1.7851	CIB	3.89	0.65	3.788	0.17
849	1.788	CIB	4.04	-0.5	3.936	NA
607	1.7883	CIB	3.64	0.92	4.002	0.11
659	1.789	CIB	4.35	4.042	-0.19	NA
846	1.789	CIB	4.09	-0.65	4.052	NA
846	1.792	CIB	4.09	-0.53	3.988	-0.15
849	1.792	CIB	4.09	-0.5	3.81	0.09
607	1.793	CIB	3.32	1.1	3.812	0.27
607	1.7947	CIB	3.46	1.02	3.73	0.54
659	1.795	CIB	4.1	3.718	0.49	NA
659	1.796	CIB	3.68	3.842	0.01	NA
846	1.796	CIB	4.03	-0.64	3.888	0
849	1.796	CIB	3.94	-0.34	3.842	NA
607	1.7983	CIB	3.69	0.98	3.894	-0.16
659	1.799	CIB	3.87	3.842	-0.04	NA
846	1.799	CIB	3.94	-0.62	3.772	0.28
849	1.8	CIB	3.77	-0.19	3.722	0.05
607	1.8011	CIB	3.59	0.95	3.768	-0.1
659	1.802	CIB	3.44	3.7	0.03	NA
846	1.802	CIB	4.1	-0.55	3.638	0.34
849	1.804	CIB	3.6	-0.11	3.7	0.01
607	1.8043	CIB	3.46	1.08	3.76	NA
846	1.805	CIB	3.9	-0.39	3.72	-0.01
659	1.806	CIB	3.74	3.716	0.26	NA
846	1.807	CIB	3.9	-0.61	3.728	-0.03
607	1.8075	CIB	3.58	0.97	3.722	-0.08
849	1.808	CIB	3.52	-0.09	3.664	0.13
846	1.81	CIB	3.87	-0.57	3.584	0.23
607	1.8107	CIB	3.45	0.95	3.556	0.05
849	1.812	CIB	3.5	-0.11	3.59	-0.04
659	1.813	CIB	3.44	3.548	0.25	NA
846	1.813	CIB	3.69	-0.42	3.562	-0.06
607	1.814	CIB	3.66	0.56	3.57	-0.08
846	1.815	CIB	3.52	-0.27	3.746	0.04
849	1.816	CIB	3.54	-0.18	3.728	0.06
607	1.8172	CIB	4.32	0.52	3.73	-0.12
846	1.818	CIB	3.6	-0.31	3.726	-0.1
846	1.82	CIB	3.67	-0.36	3.792	0.09
849	1.82	CIB	3.5	-0.16	3.604	-0.02
607	1.8204	CIB	3.87	0.76	3.602	-0.05
659	1.821	CIB	3.38	3.562	-0.02	NA
846	1.823	CIB	3.59	-0.44	3.582	0.27
849	1.824	CIB	3.47	-0.23	3.536	0.01
607	1.8251	CIB	3.6	0.98	3.584	0.2
846	1.826	CIB	3.64	-0.26	3.602	0.36
607	1.8268	CIB	3.62	0.94	3.636	0.3
659	1.827	CIB	3.68	3.622	-0.02	NA

849	1.828	CIB	3.64	-0.47	3.62	0.29
846	1.829	CIB	3.53	-0.27	3.68	-0.1
607	1.8304	CIB	3.63	0.96	3.656	NA
849	1.832	CIB	3.92	-0.6	3.62	0.28
659	1.833	CIB	3.56	3.656	0.22	NA
607	1.8332	CIB	3.46	1.03	3.65	-0.17
846	1.834	CIB	3.71	-0.51	3.684	NA
846	1.836	CIB	3.6	-0.6	3.688	0.01
849	1.836	CIB	4.09	-0.6	3.672	-0.25
607	1.8364	CIB	3.58	0.71	3.678	-0.16
659	1.837	CIB	3.38	3.752	-0.19	NA
659	1.839	CIB	3.74	3.71	0.28	NA
846	1.839	CIB	3.97	-0.68	3.826	-0.18
607	1.84	CIB	3.88	0.82	3.95	-0.27
849	1.84	CIB	4.16	-0.68	3.918	-0.01
846	1.841	CIB	4	-0.52	3.922	0.16
607	1.8428	CIB	3.58	1.01	3.892	-0.18
659	1.843	CIB	3.99	3.89	-0.18	NA
846	1.843	CIB	3.73	-0.54	3.806	-0.09
849	1.844	CIB	4.15	-0.66	3.802	-0.08
846	1.845	CIB	3.58	-0.16	3.854	NA
607	1.8465	CIB	3.56	1.04	3.822	0
659	1.847	CIB	4.25	3.79	0.11	NA
846	1.848	CIB	3.57	-0.22	3.768	0.46
849	1.848	CIB	3.99	-0.23	3.764	0.14
607	1.8492	CIB	3.47	1.25	3.596	0.07
846	1.85	CIB	3.54	-0.24	3.668	0.09
846	1.852	CIB	3.41	-0.19	3.59	0.27
849	1.852	CIB	3.93	-0.16	3.524	0.03
607	1.8524	CIB	3.6	0.71	3.46	0.05
659	1.854	CIB	3.14	3.556	0.03	NA
846	1.855	CIB	3.22	-0.17	3.472	0.01
849	1.856	CIB	3.89	-0.26	3.45	0.1
846	1.857	CIB	3.51	-0.23	3.472	NA
607	1.8572	CIB	3.49	1.05	3.566	0.47
659	1.858	CIB	3.25	3.494	0.47	NA
607	1.8589	CIB	3.69	1.32	3.564	0.48
846	1.859	CIB	3.53	-0.25	3.616	0.29
849	1.86	CIB	3.86	-0.21	3.672	0.21
659	1.861	CIB	3.75	3.664	-0.17	NA
846	1.861	CIB	3.53	-0.04	3.69	-0.09
659	1.864	CIB	3.65	3.678	-0.07	NA
846	1.864	CIB	3.66	-0.02	3.642	0.23
849	1.864	CIB	3.8	-0.14	3.674	0.18
607	1.8653	CIB	3.57	1.1	3.662	NA
846	1.866	CIB	3.69	-0.22	3.698	0.12
659	1.868	CIB	3.59	3.658	0.13	NA
846	1.868	CIB	3.84	-0.28	3.616	0.09
849	1.868	CIB	3.6	-0.09	3.598	0.06
607	1.8685	CIB	3.36	0.93	3.564	NA
846	1.87	CIB	3.6	-0.32	3.542	0.07
659	1.871	CIB	3.42	3.554	0.3	NA
846	1.871	CIB	3.73	-0.24	3.6	0.05
607	1.8717	CIB	3.66	0.82	3.572	0.36
849	1.872	CIB	3.59	-0.07	3.612	0.23
607	1.8749	CIB	3.46	0.94	3.51	0.35
846	1.875	CIB	3.62	-0.29	3.532	0.14
659	1.876	CIB	3.22	3.536	0.12	NA
849	1.876	CIB	3.77	-0.03	3.604	0.14
846	1.878	CIB	3.61	-0.15	3.604	0.19

607	1.8781	CIB	3.8	1.04	3.726	0.16
846	1.88	CIB	3.62	-0.1	3.76	0.36
849	1.88	CIB	3.83	0.05	3.77	0.49
607	1.8813	CIB	3.94	0.96	3.744	0.3
659	1.882	CIB	3.66	3.732	0.34	NA
659	1.882	CIB	3.67	3.712	0.36	NA
846	1.884	CIB	3.56	0	3.738	0.3
849	1.884	CIB	3.73	0.11	3.692	0.2
607	1.8845	CIB	4.07	0.78	3.634	0.15
846	1.886	CIB	3.43	-0.11	3.646	0.17
846	1.888	CIB	3.38	-0.02	3.728	0.32
849	1.888	CIB	3.62	0.08	3.514	0.2
607	1.8892	CIB	4.14	0.85	3.5	0.24
659	1.89	CIB	3	3.61	0.42	NA
846	1.89	CIB	3.36	0.04	3.53	0.53
607	1.8909	CIB	3.93	0.71	3.404	0.21
659	1.892	CIB	3.22	3.518	0.18	NA
846	1.892	CIB	3.51	-0.12	3.488	0.22
849	1.892	CIB	3.57	0.07	3.396	-0.03
659	1.894	CIB	3.21	3.584	0.11	NA
846	1.894	CIB	3.47	-0.03	3.576	0.11
607	1.8946	CIB	4.16	0.52	3.57	0.13
846	1.896	CIB	3.47	-0.11	3.56	NA
849	1.896	CIB	3.54	0.12	3.57	0.1
659	1.897	CIB	3.16	3.446	-0.09	NA
846	1.898	CIB	3.52	-0.14	3.45	-0.04
846	1.9	CIB	3.54	-0.23	3.528	0.04
849	1.9	CIB	3.49	0.08	3.632	NA
607	1.9006	CIB	3.93	0.44	3.678	-0.03
659	1.901	CIB	3.68	3.764	0.2	NA
846	1.902	CIB	3.75	-0.41	3.856	0.09
607	1.9038	CIB	3.97	0.68	3.778	-0.07
846	1.904	CIB	3.95	-0.37	3.776	NA
849	1.904	CIB	3.54	-0.16	3.78	-0.06
659	1.906	CIB	3.67	3.74	-0.03	NA
846	1.906	CIB	3.77	-0.4	3.714	0.08
607	1.907	CIB	3.77	0.8	3.82	0
659	1.908	CIB	3.82	3.83	-0.08	NA
846	1.908	CIB	4.07	-0.4	3.814	0.2
849	1.908	CIB	3.72	-0.32	3.88	-0.13
607	1.9081	CIB	3.69	0.7	3.872	0.02
846	1.91	CIB	4.1	-0.49	3.848	0.13
607	1.9102	CIB	3.78	0.62	3.918	0.1
659	1.912	CIB	3.95	3.982	-0.17	NA
846	1.912	CIB	4.07	-0.44	3.884	0.2
849	1.912	CIB	4.01	-0.36	3.968	-0.05
607	1.9134	CIB	3.61	0.97	3.998	NA
846	1.914	CIB	4.2	-0.36	4.046	-0.03
659	1.915	CIB	4.1	4.078	-0.04	NA
846	1.916	CIB	4.31	-0.38	4.07	-0.05
849	1.916	CIB	4.17	-0.4	4.01	0.05
607	1.9162	CIB	3.57	0.94	4.004	-0.09
659	1.918	CIB	3.9	3.908	0.01	NA
846	1.918	CIB	4.07	-0.51	3.854	0
659	1.92	CIB	3.83	3.956	-0.48	NA
846	1.92	CIB	3.9	-0.44	3.844	-0.17
849	1.92	CIB	4.08	-0.48	3.798	-0.13
607	1.9213	CIB	3.34	0.77	3.724	0.1
846	1.922	CIB	3.84	-0.38	3.712	0.23
607	1.923	CIB	3.46	1.02	3.668	0.32
659	1.923	CIB	3.84	3.79	0.02	NA

846	1.924	CIB	3.86	-0.14	3.748	0.16
849	1.924	CIB	3.95	-0.41	3.844	-0.29
659	1.925	CIB	3.63	3.734	-0.01	NA
846	1.926	CIB	3.94	-0.32	3.732	0
607	1.9267	CIB	3.29	0.85	3.712	0.06
846	1.928	CIB	3.85	-0.12	3.662	0.25
849	1.928	CIB	3.85	-0.16	3.602	0.39
607	1.929	CIB	3.38	0.98	3.642	0.14
659	1.929	CIB	3.64	3.636	0.22	NA
846	1.931	CIB	3.49	-0.16	3.62	0.26
659	1.932	CIB	3.82	3.752	0.1	NA
849	1.932	CIB	3.77	-0.03	3.712	0.11
607	1.9326	CIB	4.04	0.5	3.724	0.08
846	1.933	CIB	3.44	0.12	3.786	0.16
846	1.935	CIB	3.55	-0.28	3.726	0.21
607	1.9359	CIB	4.13	0.48	3.674	0.1
659	1.936	CIB	3.47	3.716	0.02	NA
849	1.936	CIB	3.78	0.06	3.68	0.12
846	1.937	CIB	3.65	-0.19	3.562	-0.12
659	1.939	CIB	3.37	3.65	0.09	NA
846	1.939	CIB	3.54	-0.24	3.648	0.1
607	1.9391	CIB	3.91	0.71	3.576	0.19
849	1.94	CIB	3.77	0.11	3.632	0.08
659	1.942	CIB	3.29	3.75	0.32	NA
846	1.942	CIB	3.65	-0.27	3.622	0.18
607	1.9423	CIB	4.13	0.71	3.582	0.13
659	1.944	CIB	3.27	3.63	0.13	NA
846	1.944	CIB	3.57	-0.06	3.622	0.43
849	1.944	CIB	3.53	0.13	3.56	0.33
607	1.9455	CIB	3.61	0.93	3.61	0.2
659	1.946	CIB	3.82	3.6	0.15	NA
846	1.946	CIB	3.52	-0.21	3.602	0.13
846	1.948	CIB	3.52	-0.25	3.67	0.07
849	1.948	CIB	3.54	0.05	3.7	NA
607	1.9487	CIB	3.95	0.67	3.716	0.03
659	1.951	CIB	3.97	3.774	0	NA
846	1.952	CIB	3.6	-0.36	3.828	-0.02
849	1.952	CIB	3.81	-0.37	3.814	-0.43
659	1.953	CIB	3.81	3.8	NA	NA
846	1.953	CIB	3.88	-0.57	3.87	-0.47
659	1.954	CIB	3.9	3.78	0.03	NA
846	1.955	CIB	3.95	-0.46	3.812	-0.1
607	1.9551	CIB	3.36	1.13	3.832	-0.07
849	1.956	CIB	3.97	-0.48	3.83	NA
846	1.957	CIB	3.98	-0.45	3.684	0.29
659	1.958	CIB	3.89	3.782	-0.11	NA
607	1.9583	CIB	3.22	0.96	3.782	-0.07
846	1.959	CIB	3.85	-0.48	3.762	-0.11
849	1.96	CIB	3.97	-0.3	3.72	0.12
846	1.961	CIB	3.88	-0.63	3.854	-0.09
607	1.9615	CIB	3.68	1.05	3.812	-0.1
659	1.962	CIB	3.89	3.71	0.22	NA
846	1.962	CIB	3.64	-0.52	3.69	0.25
607	1.9634	CIB	3.46	0.96	3.728	-0.06
846	1.964	CIB	3.78	-0.49	3.712	-0.15
849	1.964	CIB	3.87	-0.17	3.72	-0.12
846	1.966	CIB	3.81	-0.52	3.766	-0.32
846	1.968	CIB	3.68	-0.4	3.726	-0.27
849	1.968	CIB	3.69	-0.01	3.662	-0.3
846	1.969	CIB	3.58	-0.27	3.616	-0.18
659	1.971	CIB	3.55	3.692	0	NA

846	1.971	CIB	3.58	-0.04	3.652	-0.1
607	1.9714	CIB	4.06	0.32	3.644	0.01
846	1.972	CIB	3.49	-0.39	3.584	NA
849	1.972	CIB	3.54	0.13	3.664	0.24
659	1.973	CIB	3.25	3.464	0.21	NA
607	1.9731	CIB	3.98	0.9	3.44	0.26
659	1.974	CIB	3.06	3.42	0.21	NA
846	1.974	CIB	3.37	-0.25	3.462	0.19
846	1.975	CIB	3.44	-0.03	3.46	0.2
849	1.976	CIB	3.46	0.14	3.546	NA
607	1.9767	CIB	3.97	0.95	3.552	0.35
659	1.978	CIB	3.49	3.528	0.4	NA
659	1.979	CIB	3.4	3.596	0.55	NA
846	1.979	CIB	3.32	0.11	3.498	0.23
607	1.9795	CIB	3.8	0.6	3.506	NA
849	1.98	CIB	3.48	-0.02	3.494	0.14
659	1.981	CIB	3.53	3.48	0	NA
846	1.981	CIB	3.34	-0.15	3.476	0.06
846	1.982	CIB	3.25	-0.42	3.446	0.09
607	1.9827	CIB	3.78	0.84	3.406	-0.03
659	1.983	CIB	3.33	3.464	-0.06	NA
846	1.984	CIB	3.33	-0.39	3.6	-0.1
849	1.984	CIB	3.63	-0.25	3.548	-0.09
846	1.985	CIB	3.93	-0.59	3.684	-0.17
607	1.9863	CIB	3.52	0.87	3.784	-0.16
846	1.987	CIB	4.01	-0.5	3.788	0.06
849	1.988	CIB	3.83	-0.32	3.752	0.1
607	1.9891	CIB	3.65	0.84	3.834	-0.12
846	1.99	CIB	3.75	-0.39	3.76	0.21
849	1.992	CIB	3.93	-0.21	3.806	0.34
607	1.9923	CIB	3.64	1.13	3.824	0.08
659	1.993	CIB	4.06	3.748	0.51	NA
846	1.993	CIB	3.74	-0.2	3.718	0.46
607	1.9955	CIB	3.37	1.31	3.75	0.12
846	1.996	CIB	3.78	-0.42	3.598	0.36
849	1.996	CIB	3.8	-0.23	3.552	0.5
607	1.9987	CIB	3.3	1.33	3.636	0.06
659	1.999	CIB	3.51	3.624	0.1	NA
846	1.999	CIB	3.79	-0.44	3.6	0.09
849	2	CIB	3.72	-0.25	3.75	-0.33
846	2.002	CIB	3.68	-0.3	3.784	-0.27
659	2.003	CIB	4.05	3.702	0.12	NA
849	2.004	CIB	3.68	-0.09	3.724	0.11
607	2.0047	CIB	3.38	1.12	3.744	0.13
846	2.005	CIB	3.83	-0.29	3.624	NA
846	2.007	CIB	3.78	-0.22	3.598	0.18
659	2.008	CIB	3.45	3.676	-0.17	NA
849	2.008	CIB	3.55	0.1	3.6	0.22
846	2.01	CIB	3.77	-0.25	3.576	0.37
607	2.0111	CIB	3.45	1.26	3.574	0.32
659	2.012	CIB	3.66	3.618	0.4	NA
849	2.012	CIB	3.44	0.18	3.588	0.41
659	2.013	CIB	3.77	3.616	0.32	NA
846	2.013	CIB	3.62	-0.22	3.602	0.18
607	2.0148	CIB	3.59	1	3.594	0.19
846	2.016	CIB	3.59	-0.25	3.514	NA
849	2.016	CIB	3.4	0.22	3.536	0.55
659	2.017	CIB	3.37	3.482	0.3	NA
607	2.0176	CIB	3.73	1.22	3.468	0.48
846	2.019	CIB	3.32	-0.01	3.468	0.49

659	2.02	CIB	3.52	3.552	0.65	NA
849	2.02	CIB	3.4	0.27	3.472	0.38
607	2.0212	CIB	3.79	1.13	3.36	0.51
846	2.022	CIB	3.33	0.13	3.362	0.34
659	2.023	CIB	2.76	3.384	0.34	NA
846	2.024	CIB	3.53	-0.17	3.384	0.28
849	2.024	CIB	3.51	0.28	3.39	0.27
607	2.0248	CIB	3.79	0.88	3.486	0.23
846	2.026	CIB	3.36	0.08	3.51	0.52
846	2.027	CIB	3.24	0.08	3.562	0.49
607	2.0276	CIB	3.65	1.26	3.526	0.24
849	2.028	CIB	3.77	0.17	3.532	0.28
846	2.029	CIB	3.61	-0.41	3.608	0.18
659	2.03	CIB	3.39	3.594	0.06	NA
846	2.03	CIB	3.62	-0.29	3.552	-0.02
607	2.0308	CIB	3.58	0.78	3.618	0.08
846	2.032	CIB	3.56	-0.15	3.662	NA
849	2.032	CIB	3.94	-0.01	3.622	0.14
659	2.033	CIB	3.61	3.618	-0.04	NA
846	2.033	CIB	3.42	-0.07	3.62	0.19
846	2.035	CIB	3.56	0.06	3.536	0.19
607	2.0355	CIB	3.57	0.79	3.602	0.13
846	2.036	CIB	3.52	-0.02	3.608	0.18
849	2.036	CIB	3.94	-0.12	3.606	0.34
659	2.037	CIB	3.45	3.614	0.06	NA
607	2.0377	CIB	3.55	0.69	3.676	0.08
846	2.038	CIB	3.61	-0.33	3.598	0.09
659	2.039	CIB	3.83	3.64	NA	NA
846	2.039	CIB	3.55	-0.09	3.708	-0.18
659	2.04	CIB	3.66	3.74	-0.11	NA
849	2.04	CIB	3.89	-0.12	3.69	-0.15
659	2.041	CIB	3.77	3.728	-0.13	NA
846	2.041	CIB	3.58	-0.23	3.738	-0.17
846	2.042	CIB	3.74	-0.03	3.704	0.07
846	2.043	CIB	3.71	-0.31	3.708	0.04
607	2.0436	CIB	3.72	0.84	3.762	0.07
846	2.044	CIB	3.79	-0.08	3.784	0.07
849	2.044	CIB	3.85	-0.06	3.798	0.07
846	2.045	CIB	3.85	-0.04	3.9	0.01
846	2.046	CIB	3.78	-0.32	3.938	0.04
607	2.0469	CIB	4.23	0.56	3.852	0
659	2.047	CIB	3.98	3.784	0.06	NA
846	2.047	CIB	3.42	-0.21	3.762	0.07
846	2.047	CIB	3.51	0.2	3.678	-0.11
846	2.048	CIB	3.67	-0.29	3.59	-0.16
849	2.048	CIB	3.81	-0.13	3.716	-0.06
846	2.05	CIB	3.54	-0.39	3.706	-0.13
607	2.0501	CIB	4.05	0.29	3.64	-0.11
659	2.051	CIB	3.46	3.64	-0.14	NA
846	2.052	CIB	3.34	-0.2	3.612	-0.18
849	2.052	CIB	3.81	-0.26	3.65	-0.16
846	2.053	CIB	3.4	-0.56	3.71	NA
607	2.0533	CIB	4.24	0.4	3.678	-0.2
659	2.054	CIB	3.76	3.596	-0.28	NA
846	2.055	CIB	3.18	-0.37	3.69	-0.23
846	2.056	CIB	3.4	-0.58	3.678	-0.22
849	2.056	CIB	3.87	-0.37	3.632	-0.3
607	2.0569	CIB	4.18	0.45	3.734	-0.28
846	2.058	CIB	3.53	-0.63	3.866	-0.03
659	2.059	CIB	3.69	3.782	-0.01	NA
607	2.0597	CIB	4.06	0.45	3.74	-0.24

846	2.06	CIB	3.45	-0.31	3.756	-0.27
849	2.06	CIB	3.97	-0.46	3.722	NA
846	2.061	CIB	3.61	-0.75	3.604	-0.51
659	2.062	CIB	3.52	3.72	-0.28	NA
846	2.062	CIB	3.47	-0.53	3.648	-0.22
607	2.0629	CIB	4.03	0.62	3.692	-0.21
659	2.064	CIB	3.61	3.812	-0.3	NA
846	2.064	CIB	3.83	-0.73	3.814	-0.29
849	2.064	CIB	4.12	-0.56	3.8	-0.61
846	2.065	CIB	3.48	-0.47	3.832	-0.35
846	2.067	CIB	3.96	-0.69	3.93	-0.26
607	2.0676	CIB	3.77	0.68	3.794	NA
659	2.068	CIB	4.32	3.944	-0.3	NA
846	2.068	CIB	3.44	-0.56	3.906	0.1
849	2.068	CIB	4.23	-0.62	3.866	-0.27
607	2.0689	CIB	3.77	0.88	3.842	NA
846	2.07	CIB	3.57	-0.76	3.924	-0.31
659	2.072	CIB	4.2	3.932	-0.3	NA
846	2.072	CIB	3.85	-0.73	3.912	-0.29
849	2.072	CIB	4.27	-0.59	4.084	-0.13
607	2.0729	CIB	3.67	0.94	3.998	-0.29
659	2.073	CIB	4.43	3.998	-0.27	NA
846	2.073	CIB	3.77	-0.79	3.844	0.12
846	2.075	CIB	3.85	-0.65	3.956	-0.15
607	2.0753	CIB	3.5	0.99	3.888	-0.28
659	2.076	CIB	4.23	3.982	-0.23	NA
846	2.076	CIB	4.09	-0.65	3.956	-0.25
849	2.076	CIB	4.24	-0.62	3.994	-0.29
846	2.078	CIB	3.72	-0.73	4.072	NA
607	2.0789	CIB	3.69	0.83	4.018	-0.34
659	2.079	CIB	4.62	3.942	-0.33	NA
846	2.079	CIB	3.82	-0.82	4.034	-0.32
846	2.08	CIB	3.86	-0.61	4.052	-0.7
849	2.08	CIB	4.18	-0.66	3.882	-0.62
659	2.081	CIB	3.78	3.84	-0.23	NA
846	2.082	CIB	3.77	-0.4	3.878	-0.24
607	2.0826	CIB	3.61	0.76	3.89	-0.09
846	2.083	CIB	4.05	-0.64	3.99	-0.21
659	2.084	CIB	4.24	4.06	-0.25	NA
846	2.084	CIB	4.28	-0.57	4.08	-0.25
849	2.084	CIB	4.12	-0.56	4.046	-0.11
607	2.0854	CIB	3.71	0.79	4.05	-0.21
659	2.086	CIB	3.88	4.008	-0.18	NA
846	2.086	CIB	4.26	-0.49	3.882	0.23
849	2.088	CIB	4.07	-0.46	3.93	0.04
607	2.089	CIB	3.49	1.06	3.908	-0.21
659	2.089	CIB	3.95	3.722	0.15	NA
846	2.089	CIB	3.77	-0.93	3.722	0.11
607	2.0918	CIB	3.33	0.93	3.812	-0.23
846	2.092	CIB	4.07	-0.63	3.836	-0.3
849	2.092	CIB	3.94	-0.3	3.762	-0.14
846	2.094	CIB	4.07	-0.57	3.77	-0.22
659	2.095	CIB	3.4	3.708	-0.21	NA
607	2.0958	CIB	3.37	0.61	3.664	-0.18
846	2.096	CIB	3.76	-0.56	3.53	-0.05
849	2.096	CIB	3.72	-0.21	3.58	-0.2
659	2.098	CIB	3.4	3.598	-0.2	NA
846	2.098	CIB	3.65	-0.64	3.54	-0.11
607	2.0997	CIB	3.46	0.63	3.47	0.11
849	2.1	CIB	3.47	-0.22	3.564	NA

607	2.1014	CIB	3.37	0.65	3.494	0.08
659	2.102	CIB	3.87	3.456	-0.24	NA
846	2.102	CIB	3.3	-0.74	3.444	NA
846	2.104	CIB	3.27	-0.64	3.548	-0.26
849	2.104	CIB	3.41	-0.22	3.55	NA
607	2.105	CIB	3.89	0.57	3.664	-0.16
659	2.105	CIB	3.88	3.778	0	NA
846	2.106	CIB	3.87	-0.36	3.844	0.3
659	2.107	CIB	3.84	3.846	0.17	NA
607	2.1078	CIB	3.74	0.7	3.826	-0.04
659	2.108	CIB	3.9	3.76	0.01	NA
846	2.108	CIB	3.78	-0.46	3.724	-0.1
849	2.108	CIB	3.54	-0.22	3.726	-0.36
846	2.111	CIB	3.66	-0.41	3.684	-0.31
659	2.112	CIB	3.75	3.65	-0.16	NA
849	2.112	CIB	3.69	-0.15	3.6	0.15
846	2.114	CIB	3.61	0.13	3.61	0.24
607	2.1142	CIB	3.29	1.04	3.562	NA
849	2.116	CIB	3.71	-0.07	3.56	0.14
659	2.117	CIB	3.51	3.47	0.35	NA
846	2.117	CIB	3.68	-0.56	3.536	0.12
607	2.1174	CIB	3.16	0.98	3.51	-0.04
659	2.12	CIB	3.62	3.532	-0.05	NA
846	2.12	CIB	3.58	-0.53	3.466	0.29
849	2.12	CIB	3.62	-0.09	3.6	0.05
607	2.1206	CIB	3.35	0.78	3.584	0.16
659	2.121	CIB	3.83	3.638	0.14	NA
607	2.1239	CIB	3.54	0.49	3.634	0.15
846	2.124	CIB	3.85	-0.61	3.76	-0.06
849	2.124	CIB	3.6	-0.07	3.74	-0.22
659	2.125	CIB	3.98	3.744	-0.35	NA
846	2.127	CIB	3.73	-0.67	3.736	-0.26
849	2.128	CIB	3.56	-0.05	3.756	-0.42
659	2.129	CIB	3.81	3.796	-0.25	NA
846	2.131	CIB	3.7	-0.54	3.742	-0.11
607	2.1318	CIB	4.18	0.26	3.902	-0.02
849	2.132	CIB	3.46	-0.11	3.834	NA
607	2.133	CIB	4.36	0.33	3.82	0.02
659	2.133	CIB	3.47	3.672	-0.08	NA
846	2.134	CIB	3.63	-0.4	3.65	-0.18
849	2.136	CIB	3.44	-0.15	3.448	-0.35
846	2.137	CIB	3.35	-0.5	3.58	-0.26
659	2.138	CIB	3.35	3.522	-0.26	NA
607	2.1395	CIB	4.13	0.01	3.534	-0.29
846	2.14	CIB	3.34	-0.39	3.526	-0.21
849	2.14	CIB	3.5	-0.26	3.534	-0.38
659	2.141	CIB	3.31	3.44	-0.46	NA
846	2.143	CIB	3.39	-0.87	3.544	-0.26
849	2.144	CIB	3.66	-0.32	3.628	-0.26
607	2.1459	CIB	3.86	0.42	3.68	-0.36
659	2.146	CIB	3.92	3.826	-0.19	NA
846	2.146	CIB	3.57	-0.68	3.87	-0.4
659	2.148	CIB	4.12	3.886	-0.69	NA
846	2.148	CIB	3.88	-0.93	3.87	-0.33
849	2.148	CIB	3.94	-0.45	4.076	-0.21
607	2.1495	CIB	3.84	0.76	4.05	-0.39
659	2.151	CIB	4.6	4.07	-0.27	NA
846	2.151	CIB	3.99	-0.92	3.99	0.08
849	2.152	CIB	3.98	-0.46	4.02	-0.34
607	2.1532	CIB	3.54	0.94	3.818	-0.1

846	2.154	CIB	3.99	-0.93	3.814	-0.12
607	2.1559	CIB	3.59	0.87	3.8	-0.1
846	2.156	CIB	3.97	-1.01	3.778	-0.12
849	2.156	CIB	3.91	-0.36	3.82	-0.1
607	2.1583	CIB	3.43	0.85	3.874	-0.33
846	2.159	CIB	4.2	-0.85	3.758	0.08
849	2.16	CIB	3.86	-0.27	3.822	-0.02
607	2.1613	CIB	3.39	1.03	3.994	-0.24
846	2.162	CIB	4.23	-0.88	3.98	-0.23
659	2.164	CIB	4.29	3.96	-0.21	NA
846	2.164	CIB	4.13	-0.81	4	-0.27
849	2.164	CIB	3.76	-0.17	3.998	-0.28
607	2.1647	CIB	3.59	0.77	3.858	-0.03
846	2.167	CIB	4.22	-0.91	3.752	0.12
607	2.1677	CIB	3.59	0.96	3.804	0.01
849	2.168	CIB	3.6	-0.05	3.81	0.03
846	2.17	CIB	4.02	-0.72	3.654	0.22
607	2.1711	CIB	3.62	0.87	3.744	-0.12
849	2.172	CIB	3.44	0.06	3.774	0.01
846	2.173	CIB	4.04	-0.78	3.746	0.03
607	2.1741	CIB	3.75	0.64	3.784	-0.18
846	2.175	CIB	3.88	-0.64	3.786	-0.19
659	2.176	CIB	3.81	3.722	0.13	NA
849	2.176	CIB	3.45	0.02	3.746	-0.16
607	2.1775	CIB	3.72	0.51	3.72	0
846	2.178	CIB	3.87	-0.54	3.648	-0.01
659	2.179	CIB	3.75	3.634	0.21	NA
849	2.18	CIB	3.45	-0.02	3.642	-0.03
607	2.1805	CIB	3.38	0.89	3.588	0.14
846	2.181	CIB	3.76	-0.45	3.56	0.35
659	2.182	CIB	3.6	3.612	0.28	NA
607	2.1829	CIB	3.61	0.97	3.616	0.05
846	2.183	CIB	3.71	-0.31	3.574	0.21
849	2.184	CIB	3.4	-0.02	3.58	0.07
659	2.186	CIB	3.55	3.568	0.04	NA
846	2.186	CIB	3.63	-0.38	3.536	0.04
607	2.1861	CIB	3.55	0.87	3.55	0.03
846	2.188	CIB	3.55	-0.31	3.576	NA
849	2.188	CIB	3.47	-0.07	3.558	0.28
659	2.189	CIB	3.68	3.534	0.02	NA
607	2.1908	CIB	3.54	0.64	3.522	0.04
846	2.191	CIB	3.43	-0.2	3.554	0.01
846	2.192	CIB	3.49	-0.22	3.504	0.15
849	2.192	CIB	3.63	-0.19	3.546	0.02
607	2.1925	CIB	3.43	0.7	3.532	0
659	2.193	CIB	3.75	3.644	0.08	NA
846	2.194	CIB	3.36	-0.28	3.64	-0.08
659	2.196	CIB	4.05	3.69	-0.38	NA
846	2.196	CIB	3.61	-0.66	3.618	-0.09
849	2.196	CIB	3.68	-0.2	3.714	-0.03
607	2.1961	CIB	3.39	0.78	3.616	-0.12
659	2.198	CIB	3.84	3.598	0.14	NA
846	2.198	CIB	3.56	-0.38	3.62	0.09
607	2.1989	CIB	3.52	0.36	3.666	-0.15
846	2.199	CIB	3.79	-0.41	3.634	-0.25
849	2.2	CIB	3.62	-0.15	3.668	-0.25
846	2.201	CIB	3.68	-0.65	3.73	-0.4
846	2.202	CIB	3.73	-0.4	3.73	-0.49
659	2.204	CIB	3.83	3.72	-0.48	NA
846	2.204	CIB	3.79	-0.74	3.62	-0.17
849	2.204	CIB	3.57	-0.13	3.62	-0.14

607	2.2053	CIB	3.18	0.58	3.56	-0.21
846	2.206	CIB	3.73	-0.27	3.514	-0.09
846	2.207	CIB	3.53	-0.51	3.514	-0.13
849	2.208	CIB	3.56	-0.11	3.61	-0.31
846	2.209	CIB	3.57	-0.33	3.52	-0.38
659	2.21	CIB	3.66	3.536	-0.12	NA
846	2.211	CIB	3.28	-0.57	3.526	-0.12
607	2.2118	CIB	3.61	0.55	3.48	-0.05
849	2.212	CIB	3.51	-0.14	3.434	NA
659	2.213	CIB	3.34	3.46	-0.01	NA
659	2.213	CIB	3.43	3.562	-0.09	NA
846	2.213	CIB	3.41	-0.43	3.558	-0.1
607	2.215	CIB	4.12	0.3	3.566	-0.16
849	2.216	CIB	3.49	-0.16	3.614	NA
846	2.217	CIB	3.38	-0.35	3.672	0.1
659	2.218	CIB	3.67	3.534	-0.08	NA
607	2.2182	CIB	3.7	0.59	3.554	-0.07
846	2.22	CIB	3.43	-0.38	3.59	0.02
849	2.22	CIB	3.59	-0.15	3.6	0.21
659	2.222	CIB	3.56	3.558	-0.02	NA
607	2.2229	CIB	3.72	0.76	3.596	0.04
846	2.223	CIB	3.49	-0.31	3.59	0.22
849	2.224	CIB	3.62	-0.15	3.568	NA
607	2.2246	CIB	3.56	0.58	3.518	-0.09
659	2.226	CIB	3.45	3.516	-0.05	NA
846	2.227	CIB	3.47	-0.47	3.454	0.27
849	2.228	CIB	3.48	-0.16	3.444	0.03
607	2.2282	CIB	3.31	1.13	3.404	0.22
846	2.23	CIB	3.51	-0.37	3.402	0.39
607	2.231	CIB	3.25	0.95	3.392	0.39
659	2.231	CIB	3.46	3.434	0.01	NA
849	2.232	CIB	3.43	-0.16	3.476	0.14
846	2.233	CIB	3.52	-0.37	3.5	-0.29
659	2.234	CIB	3.72	3.51	-0.28	NA
846	2.235	CIB	3.37	-0.35	3.634	-0.31
849	2.236	CIB	3.51	-0.22	3.612	-0.36
659	2.237	CIB	4.05	3.618	-0.42	NA
846	2.238	CIB	3.41	-0.5	3.672	-0.41
846	2.24	CIB	3.75	-0.6	3.6	-0.16
849	2.24	CIB	3.64	-0.33	3.494	NA
607	2.2406	CIB	3.15	0.81	3.596	-0.04
659	2.241	CIB	3.52	3.666	-0.07	NA
659	2.241	CIB	3.92	3.58	0.29	NA
846	2.242	CIB	4.1	-0.7	3.756	-0.21
607	2.2438	CIB	3.21	0.75	3.81	-0.24
846	2.244	CIB	4.03	-0.68	3.786	NA
849	2.244	CIB	3.79	-0.33	3.758	-0.23
659	2.245	CIB	3.8	3.832	-0.26	NA
846	2.246	CIB	3.96	-0.67	3.82	-0.12
607	2.247	CIB	3.58	0.64	3.856	-0.25
659	2.247	CIB	3.97	3.864	-0.27	NA
846	2.248	CIB	3.97	-0.71	3.8	-0.14
849	2.248	CIB	3.84	-0.34	3.824	-0.55
659	2.249	CIB	3.64	3.742	-0.26	NA
846	2.25	CIB	3.7	-0.61	3.706	-0.19
607	2.2502	CIB	3.56	0.64	3.662	-0.22
849	2.252	CIB	3.79	-0.45	3.59	NA
846	2.253	CIB	3.62	-0.44	3.648	0.06
659	2.254	CIB	3.28	3.632	-0.17	NA
607	2.255	CIB	3.99	0.49	3.602	-0.14

846	2.255	CIB	3.48	-0.29	3.588	-0.06
849	2.256	CIB	3.64	-0.3	3.71	0.04
846	2.257	CIB	3.55	-0.13	3.546	-0.07
607	2.2571	CIB	3.89	0.43	3.482	0
659	2.258	CIB	3.17	3.438	-0.17	NA
659	2.259	CIB	3.16	3.398	-0.12	NA
846	2.26	CIB	3.42	-0.82	3.392	-0.04
849	2.26	CIB	3.35	0.04	3.398	-0.12
607	2.2603	CIB	3.86	0.66	3.426	NA
846	2.262	CIB	3.2	-0.35	3.404	0.1
659	2.264	CIB	3.3	3.38	0.03	NA
849	2.264	CIB	3.31	0.04	3.254	-0.2
846	2.265	CIB	3.23	-0.24	3.238	-0.1
846	2.267	CIB	3.23	-0.24	3.248	NA
849	2.268	CIB	3.12	0.04	3.264	0.09
659	2.269	CIB	3.35	3.29	0.06	NA
607	2.2695	CIB	3.39	0.8	3.34	0.01
846	2.27	CIB	3.36	-0.38	3.332	0
846	2.272	CIB	3.48	-0.44	3.324	0.2
849	2.272	CIB	3.08	0.03	3.364	0.05
607	2.2727	CIB	3.31	0.99	3.458	-0.02
659	2.273	CIB	3.59	3.41	0.3	NA
846	2.275	CIB	3.83	-0.67	3.484	0.27
607	2.2759	CIB	3.24	0.86	3.576	0.03
849	2.276	CIB	3.45	-0.11	3.62	-0.14
659	2.277	CIB	3.77	3.616	0.03	NA
846	2.277	CIB	3.81	-0.65	3.648	-0.02
659	2.279	CIB	3.81	3.748	-0.2	NA
607	2.2791	CIB	3.4	0.7	3.73	-0.2
846	2.28	CIB	3.95	-0.65	3.67	0.16
849	2.28	CIB	3.68	-0.2	3.724	-0.02
607	2.2823	CIB	3.51	0.77	3.806	-0.21
846	2.283	CIB	4.08	-0.7	3.8	-0.1
849	2.284	CIB	3.81	-0.27	3.876	-0.07
659	2.285	CIB	3.92	3.942	-0.54	NA
659	2.285	CIB	4.06	3.854	-0.11	NA
846	2.286	CIB	3.84	-0.65	3.854	-0.15
607	2.287	CIB	3.64	0.6	3.818	-0.17
846	2.288	CIB	3.81	-0.4	3.734	0
849	2.288	CIB	3.74	-0.22	3.718	0.16
607	2.2887	CIB	3.64	0.66	3.732	-0.1
659	2.289	CIB	3.76	3.686	-0.02	NA
846	2.291	CIB	3.71	-0.44	3.724	0.05
849	2.292	CIB	3.58	-0.07	3.702	-0.29
659	2.293	CIB	3.93	3.704	-0.04	NA
846	2.293	CIB	3.53	-0.37	3.642	0.09
607	2.2952	CIB	3.77	0.72	3.626	0
659	2.296	CIB	3.4	3.54	-0.02	NA
846	2.296	CIB	3.5	-0.35	3.526	0.2
849	2.296	CIB	3.5	-0.07	3.428	0.02
607	2.2984	CIB	3.46	0.48	3.396	-0.1
659	2.299	CIB	3.28	3.404	-0.05	NA
846	2.299	CIB	3.24	-0.46	3.386	-0.04
849	2.3	CIB	3.54	-0.13	3.372	-0.27
659	2.303	CIB	3.41	3.444	-0.24	NA
846	2.304	CIB	3.39	-0.22	3.502	0
849	2.304	CIB	3.64	-0.16	3.462	0.04
607	2.3048	CIB	3.53	0.51	3.452	-0.05
659	2.307	CIB	3.34	3.514	-0.04	NA
846	2.307	CIB	3.36	-0.33	3.466	-0.11
849	2.308	CIB	3.7	-0.17	3.47	-0.31

846	2.309	CIB	3.4	-0.43	3.466	-0.03
659	2.311	CIB	3.55	3.53	-0.05	NA
607	2.3112	CIB	3.32	0.83	3.534	-0.04
846	2.312	CIB	3.68	-0.41	3.594	-0.04
849	2.312	CIB	3.72	-0.13	3.674	NA
846	2.314	CIB	3.7	-0.44	3.76	-0.26
659	2.316	CIB	3.95	3.778	-0.26	NA
849	2.316	CIB	3.75	-0.07	3.776	-0.3
846	2.318	CIB	3.77	-0.38	3.664	0.09
659	2.319	CIB	3.71	3.594	-0.02	NA
607	2.3191	CIB	3.14	0.71	3.588	-0.03
846	2.32	CIB	3.6	-0.34	3.52	0.33
849	2.32	CIB	3.72	-0.09	3.476	0.14
607	2.3208	CIB	3.43	1.04	3.566	-0.03
846	2.322	CIB	3.49	-0.6	3.546	0.18
849	2.324	CIB	3.59	-0.14	3.472	0.08
607	2.3245	CIB	3.5	0.69	3.474	-0.25
846	2.325	CIB	3.35	-0.61	3.524	0.03
846	2.327	CIB	3.44	-0.6	3.534	0.07
607	2.3272	CIB	3.74	0.8	3.552	-0.14
659	2.328	CIB	3.64	3.562	-0.15	NA
849	2.328	CIB	3.59	-0.16	3.638	0.19
846	2.33	CIB	3.4	-0.64	3.582	-0.01
607	2.3305	CIB	3.82	0.77	3.52	-0.17
659	2.331	CIB	3.46	3.53	-0.17	NA
846	2.332	CIB	3.33	-0.65	3.554	-0.17
849	2.332	CIB	3.64	-0.15	3.55	-0.21
846	2.333	CIB	3.52	-0.65	3.578	NA
607	2.3337	CIB	3.8	0.61	3.646	-0.06
659	2.336	CIB	3.6	3.698	-0.02	NA
659	2.336	CIB	3.67	3.666	0.1	NA
659	2.336	CIB	3.9	3.604	-0.35	NA
846	2.336	CIB	3.36	-0.41	3.642	NA
849	2.336	CIB	3.49	-0.28	3.61	-0.39
659	2.339	CIB	3.79	3.508	-0.36	NA
846	2.339	CIB	3.51	-0.49	3.578	-0.15
849	2.34	CIB	3.39	-0.25	3.61	-0.11
607	2.3401	CIB	3.71	0.42	3.562	-0.17
659	2.341	CIB	3.65	3.564	0.18	NA
846	2.342	CIB	3.55	-0.34	3.556	0.23
607	2.3433	CIB	3.52	0.89	3.466	0.07
849	2.344	CIB	3.35	-0.04	3.31	NA
846	2.345	CIB	3.26	-0.25	3.244	0.4
659	2.346	CIB	2.87	3.158	0.15	NA
607	2.3465	CIB	3.22	1	3.156	0.16
846	2.348	CIB	3.09	-0.13	3.158	0.54
849	2.348	CIB	3.34	0	3.21	0.37
607	2.3512	CIB	3.27	1.3	3.244	0.16
846	2.352	CIB	3.13	-0.33	3.312	0.39
849	2.352	CIB	3.39	-0.03	3.336	0.49
607	2.3529	CIB	3.43	1.01	3.358	0.06
659	2.353	CIB	3.46	3.434	0.12	NA
846	2.355	CIB	3.38	-0.41	3.43	0.44
849	2.356	CIB	3.51	-0.11	3.464	0.09
607	2.3565	CIB	3.37	1.25	3.52	NA
846	2.358	CIB	3.6	-0.38	3.526	0.45
659	2.359	CIB	3.74	3.62	0.63	NA
607	2.3593	CIB	3.41	1.02	3.674	0.14
659	2.36	CIB	3.98	3.72	0.07	NA
849	2.36	CIB	3.64	-0.23	3.786	NA
846	2.361	CIB	3.83	-0.57	3.834	0.01

659	2.362	CIB	4.07	3.828	-0.15	NA
607	2.3625	CIB	3.65	0.84	3.844	NA
846	2.364	CIB	3.95	-0.65	3.848	-0.01
849	2.364	CIB	3.72	-0.23	3.786	-0.11
659	2.365	CIB	3.85	3.814	-0.38	NA
846	2.368	CIB	3.76	-0.4	3.778	0.07
849	2.368	CIB	3.79	-0.25	3.786	0.17
607	2.3689	CIB	3.77	1.17	3.77	0.03
659	2.369	CIB	3.76	3.802	0.04	NA
846	2.371	CIB	3.77	-0.4	3.804	0.13
849	2.372	CIB	3.92	-0.37	3.768	-0.35
659	2.373	CIB	3.8	3.718	NA	NA
846	2.374	CIB	3.59	-0.28	3.756	-0.31
659	2.375	CIB	3.51	3.67	-0.28	NA
849	2.376	CIB	3.96	-0.28	3.644	-0.37
659	2.377	CIB	3.49	3.626	-0.4	NA
846	2.377	CIB	3.67	-0.56	3.696	-0.32
846	2.379	CIB	3.5	-0.37	3.516	-0.33
849	2.38	CIB	3.86	-0.07	3.522	-0.35
659	2.381	CIB	3.06	3.448	-0.24	NA
846	2.381	CIB	3.52	-0.41	3.468	-0.12
846	2.384	CIB	3.3	-0.12	3.406	0.12
849	2.384	CIB	3.6	0.12	3.532	0.28
607	2.3846	CIB	3.55	0.9	3.498	0.33
607	2.3848	CIB	3.69	0.91	3.494	0.59
846	2.386	CIB	3.35	-0.14	3.396	0.56
607	2.3867	CIB	3.28	1.15	3.386	0.42
846	2.388	CIB	3.11	-0.04	3.25	0.3
849	2.388	CIB	3.5	0.21	3.196	0.31
659	2.391	CIB	3.01	3.21	0.3	NA
846	2.391	CIB	3.08	-0.07	3.278	0.37
607	2.3912	CIB	3.35	1.1	3.246	0.58
849	2.392	CIB	3.45	0.24	3.264	NA
607	2.3929	CIB	3.34	1.03	3.276	0.58
846	2.393	CIB	3.1	3.3	0.36	NA
846	2.395	CIB	3.14	-0.07	3.29	0.51
849	2.396	CIB	3.47	0.25	3.288	0.3
607	2.3963	CIB	3.4	0.82	3.312	0.45
846	2.398	CIB	3.33	0.18	3.376	0.41
607	2.3993	CIB	3.22	1.05	3.392	0.41
846	2.4	CIB	3.46	-0.23	3.388	0.45
849	2.4	CIB	3.55	0.22	3.502	0.52
607	2.4027	CIB	3.38	1.03	3.588	0.22
659	2.403	CIB	3.9	3.614	0.32	NA
846	2.403	CIB	3.65	-0.15	3.628	0.35
849	2.404	CIB	3.59	0.16	3.658	0.36
846	2.405	CIB	3.62	3.628	0.22	NA
607	2.4051	CIB	3.53	1.06	3.604	0.29
846	2.407	CIB	3.75	-0.19	3.636	0.45
849	2.408	CIB	3.53	0.14	3.62	0.31
607	2.4083	CIB	3.75	0.77	3.71	0.12
846	2.409	CIB	3.54	-0.25	3.732	0.15
659	2.411	CIB	3.98	3.734	0.16	NA
846	2.412	CIB	3.86	-0.06	3.822	0.06
849	2.412	CIB	3.54	0.19	3.86	0.11
607	2.413	CIB	4.19	0.37	3.712	NA
846	2.413	CIB	3.73	-0.06	3.816	0.29
659	2.414	CIB	3.24	3.838	0.24	NA
607	2.4147	CIB	4.38	0.64	3.72	0.2
846	2.415	CIB	3.65	-0.01	3.58	0.29

849	2.416	CIB	3.6	0.23	3.668	0.24
659	2.417	CIB	3.03	3.624	0.22	NA
846	2.417	CIB	3.68	0.09	3.618	0.21
607	2.4184	CIB	4.16	0.57	3.608	NA
846	2.419	CIB	3.62	-0.05	3.69	NA
849	2.42	CIB	3.55	0.23	3.634	0.19
659	2.421	CIB	3.44	3.642	0.18	NA
846	2.421	CIB	3.4	0.02	3.57	0.25
607	2.4211	CIB	4.2	0.5	3.518	0.21
659	2.422	CIB	3.26	3.536	0.2	NA
846	2.423	CIB	3.29	0.1	3.454	0.26
849	2.424	CIB	3.53	0.17	3.316	0.06
659	2.425	CIB	2.99	3.45	0.24	NA
846	2.427	CIB	3.51	-0.08	3.414	0.28
607	2.4275	CIB	3.93	0.75	3.434	0.24
659	2.428	CIB	3.11	3.53	NA	NA
849	2.428	CIB	3.63	0.04	3.576	0.42
659	2.43	CIB	3.47	3.486	0.13	NA
607	2.4308	CIB	3.74	0.47	3.608	0.07
846	2.431	CIB	3.48	-0.12	3.618	0.08
849	2.432	CIB	3.72	-0.1	3.704	NA
659	2.434	CIB	3.68	3.64	-0.11	NA
659	2.434	CIB	3.9	3.722	-0.14	NA
846	2.435	CIB	3.42	-0.11	3.72	0.19
849	2.436	CIB	3.89	-0.22	3.66	0.09
607	2.4372	CIB	3.71	0.89	3.644	NA
846	2.438	CIB	3.38	-0.2	3.67	0.1
659	2.44	CIB	3.82	3.68	0.09	NA
846	2.44	CIB	3.55	-0.08	3.724	-0.29
849	2.44	CIB	3.94	-0.27	3.792	-0.34
846	2.442	CIB	3.93	-0.6	3.824	-0.32
846	2.443	CIB	3.72	-0.4	3.93	-0.46
849	2.444	CIB	3.98	-0.24	3.794	-0.2
846	2.445	CIB	4.08	-0.8	3.912	-0.1
607	2.4451	CIB	3.26	1.05	3.814	0.27
659	2.446	CIB	4.52	3.86	0.18	NA
607	2.4468	CIB	3.23	1.07	3.88	0.51
846	2.447	CIB	4.21	-0.59	4.026	0.09
659	2.448	CIB	4.18	3.816	0.03	NA
849	2.448	CIB	3.99	-0.21	3.974	-0.36
846	2.449	CIB	3.47	-0.14	3.99	-0.28
846	2.45	CIB	4.02	-0.49	3.974	-0.39
659	2.451	CIB	4.29	3.936	-0.36	NA
846	2.452	CIB	4.1	-0.7	4.044	-0.51
849	2.452	CIB	3.8	-0.12	3.924	-0.51
846	2.454	CIB	4.01	-0.72	3.834	-0.56
659	2.455	CIB	3.42	3.72	-0.37	NA
846	2.455	CIB	3.84	-0.68	3.656	-0.11
849	2.456	CIB	3.53	0.05	3.624	-0.1
607	2.4564	CIB	3.48	0.92	3.738	0.09
846	2.459	CIB	3.85	-0.68	3.664	0.28
607	2.4596	CIB	3.99	0.83	3.728	0.15
659	2.46	CIB	3.47	3.714	-0.05	NA
846	2.46	CIB	3.85	-0.49	3.708	0.02
849	2.46	CIB	3.41	0.16	3.736	-0.14
846	2.462	CIB	3.82	-0.44	3.672	NA
607	2.4628	CIB	4.13	0.2	3.686	-0.16
659	2.463	CIB	3.15	3.682	-0.17	NA
846	2.463	CIB	3.92	-0.56	3.652	-0.18
849	2.464	CIB	3.39	0.14	3.656	-0.27
846	2.465	CIB	3.67	-0.51	3.626	NA

607	2.466	CIB	4.15	-0.13	3.552	-0.13
659	2.466	CIB	3	3.556	-0.17	NA
846	2.467	CIB	3.55	-0.02	3.436	-0.05
849	2.468	CIB	3.41	-0.01	3.274	-0.02
659	2.469	CIB	3.07	3.332	-0.07	NA
846	2.469	CIB	3.34	-0.04	3.298	-0.06
846	2.47	CIB	3.29	-0.19	3.324	-0.11
846	2.472	CIB	3.38	0.01	3.516	0.03
849	2.472	CIB	3.54	-0.2	3.546	0.04
607	2.4725	CIB	4.03	0.55	3.53	0.04
659	2.473	CIB	3.49	3.558	0.05	NA
846	2.474	CIB	3.21	-0.21	3.514	0.17
659	2.476	CIB	3.52	3.46	-0.28	NA
846	2.476	CIB	3.32	3.486	NA	NA
849	2.476	CIB	3.76	-0.34	3.602	-0.34
659	2.477	CIB	3.62	3.632	-0.25	NA
659	2.477	CIB	3.79	3.71	0.14	NA
846	2.477	CIB	3.67	-0.15	3.7	0.61
607	2.4772	CIB	3.71	0.92	3.71	0.37
607	2.4789	CIB	3.71	1.07	3.732	0.22
846	2.48	CIB	3.67	-0.35	3.792	0.12
849	2.48	CIB	3.9	-0.41	3.864	-0.22
846	2.482	CIB	3.97	-0.61	3.902	-0.51
846	2.484	CIB	4.07	-0.78	3.858	-0.25
849	2.484	CIB	3.9	-0.39	3.91	-0.31
607	2.4849	CIB	3.45	0.92	3.948	-0.34
846	2.486	CIB	4.16	-0.67	3.906	-0.25
846	2.488	CIB	4.16	-0.77	3.782	-0.02
849	2.488	CIB	3.86	-0.36	3.97	-0.26
607	2.4885	CIB	3.28	0.78	3.944	-0.3
659	2.49	CIB	4.39	3.894	0.07	NA
846	2.49	CIB	4.03	-0.84	3.824	0.12
607	2.4917	CIB	3.91	0.68	3.96	-0.23
849	2.492	CIB	3.51	-0.14	3.812	NA
846	2.493	CIB	3.96	-0.62	3.688	-0.03
659	2.494	CIB	3.65	3.678	-0.44	NA
659	2.496	CIB	3.41	3.668	-0.43	NA
846	2.496	CIB	3.86	-0.55	3.76	-0.27
849	2.496	CIB	3.46	-0.12	3.75	NA
607	2.4981	CIB	4.42	-0.15	3.852	-0.36
659	2.499	CIB	3.6	3.754	-0.24	NA
846	2.499	CIB	3.92	-0.6	3.924	-0.21
849	2.5	CIB	3.37	-0.1	3.74	-0.18
607	2.5013	CIB	4.31	0.03	3.684	NA
846	2.502	CIB	3.5	-0.03	3.59	-0.08
659	2.504	CIB	3.32	3.776	-0.09	NA
849	2.504	CIB	3.45	-0.21	3.526	-0.13
607	2.5041	CIB	4.3	-0.16	3.508	-0.22
659	2.506	CIB	3.06	3.586	-0.27	NA
846	2.508	CIB	3.41	-0.29	3.712	-0.09
849	2.508	CIB	3.71	-0.43	3.684	0.09
607	2.5092	CIB	4.08	0.53	3.79	NA
607	2.511	CIB	4.16	0.56	3.82	0.05
659	2.511	CIB	3.59	3.832	0.03	NA
846	2.511	CIB	3.56	-0.46	3.754	-0.24
849	2.512	CIB	3.77	-0.52	3.68	-0.2
846	2.514	CIB	3.69	-0.55	3.694	NA
607	2.5146	CIB	3.79	0.72	3.73	-0.22
659	2.516	CIB	3.66	3.688	0.14	NA
849	2.516	CIB	3.74	-0.52	3.708	0.37
607	2.5169	CIB	3.56	0.9	3.726	-0.1

659	2.517	CIB	3.79	3.778	-0.23	NA
846	2.517	CIB	3.88	-0.69	3.7	0.2
849	2.52	CIB	3.92	-0.6	3.866	-0.04
607	2.5206	CIB	3.35	1.18	3.914	-0.22
659	2.522	CIB	4.39	3.958	-0.27	NA
846	2.522	CIB	4.03	-0.78	4.01	-0.3
846	2.523	CIB	4.1	-0.86	4.164	-0.79
846	2.523	CIB	4.18	-0.72	4.086	-0.75
846	2.524	CIB	4.12	-0.79	4.122	-0.74
849	2.524	CIB	4	-0.58	4.12	-0.71
659	2.525	CIB	4.21	4.102	-0.74	NA
846	2.525	CIB	4.09	-0.74	4.146	-0.72
846	2.526	CIB	4.09	-0.85	4.164	-0.79
659	2.528	CIB	4.34	4.104	-0.72	NA
846	2.528	CIB	4.09	-0.77	4.098	NA
849	2.528	CIB	3.91	-0.51	4.09	-0.73
846	2.529	CIB	4.06	-0.74	3.898	-0.39
846	2.53	CIB	4.05	-0.89	3.85	-0.34
607	2.5302	CIB	3.38	0.98	3.852	-0.3
846	2.531	CIB	3.85	-0.55	3.94	-0.15
659	2.532	CIB	3.92	3.924	-0.14	NA
659	2.532	CIB	4.5	4.022	-0.57	NA
846	2.532	CIB	3.97	-0.84	4.018	-0.61
849	2.532	CIB	3.87	-0.33	4.028	-0.62
846	2.533	CIB	3.83	-0.66	3.87	-0.6
846	2.534	CIB	3.97	-0.64	3.842	-0.49
846	2.536	CIB	3.71	-0.53	3.78	-0.64
849	2.536	CIB	3.83	-0.27	3.72	-0.61
846	2.537	CIB	3.56	-1.11	3.624	-0.5
846	2.538	CIB	3.53	-0.48	3.564	-0.48
846	2.539	CIB	3.49	-0.1	3.538	-0.48
846	2.54	CIB	3.41	-0.45	3.528	-0.05
849	2.54	CIB	3.7	-0.25	3.454	-0.04
607	2.5413	CIB	3.51	1.05	3.478	0.18
846	2.542	CIB	3.16	-0.45	3.468	0.34
607	2.543	CIB	3.61	0.99	3.364	0.37
659	2.544	CIB	3.36	3.364	0.09	NA
846	2.544	CIB	3.18	-0.13	3.358	0.19
849	2.544	CIB	3.51	-0.04	3.31	0.19
846	2.546	CIB	3.13	-0.05	3.332	0.13
607	2.5467	CIB	3.37	0.99	3.366	0.16
846	2.547	CIB	3.47	-0.12	3.292	0.21
849	2.548	CIB	3.35	0.02	3.298	0.3
659	2.549	CIB	3.14	3.356	-0.05	NA
659	2.549	CIB	3.16	3.318	0.3	NA
846	2.549	CIB	3.66	-0.06	3.368	0.27
607	2.5495	CIB	3.28	0.94	3.392	0.2
846	2.552	CIB	3.6	-0.06	3.43	0.36
849	2.552	CIB	3.26	-0.01	3.39	0.47
607	2.5527	CIB	3.35	1	3.448	0.17
659	2.555	CIB	3.46	3.376	0.18	NA
846	2.555	CIB	3.57	-0.25	3.484	0.24
849	2.556	CIB	3.24	-0.03	3.502	-0.11
659	2.557	CIB	3.8	3.474	NA	NA
846	2.557	CIB	3.44	-0.06	3.454	-0.05
659	2.559	CIB	3.32	3.452	0.5	NA
659	2.559	CIB	3.47	3.34	0.34	NA
607	2.5591	CIB	3.23	1.06	3.386	0.54
849	2.56	CIB	3.24	0.02	3.388	0.71
659	2.562	CIB	3.67	3.384	0.47	NA

607	2.5623	CIB	3.33	1.05	3.4	0.22
846	2.563	CIB	3.45	-0.25	3.414	0.46
849	2.564	CIB	3.31	0.04	3.372	0.34
607	2.5655	CIB	3.31	1	3.448	0.16
846	2.566	CIB	3.46	-0.16	3.422	0.22
659	2.568	CIB	3.71	3.478	0.45	NA
849	2.568	CIB	3.32	0	3.504	0.17
607	2.5687	CIB	3.59	0.94	3.462	0.27
846	2.569	CIB	3.44	-0.12	3.384	0.16
659	2.571	CIB	3.25	3.376	0.15	NA
846	2.572	CIB	3.32	-0.2	3.362	-0.11
849	2.572	CIB	3.28	-0.02	3.396	0.04
659	2.573	CIB	3.52	3.424	-0.04	NA
607	2.5734	CIB	3.61	0.33	3.564	0.04
846	2.574	CIB	3.39	-0.28	3.6	0.04
607	2.5751	CIB	4.02	0.12	3.512	NA
849	2.576	CIB	3.46	-0.02	3.426	-0.05
659	2.577	CIB	3.08	3.508	0.18	NA
846	2.577	CIB	3.18	-0.03	3.348	0.2
607	2.5788	CIB	3.8	0.64	3.3	0.18
659	2.58	CIB	3.22	3.4	0.13	NA
846	2.58	CIB	3.22	-0.06	3.518	0.29
849	2.58	CIB	3.58	-0.02	3.412	0.13
607	2.5816	CIB	3.77	0.59	3.464	0.12
846	2.583	CIB	3.27	0.02	3.464	0.17
849	2.584	CIB	3.48	0.09	3.492	0.33
659	2.585	CIB	3.22	3.378	0.18	NA
607	2.5855	CIB	3.72	0.61	3.406	0.22
846	2.586	CIB	3.2	-0.02	3.36	0.15
849	2.588	CIB	3.41	0.18	3.446	0.33
846	2.589	CIB	3.25	-0.17	3.368	0.16
607	2.5893	CIB	3.65	1.03	3.416	0.18
846	2.592	CIB	3.33	-0.2	3.416	0.3
849	2.592	CIB	3.44	0.04	3.422	0.31
607	2.5932	CIB	3.41	0.82	3.394	0.05
846	2.594	CIB	3.28	-0.15	3.434	0.06
846	2.596	CIB	3.51	-0.28	3.488	-0.02
849	2.596	CIB	3.53	-0.15	3.458	0.03
846	2.598	CIB	3.71	-0.35	3.56	-0.05
607	2.5985	CIB	3.26	1.1	3.592	-0.04
846	2.6	CIB	3.79	-0.58	3.496	0.18
849	2.6	CIB	3.67	-0.21	3.5	0.11
607	2.6021	CIB	3.05	0.96	3.626	-0.17
846	2.603	CIB	3.73	-0.73	3.676	-0.2
849	2.604	CIB	3.89	-0.29	3.61	0.04
846	2.605	CIB	4.04	-0.74	3.8	-0.26
607	2.6062	CIB	3.34	1.02	3.824	-0.16
846	2.607	CIB	4	-0.54	3.816	-0.22
849	2.608	CIB	3.85	-0.23	3.684	0.11
846	2.609	CIB	3.85	-0.61	3.798	-0.21
607	2.6098	CIB	3.38	0.91	3.734	-0.11
846	2.611	CIB	3.91	-0.59	3.694	0.12
849	2.612	CIB	3.68	-0.03	3.684	0.15
607	2.6139	CIB	3.65	0.93	3.79	-0.16
846	2.614	CIB	3.8	-0.46	3.726	-0.01
846	2.616	CIB	3.91	-0.63	3.742	0.18
849	2.616	CIB	3.59	0.12	3.75	-0.1
607	2.6175	CIB	3.76	0.92	3.73	-0.08
846	2.618	CIB	3.69	-0.45	3.662	0.08
846	2.62	CIB	3.7	-0.34	3.736	0.17

849	2.62	CIB	3.57	0.14	3.694	-0.04
607	2.6216	CIB	3.96	0.57	3.646	0.04
846	2.622	CIB	3.55	-0.14	3.614	0.13
846	2.624	CIB	3.45	-0.04	3.536	0.13
849	2.624	CIB	3.54	0.12	3.436	-0.02
659	2.625	CIB	3.18	3.4	NA	NA
659	2.627	CIB	3.46	3.41	0.03	NA
846	2.627	CIB	3.37	-0.14	3.254	-0.01
849	2.628	CIB	3.5	0.12	3.294	NA
659	2.629	CIB	2.76	3.296	0.29	NA
846	2.629	CIB	3.38	3.304	0.5	NA
607	2.6293	CIB	3.47	0.88	3.16	0.88
846	2.631	CIB	3.41	3.296	0.48	NA
659	2.632	CIB	2.78	3.292	0.63	NA
849	2.632	CIB	3.44	0.08	3.282	0.28
607	2.6329	CIB	3.36	0.92	3.186	NA
846	2.633	CIB	3.42	-0.15	3.286	0.23
659	2.634	CIB	2.93	3.288	0.2	NA
846	2.635	CIB	3.28	0.06	3.24	0.23
849	2.636	CIB	3.45	-0.05	3.102	0.36
607	2.637	CIB	3.12	1.06	3.178	0.24
659	2.637	CIB	2.73	3.182	0.29	NA
846	2.637	CIB	3.31	-0.13	3.162	0.29
659	2.64	CIB	3.3	3.254	-0.09	NA
846	2.64	CIB	3.35	-0.06	3.42	-0.12
849	2.64	CIB	3.58	-0.09	3.416	-0.11
846	2.642	CIB	3.56	-0.19	3.46	-0.15
659	2.644	CIB	3.29	3.53	-0.15	NA
846	2.644	CIB	3.52	-0.26	3.544	-0.17
849	2.644	CIB	3.7	-0.06	3.642	-0.3
659	2.647	CIB	3.65	3.61	0	NA
846	2.647	CIB	4.05	-0.57	3.648	0.03
607	2.648	CIB	3.13	0.88	3.616	-0.03
849	2.648	CIB	3.71	-0.12	3.62	NA
846	2.649	CIB	3.54	-0.31	3.66	0.15
659	2.65	CIB	3.67	3.788	-0.28	NA
659	2.651	CIB	4.25	3.72	0.09	NA
846	2.651	CIB	3.77	-0.4	3.744	0.13
607	2.6518	CIB	3.37	0.99	3.762	-0.01
849	2.652	CIB	3.66	-0.19	3.73	NA
846	2.654	CIB	3.76	-0.43	3.736	0.12
659	2.655	CIB	4.09	3.82	-0.33	NA
659	2.656	CIB	3.8	3.808	-0.31	NA
846	2.656	CIB	3.79	-0.36	3.776	-0.29
849	2.656	CIB	3.6	-0.13	3.708	0.01
846	2.658	CIB	3.6	-0.37	3.652	NA
607	2.6595	CIB	3.75	0.9	3.572	0.07
846	2.66	CIB	3.52	3.446	0.14	NA
849	2.66	CIB	3.39	-0.11	3.42	0.15
659	2.662	CIB	2.97	3.462	0.12	NA
846	2.663	CIB	3.47	-0.33	3.388	NA
607	2.6633	CIB	3.96	0.8	3.362	0.14
659	2.664	CIB	3.15	3.414	NA	NA
849	2.664	CIB	3.26	-0.06	3.33	0.23
846	2.665	CIB	3.23	3.196	-0.01	NA
846	2.667	CIB	3.05	-0.04	3.208	NA
849	2.668	CIB	3.29	0.06	3.19	0.04
659	2.669	CIB	3.21	3.23	0.27	NA
846	2.67	CIB	3.17	0.11	3.258	0.3
607	2.671	CIB	3.43	0.94	3.25	0.32
846	2.672	CIB	3.19	0.08	3.27	NA

849	2.672	CIB	3.25	0.14	3.29	0.31
659	2.674	CIB	3.31	3.246	0.13	NA
846	2.674	CIB	3.27	0.08	3.332	0.32
849	2.676	CIB	3.21	0.21	3.31	0.31
607	2.6767	CIB	3.62	0.84	3.322	NA
846	2.677	CIB	3.14	0.12	3.34	0.26
659	2.678	CIB	3.37	3.346	0.27	NA
846	2.679	CIB	3.36	-0.13	3.292	0.08
849	2.68	CIB	3.24	0.25	3.322	0
659	2.681	CIB	3.35	3.36	0.17	NA
846	2.681	CIB	3.29	-0.12	3.366	0.27
607	2.6831	CIB	3.56	0.67	3.42	0.28
659	2.684	CIB	3.39	3.46	0.05	NA
659	2.684	CIB	3.51	3.472	0.14	NA
846	2.684	CIB	3.55	-0.39	3.446	-0.22
849	2.684	CIB	3.35	0.15	3.558	-0.06
846	2.686	CIB	3.43	-0.41	3.57	NA
607	2.6864	CIB	3.95	0.41	3.546	0.05
659	2.687	CIB	3.57	3.628	-0.16	NA
849	2.688	CIB	3.43	0.03	3.736	0.09
846	2.689	CIB	3.76	-0.65	3.704	-0.02
607	2.6902	CIB	3.97	0.56	3.77	-0.26
659	2.691	CIB	3.79	3.782	-0.29	NA
846	2.691	CIB	3.9	-0.97	3.798	-0.17
849	2.692	CIB	3.49	-0.11	3.814	-0.54
846	2.694	CIB	3.84	3.808	-0.53	NA
659	2.695	CIB	4.05	3.744	-0.29	NA
846	2.696	CIB	3.76	-0.52	3.866	-0.12
849	2.696	CIB	3.58	-0.25	3.82	-0.2
607	2.6979	CIB	4.1	0.42	3.782	NA
846	2.699	CIB	3.61	-0.43	3.752	-0.16
659	2.7	CIB	3.86	3.728	-0.2	NA
849	2.7	CIB	3.61	-0.39	3.61	-0.36
846	2.701	CIB	3.46	-0.38	3.612	-0.34
846	2.704	CIB	3.51	-0.24	3.584	NA
849	2.704	CIB	3.62	-0.34	3.688	-0.06
659	2.705	CIB	3.72	3.708	-0.05	NA
607	2.7056	CIB	4.13	0.72	3.688	0.02
846	2.706	CIB	3.56	-0.32	3.674	0.01
659	2.707	CIB	3.41	3.65	-0.04	NA
846	2.708	CIB	3.55	-0.36	3.516	-0.08
849	2.708	CIB	3.6	-0.18	3.538	0
607	2.7095	CIB	3.46	0.54	3.616	-0.12
659	2.71	CIB	3.67	3.66	-0.17	NA
846	2.71	CIB	3.8	-0.49	3.664	-0.18
846	2.712	CIB	3.77	-0.55	3.804	-0.41
849	2.712	CIB	3.62	-0.2	3.812	-0.46
659	2.713	CIB	4.16	3.852	-0.45	NA
846	2.714	CIB	3.71	-0.59	3.864	-0.66
659	2.715	CIB	4	3.876	-0.71	NA
846	2.716	CIB	3.83	-1.2	3.812	NA
849	2.716	CIB	3.68	-0.35	3.754	-0.19
846	2.717	CIB	3.84	3.73	NA	NA
607	2.7171	CIB	3.42	0.97	3.73	0.31
659	2.718	CIB	3.88	3.738	0.29	NA
846	2.719	CIB	3.83	3.746	-0.08	NA
849	2.72	CIB	3.72	-0.4	3.74	-0.17
846	2.721	CIB	3.88	-0.82	3.796	NA
607	2.7215	CIB	3.39	0.71	3.752	-0.29
659	2.722	CIB	4.16	3.754	-0.27	NA
846	2.723	CIB	3.61	-0.63	3.632	0.06

849	2.724	CIB	3.73	-0.35	3.684	-0.25
607	2.7248	CIB	3.27	0.49	3.552	-0.21
846	2.725	CIB	3.65	-0.49	3.524	-0.11
846	2.726	CIB	3.5	-0.09	3.524	-0.1
846	2.728	CIB	3.47	3.516	-0.06	NA
849	2.728	CIB	3.73	-0.3	3.58	-0.04
607	2.7287	CIB	3.23	0.66	3.53	0.3
846	2.73	CIB	3.97	-0.43	3.5	0.11
607	2.7317	CIB	3.25	1.26	3.508	0.11
846	2.732	CIB	3.32	-0.62	3.56	-0.11
849	2.732	CIB	3.77	-0.34	3.552	-0.03
846	2.733	CIB	3.49	-0.42	3.634	-0.49
659	2.734	CIB	3.93	3.722	-0.43	NA
846	2.735	CIB	3.66	-0.56	3.688	-0.45
849	2.736	CIB	3.76	-0.4	3.73	-0.39
846	2.737	CIB	3.6	-0.42	3.7	NA
846	2.738	CIB	3.7	-0.16	3.688	-0.34
659	2.739	CIB	3.78	3.672	-0.31	NA
846	2.74	CIB	3.6	-0.36	3.584	0.05
849	2.74	CIB	3.68	-0.31	3.56	0.01
607	2.7402	CIB	3.16	1.02	3.496	-0.04
846	2.741	CIB	3.58	-0.32	3.44	0.21
846	2.742	CIB	3.46	-0.24	3.406	0.34
607	2.744	CIB	3.32	0.88	3.548	0.02
659	2.744	CIB	3.51	3.51	0.07	NA
846	2.744	CIB	3.87	-0.25	3.514	0.18
849	2.744	CIB	3.39	-0.1	3.58	-0.19
659	2.745	CIB	3.48	3.62	NA	NA
846	2.745	CIB	3.65	-0.22	3.552	-0.26
846	2.746	CIB	3.71	3.674	0.04	NA
846	2.747	CIB	3.53	-0.47	3.558	NA
607	2.7479	CIB	4	0.8	3.466	0.11
659	2.748	CIB	2.9	3.3	0.11	NA
849	2.748	CIB	3.19	-0.01	3.198	0.2
846	2.749	CIB	2.88	0.11	2.994	-0.01
846	2.75	CIB	3.02	-0.12	2.986	0.04
659	2.751	CIB	2.98	2.998	NA	NA
846	2.751	CIB	2.86	0.16	3.074	0.01
849	2.752	CIB	3.25	-0.01	3.078	0.02
659	2.753	CIB	3.26	3.148	0.25	NA
846	2.753	CIB	3.04	-0.09	3.176	0.26
607	2.755	CIB	3.33	0.95	3.18	NA
846	2.755	CIB	3	0.19	3.178	NA
849	2.756	CIB	3.27	-0.01	3.174	0.38
659	2.757	CIB	3.25	3.136	0.14	NA
659	2.758	CIB	3.02	3.178	0.43	NA
846	2.759	CIB	3.14	0.23	3.188	0.66
607	2.7599	CIB	3.21	1.08	3.188	0.43
659	2.76	CIB	3.32	3.192	0.35	NA
849	2.76	CIB	3.25	-0.02	3.182	0.38
846	2.761	CIB	3.04	0.09	3.15	0.31
659	2.762	CIB	3.09	3.19	NA	NA
607	2.7632	CIB	3.05	0.85	3.178	0.3
659	2.764	CIB	3.52	3.212	0.21	NA
849	2.764	CIB	3.19	-0.05	3.238	0.14
846	2.765	CIB	3.21	-0.17	3.294	0.2
846	2.766	CIB	3.22	-0.07	3.222	NA
607	2.7671	CIB	3.33	1.09	3.26	0.21
659	2.768	CIB	3.16	3.24	0.24	NA
846	2.768	CIB	3.38	-0.01	3.262	0.15
849	2.768	CIB	3.11	-0.05	3.278	-0.18

846	2.77	CIB	3.33	-0.44	3.276	-0.15
846	2.772	CIB	3.41	-0.2	3.288	-0.18
849	2.772	CIB	3.15	-0.04	3.348	-0.18
659	2.773	CIB	3.44	3.364	0.12	NA
846	2.774	CIB	3.41	-0.02	3.396	0.09
607	2.7748	CIB	3.41	0.75	3.394	0.09
846	2.776	CIB	3.57	-0.32	3.424	0.27
849	2.776	CIB	3.14	-0.06	3.406	0.25
607	2.7786	CIB	3.59	1	3.398	0.13
846	2.779	CIB	3.32	-0.12	3.31	0.22
659	2.78	CIB	3.37	3.424	0.41	NA
849	2.78	CIB	3.13	0.04	3.37	0.21
607	2.7825	CIB	3.71	0.7	3.34	0.29
846	2.783	CIB	3.32	3.304	0.21	NA
849	2.784	CIB	3.17	0.14	3.33	0.26
846	2.785	CIB	3.19	-0.05	3.34	0.25
659	2.786	CIB	3.26	3.298	NA	NA
607	2.7863	CIB	3.76	0.65	3.296	0.19
659	2.787	CIB	3.11	3.304	0.28	NA
846	2.787	CIB	3.16	-0.02	3.282	0.2
849	2.788	CIB	3.23	0.22	3.246	0.26
846	2.789	CIB	3.15	-0.06	3.268	0.2
607	2.7919	CIB	3.58	0.88	3.292	0.26
846	2.792	CIB	3.22	-0.03	3.368	0.4
849	2.792	CIB	3.28	0.3	3.378	0.52
607	2.794	CIB	3.61	0.93	3.334	0.23
659	2.794	CIB	3.2	3.356	0.32	NA
846	2.795	CIB	3.36	-0.29	3.344	0.16
849	2.796	CIB	3.33	0.32	3.304	0.21
846	2.798	CIB	3.22	-0.31	3.348	0.21
607	2.7983	CIB	3.41	1.13	3.336	0.49
849	2.8	CIB	3.42	0.19	3.336	0.39
607	2.8017	CIB	3.3	1.13	3.37	0.45
846	2.802	CIB	3.33	-0.17	3.36	0.17
849	2.804	CIB	3.39	-0.03	3.352	0.09
846	2.807	CIB	3.36	-0.28	3.316	0.1
849	2.808	CIB	3.38	-0.22	3.38	0.01
607	2.8093	CIB	3.12	1.19	3.428	0.03
846	2.81	CIB	3.65	-0.59	3.494	0.04
659	2.812	CIB	3.63	3.484	-0.01	NA
849	2.812	CIB	3.69	-0.22	3.484	-0.08
846	2.813	CIB	3.33	-0.42	3.502	-0.08
607	2.8132	CIB	3.12	0.93	3.584	NA
846	2.815	CIB	3.74	-0.62	3.604	-0.06
846	2.816	CIB	4.04	3.72	0.07	NA
849	2.816	CIB	3.79	-0.11	3.846	-0.27
659	2.817	CIB	3.91	3.854	-0.1	NA
846	2.817	CIB	3.75	-0.09	3.802	NA
846	2.819	CIB	3.78	3.8	-0.09	NA
846	2.82	CIB	3.78	3.772	-0.18	NA
849	2.82	CIB	3.78	-0.08	3.778	-0.22
846	2.822	CIB	3.77	-0.36	3.72	-0.12
659	2.823	CIB	3.78	3.72	-0.12	NA
846	2.824	CIB	3.49	0.07	3.65	0.18
849	2.824	CIB	3.78	-0.09	3.614	0.36
607	2.8242	CIB	3.43	1.1	3.54	0.25
659	2.826	CIB	3.59	3.552	0.25	NA
846	2.826	CIB	3.41	-0.07	3.484	0.24
849	2.828	CIB	3.55	0.04	3.504	0.22
846	2.829	CIB	3.44	-0.11	3.514	NA

607	2.8304	CIB	3.53	1	3.49	0.24
659	2.831	CIB	3.64	3.46	0.26	NA
846	2.832	CIB	3.29	0.01	3.406	0.48
849	2.832	CIB	3.4	0.13	3.356	0.23
607	2.8324	CIB	3.17	0.79	3.278	0.22
846	2.836	CIB	3.28	0	3.284	0.43
849	2.836	CIB	3.25	0.19	3.27	0.4
607	2.8368	CIB	3.32	1.03	3.308	0.3
846	2.838	CIB	3.33	-0.01	3.312	0.3
659	2.84	CIB	3.36	3.314	NA	NA
846	2.84	CIB	3.3	-0.02	3.26	0.26
849	2.84	CIB	3.26	0.19	3.278	0.22
607	2.8401	CIB	3.05	0.87	3.29	0.17
846	2.841	CIB	3.42	-0.15	3.266	0.38
846	2.843	CIB	3.42	-0.03	3.314	0.42
607	2.8439	CIB	3.18	1	3.372	0.25
659	2.844	CIB	3.5	3.39	0.26	NA
849	2.844	CIB	3.34	0.18	3.32	0.51
846	2.845	CIB	3.51	-0.11	3.338	0.34
607	2.8478	CIB	3.07	0.95	3.362	0.31
659	2.848	CIB	3.27	3.362	0.29	NA
846	2.848	CIB	3.62	0.2	3.37	0.42
849	2.848	CIB	3.34	0.12	3.444	0.07
659	2.849	CIB	3.55	3.466	0.34	NA
846	2.85	CIB	3.44	-0.12	3.438	0.25
607	2.8516	CIB	3.38	1.17	3.456	0.24
846	2.852	CIB	3.48	-0.18	3.448	NA
849	2.852	CIB	3.43	0.07	3.478	0.24
659	2.853	CIB	3.51	3.52	-0.12	NA
846	2.853	CIB	3.59	-0.1	3.538	-0.06
846	2.856	CIB	3.59	-0.25	3.542	-0.15
849	2.856	CIB	3.57	0.03	3.564	NA
846	2.857	CIB	3.45	-0.28	3.58	-0.18
659	2.858	CIB	3.62	3.512	0.15	NA
846	2.859	CIB	3.67	-0.23	3.508	0.12
607	2.8593	CIB	3.25	1.08	3.464	0.37
849	2.86	CIB	3.55	-0.11	3.354	NA
607	2.8606	CIB	3.23	0.74	3.282	0.45
659	2.861	CIB	3.07	3.304	0.23	NA
846	2.862	CIB	3.31	0.07	3.264	0.19
659	2.864	CIB	3.36	3.312	-0.11	NA
846	2.864	CIB	3.35	-0.23	3.354	-0.05
849	2.864	CIB	3.47	-0.17	3.342	-0.04
846	2.866	CIB	3.28	0.12	3.356	-0.04
846	2.868	CIB	3.25	0.11	3.342	0.01
849	2.868	CIB	3.43	-0.02	3.308	0.07
659	2.869	CIB	3.28	3.33	0.05	NA
846	2.871	CIB	3.3	0.05	3.302	0.03
849	2.872	CIB	3.39	0.04	3.288	0.04
846	2.873	CIB	3.11	0.03	3.312	-0.05
659	2.875	CIB	3.36	3.292	-0.14	NA
846	2.875	CIB	3.4	-0.3	3.278	-0.15
846	2.876	CIB	3.2	-0.33	3.25	-0.04
849	2.876	CIB	3.32	-0.01	3.2	NA
607	2.8761	CIB	2.97	0.49	3.166	-0.07
659	2.878	CIB	3.11	3.162	0.26	NA
846	2.878	CIB	3.23	-0.41	3.12	0.34
607	2.8789	CIB	3.18	0.95	3.184	0.05
659	2.879	CIB	3.11	3.214	0.04	NA
846	2.88	CIB	3.29	-0.38	3.228	0.04
849	2.88	CIB	3.26	0	3.242	-0.27

846	2.881	CIB	3.3	-0.43	3.182	0.03
659	2.882	CIB	3.25	3.222	-0.02	NA
607	2.8827	CIB	2.81	0.91	3.232	-0.02
846	2.883	CIB	3.49	-0.55	3.296	-0.07
849	2.884	CIB	3.31	-0.01	3.366	-0.17
846	2.885	CIB	3.62	-0.63	3.558	-0.44
846	2.887	CIB	3.6	-0.57	3.552	-0.31
659	2.888	CIB	3.77	3.492	-0.05	NA
849	2.888	CIB	3.46	-0.04	3.512	0.04
607	2.8884	CIB	3.01	1.06	3.414	0.42
846	2.889	CIB	3.72	-0.31	3.398	0.25
607	2.8904	CIB	3.11	0.95	3.444	0.33
846	2.891	CIB	3.69	-0.4	3.536	-0.05
659	2.892	CIB	3.69	3.514	0.02	NA
846	2.892	CIB	3.47	-0.43	3.592	-0.33
849	2.892	CIB	3.61	-0.06	3.482	-0.06
846	2.894	CIB	3.5	-0.42	3.476	NA
607	2.8948	CIB	3.14	0.68	3.476	-0.05
659	2.895	CIB	3.66	3.482	-0.04	NA
846	2.896	CIB	3.47	-0.39	3.468	0.08
849	2.896	CIB	3.64	-0.04	3.492	-0.22
659	2.897	CIB	3.43	3.428	-0.18	NA
659	2.898	CIB	3.26	3.41	0.24	NA
846	2.898	CIB	3.34	-0.11	3.356	0.32
607	2.8981	CIB	3.38	0.87	3.372	0.26
846	2.9	CIB	3.37	0.19	3.382	0.12
849	2.9	CIB	3.51	0.07	3.43	0.18
846	2.901	CIB	3.31	-0.4	3.412	-0.1
659	2.902	CIB	3.58	3.428	-0.14	NA
846	2.903	CIB	3.29	-0.24	3.38	-0.28
849	2.904	CIB	3.45	0.02	3.388	0.02
846	2.905	CIB	3.27	-0.49	3.416	NA
607	2.9058	CIB	3.35	0.79	3.428	0.05
659	2.906	CIB	3.72	3.382	-0.1	NA
849	2.908	CIB	3.35	-0.12	3.408	0.16
846	2.909	CIB	3.22	-0.59	3.442	-0.05
607	2.9096	CIB	3.4	0.57	3.356	-0.07
659	2.911	CIB	3.52	3.306	-0.05	NA
849	2.912	CIB	3.29	-0.14	3.342	0.04
659	2.913	CIB	3.1	3.228	0.11	NA
846	2.913	CIB	3.4	-0.32	3.214	NA
607	2.9135	CIB	2.83	0.8	3.228	0.1
659	2.916	CIB	3.45	3.284	0.06	NA
846	2.916	CIB	3.36	-0.19	3.31	0.22
849	2.916	CIB	3.38	-0.06	3.38	0.03
607	2.9173	CIB	3.53	0.34	3.35	-0.07
659	2.92	CIB	3.18	3.374	-0.04	NA
846	2.92	CIB	3.3	-0.36	3.346	-0.12
849	2.92	CIB	3.48	-0.07	3.34	-0.27
846	2.924	CIB	3.24	-0.39	3.484	NA
849	2.924	CIB	3.5	-0.26	3.496	-0.28
659	2.925	CIB	3.9	3.398	-0.04	NA
846	2.926	CIB	3.36	-0.38	3.446	-0.06
607	2.9268	CIB	2.99	0.88	3.454	-0.08
846	2.928	CIB	3.48	-0.47	3.28	0.11
849	2.928	CIB	3.54	-0.36	3.312	0.11
607	2.9283	CIB	3.03	0.86	3.472	-0.09
846	2.929	CIB	3.52	-0.38	3.478	-0.03
659	2.93	CIB	3.79	3.488	0.08	NA
846	2.93	CIB	3.51	-0.24	3.574	-0.31

659	2.931	CIB	3.59	3.59	-0.3	NA
846	2.931	CIB	3.46	-0.32	3.614	NA
849	2.932	CIB	3.6	-0.35	3.624	-0.41
659	2.933	CIB	3.91	3.476	-0.07	NA
846	2.933	CIB	3.56	-0.57	3.544	0.02
607	2.9332	CIB	2.85	0.98	3.544	-0.09
659	2.934	CIB	3.8	3.5	-0.21	NA
846	2.934	CIB	3.6	-0.68	3.512	-0.23
846	2.935	CIB	3.69	-0.57	3.664	-0.56
846	2.936	CIB	3.62	-0.65	3.464	-0.28
849	2.936	CIB	3.61	-0.33	3.456	-0.3
607	2.9365	CIB	2.8	0.82	3.418	-0.33
846	2.938	CIB	3.56	-0.76	3.426	-0.25
846	2.939	CIB	3.5	-0.73	3.354	-0.37
659	2.94	CIB	3.66	3.484	-0.66	NA
846	2.94	CIB	3.25	-0.8	3.334	-0.26
849	2.94	CIB	3.45	-0.35	3.294	-0.21
607	2.9404	CIB	2.81	0.84	3.198	-0.26
846	2.941	CIB	3.3	-0.53	3.178	-0.18
846	2.942	CIB	3.18	-0.47	3.146	-0.17
846	2.944	CIB	3.15	-0.37	3.154	-0.15
849	2.944	CIB	3.29	-0.31	3.074	-0.06
607	2.9442	CIB	2.85	0.93	3.08	-0.03
659	2.945	CIB	2.9	3.05	0.33	NA
846	2.946	CIB	3.21	-0.36	2.96	0.33
607	2.948	CIB	3	1.06	3.026	0.07
846	2.948	CIB	2.84	-0.3	3.048	NA
849	2.948	CIB	3.18	-0.14	3.016	0.13
659	2.949	CIB	3.01	3.002	0.06	NA
846	2.951	CIB	3.05	-0.11	3.054	0.12
607	2.9519	CIB	2.93	0.77	3.032	0.07
849	2.952	CIB	3.1	-0.06	3.022	NA
846	2.954	CIB	3.07	-0.31	3.01	0.05
659	2.955	CIB	2.96	3.03	0.1	NA
846	2.955	CIB	2.99	-0.19	3.038	0.1
607	2.9557	CIB	3.03	0.95	3.048	0.12
849	2.956	CIB	3.14	-0.04	3.122	NA
846	2.957	CIB	3.12	-0.23	3.172	0.09
846	2.957	CIB	3.33	3.174	-0.2	NA
846	2.958	CIB	3.24	-0.33	3.198	-0.22
659	2.959	CIB	3.04	3.26	-0.19	NA
846	2.959	CIB	3.26	-0.11	3.258	0.07
846	2.959	CIB	3.43	-0.14	3.262	0.16
607	2.9591	CIB	3.32	0.86	3.278	0.13
849	2.96	CIB	3.26	0.03	3.316	0.19
846	2.961	CIB	3.12	-0.01	3.264	0.22
659	2.963	CIB	3.45	3.25	-0.08	NA
846	2.963	CIB	3.17	-0.01	3.266	-0.07
846	2.964	CIB	3.25	-0.31	3.268	-0.13
849	2.964	CIB	3.34	0.07	3.256	0.06
846	2.965	CIB	3.13	-0.27	3.214	0
607	2.9652	CIB	3.39	0.81	3.192	0.08
846	2.966	CIB	2.96	-0.29	3.19	0.05
659	2.967	CIB	3.14	3.226	0.28	NA
846	2.967	CIB	3.33	-0.07	3.246	0.03
607	2.9673	CIB	3.31	0.66	3.338	0.09
846	2.968	CIB	3.49	-0.2	3.344	NA
849	2.968	CIB	3.42	-0.03	3.33	0.06
659	2.971	CIB	3.17	3.32	0.07	NA
846	2.971	CIB	3.26	-0.2	3.328	0.08

607	2.9716	CIB	3.26	0.72	3.296	0.01
849	2.972	CIB	3.53	-0.17	3.31	0.16
846	2.973	CIB	3.26	-0.32	3.256	0.25
607	2.9749	CIB	3.24	0.75	3.292	-0.03
659	2.975	CIB	2.99	3.304	-0.03	NA
846	2.975	CIB	3.44	-0.37	3.354	NA
849	2.976	CIB	3.59	-0.19	3.318	-0.07
846	2.977	CIB	3.51	-0.32	3.368	-0.05
607	2.9788	CIB	3.06	0.6	3.406	-0.02
846	2.98	CIB	3.24	0.02	3.35	0.03
849	2.98	CIB	3.63	-0.19	3.308	0.11
659	2.981	CIB	3.31	3.292	0.2	NA
846	2.982	CIB	3.3	0	3.246	0.26
607	2.9826	CIB	2.98	0.96	3.146	0.32
659	2.984	CIB	3.01	3.206	0.19	NA
846	2.984	CIB	3.13	-0.01	3.194	0.37
849	2.984	CIB	3.61	-0.19	3.148	0.18
607	2.9865	CIB	3.24	0.73	3.252	0.12
846	2.987	CIB	2.75	3.25	0.04	NA
849	2.988	CIB	3.53	-0.07	3.144	0.12
846	2.989	CIB	3.12	-0.31	3.13	0.1
659	2.99	CIB	3.08	3.152	0.03	NA
607	2.9908	CIB	3.17	0.69	3.122	0.06
846	2.991	CIB	2.86	-0.21	3.132	0.18
849	2.992	CIB	3.38	0.07	3.094	0.11
659	2.994	CIB	3.17	3.104	0.14	NA
846	2.994	CIB	2.89	-0.11	3.13	0.14
607	2.9942	CIB	3.22	0.79	3.114	0.14
846	2.996	CIB	2.99	-0.18	3.096	0.3
849	2.996	CIB	3.3	0.06	3.126	0.26
607	2.998	CIB	3.08	0.93	3.106	0.04
846	2.998	CIB	3.04	-0.32	3.176	0.07
846	3	CIB	3.12	-0.28	3.258	0.07
849	3	CIB	3.34	-0.05	3.298	-0.21
659	3.001	CIB	3.71	3.34	0.06	NA
846	3.003	CIB	3.28	-0.2	3.396	0.1
607	3.0036	CIB	3.25	0.77	3.444	0.15
849	3.004	CIB	3.4	-0.13	3.348	0.29
659	3.005	CIB	3.58	3.358	0.29	NA
607	3.0057	CIB	3.23	0.73	3.392	0.05
846	3.006	CIB	3.33	-0.23	3.398	0.04
846	3.008	CIB	3.42	-0.16	3.364	-0.01
849	3.008	CIB	3.43	-0.19	3.396	-0.03
846	3.009	CIB	3.41	-0.2	3.444	0.02
607	3.01	CIB	3.39	0.64	3.434	0.01
659	3.011	CIB	3.57	3.43	0.01	NA
846	3.012	CIB	3.37	-0.2	3.396	0.21
849	3.012	CIB	3.41	-0.21	3.46	-0.07
607	3.0128	CIB	3.24	0.59	3.422	-0.14
846	3.014	CIB	3.71	-0.44	3.426	-0.14
846	3.016	CIB	3.38	-0.42	3.404	0.01
849	3.016	CIB	3.39	-0.23	3.418	-0.14
607	3.0172	CIB	3.3	0.54	3.398	-0.12
659	3.018	CIB	3.31	3.394	-0.13	NA
846	3.018	CIB	3.61	-0.38	3.404	-0.14
846	3.02	CIB	3.36	-0.45	3.382	-0.1
849	3.02	CIB	3.44	-0.28	3.382	NA
607	3.021	CIB	3.19	0.71	3.328	-0.15
659	3.021	CIB	3.31	3.35	-0.13	NA
846	3.023	CIB	3.34	-0.56	3.232	0.13
849	3.024	CIB	3.47	-0.39	3.334	-0.07

607	3.0249	CIB	2.85	0.75	3.344	-0.17
659	3.025	CIB	3.7	3.36	-0.14	NA
846	3.025	CIB	3.36	-0.48	3.35	-0.15
846	3.027	CIB	3.42	-0.45	3.396	-0.11
849	3.028	CIB	3.42	-0.4	3.332	-0.2
607	3.0287	CIB	3.08	0.91	3.35	-0.13
846	3.029	CIB	3.38	-0.57	3.312	-0.12
659	3.03	CIB	3.45	3.28	-0.1	NA
846	3.032	CIB	3.23	-0.41	3.26	-0.15
849	3.032	CIB	3.26	-0.31	3.244	-0.07
607	3.0326	CIB	2.98	0.7	3.198	NA
846	3.034	CIB	3.3	-0.27	3.126	-0.02
659	3.035	CIB	3.22	3.106	-0.01	NA
846	3.036	CIB	2.87	-0.18	3.194	0
849	3.036	CIB	3.16	-0.27	3.14	0.09
607	3.0364	CIB	3.42	0.72	3.094	-0.04
659	3.038	CIB	3.03	3.214	0.01	NA
846	3.038	CIB	2.99	-0.42	3.206	0
659	3.039	CIB	3.47	3.126	-0.44	NA
849	3.04	CIB	3.12	-0.31	3.15	NA
846	3.041	CIB	3.02	-0.59	3.152	-0.48
659	3.043	CIB	3.15	3.102	-0.23	NA
846	3.043	CIB	3	-0.55	3.11	-0.24
607	3.0437	CIB	3.22	0.52	3.114	-0.21
849	3.044	CIB	3.16	-0.34	3.13	-0.05
846	3.046	CIB	3.04	-0.48	3.19	0.08
607	3.0474	CIB	3.23	0.62	3.22	-0.07
659	3.048	CIB	3.3	3.226	-0.11	NA
659	3.048	CIB	3.37	3.276	-0.06	NA
846	3.048	CIB	3.19	-0.46	3.258	-0.44
849	3.048	CIB	3.29	-0.33	3.21	NA
846	3.051	CIB	3.14	-0.54	3.216	-0.41
659	3.052	CIB	3.06	3.256	NA	NA
849	3.052	CIB	3.4	-0.31	3.28	-0.44
846	3.053	CIB	3.39	-0.46	3.286	-0.38
659	3.054	CIB	3.41	3.254	-0.07	NA
846	3.055	CIB	3.17	-0.37	3.248	-0.06
607	3.0553	CIB	2.9	0.85	3.164	0.07
849	3.056	CIB	3.37	-0.27	3.182	-0.06
659	3.057	CIB	2.97	3.206	0.04	NA
846	3.058	CIB	3.5	-0.46	3.278	-0.46
659	3.059	CIB	3.29	3.24	-0.43	NA
846	3.06	CIB	3.26	-0.66	3.264	-0.1
849	3.06	CIB	3.18	-0.18	3.172	0.02
607	3.0613	CIB	3.09	0.9	3.108	-0.12
659	3.063	CIB	3.04	3.064	0	NA
846	3.063	CIB	2.97	-0.54	3.034	-0.09
849	3.064	CIB	3.04	-0.18	3.062	-0.39
846	3.065	CIB	3.03	-0.53	3.048	NA
846	3.066	CIB	3.23	-0.31	3.03	-0.29
659	3.067	CIB	2.97	3.04	-0.27	NA
846	3.068	CIB	2.88	-0.14	2.974	0.07
849	3.068	CIB	3.09	-0.08	2.962	0.19
607	3.0683	CIB	2.7	0.79	2.956	0.07
659	3.07	CIB	3.17	2.992	-0.01	NA
846	3.07	CIB	2.94	-0.31	3.006	0.01
846	3.072	CIB	3.06	-0.44	3.056	-0.39
849	3.072	CIB	3.16	-0.02	3.024	NA
846	3.073	CIB	2.95	-0.8	2.964	-0.11
659	3.074	CIB	3.01	2.924	-0.06	NA
607	3.0743	CIB	2.64	0.81	2.924	-0.06

846	3.075	CIB	2.86	-0.22	2.942	0.19
849	3.076	CIB	3.16	-0.03	2.954	NA
846	3.077	CIB	3.04	3.028	-0.08	NA
659	3.078	CIB	3.07	3.06	-0.04	NA
846	3.079	CIB	3.01	0.02	3.05	-0.03
846	3.08	CIB	3.02	-0.1	3.044	-0.07
849	3.08	CIB	3.11	0	3.024	0.15
846	3.082	CIB	3.01	-0.2	3.008	0.18
607	3.0822	CIB	2.97	1.01	3.062	0.25
659	3.083	CIB	2.93	3.052	0.24	NA
846	3.084	CIB	3.29	0.17	3.088	0.38
849	3.084	CIB	3.06	-0.04	3.13	0.08
659	3.086	CIB	3.19	3.152	0.05	NA
846	3.086	CIB	3.18	0.11	3.138	0.05
849	3.088	CIB	3.04	-0.05	3.186	0.1
846	3.089	CIB	3.22	0.18	3.168	0.08
846	3.092	CIB	3.3	0.16	3.11	0.07
849	3.092	CIB	3.1	-0.01	3.138	0.11
659	3.094	CIB	2.89	3.132	0.07	NA
846	3.095	CIB	3.18	0.09	3.072	0.23
849	3.096	CIB	3.19	0.04	3.12	0.28
607	3.0961	CIB	3	0.81	3.18	NA
846	3.098	CIB	3.34	0.18	3.192	0.28
659	3.1	CIB	3.19	3.174	0.3	NA
849	3.1	CIB	3.24	0.07	3.14	0.3
846	3.101	CIB	3.1	0.13	3.09	0.34
607	3.1021	CIB	2.83	0.82	3.048	0.22
659	3.103	CIB	3.09	3.038	0.18	NA
846	3.104	CIB	2.98	-0.14	3.07	0.2
849	3.104	CIB	3.19	-0.09	3.15	-0.11
659	3.105	CIB	3.26	3.156	-0.15	NA
846	3.107	CIB	3.23	-0.09	3.206	-0.15
849	3.108	CIB	3.12	-0.27	3.182	-0.22
659	3.109	CIB	3.23	3.15	-0.25	NA
846	3.11	CIB	3.07	-0.3	3.182	-0.24
849	3.112	CIB	3.1	-0.33	3.152	-0.22
846	3.113	CIB	3.39	-0.04	3.124	-0.18
659	3.116	CIB	2.97	3.126	-0.2	NA
846	3.116	CIB	3.09	-0.04	3.104	0.09
849	3.116	CIB	3.08	-0.38	3.128	0.14
607	3.117	CIB	2.99	0.83	3.21	0.05
659	3.119	CIB	3.51	3.218	-0.05	NA
846	3.119	CIB	3.38	-0.22	3.246	0.02
849	3.12	CIB	3.13	-0.41	3.336	-0.25
846	3.122	CIB	3.22	-0.11	3.278	-0.28
659	3.123	CIB	3.44	3.322	-0.29	NA
849	3.124	CIB	3.22	-0.38	3.338	-0.25
846	3.125	CIB	3.6	-0.27	3.348	-0.33
846	3.128	CIB	3.21	-0.25	3.332	NA
849	3.128	CIB	3.27	-0.41	3.29	-0.07
659	3.129	CIB	3.36	3.214	-0.07	NA
607	3.1299	CIB	3.01	0.66	3.268	-0.01
846	3.131	CIB	3.22	-0.29	3.28	NA
659	3.132	CIB	3.48	3.282	NA	NA
849	3.132	CIB	3.33	-0.41	3.37	-0.35
659	3.133	CIB	3.37	3.428	-0.38	NA
659	3.134	CIB	3.45	3.41	NA	NA
846	3.134	CIB	3.51	-0.34	3.444	-0.33
659	3.136	CIB	3.39	3.448	-0.34	NA
846	3.136	CIB	3.5	-0.31	3.348	-0.03
849	3.136	CIB	3.39	-0.38	3.364	-0.04

607	3.1387	CIB	2.95	0.9	3.376	-0.12
846	3.139	CIB	3.59	-0.35	3.434	-0.14
849	3.14	CIB	3.45	-0.45	3.498	-0.17
846	3.141	CIB	3.79	-0.4	3.606	-0.45
846	3.144	CIB	3.71	-0.54	3.502	-0.18
849	3.144	CIB	3.49	-0.49	3.512	-0.12
607	3.1448	CIB	3.07	0.97	3.496	-0.19
659	3.146	CIB	3.5	3.434	-0.11	NA
846	3.146	CIB	3.71	-0.68	3.432	-0.11
846	3.148	CIB	3.4	-0.25	3.372	-0.47
849	3.148	CIB	3.48	-0.47	3.348	-0.53
659	3.151	CIB	2.77	3.272	-0.46	NA
846	3.151	CIB	3.38	-0.72	3.166	-0.17
849	3.152	CIB	3.33	-0.4	3.162	-0.12
607	3.1526	CIB	2.87	0.92	3.22	NA
846	3.153	CIB	3.46	-0.28	3.172	-0.02
659	3.154	CIB	3.06	3.112	0.02	NA
846	3.156	CIB	3.14	-0.32	3.176	-0.27
849	3.156	CIB	3.03	-0.24	3.088	-0.02
846	3.158	CIB	3.19	-0.23	3.102	NA
607	3.1596	CIB	3.02	0.71	3.046	0.02
659	3.16	CIB	3.13	3.052	0.05	NA
849	3.16	CIB	2.86	-0.17	3.032	0.14
846	3.162	CIB	3.06	-0.12	3.01	-0.14
659	3.164	CIB	3.09	3.024	-0.13	NA
849	3.164	CIB	2.91	-0.13	3.066	0.1
846	3.165	CIB	3.2	-0.11	3.064	0.17
607	3.1656	CIB	3.07	0.76	3.088	0.12
659	3.166	CIB	3.05	3.092	0.14	NA
846	3.168	CIB	3.21	-0.06	3.09	0.14
849	3.168	CIB	2.93	-0.03	3.072	-0.04
846	3.171	CIB	3.19	-0.1	3.092	NA
849	3.172	CIB	2.98	0.04	3.122	-0.03
659	3.173	CIB	3.15	3.158	-0.01	NA
846	3.174	CIB	3.36	3.186	-0.04	NA
849	3.176	CIB	3.11	0.03	3.214	-0.08
846	3.177	CIB	3.33	-0.18	3.246	-0.12
659	3.178	CIB	3.12	3.214	-0.07	NA
846	3.18	CIB	3.31	-0.21	3.196	-0.11
849	3.18	CIB	3.2	0.07	3.124	0.12
659	3.182	CIB	3.02	3.132	NA	NA
607	3.183	CIB	2.97	0.51	3.116	0.23
659	3.183	CIB	3.16	3.104	0.38	NA
849	3.184	CIB	3.23	0.12	3.19	0.25
607	3.1846	CIB	3.14	0.51	3.162	0.32
846	3.186	CIB	3.45	-0.14	3.16	NA
607	3.1862	CIB	2.83	0.79	3.154	0.34
659	3.188	CIB	3.15	3.068	0.41	NA
849	3.188	CIB	3.2	0.2	3.05	0.42
607	3.1885	CIB	2.71	0.77	3.038	0.42
846	3.189	CIB	3.36	-0.09	3.07	0.33
607	3.1911	CIB	2.77	0.81	3.058	0.36
846	3.192	CIB	3.31	-0.02	3.08	0.35
849	3.192	CIB	3.14	0.33	2.978	0.54
607	3.1924	CIB	2.82	0.72	3.04	0.41
607	3.194	CIB	2.85	0.87	3.002	0.52
846	3.195	CIB	3.08	0.16	2.996	0.52
659	3.196	CIB	3.12	3.01	0.58	NA
849	3.196	CIB	3.11	0.34	3.052	0.39
607	3.1971	CIB	2.89	0.96	3.012	0.57

846	3.198	CIB	3.06	0.1	3.014	0.51
607	3.1987	CIB	2.88	0.87	2.978	0.64
849	3.2	CIB	3.13	0.28	3.014	0.58
607	3.2003	CIB	2.93	1	3.012	0.71
607	3.2018	CIB	3.07	0.67	3.044	0.51
659	3.202	CIB	3.05	3.048	0.52	NA
846	3.203	CIB	3.04	0.09	2.994	0.53
849	3.204	CIB	3.15	0.3	2.918	0.63
607	3.2041	CIB	2.66	1.05	2.874	NA
607	3.2048	CIB	2.69	1.08	2.82	0.87
659	3.206	CIB	2.83	2.714	1.05	NA
607	3.2067	CIB	2.77	1.06	2.808	0.87
607	3.2079	CIB	2.62	1	2.914	0.62
849	3.208	CIB	3.13	0.32	2.898	0.7
846	3.209	CIB	3.22	0.09	2.858	0.69
607	3.2097	CIB	2.75	1.01	2.958	0.56
607	3.211	CIB	2.57	1.01	2.866	0.71
849	3.212	CIB	3.12	0.36	2.818	0.86
607	3.2128	CIB	2.67	1.07	2.81	NA
659	3.213	CIB	2.98	2.916	0.6	NA
607	3.2144	CIB	2.71	1.01	2.92	0.6
846	3.216	CIB	3.1	-0.05	2.962	0.58
849	3.216	CIB	3.14	0.36	2.898	0.63
607	3.2175	CIB	2.88	1.01	2.972	0.54
607	3.2198	CIB	2.66	0.82	2.988	0.63
659	3.22	CIB	3.08	2.926	0.77	NA
849	3.22	CIB	3.18	0.31	2.958	0.69
607	3.2225	CIB	2.83	0.94	3.09	0.36
659	3.223	CIB	3.04	3.118	0.34	NA
846	3.224	CIB	3.32	-0.16	3.152	0.31
849	3.224	CIB	3.22	0.27	3.128	0.31
846	3.226	CIB	3.35	0.17	3.17	0.29
607	3.2264	CIB	2.71	0.94	3.056	0.47
849	3.228	CIB	3.25	0.23	3.03	0.45
607	3.2299	CIB	2.75	0.75	3.014	0.45
846	3.23	CIB	3.09	0.16	3.126	0.27
849	3.232	CIB	3.27	0.19	3.02	0.38
846	3.234	CIB	3.27	0.02	3.066	0.29
607	3.2341	CIB	2.72	0.77	3.092	0.29
659	3.235	CIB	2.98	3.09	0.32	NA
849	3.236	CIB	3.22	0.16	3.056	0.36
659	3.238	CIB	3.26	3.086	0.41	NA
846	3.238	CIB	3.1	0.16	3.122	0.35
607	3.2382	CIB	2.87	0.91	3.104	0.33
849	3.24	CIB	3.16	0.17	3.084	0.27
846	3.241	CIB	3.13	0.09	3.092	0.29
846	3.244	CIB	3.16	0.03	3.152	0.14
849	3.244	CIB	3.14	0.25	3.166	0.07
659	3.245	CIB	3.17	3.088	0.33	NA
846	3.245	CIB	3.23	-0.08	3.122	0.37
607	3.2465	CIB	2.74	1.12	3.112	0.37
846	3.248	CIB	3.33	0.2	3.088	0.29
849	3.248	CIB	3.09	0.23	3.066	0.35
846	3.249	CIB	3.05	0	3.048	0.16
846	3.25	CIB	3.12	0.22	3.002	0.12
659	3.251	CIB	2.65	2.984	0.09	NA
846	3.252	CIB	3.1	0.03	2.974	0.11
849	3.252	CIB	3	0.09	2.964	0.09
659	3.254	CIB	3	3.052	0.09	NA
846	3.254	CIB	3.07	0.14	3.074	0.1
846	3.254	CIB	3.09	0.11	3.066	0.06

846	3.255	CIB	3.21	0.04	3.104	0.05
849	3.256	CIB	2.96	-0.04	3.1	0.07
846	3.257	CIB	3.19	0	3.082	0.03
846	3.259	CIB	3.05	0.24	3.012	0.19
849	3.26	CIB	3	-0.11	3.052	0.24
607	3.2609	CIB	2.86	0.85	2.958	0.39
846	3.263	CIB	3.16	0.2	2.968	0.33
607	3.2631	CIB	2.72	0.78	2.994	0.44
849	3.264	CIB	3.1	-0.07	2.97	0.4
659	3.265	CIB	3.13	2.998	0.47	NA
607	3.2678	CIB	2.74	0.69	3.086	0.21
659	3.268	CIB	3.3	3.092	0.24	NA
846	3.268	CIB	3.16	0	3.088	0.38
849	3.268	CIB	3.13	0.03	3.18	0.24
607	3.2714	CIB	3.11	0.79	3.142	0.2
846	3.272	CIB	3.2	0.14	3.144	0.25
849	3.272	CIB	3.11	0.02	3.15	0.41
659	3.273	CIB	3.17	3.12	0.26	NA
607	3.2756	CIB	3.16	0.68	3.116	0.24
846	3.276	CIB	2.96	0.21	3.158	0.31
849	3.276	CIB	3.18	0.05	3.152	0.27
659	3.277	CIB	3.32	3.166	0.11	NA
846	3.28	CIB	3.14	0.15	3.282	0.19
849	3.28	CIB	3.23	0.04	3.284	0.24
607	3.2803	CIB	3.54	0.52	3.302	0.33
659	3.281	CIB	3.19	3.194	0.39	NA
607	3.2838	CIB	3.41	0.6	3.14	0.39
659	3.284	CIB	2.6	3.088	0.21	NA
846	3.284	CIB	2.96	0.06	3.064	0.24
849	3.284	CIB	3.28	-0.03	3.05	0.05
846	3.287	CIB	3.07	0.31	3.036	NA
849	3.288	CIB	3.34	-0.13	2.956	0.05
659	3.289	CIB	2.53	2.894	0.09	NA
659	3.289	CIB	2.56	2.9	-0.07	NA
659	3.29	CIB	2.97	2.874	0	NA
846	3.29	CIB	3.1	0	3.016	NA
659	3.291	CIB	3.21	3.214	NA	NA
659	3.291	CIB	3.24	3.338	NA	NA
659	3.292	CIB	3.55	3.416	-0.28	NA
659	3.292	CIB	3.59	3.456	0.29	NA
849	3.292	CIB	3.49	-0.28	3.408	0.18
607	3.2921	CIB	3.41	0.85	3.312	0.17
846	3.293	CIB	3	-0.03	3.324	0.06
846	3.296	CIB	3.07	0.12	3.334	0.14
849	3.296	CIB	3.65	-0.37	3.282	-0.13
659	3.299	CIB	3.54	3.338	-0.16	NA
846	3.299	CIB	3.15	-0.23	3.456	-0.33
659	3.3	CIB	3.28	3.41	-0.31	NA
849	3.3	CIB	3.66	-0.38	3.42	NA
659	3.301	CIB	3.42	3.42	-0.24	NA
659	3.301	CIB	3.59	3.442	0.1	NA
846	3.301	CIB	3.15	-0.09	3.378	0.34
607	3.3024	CIB	3.39	0.76	3.346	0.22
659	3.303	CIB	3.34	3.35	0.07	NA
846	3.304	CIB	3.26	0	3.488	-0.04
849	3.304	CIB	3.61	-0.4	3.476	-0.3
846	3.305	CIB	3.84	-0.51	3.562	-0.35
659	3.308	CIB	3.33	3.604	-0.45	NA
846	3.308	CIB	3.77	-0.5	3.616	-0.47
849	3.308	CIB	3.47	-0.39	3.46	-0.01
659	3.309	CIB	3.67	3.46	NA	NA

607	3.3093	CIB	3.06	0.86	3.41	0.24
659	3.311	CIB	3.33	3.43	0.3	NA
659	3.311	CIB	3.52	3.378	0.07	NA
846	3.311	CIB	3.57	-0.27	3.492	-0.32
849	3.312	CIB	3.41	-0.37	3.468	NA
846	3.313	CIB	3.63	-0.31	3.452	NA
659	3.314	CIB	3.21	3.416	-0.34	NA
659	3.315	CIB	3.44	3.502	-0.3	NA
659	3.316	CIB	3.39	3.46	-0.31	NA
846	3.316	CIB	3.84	-0.28	3.394	0.11
849	3.316	CIB	3.42	-0.34	3.414	NA
607	3.317	CIB	2.88	0.95	3.466	0.05
659	3.318	CIB	3.54	3.394	0.16	NA
846	3.319	CIB	3.65	-0.14	3.394	0.18
659	3.32	CIB	3.48	3.472	-0.2	NA
849	3.32	CIB	3.42	-0.26	3.458	-0.12
659	3.321	CIB	3.27	3.444	-0.11	NA
846	3.322	CIB	3.47	0.04	3.384	NA
659	3.323	CIB	3.58	3.368	0.04	NA
659	3.324	CIB	3.18	3.382	-0.04	NA
659	3.324	CIB	3.34	3.33	-0.12	NA
849	3.324	CIB	3.34	-0.12	3.198	0.35
659	3.325	CIB	3.21	3.216	NA	NA
607	3.3253	CIB	2.92	0.81	3.224	0.23
659	3.327	CIB	3.27	3.192	0.27	NA
846	3.327	CIB	3.38	0	3.208	NA
849	3.328	CIB	3.18	-0.01	3.306	0.03
659	3.329	CIB	3.29	3.332	NA	NA
846	3.329	CIB	3.41	0.09	3.328	0.01
659	3.33	CIB	3.4	3.316	-0.01	NA
846	3.331	CIB	3.36	-0.06	3.332	NA
849	3.332	CIB	3.12	-0.06	3.29	-0.07
659	3.333	CIB	3.37	3.306	-0.07	NA
846	3.333	CIB	3.2	-0.1	3.274	-0.11
846	3.335	CIB	3.48	-0.05	3.296	-0.18
849	3.336	CIB	3.2	-0.23	3.25	NA
846	3.337	CIB	3.23	-0.33	3.38	-0.3
659	3.338	CIB	3.14	3.328	-0.35	NA
846	3.339	CIB	3.85	-0.57	3.304	-0.39
849	3.34	CIB	3.22	-0.28	3.39	-0.43
659	3.341	CIB	3.08	3.364	NA	NA
846	3.341	CIB	3.66	-0.43	3.364	-0.45
659	3.343	CIB	3.01	3.362	-0.42	NA
846	3.343	CIB	3.85	-0.63	3.456	-0.48
849	3.344	CIB	3.21	-0.19	3.346	-0.5
846	3.345	CIB	3.55	-0.68	3.468	-0.52
659	3.347	CIB	3.11	3.356	-0.39	NA
846	3.347	CIB	3.62	-0.57	3.332	-0.46
849	3.348	CIB	3.29	-0.12	3.346	-0.43
659	3.35	CIB	3.09	3.402	NA	NA
846	3.35	CIB	3.62	-0.59	3.406	-0.42
659	3.352	CIB	3.39	3.42	-0.41	NA
846	3.352	CIB	3.64	-0.56	3.492	-0.45
849	3.352	CIB	3.36	-0.09	3.48	-0.4
846	3.354	CIB	3.45	-0.54	3.512	-0.42
659	3.356	CIB	3.56	3.446	-0.32	NA
846	3.356	CIB	3.55	-0.5	3.462	-0.44
849	3.356	CIB	3.31	-0.15	3.448	-0.4
846	3.358	CIB	3.44	-0.56	3.392	-0.36
846	3.36	CIB	3.38	-0.37	3.36	-0.34
849	3.36	CIB	3.28	-0.21	3.426	-0.33

846	3.362	CIB	3.39	-0.39	3.404	-0.25
846	3.364	CIB	3.64	-0.1	3.406	-0.23
849	3.364	CIB	3.33	-0.2	3.364	-0.18
659	3.365	CIB	3.39	3.342	-0.12	NA
846	3.366	CIB	3.07	-0.03	3.284	-0.12
846	3.368	CIB	3.28	-0.15	3.25	-0.15
849	3.368	CIB	3.35	-0.11	3.202	NA
846	3.37	CIB	3.16	-0.29	3.25	-0.16
846	3.372	CIB	3.15	3.204	-0.17	NA
849	3.372	CIB	3.31	-0.1	3.168	-0.21
659	3.375	CIB	3.05	3.186	-0.17	NA
846	3.375	CIB	3.17	-0.23	3.194	-0.21
849	3.376	CIB	3.25	-0.19	3.188	-0.23
846	3.378	CIB	3.19	-0.3	3.206	-0.24
849	3.38	CIB	3.28	-0.19	3.23	-0.24
846	3.381	CIB	3.14	-0.28	3.226	-0.31
659	3.383	CIB	3.29	3.27	-0.28	NA
846	3.384	CIB	3.23	-0.48	3.252	-0.31
849	3.384	CIB	3.41	-0.18	3.252	-0.26
659	3.385	CIB	3.19	3.278	-0.25	NA
846	3.387	CIB	3.14	-0.11	3.266	-0.16
849	3.388	CIB	3.42	-0.24	3.268	-0.18
846	3.39	CIB	3.17	-0.12	3.336	-0.23
849	3.392	CIB	3.42	-0.26	3.344	-0.23
846	3.393	CIB	3.53	-0.43	3.33	-0.23
846	3.396	CIB	3.18	-0.11	3.218	-0.26
849	3.396	CIB	3.35	-0.23	3.192	-0.21
659	3.398	CIB	2.61	3.122	-0.13	NA
846	3.399	CIB	3.29	-0.05	3.12	-0.11
849	3.4	CIB	3.18	-0.11	3.104	NA
846	3.402	CIB	3.17	-0.06	3.19	-0.09
846	3.404	CIB	3.27	-0.23	3.162	-0.12
849	3.404	CIB	3.04	0	3.172	-0.13
846	3.406	CIB	3.15	-0.22	3.108	-0.14
659	3.407	CIB	3.23	3.064	-0.09	NA
846	3.408	CIB	2.85	-0.12	3.038	-0.09
849	3.408	CIB	3.05	-0.03	3.034	-0.04
846	3.41	CIB	2.91	0.02	3.056	-0.12
659	3.411	CIB	3.13	3.118	-0.13	NA
846	3.412	CIB	3.34	-0.36	3.184	-0.2
849	3.412	CIB	3.16	-0.13	3.242	-0.24
846	3.414	CIB	3.38	-0.32	3.164	NA
849	3.416	CIB	3.2	-0.13	3.136	-0.25
659	3.417	CIB	2.74	3.152	-0.24	NA
846	3.417	CIB	3.2	-0.41	3.062	-0.21
846	3.419	CIB	3.24	-0.09	3.05	-0.19
659	3.42	CIB	2.93	3.136	-0.17	NA
849	3.42	CIB	3.14	-0.08	3.132	-0.08
846	3.421	CIB	3.17	-0.11	3.092	-0.16
846	3.423	CIB	3.18	-0.03	3.126	-0.16
846	3.424	CIB	3.04	-0.43	3.144	-0.23
849	3.424	CIB	3.1	-0.14	3.082	-0.26
846	3.426	CIB	3.23	-0.44	3.082	-0.34
659	3.427	CIB	2.86	3.086	-0.29	NA
846	3.428	CIB	3.18	-0.34	3.114	-0.38
849	3.428	CIB	3.06	-0.22	3.142	-0.4
846	3.429	CIB	3.24	-0.5	3.19	-0.38
846	3.431	CIB	3.37	-0.53	3.166	-0.39
849	3.432	CIB	3.1	-0.31	3.204	-0.45
659	3.433	CIB	3.06	3.22	-0.46	NA

846	3.433	CIB	3.25	-0.45	3.232	-0.44
846	3.434	CIB	3.32	-0.55	3.246	-0.45
846	3.436	CIB	3.43	-0.44	3.304	-0.47
849	3.436	CIB	3.17	-0.37	3.322	-0.45
846	3.438	CIB	3.35	-0.53	3.244	-0.43
846	3.439	CIB	3.34	-0.37	3.176	-0.41
659	3.44	CIB	2.93	3.188	-0.46	NA
849	3.44	CIB	3.09	-0.37	3.176	-0.43
846	3.441	CIB	3.23	-0.57	3.14	-0.39
846	3.443	CIB	3.29	-0.41	3.146	-0.39
846	3.444	CIB	3.16	-0.22	3.19	-0.39
849	3.444	CIB	2.96	-0.37	3.174	-0.27
659	3.445	CIB	3.31	3.094	-0.21	NA
846	3.446	CIB	3.15	-0.07	3.038	-0.23
846	3.447	CIB	2.89	-0.16	3.06	-0.19
849	3.448	CIB	2.88	-0.33	2.996	-0.21
846	3.449	CIB	3.07	2.948	-0.25	NA
846	3.451	CIB	2.99	-0.29	2.942	-0.25
846	3.452	CIB	2.91	-0.23	2.932	-0.22
849	3.452	CIB	2.86	-0.15	2.898	-0.26
659	3.453	CIB	2.83	2.874	-0.32	NA
846	3.454	CIB	2.9	-0.36	2.86	-0.26
846	3.456	CIB	2.87	-0.54	2.878	-0.31
849	3.456	CIB	2.84	0.03	2.814	NA
846	3.457	CIB	2.95	-0.36	2.892	-0.29
659	3.459	CIB	2.51	2.888	-0.13	NA
846	3.459	CIB	3.29	-0.28	2.942	-0.2
849	3.46	CIB	2.85	0.1	2.96	-0.17
846	3.461	CIB	3.11	-0.24	3.08	-0.19
846	3.462	CIB	3.04	-0.26	3.008	-0.13
846	3.464	CIB	3.11	-0.29	3.056	0.01
849	3.464	CIB	2.93	0.05	3.01	0.07
959	3.465	CIB	3.09	0.78	2.988	0.05
659	3.467	CIB	2.88	2.98	0.1	NA
846	3.467	CIB	2.93	-0.33	2.966	-0.02
849	3.468	CIB	3.07	-0.09	2.978	-0.25
846	3.47	CIB	2.86	-0.43	2.956	NA
849	3.472	CIB	3.15	-0.15	2.982	-0.27
659	3.473	CIB	2.77	2.986	-0.11	NA
846	3.473	CIB	3.06	-0.41	3.006	-0.16
959	3.474	CIB	3.09	0.56	3.004	-0.15
846	3.476	CIB	2.96	-0.65	2.98	NA
849	3.476	CIB	3.14	-0.1	2.986	-0.22
659	3.478	CIB	2.65	2.974	-0.34	NA
846	3.479	CIB	3.09	-0.68	2.948	-0.24
849	3.48	CIB	3.03	0.06	2.956	-0.43
659	3.482	CIB	2.83	3.04	-0.13	NA
846	3.482	CIB	3.18	-0.66	3.006	0.08
959	3.483	CIB	3.07	0.77	3.014	-0.04
849	3.484	CIB	2.92	0.16	3.04	-0.11
846	3.485	CIB	3.07	-0.41	2.986	0.05
846	3.488	CIB	2.96	-0.42	3.008	-0.13
849	3.488	CIB	2.91	0.17	3.018	-0.27
659	3.49	CIB	3.18	2.996	-0.14	NA
846	3.491	CIB	2.97	-0.43	2.936	0.16
849	3.492	CIB	2.96	0.12	2.96	-0.01
959	3.493	CIB	2.66	0.78	2.908	NA
846	3.494	CIB	3.03	-0.52	2.918	0.1
659	3.495	CIB	2.92	2.868	0.01	NA
849	3.496	CIB	3.02	0.03	2.952	-0.25

846	3.497	CIB	2.71	-0.26	2.954	-0.08
659	3.5	CIB	3.08	2.946	-0.14	NA
849	3.5	CIB	3.04	-0.02	2.936	0.02
846	3.501	CIB	2.88	-0.32	3.006	0.09
959	3.502	CIB	2.97	0.68	2.978	0
849	3.504	CIB	3.06	0	2.99	0.01
846	3.506	CIB	2.94	-0.36	2.988	0.05
849	3.508	CIB	3.1	0.05	3.018	-0.08
846	3.51	CIB	2.87	-0.14	2.982	-0.11
849	3.512	CIB	3.12	0.07	3.012	-0.04
846	3.514	CIB	2.88	-0.17	3.032	-0.06
849	3.516	CIB	3.09	-0.01	3.054	-0.09
659	3.517	CIB	3.2	3.042	-0.19	NA
846	3.517	CIB	2.98	-0.23	3.086	-0.14
846	3.52	CIB	3.06	-0.34	3.068	-0.26
849	3.52	CIB	3.1	0.03	3.05	-0.18
846	3.522	CIB	3	-0.48	3.038	-0.22
849	3.524	CIB	3.11	0.1	3.012	-0.2
846	3.525	CIB	2.92	-0.43	2.976	-0.27
659	3.526	CIB	2.93	2.962	-0.18	NA
846	3.527	CIB	2.92	2.942	-0.26	NA
846	3.527	CIB	2.93	-0.21	2.946	-0.21
846	3.527	CIB	3.01	-0.14	2.95	NA
846	3.528	CIB	2.94	-0.29	2.982	-0.15
846	3.528	CIB	2.95	2.988	-0.13	NA
849	3.528	CIB	3.08	0.04	2.938	-0.16
846	3.53	CIB	2.96	2.968	-0.06	NA
846	3.531	CIB	2.76	-0.24	2.95	NA
849	3.532	CIB	3.09	0.02	2.918	-0.18
659	3.533	CIB	2.86	2.924	NA	NA
846	3.534	CIB	2.92	-0.31	2.93	-0.15
659	3.535	CIB	2.99	2.93	-0.13	NA
846	3.535	CIB	2.79	2.952	-0.16	NA
849	3.536	CIB	3.09	0.05	2.938	-0.11
846	3.537	CIB	2.97	-0.22	2.94	NA
846	3.539	CIB	2.85	-0.17	2.958	-0.15
659	3.54	CIB	3	2.948	-0.16	NA
846	3.54	CIB	2.88	-0.26	2.934	-0.14
849	3.54	CIB	3.04	0	2.962	-0.13
846	3.542	CIB	2.9	-0.12	2.964	-0.12
846	3.544	CIB	2.99	3.01	-0.07	NA
849	3.544	CIB	3.01	-0.09	3.018	-0.11
659	3.545	CIB	3.11	3.118	-0.09	NA
846	3.546	CIB	3.08	3.124	-0.13	NA
846	3.548	CIB	3.4	3.16	-0.16	NA
849	3.548	CIB	3.02	-0.16	3.17	NA
846	3.549	CIB	3.19	3.164	NA	NA
659	3.551	CIB	3.16	3.126	NA	NA
846	3.551	CIB	3.05	3.138	-0.24	NA
659	3.552	CIB	3.21	3.122	-0.24	NA
849	3.552	CIB	3.08	-0.24	3.118	NA
846	3.553	CIB	3.11	-0.23	3.066	NA
659	3.554	CIB	3.14	3.068	NA	NA
846	3.554	CIB	2.79	3.036	-0.2	NA
659	3.556	CIB	3.22	3.04	-0.24	NA
846	3.556	CIB	2.92	-0.16	3.02	-0.22
849	3.556	CIB	3.13	-0.32	3.088	-0.26
846	3.558	CIB	3.04	-0.18	3.076	-0.28
846	3.56	CIB	3.13	-0.39	3.106	-0.31
849	3.56	CIB	3.16	-0.34	3.086	-0.29
846	3.562	CIB	3.07	-0.32	3.114	-0.31

846	3.563	CIB	3.03	-0.2	3.088	-0.25
849	3.564	CIB	3.18	-0.32	3.064	-0.23
846	3.565	CIB	3	-0.07	3.068	-0.2
659	3.566	CIB	3.04	3.066	-0.25	NA
659	3.567	CIB	3.09	3.04	-0.21	NA
846	3.567	CIB	3.02	-0.35	3.072	-0.31
659	3.568	CIB	3.05	3.082	-0.27	NA
849	3.568	CIB	3.16	-0.26	3.07	-0.22
846	3.569	CIB	3.09	-0.19	3.066	-0.16
846	3.57	CIB	3.03	-0.09	3.08	-0.14
846	3.572	CIB	3	-0.08	3.026	-0.08
849	3.572	CIB	3.12	-0.1	2.968	-0.04
846	3.574	CIB	2.89	0.07	2.972	-0.01
846	3.576	CIB	2.8	0	2.976	0.01
849	3.576	CIB	3.05	0.06	3.002	0.04
846	3.577	CIB	3.02	3.022	0.03	NA
659	3.578	CIB	3.25	3.052	0.07	NA
846	3.58	CIB	2.99	0.04	3.1	0.08
849	3.58	CIB	2.95	0.11	3.134	NA
659	3.583	CIB	3.29	3.064	0.09	NA
846	3.584	CIB	3.19	3.132	0.11	NA
849	3.584	CIB	2.9	0.11	3.168	0.03
659	3.587	CIB	3.33	3.114	0.05	NA
846	3.587	CIB	3.13	-0.06	3.126	NA
849	3.588	CIB	3.02	0.09	3.192	0.02
846	3.59	CIB	3.25	3.128	-0.03	NA
849	3.592	CIB	3.23	0.02	3.158	-0.01
846	3.594	CIB	3.01	-0.15	3.216	-0.02
659	3.596	CIB	3.28	3.158	-0.01	NA
849	3.596	CIB	3.31	0.07	3.164	0.02
846	3.597	CIB	2.96	0.01	3.146	-0.06
849	3.6	CIB	3.26	0.16	3.124	NA
846	3.601	CIB	2.92	-0.48	3.06	-0.1
659	3.604	CIB	3.17	3.112	-0.06	NA
846	3.604	CIB	2.99	3.05	-0.17	NA
849	3.604	CIB	3.22	0.14	3.09	0.14
659	3.608	CIB	2.95	3.1	0.15	NA
846	3.608	CIB	3.12	3.088	NA	NA
849	3.608	CIB	3.22	0.15	3.066	0.15
659	3.609	CIB	2.93	3.066	0.04	NA
659	3.61	CIB	3.11	3.01	NA	NA
846	3.611	CIB	2.95	-0.08	3.006	0.05
659	3.612	CIB	2.84	2.954	NA	NA
849	3.612	CIB	3.2	0.18	2.924	NA
846	3.615	CIB	2.67	2.972	0.09	NA
659	3.616	CIB	2.96	3.042	NA	NA
849	3.616	CIB	3.19	-0.01	2.972	-0.11
659	3.618	CIB	3.19	3.084	-0.14	NA
846	3.618	CIB	2.85	-0.21	3.06	NA
849	3.62	CIB	3.23	-0.2	3.01	-0.24
659	3.621	CIB	2.84	2.976	NA	NA
846	3.621	CIB	2.94	-0.32	3.044	-0.26
659	3.623	CIB	3.02	3.064	-0.26	NA
846	3.624	CIB	3.19	-0.27	3.184	NA
849	3.624	CIB	3.33	-0.18	3.294	-0.23
659	3.626	CIB	3.44	3.334	-0.24	NA
659	3.627	CIB	3.49	3.384	-0.2	NA
846	3.628	CIB	3.22	-0.28	3.396	-0.21
849	3.628	CIB	3.44	-0.13	3.35	-0.27
659	3.631	CIB	3.39	3.354	-0.23	NA
846	3.631	CIB	3.21	-0.41	3.396	-0.25

849	3.632	CIB	3.51	-0.11	3.46	-0.29
846	3.634	CIB	3.43	-0.36	3.52	NA
659	3.635	CIB	3.76	3.598	-0.23	NA
659	3.636	CIB	3.69	3.522	-0.28	NA
849	3.636	CIB	3.6	-0.23	3.478	-0.24
846	3.637	CIB	3.13	-0.24	3.298	-0.23
659	3.64	CIB	3.21	3.278	-0.27	NA
846	3.64	CIB	2.86	-0.21	3.216	-0.28
849	3.64	CIB	3.59	-0.4	3.17	-0.26
659	3.643	CIB	3.29	3.218	-0.28	NA
846	3.643	CIB	2.9	-0.18	3.22	-0.28
849	3.644	CIB	3.45	-0.32	3.166	-0.21
846	3.647	CIB	2.87	-0.2	3.084	-0.22
849	3.648	CIB	3.32	-0.15	3.152	-0.18
846	3.65	CIB	2.88	-0.23	3.016	-0.18
849	3.652	CIB	3.24	0.01	2.976	-0.18
846	3.653	CIB	2.77	-0.35	2.944	-0.12
659	3.654	CIB	2.67	2.976	-0.08	NA
849	3.656	CIB	3.16	0.1	2.902	-0.16
659	3.658	CIB	3.04	2.98	-0.03	NA
846	3.658	CIB	2.87	-0.24	3.058	NA
849	3.66	CIB	3.16	0.05	3.028	-0.14
659	3.661	CIB	3.06	3.07	-0.11	NA
846	3.663	CIB	3.01	-0.24	3.15	-0.07
849	3.664	CIB	3.25	-0.01	3.144	-0.25
659	3.667	CIB	3.27	3.214	-0.21	NA
846	3.668	CIB	3.13	-0.5	3.278	-0.2
849	3.668	CIB	3.41	-0.08	3.348	-0.27
659	3.669	CIB	3.33	3.418	NA	NA
849	3.672	CIB	3.6	-0.24	3.436	-0.34
659	3.674	CIB	3.62	3.436	-0.48	NA
846	3.674	CIB	3.22	-0.71	3.49	-0.41
659	3.676	CIB	3.41	3.428	-0.63	NA
849	3.676	CIB	3.6	-0.29	3.37	NA
846	3.679	CIB	3.29	-0.89	3.418	-0.45
659	3.68	CIB	3.33	3.346	NA	NA
849	3.68	CIB	3.46	-0.18	3.272	-0.56
659	3.682	CIB	3.05	3.282	-0.27	NA
846	3.683	CIB	3.23	-0.61	3.248	-0.34
849	3.684	CIB	3.34	-0.03	3.164	-0.39
846	3.686	CIB	3.16	-0.54	3.194	-0.27
659	3.687	CIB	3.04	3.172	-0.22	NA
849	3.688	CIB	3.2	0.1	3.1	-0.29
846	3.69	CIB	3.12	-0.42	3.07	-0.03
659	3.692	CIB	2.98	3.042	-0.11	NA
849	3.692	CIB	3.01	0.22	2.954	-0.18
846	3.693	CIB	2.9	-0.35	2.936	0.05
659	3.695	CIB	2.76	2.924	0.03	NA
849	3.696	CIB	3.03	0.29	2.912	-0.03
846	3.697	CIB	2.92	-0.03	2.86	0.02
659	3.698	CIB	2.95	2.914	0.1	NA
846	3.7	CIB	2.64	-0.19	2.914	0
849	3.7	CIB	3.03	0.32	2.936	0.06
846	3.704	CIB	3.03	-0.11	2.932	NA
849	3.704	CIB	3.03	0.21	3.026	0.14
659	3.705	CIB	2.93	3.018	-0.02	NA
659	3.708	CIB	3.11	3.022	0.04	NA
846	3.708	CIB	2.99	-0.16	2.98	-0.09
849	3.708	CIB	3.05	0.07	3.012	-0.09
846	3.711	CIB	2.82	-0.19	2.986	-0.13
849	3.712	CIB	3.09	-0.09	3.066	-0.12

846	3.713	CIB	2.98	-0.26	3.07	-0.23
659	3.716	CIB	3.39	3.148	-0.24	NA
846	3.716	CIB	3.07	-0.37	3.164	-0.29
849	3.716	CIB	3.21	-0.23	3.196	-0.35
659	3.719	CIB	3.17	3.184	-0.33	NA
846	3.719	CIB	3.14	-0.45	3.204	-0.37
849	3.72	CIB	3.33	-0.28	3.22	-0.34
846	3.722	CIB	3.17	-0.52	3.192	-0.37
849	3.724	CIB	3.29	-0.1	3.146	-0.35
846	3.725	CIB	3.03	-0.5	3.038	-0.34
659	3.726	CIB	2.91	3.018	-0.2	NA
846	3.727	CIB	2.79	-0.23	2.954	NA
849	3.728	CIB	3.07	0.05	2.95	-0.09
846	3.729	CIB	2.97	-0.1	2.92	-0.03
659	3.731	CIB	3.01	2.944	-0.06	NA
849	3.732	CIB	2.76	0.15	2.856	-0.09
846	3.733	CIB	2.91	-0.33	2.824	-0.02
659	3.736	CIB	2.63	2.766	-0.03	NA
849	3.736	CIB	2.81	0.11	2.88	-0.08
846	3.737	CIB	2.72	-0.03	2.888	0.04
659	3.74	CIB	3.33	2.934	0.01	NA
849	3.74	CIB	2.95	0.03	2.998	-0.03
846	3.741	CIB	2.86	-0.08	3.054	0
659	3.744	CIB	3.13	2.958	0.01	NA
849	3.744	CIB	3	0.06	2.98	0.03
846	3.745	CIB	2.85	0.04	2.98	0.04
849	3.748	CIB	3.06	0.08	2.988	0.03
846	3.749	CIB	2.86	-0.04	2.958	-0.02
849	3.752	CIB	3.17	0.03	3.03	-0.04
846	3.753	CIB	2.85	-0.23	3.004	-0.12
659	3.756	CIB	3.21	3.088	-0.11	NA
846	3.756	CIB	2.93	-0.23	3.07	-0.17
849	3.756	CIB	3.28	-0.02	3.206	-0.15
846	3.759	CIB	3.08	-0.2	3.226	-0.12
659	3.76	CIB	3.53	3.218	NA	NA
849	3.76	CIB	3.31	-0.04	3.232	-0.16
846	3.762	CIB	2.89	-0.23	3.284	-0.11
659	3.764	CIB	3.35	3.154	-0.14	NA
849	3.764	CIB	3.34	-0.05	3.05	-0.18
846	3.765	CIB	2.88	-0.25	3.15	-0.16
846	3.768	CIB	2.79	-0.17	3.018	-0.17
849	3.768	CIB	3.39	-0.16	2.976	-0.2
846	3.77	CIB	2.69	-0.22	3.084	-0.21
659	3.772	CIB	3.13	3.078	-0.2	NA
849	3.772	CIB	3.42	-0.28	3.054	-0.2
846	3.774	CIB	2.76	-0.14	3.076	-0.2
849	3.776	CIB	3.27	-0.17	2.982	-0.17
659	3.778	CIB	2.8	2.924	-0.09	NA
846	3.779	CIB	2.66	-0.08	2.868	-0.07
849	3.78	CIB	3.13	0.05	2.784	-0.04
659	3.782	CIB	2.48	2.836	0.01	NA
846	3.783	CIB	2.85	-0.09	2.916	-0.07
849	3.784	CIB	3.06	0.15	2.89	-0.1
846	3.786	CIB	3.06	-0.37	2.996	-0.04
659	3.788	CIB	3	3.058	-0.09	NA
849	3.788	CIB	3.01	0.14	3.09	-0.17
846	3.79	CIB	3.16	-0.29	3.084	-0.03
659	3.791	CIB	3.22	3.098	NA	NA
849	3.792	CIB	3.03	0.07	3.136	-0.12
659	3.793	CIB	3.07	3.128	-0.03	NA

846	3.794	CIB	3.2	-0.14	3.062	-0.09
849	3.796	CIB	3.12	-0.02	3.072	-0.09
846	3.799	CIB	2.89	-0.25	3.104	NA
849	3.8	CIB	3.08	0.05	3.04	-0.1
659	3.803	CIB	3.23	3.024	-0.05	NA
846	3.803	CIB	2.88	-0.16	3.05	-0.06
849	3.804	CIB	3.04	0.18	3.044	-0.03
846	3.808	CIB	3.02	-0.29	3.02	NA
849	3.808	CIB	3.05	0.16	3.042	-0.07
659	3.809	CIB	3.11	3.054	-0.11	NA
846	3.811	CIB	2.99	-0.34	3.078	-0.05
849	3.812	CIB	3.1	0.02	3.08	-0.21
659	3.813	CIB	3.14	3.09	-0.19	NA
846	3.816	CIB	3.06	-0.31	3.068	-0.13
849	3.816	CIB	3.16	-0.11	3.052	-0.29
659	3.818	CIB	2.88	3.058	-0.26	NA
846	3.82	CIB	3.02	-0.45	3.06	-0.24
849	3.82	CIB	3.17	-0.16	3.05	-0.31
659	3.822	CIB	3.07	3.098	-0.27	NA
846	3.824	CIB	3.11	3.078	-0.18	NA
849	3.824	CIB	3.12	-0.2	3.038	-0.33
659	3.827	CIB	2.92	3.036	-0.32	NA
846	3.828	CIB	2.97	-0.46	3.046	NA
849	3.828	CIB	3.06	-0.29	3.062	-0.38
659	3.829	CIB	3.16	3.056	-0.38	NA
849	3.832	CIB	3.2	-0.4	3.07	-0.35
846	3.833	CIB	2.89	-0.36	3.114	-0.38
659	3.835	CIB	3.04	3.068	-0.38	NA
849	3.836	CIB	3.28	-0.39	3.046	-0.37
846	3.837	CIB	2.93	-0.35	3.104	-0.3
659	3.84	CIB	3.09	3.132	-0.37	NA
849	3.84	CIB	3.18	-0.17	3.082	-0.36
846	3.841	CIB	3.18	-0.56	3.096	-0.26
659	3.843	CIB	3.03	3.086	-0.27	NA
849	3.844	CIB	3	-0.04	3.106	-0.33
846	3.846	CIB	3.04	-0.31	3.102	-0.25
846	3.846	CIB	3.28	-0.4	3.068	-0.2
659	3.847	CIB	3.16	3.03	-0.25	NA
849	3.848	CIB	2.86	-0.03	3.078	-0.22
846	3.85	CIB	2.81	3.092	-0.03	NA
659	3.852	CIB	3.28	3.036	0.01	NA
659	3.852	CIB	3.35	3	0.04	NA
849	3.852	CIB	2.88	0.04	3.092	NA
846	3.854	CIB	2.68	3.066	NA	NA
659	3.855	CIB	3.27	2.982	0.06	NA
659	3.856	CIB	3.15	2.978	0.07	NA
849	3.856	CIB	2.93	0.07	2.968	-0.06
659	3.858	CIB	2.86	2.91	-0.03	NA
846	3.858	CIB	2.63	-0.19	2.804	-0.04
849	3.86	CIB	2.98	0.02	2.788	-0.07
846	3.861	CIB	2.62	-0.05	2.808	NA
659	3.862	CIB	2.85	2.878	-0.07	NA
659	3.864	CIB	2.96	2.878	-0.08	NA
846	3.864	CIB	2.98	-0.19	2.914	-0.1
849	3.864	CIB	2.98	-0.01	2.884	-0.09
659	3.868	CIB	2.8	2.878	-0.1	NA
846	3.868	CIB	2.7	-0.07	2.838	-0.06
849	3.868	CIB	2.93	-0.11	2.792	-0.15
659	3.872	CIB	2.78	2.822	-0.15	NA
846	3.872	CIB	2.75	-0.28	2.88	-0.23
849	3.872	CIB	2.95	-0.15	2.92	-0.26

846	3.876	CIB	2.99	-0.37	3.008	NA
849	3.876	CIB	3.13	-0.25	3.062	-0.31
659	3.878	CIB	3.22	3.126	-0.35	NA
846	3.879	CIB	3.02	-0.45	3.154	-0.38
849	3.88	CIB	3.27	-0.31	3.136	-0.42
846	3.883	CIB	3.13	-0.51	3.164	-0.4
659	3.884	CIB	3.04	3.17	-0.38	NA
849	3.884	CIB	3.36	-0.31	3.144	NA
659	3.885	CIB	3.05	3.14	-0.31	NA
846	3.887	CIB	3.14	-0.31	3.172	-0.26
659	3.888	CIB	3.11	3.066	-0.25	NA
849	3.888	CIB	3.2	-0.17	3.082	-0.2
846	3.891	CIB	2.83	-0.27	3.026	-0.19
849	3.892	CIB	3.13	-0.05	3.024	-0.16
846	3.894	CIB	2.86	-0.27	2.988	-0.18
849	3.896	CIB	3.1	-0.05	2.966	-0.16
846	3.897	CIB	3.02	-0.27	2.946	-0.15
846	3.9	CIB	2.72	2.968	-0.09	NA
849	3.9	CIB	3.03	-0.01	2.95	-0.07
846	3.902	CIB	2.97	-0.03	2.956	0
849	3.904	CIB	3.01	0.03	3.004	NA
846	3.905	CIB	3.05	0.01	2.988	0.01
659	3.906	CIB	2.96	3.002	0.01	NA
846	3.908	CIB	2.95	0.01	2.982	-0.02
849	3.908	CIB	3.04	-0.01	2.986	-0.02
846	3.912	CIB	2.91	-0.1	2.988	-0.03
849	3.912	CIB	3.07	0.02	3.006	-0.04
846	3.915	CIB	2.97	-0.07	2.97	-0.11
849	3.916	CIB	3.04	-0.06	2.96	-0.11
846	3.918	CIB	2.86	-0.34	2.916	-0.24
846	3.918	CIB	2.86	2.934	-0.28	NA
846	3.92	CIB	2.85	-0.5	2.918	-0.35
849	3.92	CIB	3.06	-0.2	2.916	-0.34
659	3.921	CIB	2.96	2.926	-0.34	NA
846	3.921	CIB	2.85	-0.33	2.986	-0.32
846	3.923	CIB	2.91	-0.34	3.046	-0.35
846	3.923	CIB	3.15	-0.4	3.048	-0.36
849	3.924	CIB	3.36	-0.31	3.12	-0.37
846	3.925	CIB	2.97	-0.43	3.15	-0.4
659	3.927	CIB	3.21	3.198	-0.39	NA
846	3.927	CIB	3.06	-0.46	3.164	-0.41
849	3.928	CIB	3.39	-0.35	3.17	-0.34
659	3.929	CIB	3.19	3.106	-0.33	NA
846	3.929	CIB	3	-0.22	3.142	-0.3
846	3.931	CIB	2.89	-0.3	3.096	-0.28
849	3.932	CIB	3.24	-0.33	3.056	NA
659	3.933	CIB	3.16	3.028	-0.36	NA
659	3.934	CIB	2.99	3.07	-0.31	NA
846	3.935	CIB	2.86	-0.44	3.01	-0.3
849	3.936	CIB	3.1	-0.15	2.926	-0.35
659	3.938	CIB	2.94	2.93	-0.28	NA
846	3.938	CIB	2.74	-0.46	2.904	-0.23
849	3.94	CIB	3.01	-0.06	2.83	-0.25
846	3.941	CIB	2.73	-0.23	2.758	NA
659	3.942	CIB	2.73	2.796	-0.15	NA
659	3.943	CIB	2.58	2.816	-0.32	NA
659	3.944	CIB	2.93	2.866	-0.26	NA
846	3.944	CIB	3.11	-0.41	2.95	NA
849	3.944	CIB	2.98	-0.11	3.04	-0.28
659	3.946	CIB	3.15	3.046	-0.23	NA

846	3.947	CIB	3.03	-0.31	3.044	-0.14
849	3.948	CIB	2.96	-0.09	3.082	-0.15
846	3.949	CIB	3.1	-0.04	3.058	-0.18
659	3.95	CIB	3.17	3.056	-0.12	NA
846	3.952	CIB	3.03	-0.26	3.054	-0.13
849	3.952	CIB	3.02	-0.09	2.99	-0.22
659	3.953	CIB	2.95	2.934	NA	NA
846	3.954	CIB	2.78	-0.31	2.934	-0.2
659	3.956	CIB	2.89	2.906	-0.31	NA
659	3.956	CIB	3.03	2.94	-0.2	NA
846	3.956	CIB	2.88	2.986	-0.08	NA
849	3.956	CIB	3.12	-0.08	3.018	-0.12
659	3.958	CIB	3.01	3.042	-0.07	NA
846	3.959	CIB	3.05	-0.16	3.07	-0.1
849	3.96	CIB	3.15	0.04	3.076	-0.11
846	3.961	CIB	3.02	-0.21	3.078	-0.1
659	3.962	CIB	3.15	3.096	-0.04	NA
846	3.964	CIB	3.02	-0.07	3.14	-0.07
849	3.964	CIB	3.14	0.07	3.144	-0.06
659	3.966	CIB	3.37	3.158	NA	NA
846	3.966	CIB	3.04	-0.19	3.186	-0.02
659	3.967	CIB	3.22	3.216	-0.06	NA
849	3.968	CIB	3.16	0.07	3.164	NA
659	3.97	CIB	3.29	3.192	0.08	NA
846	3.97	CIB	3.11	3.152	NA	NA
849	3.972	CIB	3.18	0.08	3.15	0.06
846	3.973	CIB	3.02	3.146	NA	NA
849	3.976	CIB	3.15	0.04	3.172	NA
659	3.977	CIB	3.27	3.15	-0.12	NA
846	3.977	CIB	3.24	3.174	-0.07	NA
846	3.98	CIB	3.07	-0.27	3.22	-0.13
849	3.98	CIB	3.14	0.02	3.23	NA
846	3.982	CIB	3.38	3.228	-0.12	NA
659	3.983	CIB	3.32	3.244	-0.04	NA
846	3.984	CIB	3.23	-0.12	3.248	-0.07
849	3.984	CIB	3.15	-0.01	3.236	NA
846	3.987	CIB	3.16	3.21	-0.07	NA
846	3.988	CIB	3.32	3.202	-0.06	NA
849	3.988	CIB	3.19	-0.08	3.25	-0.2
846	3.99	CIB	3.19	-0.09	3.266	-0.19
846	3.992	CIB	3.39	-0.42	3.334	NA
849	3.992	CIB	3.24	-0.17	3.406	-0.23
846	3.994	CIB	3.66	3.426	-0.27	NA
846	3.996	CIB	3.55	3.424	-0.2	NA
849	3.996	CIB	3.29	-0.22	3.474	-0.22
846	3.999	CIB	3.38	3.404	-0.23	NA
659	4	CIB	3.49	3.382	NA	NA
849	4	CIB	3.31	-0.24	3.306	-0.3
846	4.001	CIB	3.44	3.288	NA	NA
846	4.003	CIB	2.91	-0.36	3.25	-0.27
659	4.004	CIB	3.29	3.232	-0.28	NA
849	4.004	CIB	3.3	-0.2	3.22	NA
846	4.005	CIB	3.22	3.264	-0.2	NA
846	4.007	CIB	3.38	3.254	-0.19	NA
659	4.008	CIB	3.13	3.224	-0.03	NA
849	4.008	CIB	3.24	-0.18	3.196	0.03
846	4.009	CIB	3.15	0.13	3.152	-0.03
846	4.011	CIB	3.08	0.13	3.11	-0.05
849	4.012	CIB	3.16	-0.2	3.092	-0.02
846	4.013	CIB	2.92	-0.12	3.028	-0.07
659	4.014	CIB	3.15	3.036	-0.13	NA

846	4.016	CIB	2.83	-0.09	3.038	-0.1
849	4.016	CIB	3.12	-0.09	3.074	-0.09
659	4.02	CIB	3.17	3.074	-0.07	NA
846	4.02	CIB	3.1	3.11	-0.07	NA
849	4.02	CIB	3.15	-0.04	3.11	-0.04
659	4.021	CIB	3.01	3.112	-0.05	NA
846	4.023	CIB	3.12	-0.04	3.08	-0.11
849	4.024	CIB	3.18	-0.06	3.094	-0.12
846	4.027	CIB	2.94	-0.31	3.102	NA
849	4.028	CIB	3.22	-0.06	2.964	-0.14
846	4.03	CIB	3.05	2.984	-0.14	NA
659	4.031	CIB	2.43	3.05	-0.05	NA
849	4.032	CIB	3.28	-0.04	3.05	-0.06
846	4.034	CIB	3.27	2.95	NA	NA
849	4.036	CIB	3.22	-0.07	3.146	NA
659	4.037	CIB	2.55	3.136	-0.1	NA
846	4.037	CIB	3.41	3.06	0.14	NA
849	4.04	CIB	3.23	-0.13	3.084	0.24
959	4.04	CIB	2.89	0.61	3.248	NA
846	4.041	CIB	3.34	3.236	NA	NA
659	4.043	CIB	3.37	3.246	0.22	NA
846	4.044	CIB	3.35	3.31	-0.18	NA
849	4.044	CIB	3.28	-0.18	3.3	-0.13
659	4.046	CIB	3.21	3.276	-0.12	NA
846	4.048	CIB	3.29	-0.08	3.262	NA
849	4.048	CIB	3.25	-0.1	3.276	-0.09
659	4.049	CIB	3.28	3.268	-0.08	NA
846	4.051	CIB	3.35	3.214	-0.08	NA
849	4.052	CIB	3.17	-0.05	3.154	0.33
659	4.053	CIB	3.02	3.12	NA	NA
959	4.053	CIB	2.95	0.71	3.076	NA
659	4.055	CIB	3.11	3.064	0.38	NA
846	4.055	CIB	3.13	3.086	0.2	NA
849	4.056	CIB	3.11	0.05	3.118	0.03
846	4.058	CIB	3.13	-0.15	3.138	NA
849	4.06	CIB	3.11	0.2	3.108	-0.03
659	4.062	CIB	3.21	3.108	0.02	NA
846	4.062	CIB	2.98	-0.22	3.09	0.07
849	4.064	CIB	3.11	0.23	3.114	0.01
846	4.065	CIB	3.04	3.098	0.03	NA
659	4.068	CIB	3.23	3.088	0.16	NA
849	4.068	CIB	3.13	0.09	3.078	0.09
846	4.069	CIB	2.93	3.098	0.08	NA
846	4.072	CIB	3.06	3.062	-0.02	NA
849	4.072	CIB	3.14	0.06	3.074	-0.05
846	4.076	CIB	3.05	-0.22	3.066	0.13
849	4.076	CIB	3.19	0.01	3.038	NA
959	4.076	CIB	2.89	0.65	3.054	0.1
846	4.079	CIB	2.92	3.07	0.2	NA
849	4.08	CIB	3.22	-0.06	3.032	0.3
659	4.082	CIB	3.13	3.102	-0.09	NA
846	4.082	CIB	3	3.134	NA	NA
849	4.084	CIB	3.24	-0.11	3.092	-0.11
659	4.085	CIB	3.08	3.114	-0.11	NA
846	4.086	CIB	3.01	3.112	0.15	NA
849	4.088	CIB	3.24	-0.1	3.09	0.28
959	4.088	CIB	2.99	0.65	3.114	NA
846	4.089	CIB	3.13	3.148	0.12	NA
659	4.091	CIB	3.2	3.14	0.23	NA
849	4.092	CIB	3.18	-0.19	3.184	-0.23
846	4.093	CIB	3.2	3.132	NA	NA

849	4.096	CIB	3.21	-0.27	3.112	NA
659	4.097	CIB	2.87	3.092	-0.27	NA
846	4.098	CIB	3.1	3.092	-0.22	NA
659	4.1	CIB	3.08	3.014	0.26	NA
849	4.1	CIB	3.2	-0.17	3.006	NA
959	4.101	CIB	2.82	0.68	3.022	0.12
846	4.102	CIB	2.83	3.018	NA	NA
849	4.104	CIB	3.18	-0.15	2.924	0.07
659	4.106	CIB	3.06	2.994	-0.22	NA
846	4.107	CIB	2.73	-0.31	3.006	NA
849	4.108	CIB	3.17	-0.19	3	-0.23
846	4.111	CIB	2.89	2.936	0.03	NA
849	4.112	CIB	3.15	-0.19	2.942	0.14
959	4.112	CIB	2.74	0.81	2.892	0.31
659	4.113	CIB	2.76	2.938	0.13	NA
846	4.114	CIB	2.92	2.9	0.14	NA
849	4.116	CIB	3.12	-0.23	2.912	0.1
846	4.117	CIB	2.96	-0.15	2.986	NA
959	4.117	CIB	2.8	0.68	3.008	NA
659	4.12	CIB	3.13	3.002	0.11	NA
846	4.12	CIB	3.03	3.014	0.16	NA
849	4.12	CIB	3.09	-0.2	3.024	-0.1
846	4.122	CIB	3.02	0.01	3.014	NA
659	4.123	CIB	2.85	3.038	-0.09	NA
846	4.124	CIB	3.08	2.894	-0.04	NA
849	4.124	CIB	3.15	-0.08	2.84	-0.08
659	4.126	CIB	2.37	2.828	NA	NA
846	4.126	CIB	2.75	-0.08	2.856	-0.06
846	4.128	CIB	2.79	2.836	-0.01	NA
849	4.128	CIB	3.22	-0.02	2.94	0.21
846	4.13	CIB	3.05	0.07	2.948	0.31
959	4.13	CIB	2.89	0.88	2.988	NA
659	4.131	CIB	2.79	2.96	0.32	NA
846	4.132	CIB	2.99	2.87	0.45	NA
849	4.132	CIB	3.08	0.01	2.868	0.01
659	4.133	CIB	2.6	2.898	NA	NA
659	4.134	CIB	2.88	2.874	0.02	NA
846	4.135	CIB	2.94	2.896	0.03	NA
849	4.136	CIB	2.87	0.03	2.96	NA
659	4.137	CIB	3.19	2.962	NA	NA
846	4.137	CIB	2.92	2.996	-0.27	NA
659	4.138	CIB	2.89	3.002	-0.29	NA
846	4.14	CIB	3.11	-0.56	2.972	NA
849	4.14	CIB	2.9	-0.02	2.97	-0.01
659	4.141	CIB	3.04	3.022	NA	NA
959	4.142	CIB	2.91	0.56	2.976	0.27
846	4.143	CIB	3.15	3.008	0.26	NA
659	4.144	CIB	2.88	3.032	NA	NA
849	4.144	CIB	3.06	-0.05	3.028	-0.05
846	4.146	CIB	3.16	3.06	-0.06	NA
659	4.148	CIB	2.89	3.116	NA	NA
849	4.148	CIB	3.31	-0.07	3.12	-0.19
659	4.149	CIB	3.16	3.164	-0.16	NA
846	4.149	CIB	3.08	-0.31	3.134	-0.35
849	4.152	CIB	3.38	-0.09	3.054	-0.45
846	4.153	CIB	2.74	-0.94	3.112	-0.06
659	4.154	CIB	2.91	3.136	0.02	NA
959	4.154	CIB	3.45	1.12	3.036	0.05
849	4.156	CIB	3.2	-0.03	3.04	0.55
659	4.157	CIB	2.88	3.116	NA	NA

846	4.157	CIB	2.76	3.05	-0.02	NA
659	4.159	CIB	3.29	3.07	-0.01	NA
849	4.16	CIB	3.12	-0.01	3.05	NA
659	4.161	CIB	3.3	3.132	NA	NA
846	4.162	CIB	2.78	3.108	-0.03	NA
659	4.163	CIB	3.17	3.058	-0.04	NA
849	4.164	CIB	3.17	-0.04	2.968	NA
659	4.167	CIB	2.87	3.054	-0.05	NA
846	4.167	CIB	2.85	3.026	NA	NA
849	4.168	CIB	3.21	-0.05	2.976	-0.05
659	4.169	CIB	3.03	3.02	-0.02	NA
846	4.172	CIB	2.92	3.05	NA	NA
849	4.172	CIB	3.09	0.02	3.022	0.02
659	4.175	CIB	3	2.972	NA	NA
659	4.175	CIB	3.07	2.992	0.03	NA
846	4.175	CIB	2.78	2.956	0.33	NA
849	4.176	CIB	3.02	0.04	2.954	0.09
959	4.177	CIB	2.91	0.61	2.912	NA
846	4.179	CIB	2.99	-0.39	2.974	0.06
659	4.18	CIB	2.86	2.934	-0.03	NA
849	4.18	CIB	3.09	-0.01	2.932	-0.25
846	4.181	CIB	2.82	-0.34	2.952	-0.12
846	4.183	CIB	2.9	2.952	-0.13	NA
849	4.184	CIB	3.09	-0.01	2.938	-0.34
846	4.185	CIB	2.86	-0.17	2.992	-0.24
846	4.187	CIB	3.02	-0.84	2.99	NA
849	4.188	CIB	3.09	0.05	2.964	-0.03
659	4.189	CIB	2.89	2.97	-0.08	NA
959	4.189	CIB	2.96	0.85	2.984	0.16
846	4.19	CIB	2.89	-0.36	2.956	0.2
849	4.192	CIB	3.09	0.1	2.956	NA
659	4.193	CIB	2.95	2.972	-0.08	NA
846	4.193	CIB	2.89	2.968	0.06	NA
849	4.196	CIB	3.04	0.01	2.946	-0.15
659	4.197	CIB	2.87	2.97	-0.12	NA
846	4.198	CIB	2.98	-0.3	2.962	0.11
849	4.2	CIB	3.07	-0.08	2.952	0.14
959	4.2	CIB	2.85	0.79	2.982	NA
659	4.202	CIB	2.99	3.004	0.18	NA
659	4.204	CIB	3.02	2.964	0.31	NA
849	4.204	CIB	3.09	-0.18	2.874	-0.28
659	4.206	CIB	2.87	2.834	NA	NA
846	4.206	CIB	2.4	-0.37	2.846	0.01
846	4.206	CIB	2.79	2.832	-0.01	NA
959	4.206	CIB	3.08	0.59	2.872	NA
849	4.208	CIB	3.02	-0.26	3	0.01
846	4.21	CIB	3.07	3.02	-0.16	NA
849	4.212	CIB	3.04	-0.29	3.054	-0.35
846	4.213	CIB	2.89	-0.67	3.07	-0.35
846	4.216	CIB	3.25	-0.17	3.054	NA
849	4.216	CIB	3.1	-0.25	3.01	-0.1
659	4.217	CIB	2.99	3.014	0.09	NA
959	4.217	CIB	2.82	0.7	2.928	0.08
659	4.218	CIB	2.91	2.924	0.12	NA
846	4.219	CIB	2.82	-0.22	2.896	NA
849	4.22	CIB	3.08	-0.13	2.896	-0.18
846	4.221	CIB	2.85	2.88	NA	NA
659	4.222	CIB	2.82	2.926	-0.13	NA
846	4.224	CIB	2.83	2.88	NA	NA
849	4.224	CIB	3.05	-0.13	2.888	NA

659	4.226	CIB	2.85	2.9	0.34	NA
846	4.226	CIB	2.89	2.972	NA	NA
959	4.227	CIB	2.88	0.81	2.968	0.29
659	4.228	CIB	3.19	2.986	0.16	NA
849	4.228	CIB	3.03	-0.23	3.012	NA
846	4.229	CIB	2.94	-0.11	3.088	-0.17
659	4.232	CIB	3.02	3.052	-0.21	NA
659	4.232	CIB	3.26	3.078	-0.27	NA
849	4.232	CIB	3.01	-0.28	3.092	-0.35
846	4.233	CIB	3.16	-0.41	3.106	-0.29
659	4.235	CIB	3.01	3.082	NA	NA
849	4.236	CIB	3.09	-0.17	3.042	0.06
846	4.237	CIB	3.14	3.028	0.29	NA
959	4.237	CIB	2.81	0.75	3.054	0.17
659	4.238	CIB	3.09	3.042	0.34	NA
849	4.24	CIB	3.14	-0.08	3.038	0.18
846	4.241	CIB	3.03	3.044	-0.11	NA
849	4.244	CIB	3.12	-0.14	2.998	-0.41
659	4.245	CIB	2.84	2.942	-0.49	NA
846	4.245	CIB	2.86	-1.02	2.91	NA
846	4.247	CIB	2.86	-0.31	2.91	-0.52
659	4.248	CIB	2.87	2.894	-0.14	NA
849	4.248	CIB	3.12	-0.23	2.892	0.15
959	4.248	CIB	2.76	0.99	2.936	0.11
659	4.249	CIB	2.85	2.92	NA	NA
846	4.249	CIB	3.08	-0.44	2.904	0.02
659	4.251	CIB	2.79	2.984	-0.4	NA
846	4.251	CIB	3.04	-0.49	3.076	NA
849	4.252	CIB	3.16	-0.27	2.982	-0.38
846	4.254	CIB	3.31	3.092	NA	NA
659	4.256	CIB	2.61	3.136	-0.28	NA
846	4.256	CIB	3.34	3.13	-0.29	NA
849	4.256	CIB	3.26	-0.29	3.084	NA
659	4.257	CIB	3.13	3.082	0.28	NA
659	4.258	CIB	3.08	3.024	0.09	NA
959	4.258	CIB	2.6	0.85	3.036	0.1
846	4.259	CIB	3.05	-0.28	3.042	NA
849	4.26	CIB	3.32	-0.27	3.038	NA
846	4.261	CIB	3.16	3.15	-0.28	NA
659	4.263	CIB	3.06	3.202	-0.26	NA
846	4.263	CIB	3.16	3.152	-0.24	NA
849	4.264	CIB	3.31	-0.24	3.12	NA
846	4.266	CIB	3.07	3.138	NA	NA
659	4.267	CIB	3	3.134	-0.16	NA
846	4.267	CIB	3.15	3.062	0.35	NA
849	4.268	CIB	3.14	-0.08	3.018	NA
959	4.269	CIB	2.95	0.78	3.008	NA
846	4.27	CIB	2.85	2.994	0.23	NA
659	4.271	CIB	2.95	2.928	0.19	NA
849	4.272	CIB	3.08	-0.02	2.902	-0.11
846	4.273	CIB	2.81	-0.19	2.922	NA
846	4.273	CIB	2.82	2.952	-0.08	NA
659	4.274	CIB	2.95	2.874	-0.12	NA
849	4.276	CIB	3.1	-0.04	2.852	0.32
846	4.278	CIB	2.69	2.81	0.46	NA
959	4.279	CIB	2.7	0.67	2.848	0.35
588	4.2795	CIB	2.61	0.75	2.862	0.48
849	4.28	CIB	3.14	0.02	2.94	0.37
659	4.281	CIB	3.17	3.022	0.27	NA
849	4.284	CIB	3.08	0.03	3.102	-0.04

659	4.285	CIB	3.11	3.124	-0.07	NA
846	4.285	CIB	3.01	-0.17	3.068	-0.04
846	4.288	CIB	3.25	3.034	0.11	NA
849	4.288	CIB	2.89	0.01	3.006	NA
959	4.29	CIB	2.91	0.5	3.01	0.09
659	4.291	CIB	2.97	2.916	0.07	NA
846	4.291	CIB	3.03	-0.24	2.94	0.09
849	4.292	CIB	2.78	0.02	2.96	0.12
846	4.294	CIB	3.01	2.948	0.07	NA
959	4.294	CIB	3.01	0.57	2.928	0.18
849	4.296	CIB	2.91	-0.06	2.938	0.26
846	4.298	CIB	2.93	2.926	0.14	NA
659	4.3	CIB	2.83	2.896	-0.08	NA
849	4.3	CIB	2.95	-0.1	2.914	-0.13
846	4.302	CIB	2.86	2.892	NA	NA
849	4.304	CIB	3	-0.16	2.952	NA
659	4.305	CIB	2.82	2.992	-0.16	NA
659	4.306	CIB	3.13	3.038	-0.19	NA
846	4.307	CIB	3.15	3.058	-0.21	NA
849	4.308	CIB	3.09	-0.21	3.104	-0.18
846	4.311	CIB	3.1	3.05	NA	NA
849	4.312	CIB	3.05	-0.15	2.942	NA
846	4.315	CIB	2.86	2.902	-0.12	NA
659	4.316	CIB	2.61	2.868	0.13	NA
849	4.316	CIB	2.89	-0.08	2.816	0.27
959	4.316	CIB	2.93	0.61	2.784	0.05
659	4.319	CIB	2.79	2.838	0.01	NA
846	4.319	CIB	2.7	-0.38	2.808	-0.03
849	4.32	CIB	2.88	-0.13	2.814	-0.24
846	4.321	CIB	2.74	-0.22	2.774	-0.25
659	4.322	CIB	2.96	2.83	-0.2	NA
846	4.323	CIB	2.59	-0.26	2.814	-0.36
849	4.324	CIB	2.98	-0.2	2.8	-0.16
846	4.325	CIB	2.8	-0.76	2.854	NA
959	4.326	CIB	2.67	0.57	2.964	-0.13
846	4.327	CIB	3.23	2.958	-0.12	NA
659	4.328	CIB	3.14	2.96	-0.09	NA
849	4.328	CIB	2.95	-0.16	2.94	-0.42
846	4.329	CIB	2.81	-0.67	2.888	NA
846	4.331	CIB	2.57	-0.42	2.85	-0.33
659	4.332	CIB	2.97	2.81	-0.31	NA
849	4.332	CIB	2.95	-0.07	2.818	-0.24
846	4.333	CIB	2.75	-0.08	2.834	-0.17
846	4.335	CIB	2.85	-0.37	2.846	-0.13
659	4.336	CIB	2.65	2.824	0.04	NA
849	4.336	CIB	3.03	-0.01	2.858	-0.03
959	4.336	CIB	2.84	0.6	2.804	0.08
846	4.337	CIB	2.92	-0.35	2.87	0.05
846	4.338	CIB	2.58	2.874	0.07	NA
849	4.34	CIB	2.98	-0.03	2.912	-0.17
846	4.341	CIB	3.05	2.898	-0.09	NA
849	4.344	CIB	3.03	-0.14	2.936	NA
846	4.345	CIB	2.85	2.912	0.16	NA
659	4.346	CIB	2.77	2.942	0.05	NA
959	4.347	CIB	2.86	0.46	2.956	0.01
846	4.348	CIB	3.2	-0.18	2.986	NA
849	4.348	CIB	3.1	-0.26	3.038	-0.02
659	4.35	CIB	3	3.086	-0.19	NA
846	4.351	CIB	3.03	-0.09	3.03	-0.2
849	4.352	CIB	3.1	-0.24	2.996	-0.15

659	4.353	CIB	2.92	3.07	NA	NA
846	4.355	CIB	2.93	-0.13	3.142	-0.19
659	4.356	CIB	3.37	3.136	-0.13	NA
659	4.356	CIB	3.39	3.15	-0.16	NA
849	4.356	CIB	3.07	-0.13	3.162	-0.17
846	4.358	CIB	2.99	-0.21	3.094	-0.17
659	4.36	CIB	2.99	3.028	-0.12	NA
849	4.36	CIB	3.03	-0.16	2.956	0.11
846	4.361	CIB	3.06	0.01	2.966	0.14
588	4.3628	CIB	2.71	0.81	2.97	0.04
846	4.364	CIB	3.04	-0.12	2.946	0.09
849	4.364	CIB	3.01	-0.36	2.914	0
846	4.367	CIB	2.91	2.94	-0.27	NA
849	4.368	CIB	2.9	-0.34	2.884	-0.35
846	4.369	CIB	2.84	2.866	-0.34	NA
659	4.372	CIB	2.76	2.842	-0.34	NA
846	4.372	CIB	2.92	2.752	-0.33	NA
849	4.372	CIB	2.79	-0.33	2.82	NA
659	4.374	CIB	2.45	2.804	-0.3	NA
846	4.375	CIB	3.18	2.848	NA	NA
849	4.376	CIB	2.68	-0.27	2.89	-0.19
659	4.377	CIB	3.14	3.016	NA	NA
846	4.377	CIB	3	-0.11	2.98	-0.19
659	4.38	CIB	3.08	2.996	-0.2	NA
846	4.38	CIB	3	-0.18	3.004	-0.29
849	4.38	CIB	2.76	-0.3	3.026	-0.34
846	4.383	CIB	3.18	-0.55	3.006	-0.34
659	4.384	CIB	3.11	3.008	-0.4	NA
849	4.384	CIB	2.98	-0.34	3.098	-0.26
846	4.385	CIB	3.01	3.086	-0.15	NA
846	4.388	CIB	3.21	0.11	3.068	NA
849	4.388	CIB	3.12	-0.21	3.068	-0.23
659	4.39	CIB	3.02	3.094	-0.19	NA
846	4.39	CIB	2.98	-0.59	3.028	-0.28
849	4.392	CIB	3.14	-0.05	2.976	-0.31
659	4.393	CIB	2.88	2.98	NA	NA
846	4.393	CIB	2.86	-0.28	2.978	-0.11
659	4.396	CIB	3.04	2.972	-0.09	NA
846	4.396	CIB	2.97	0	2.974	NA
849	4.396	CIB	3.11	0.01	3.04	-0.23
659	4.398	CIB	2.89	3.028	NA	NA
846	4.398	CIB	3.19	-0.69	3.078	-0.34
659	4.4	CIB	2.98	3.072	-0.36	NA
659	4.4	CIB	3.22	3.11	NA	NA
849	4.4	CIB	3.08	-0.02	3.014	-0.02
846	4.401	CIB	3.08	3.014	NA	NA
659	4.404	CIB	2.71	2.992	-0.01	NA
846	4.404	CIB	2.98	2.942	0.03	NA
849	4.404	CIB	3.11	0.01	2.956	0.04
846	4.406	CIB	2.83	0.04	2.992	-0.01
849	4.408	CIB	3.15	0.06	3.004	NA
846	4.409	CIB	2.89	-0.16	2.998	-0.01
846	4.412	CIB	3.04	3.02	-0.03	NA
849	4.412	CIB	3.08	0.01	2.93	-0.34
659	4.413	CIB	2.94	2.952	-0.29	NA
846	4.415	CIB	2.7	-0.86	2.934	-0.23
959	4.415	CIB	3	-0.02	2.908	-0.29
849	4.416	CIB	2.95	-0.05	2.938	NA
846	4.418	CIB	2.95	-0.21	2.986	-0.08
659	4.419	CIB	3.09	3.04	-0.15	NA

849	4.42	CIB	2.94	-0.03	3.03	-0.21
846	4.421	CIB	3.27	-0.3	3.08	-0.2
846	4.424	CIB	2.9	-0.28	3.038	-0.09
659	4.425	CIB	3.2	3.05	-0.12	NA
959	4.425	CIB	2.88	0.24	2.98	-0.06
846	4.428	CIB	3	-0.13	2.928	-0.05
659	4.431	CIB	2.92	2.874	-0.09	NA
846	4.431	CIB	2.64	-0.26	2.872	-0.02
846	4.434	CIB	2.93	-0.22	2.848	-0.05
959	4.435	CIB	2.87	0.53	2.836	NA
846	4.438	CIB	2.88	-0.25	2.88	-0.04
659	4.439	CIB	2.86	2.824	-0.07	NA
959	4.44	CIB	2.86	-0.2	2.82	-0.35
846	4.441	CIB	2.65	-0.35	2.868	-0.39
846	4.444	CIB	2.85	-0.61	2.922	NA
846	4.447	CIB	3.12	2.95	-0.37	NA
659	4.449	CIB	3.13	2.924	-0.59	NA
846	4.45	CIB	3	-0.15	2.944	-0.58
846	4.453	CIB	2.52	-1.01	2.882	-0.56
659	4.454	CIB	2.95	2.77	-0.25	NA
846	4.457	CIB	2.81	-0.53	2.784	-0.28
588	4.4578	CIB	2.57	0.7	2.906	0.09
659	4.461	CIB	3.07	2.892	0	NA
659	4.461	CIB	3.13	2.936	0.37	NA
846	4.461	CIB	2.88	-0.17	2.982	0.12
959	4.461	CIB	3.03	0.57	3.084	NA
846	4.464	CIB	2.8	-0.05	3.022	0.02
659	4.466	CIB	3.58	3.02	0.08	NA
846	4.467	CIB	2.82	-0.28	2.948	-0.2
659	4.47	CIB	2.87	3.008	-0.13	NA
846	4.471	CIB	2.67	-0.26	2.874	NA
959	4.471	CIB	3.1	0.14	2.848	-0.12
659	4.473	CIB	2.91	2.898	NA	NA
846	4.474	CIB	2.69	-0.25	2.928	-0.07
659	4.476	CIB	3.12	2.898	-0.18	NA
846	4.478	CIB	2.82	-0.1	2.884	-0.31
659	4.48	CIB	2.95	2.96	-0.03	NA
846	4.481	CIB	2.84	-0.59	2.864	-0.13
959	4.482	CIB	3.07	0.6	2.904	-0.14
846	4.485	CIB	2.64	-0.42	2.894	-0.11
659	4.487	CIB	3.02	2.946	0.06	NA
846	4.489	CIB	2.9	-0.01	2.9	-0.22
659	4.492	CIB	3.1	2.952	0.28	NA
846	4.492	CIB	2.84	2.93	NA	NA
959	4.492	CIB	2.9	0.57	2.926	-0.08
846	4.494	CIB	2.91	2.87	0.15	NA
846	4.496	CIB	2.88	-0.73	2.948	NA
959	4.497	CIB	2.82	0.6	2.99	-0.15
659	4.498	CIB	3.23	2.994	-0.25	NA
846	4.498	CIB	3.11	-0.33	3.07	-0.08
846	4.5	CIB	2.93	-0.52	3.042	-0.36
659	4.502	CIB	3.26	3.024	-0.16	NA
846	4.502	CIB	2.68	-0.22	2.99	-0.2
959	4.503	CIB	3.14	0.43	2.994	-0.17
846	4.504	CIB	2.94	-0.48	2.886	-0.3
846	4.506	CIB	2.95	-0.4	2.982	-0.32
846	4.509	CIB	2.72	-0.81	2.938	-0.56
846	4.511	CIB	3.16	3.002	-0.61	NA
659	4.514	CIB	2.92	3.036	-0.81	NA
846	4.514	CIB	3.26	3.154	-0.23	NA

846	4.515	CIB	3.12	3.104	0.16	NA
846	4.517	CIB	3.31	-0.23	3.15	NA
959	4.518	CIB	2.91	0.55	3.124	0.02
846	4.519	CIB	3.15	3.082	-0.16	NA
846	4.521	CIB	3.13	-0.25	2.948	-0.14
846	4.523	CIB	2.91	-0.72	2.94	-0.51
659	4.524	CIB	2.64	2.908	-0.48	NA
846	4.526	CIB	2.87	-0.57	2.914	-0.36
846	4.528	CIB	2.99	-0.37	2.89	-0.3
959	4.528	CIB	3.16	0.21	2.918	-0.35
846	4.529	CIB	2.79	-0.48	2.918	-0.33
846	4.53	CIB	2.78	-0.53	2.912	-0.34
846	4.531	CIB	2.87	-0.49	2.896	-0.4
846	4.532	CIB	2.96	-0.43	2.924	-0.37
849	4.532	CIB	3.08	-0.06	2.954	-0.33
846	4.533	CIB	2.93	-0.36	2.996	-0.24
846	4.535	CIB	2.93	-0.29	2.99	-0.22
849	4.536	CIB	3.08	-0.05	3.028	-0.26
846	4.537	CIB	2.93	-0.33	3.054	-0.01
659	4.539	CIB	3.27	3.056	-0.02	NA
959	4.539	CIB	3.06	0.64	3.064	-0.02
846	4.54	CIB	2.94	-0.33	3.1	-0.02
849	4.54	CIB	3.12	-0.04	3.022	-0.13
846	4.541	CIB	3.11	-0.33	3.048	-0.29
846	4.543	CIB	2.88	-0.61	3.056	-0.3
849	4.544	CIB	3.19	-0.14	3.024	-0.4
846	4.545	CIB	2.98	-0.39	3.048	-0.38
846	4.547	CIB	2.96	-0.51	3.082	-0.36
849	4.548	CIB	3.23	-0.23	3.036	-0.39
846	4.549	CIB	3.05	-0.51	3.066	-0.39
846	4.551	CIB	2.96	-0.3	3.126	-0.31
659	4.552	CIB	3.13	3.138	-0.29	NA
849	4.552	CIB	3.26	-0.19	3.168	-0.2
846	4.553	CIB	3.29	-0.17	3.228	-0.15
846	4.555	CIB	3.2	-0.13	3.208	NA
849	4.556	CIB	3.26	-0.09	3.242	-0.13
659	4.557	CIB	3.03	3.198	-0.22	NA
846	4.557	CIB	3.43	3.22	-0.35	NA
846	4.559	CIB	3.07	-0.43	3.216	-0.34
846	4.559	CIB	3.31	-0.52	3.262	NA
849	4.56	CIB	3.24	-0.06	3.18	NA
846	4.561	CIB	3.26	3.196	-0.33	NA
659	4.563	CIB	3.02	3.174	-0.18	NA
846	4.563	CIB	3.15	-0.42	3.144	-0.29
849	4.564	CIB	3.2	-0.07	3.068	NA
846	4.565	CIB	3.09	-0.39	3.058	-0.36
659	4.568	CIB	2.88	3.058	-0.26	NA
846	4.568	CIB	2.97	-0.54	3.032	-0.33
849	4.568	CIB	3.15	-0.03	3.028	-0.31
846	4.57	CIB	3.07	-0.35	3.084	NA
659	4.571	CIB	3.07	3.122	-0.14	NA
846	4.571	CIB	3.16	3.11	-0.32	NA
849	4.572	CIB	3.16	-0.05	3.106	-0.43
846	4.573	CIB	3.09	-0.56	3.126	-0.35
846	4.575	CIB	3.05	-0.69	3.076	-0.14
849	4.576	CIB	3.17	-0.09	3.068	-0.08
959	4.576	CIB	2.91	0.69	3.042	0.04
959	4.576	CIB	3.12	0.25	3.028	0.01
659	4.578	CIB	2.96	3.048	0.02	NA
846	4.578	CIB	2.98	-0.82	3.076	-0.38

849	4.58	CIB	3.27	-0.04	3.038	-0.24
846	4.581	CIB	3.05	-0.89	3.032	NA
959	4.581	CIB	2.93	0.78	3.034	-0.22
659	4.583	CIB	2.93	3.034	-0.21	NA
846	4.583	CIB	2.99	-0.71	2.998	-0.15
849	4.584	CIB	3.27	-0.02	2.966	-0.22
846	4.585	CIB	2.87	-0.64	2.996	-0.29
959	4.586	CIB	2.77	0.51	3.024	-0.17
846	4.587	CIB	3.08	-0.61	3.004	-0.21
849	4.588	CIB	3.13	-0.11	3.03	-0.07
659	4.589	CIB	3.17	3.09	-0.44	NA
846	4.589	CIB	3	3.09	-0.62	NA
846	4.591	CIB	3.07	-0.61	3.088	-0.66
846	4.592	CIB	3.08	-1.13	3.1	-0.66
849	4.592	CIB	3.12	-0.25	3.114	NA
846	4.594	CIB	3.23	-0.66	3.158	-0.69
659	4.595	CIB	3.07	3.176	-0.5	NA
846	4.595	CIB	3.29	-0.72	3.196	-0.4
849	4.596	CIB	3.17	-0.36	3.16	-0.45
959	4.596	CIB	3.22	0.16	3.246	NA
846	4.597	CIB	3.05	-0.89	3.198	-0.42
846	4.598	CIB	3.5	3.218	-0.42	NA
846	4.6	CIB	3.05	-0.57	3.172	-0.61
849	4.6	CIB	3.27	-0.36	3.2	-0.49
659	4.601	CIB	2.99	3.098	-0.47	NA
846	4.602	CIB	3.19	-0.53	3.158	-0.42
846	4.604	CIB	2.99	-0.42	3.106	-0.43
849	4.604	CIB	3.35	-0.35	3.066	-0.48
659	4.606	CIB	3.01	3.046	-0.44	NA
846	4.606	CIB	2.79	-0.62	3.1	-0.25
846	4.607	CIB	3.09	-0.38	3.096	-0.22
959	4.607	CIB	3.26	0.36	3.132	NA
849	4.608	CIB	3.33	-0.24	3.18	-0.17
846	4.609	CIB	3.19	3.14	-0.1	NA
846	4.611	CIB	3.03	-0.42	3.146	-0.26
659	4.612	CIB	2.89	3.154	-0.27	NA
849	4.612	CIB	3.29	-0.12	3.12	-0.31
846	4.613	CIB	3.37	3.16	-0.3	NA
846	4.614	CIB	3.02	-0.39	3.226	-0.26
846	4.616	CIB	3.23	-0.38	3.214	-0.09
849	4.616	CIB	3.22	-0.14	3.132	NA
959	4.617	CIB	3.23	0.57	3.15	-0.1
659	4.618	CIB	2.96	3.08	-0.17	NA
846	4.618	CIB	3.11	-0.45	3.074	-0.18
846	4.619	CIB	2.88	-0.64	3.034	-0.45
849	4.62	CIB	3.19	-0.21	3	-0.48
846	4.621	CIB	3.03	-0.51	3.022	-0.44
846	4.623	CIB	2.79	-0.57	3.02	-0.47
849	4.624	CIB	3.22	-0.28	2.962	-0.56
846	4.625	CIB	2.87	-0.77	2.952	-0.58
846	4.626	CIB	2.9	-0.68	2.982	-0.62
659	4.627	CIB	2.98	2.984	-0.62	NA
846	4.628	CIB	2.94	-0.73	2.954	-0.29
849	4.628	CIB	3.23	-0.29	3.02	-0.34
959	4.628	CIB	2.72	0.55	3.066	-0.32
846	4.631	CIB	3.23	-0.89	3.08	-0.22
849	4.632	CIB	3.21	-0.26	3.08	-0.29
659	4.633	CIB	3.01	3.16	-0.57	NA
846	4.633	CIB	3.23	-0.57	3.14	-0.45
659	4.635	CIB	3.12	3.142	-0.44	NA

846	4.636	CIB	3.13	-0.51	3.162	NA
849	4.636	CIB	3.22	-0.23	3.128	-0.42
659	4.637	CIB	3.11	3.038	-0.16	NA
846	4.638	CIB	3.06	-0.52	3.01	-0.14
959	4.639	CIB	2.67	0.62	3.022	-0.16
846	4.64	CIB	2.99	-0.43	3.034	NA
849	4.64	CIB	3.28	-0.29	3.008	-0.13
659	4.641	CIB	3.17	3.138	-0.36	NA
846	4.643	CIB	2.93	-0.41	3.138	-0.34
849	4.644	CIB	3.32	-0.32	3.06	-0.42
846	4.645	CIB	2.99	-0.32	3.094	-0.39
846	4.648	CIB	2.89	-0.63	3.098	-0.19
849	4.648	CIB	3.34	-0.27	3.002	-0.21
959	4.648	CIB	2.95	0.57	3.07	-0.19
846	4.651	CIB	2.84	-0.39	3.082	-0.13
849	4.652	CIB	3.33	-0.25	3.098	-0.02
846	4.654	CIB	2.95	-0.31	3.114	-0.17
959	4.654	CIB	3.42	0.29	3.196	-0.14
659	4.656	CIB	3.03	3.098	-0.27	NA
849	4.656	CIB	3.25	-0.3	3.102	-0.25
846	4.657	CIB	2.84	-0.75	3.048	-0.45
659	4.659	CIB	2.97	2.99	-0.45	NA
849	4.66	CIB	3.15	-0.29	2.96	-0.46
846	4.663	CIB	2.74	-0.46	2.99	-0.18
849	4.664	CIB	3.1	-0.32	3.008	NA
959	4.664	CIB	2.99	0.34	3	-0.15
659	4.665	CIB	3.06	2.944	0.3	NA
659	4.667	CIB	3.11	2.97	0.61	NA
588	4.668	CIB	2.46	0.88	3.032	0.88
659	4.668	CIB	3.23	3.042	0.24	NA
846	4.668	CIB	3.3	3.094	-0.01	NA
849	4.668	CIB	3.11	-0.4	3.294	-0.46
846	4.67	CIB	3.37	-0.52	3.304	NA
659	4.671	CIB	3.46	3.306	-0.55	NA
846	4.671	CIB	3.28	3.302	-0.52	NA
846	4.672	CIB	3.31	-0.72	3.276	-0.63
849	4.672	CIB	3.09	-0.33	3.204	NA
846	4.673	CIB	3.24	-0.85	3.154	-0.72
659	4.674	CIB	3.1	3.07	-0.44	NA
846	4.674	CIB	3.03	-0.96	3.05	-0.51
959	4.675	CIB	2.89	0.4	3.018	-0.36
846	4.676	CIB	2.99	-0.61	2.97	NA
849	4.676	CIB	3.08	-0.26	2.998	-0.26
659	4.678	CIB	2.86	3.04	-0.53	NA
846	4.678	CIB	3.17	-0.56	3.09	-0.61
846	4.679	CIB	3.1	-0.69	3.096	-0.6
846	4.68	CIB	3.24	-0.91	3.174	-0.59
849	4.68	CIB	3.11	-0.22	3.192	-0.59
846	4.681	CIB	3.25	-0.58	3.198	-0.56
846	4.681	CIB	3.26	-0.53	3.188	-0.5
846	4.682	CIB	3.13	-0.58	3.178	-0.57
846	4.682	CIB	3.19	-0.58	3.118	-0.62
659	4.683	CIB	3.06	3.106	-0.51	NA
846	4.684	CIB	2.95	-0.78	3.03	-0.16
849	4.684	CIB	3.2	-0.09	2.998	-0.02
959	4.684	CIB	2.75	0.8	3.014	-0.03
659	4.686	CIB	3.03	3.052	0.01	NA
849	4.688	CIB	3.14	-0.03	3.018	0.04
846	4.689	CIB	3.14	-0.66	3.094	-0.36
659	4.69	CIB	3.03	3.1	-0.27	NA

846	4.691	CIB	3.13	-0.4	3.072	-0.43
849	4.692	CIB	3.06	0.02	3.084	-0.35
846	4.693	CIB	3	-0.67	3.164	NA
846	4.694	CIB	3.2	3.164	-0.47	NA
659	4.695	CIB	3.43	3.15	-0.38	NA
846	4.695	CIB	3.13	-0.75	3.164	-0.16
959	4.695	CIB	2.99	0.28	3.148	NA
849	4.696	CIB	3.07	0	3.056	-0.22
846	4.697	CIB	3.12	3.048	-0.04	NA
846	4.7	CIB	2.97	-0.4	3.056	-0.14
849	4.7	CIB	3.09	-0.03	3.042	-0.32
659	4.701	CIB	3.03	3.012	-0.28	NA
846	4.702	CIB	3	-0.54	3.05	-0.21
846	4.704	CIB	2.97	-0.15	3.09	-0.27
849	4.704	CIB	3.16	-0.12	3.116	-0.39
659	4.705	CIB	3.29	3.1	-0.15	NA
846	4.705	CIB	3.16	-0.73	3.172	-0.25
959	4.705	CIB	2.92	0.41	3.186	-0.35
846	4.706	CIB	3.33	-0.56	3.166	-0.32
846	4.708	CIB	3.23	-0.52	3.262	-0.22
849	4.708	CIB	3.19	-0.21	3.33	-0.45
659	4.71	CIB	3.64	3.304	-0.36	NA
846	4.711	CIB	3.26	-0.52	3.404	-0.31
849	4.712	CIB	3.2	-0.19	3.41	-0.29
659	4.714	CIB	3.73	3.272	-0.16	NA
849	4.716	CIB	3.22	-0.16	3.266	-0.14
959	4.717	CIB	2.95	0.24	3.364	-0.12
846	4.718	CIB	3.23	-0.44	3.256	-0.14
659	4.72	CIB	3.69	3.284	-0.16	NA
849	4.72	CIB	3.19	-0.19	3.306	-0.27
846	4.721	CIB	3.36	-0.23	3.284	-0.21
846	4.722	CIB	3.06	-0.23	3.164	NA
846	4.723	CIB	3.12	-0.17	3.128	-0.18
659	4.724	CIB	3.09	3.098	-0.17	NA
846	4.724	CIB	3.01	-0.09	3.08	-0.15
849	4.724	CIB	3.21	-0.18	3.056	-0.14
846	4.726	CIB	2.97	-0.15	2.99	-0.03
846	4.726	CIB	3	-0.14	2.996	-0.07
959	4.726	CIB	2.76	0.42	2.994	-0.04
846	4.728	CIB	3.04	-0.28	2.986	-0.05
659	4.73	CIB	3.2	2.988	-0.06	NA
846	4.731	CIB	2.93	-0.21	2.974	-0.03
846	4.731	CIB	3.01	-0.15	2.94	0.05
959	4.732	CIB	2.69	0.52	2.898	0
846	4.733	CIB	2.87	2.928	0.02	NA
846	4.733	CIB	2.99	-0.16	2.934	-0.06
846	4.734	CIB	3.08	-0.12	3.006	-0.28
846	4.735	CIB	3.04	-0.48	3.086	-0.27
846	4.735	CIB	3.05	-0.35	3.07	-0.3
846	4.735	CIB	3.27	-0.24	3.036	-0.29
659	4.736	CIB	2.91	3.032	-0.23	NA
846	4.737	CIB	2.91	-0.1	2.99	-0.24
846	4.739	CIB	3.02	2.922	-0.25	NA
846	4.74	CIB	2.84	-0.39	2.908	-0.25
659	4.742	CIB	2.93	2.892	-0.12	NA
846	4.742	CIB	2.84	-0.27	2.86	-0.16
959	4.742	CIB	2.83	0.29	2.934	-0.02
846	4.743	CIB	2.86	-0.26	2.94	NA
849	4.744	CIB	3.21	0.17	2.978	-0.04
659	4.745	CIB	2.96	3.014	-0.23	NA

846	4.745	CIB	3.03	-0.37	3.082	-0.32
846	4.746	CIB	3.01	-0.45	3.08	-0.33
846	4.748	CIB	3.2	-0.61	3.114	NA
849	4.748	CIB	3.2	0.12	3.172	-0.39
659	4.751	CIB	3.13	3.198	-0.37	NA
846	4.751	CIB	3.32	-0.63	3.194	-0.2
659	4.752	CIB	3.14	3.114	-0.05	NA
849	4.752	CIB	3.18	-0.08	3.142	-0.09
959	4.753	CIB	2.8	0.56	3.112	0.09
849	4.756	CIB	3.27	-0.2	3.138	-0.1
659	4.758	CIB	3.17	3.164	-0.12	NA
846	4.758	CIB	3.27	-0.69	3.208	-0.35
849	4.76	CIB	3.31	-0.15	3.23	-0.4
846	4.761	CIB	3.02	-0.37	3.168	-0.39
659	4.762	CIB	3.38	3.07	-0.1	NA
846	4.763	CIB	2.86	-0.33	3.01	-0.13
959	4.763	CIB	2.78	0.45	3.046	-0.05
846	4.764	CIB	3.01	-0.25	2.994	NA
849	4.764	CIB	3.2	-0.08	3.018	-0.03
659	4.765	CIB	3.12	3.088	-0.19	NA
846	4.766	CIB	2.98	-0.24	3.084	-0.15
659	4.767	CIB	3.13	3.006	-0.16	NA
846	4.767	CIB	2.99	-0.13	3.006	-0.14
846	4.768	CIB	2.81	-0.12	2.966	NA
849	4.768	CIB	3.12	-0.06	2.948	NA
846	4.769	CIB	2.78	-0.24	2.936	-0.17
659	4.771	CIB	3.04	2.99	-0.16	NA
846	4.772	CIB	2.93	-0.24	2.922	-0.19
849	4.772	CIB	3.08	-0.09	2.916	0.08
659	4.773	CIB	2.78	2.916	0.01	NA
959	4.774	CIB	2.75	0.58	2.946	0.04
846	4.776	CIB	3.04	-0.23	2.968	0.08
849	4.776	CIB	3.08	-0.11	3.014	NA
659	4.779	CIB	3.19	3.104	-0.15	NA
659	4.78	CIB	3.01	3.072	-0.22	NA
849	4.78	CIB	3.2	-0.1	3.064	-0.28
846	4.781	CIB	2.88	-0.46	3.092	-0.21
659	4.783	CIB	3.04	3.04	-0.06	NA
849	4.784	CIB	3.33	-0.07	3	-0.16
959	4.784	CIB	2.75	0.39	3.096	-0.05
846	4.787	CIB	3	-0.51	3.136	NA
849	4.788	CIB	3.36	0	3.116	-0.04
659	4.789	CIB	3.24	3.216	-0.32	NA
659	4.79	CIB	3.23	3.27	-0.12	NA
846	4.791	CIB	3.25	-0.45	3.262	-0.19
849	4.792	CIB	3.27	0.08	3.224	-0.26
659	4.793	CIB	3.32	3.182	-0.32	NA
846	4.793	CIB	3.05	-0.4	3.14	-0.13
846	4.794	CIB	3.02	-0.49	3.09	-0.24
959	4.794	CIB	3.04	0.31	3.062	-0.17
846	4.796	CIB	3.02	-0.38	3.07	-0.14
849	4.796	CIB	3.18	0.09	3.042	-0.1
846	4.797	CIB	3.09	-0.23	3.084	-0.2
846	4.798	CIB	2.88	-0.28	3.078	-0.14
659	4.799	CIB	3.25	3.064	-0.16	NA
846	4.8	CIB	2.99	-0.15	3.018	-0.14
849	4.8	CIB	3.11	0.01	2.964	-0.07
846	4.802	CIB	2.86	2.932	-0.05	NA
846	4.804	CIB	2.61	2.852	0.18	NA
849	4.804	CIB	3.09	-0.01	2.858	0.27

959	4.805	CIB	2.59	0.55	2.908	0.17
659	4.806	CIB	3.14	2.98	NA	NA
849	4.808	CIB	3.11	-0.03	2.912	0.26
659	4.81	CIB	2.97	2.924	0.32	NA
846	4.81	CIB	2.75	2.938	0.16	NA
959	4.81	CIB	2.65	0.67	2.868	0.26
849	4.812	CIB	3.21	-0.15	2.936	0.09
659	4.816	CIB	2.76	2.912	0.28	NA
849	4.816	CIB	3.31	-0.25	3.054	0.04
588	4.82	CIB	2.63	0.83	2.93	0.18
849	4.82	CIB	3.36	-0.28	3.008	NA
959	4.82	CIB	2.59	0.43	2.894	0.07
659	4.822	CIB	3.15	3.048	-0.19	NA
846	4.823	CIB	2.74	-0.69	3.032	-0.23
849	4.824	CIB	3.4	-0.23	3.186	-0.5
846	4.825	CIB	3.28	-0.44	3.214	NA
846	4.826	CIB	3.36	-0.64	3.328	-0.49
659	4.827	CIB	3.29	3.338	-0.46	NA
846	4.828	CIB	3.31	-0.66	3.4	-0.5
849	4.828	CIB	3.45	-0.11	3.422	-0.52
846	4.829	CIB	3.59	-0.59	3.27	-0.31
846	4.83	CIB	3.47	-0.71	3.292	-0.2
959	4.83	CIB	2.53	0.53	3.276	-0.28
849	4.832	CIB	3.42	-0.1	3.226	-0.21
846	4.833	CIB	3.37	-0.55	3.2	-0.05
659	4.835	CIB	3.34	3.372	-0.36	NA
849	4.836	CIB	3.34	-0.07	3.352	-0.47
846	4.837	CIB	3.39	-0.72	3.346	-0.33
846	4.839	CIB	3.32	-0.53	3.34	NA
849	4.84	CIB	3.34	0.02	3.206	-0.53
659	4.841	CIB	3.31	3.114	-0.31	NA
846	4.841	CIB	2.67	-0.9	3.048	-0.24
959	4.841	CIB	2.93	0.17	2.978	-0.38
659	4.842	CIB	2.99	2.912	-0.51	NA
846	4.842	CIB	2.99	-0.41	3.024	-0.38
846	4.843	CIB	2.98	-0.9	3.108	-0.4
846	4.843	CIB	3.23	3.11	-0.47	NA
849	4.844	CIB	3.35	0.1	3.124	-0.47
846	4.845	CIB	3	-0.65	3.116	-0.27
846	4.845	CIB	3.06	-0.44	3.088	NA
846	4.846	CIB	2.94	-0.1	3.016	-0.44
659	4.848	CIB	3.09	3.058	-0.28	NA
846	4.848	CIB	2.99	-0.56	2.994	-0.21
849	4.848	CIB	3.21	-0.02	2.998	-0.21
846	4.849	CIB	2.74	-0.15	2.964	-0.17
846	4.85	CIB	2.96	-0.12	2.94	-0.02
846	4.851	CIB	2.92	0.01	2.844	-0.08
959	4.851	CIB	2.87	0.2	2.924	-0.06
846	4.852	CIB	2.73	-0.32	2.918	-0.05
849	4.852	CIB	3.14	-0.09	2.9	-0.13
659	4.854	CIB	2.93	2.896	-0.23	NA
846	4.854	CIB	2.83	-0.29	2.948	-0.3
846	4.854	CIB	2.85	-0.23	2.956	-0.33
846	4.856	CIB	2.99	-0.6	2.976	-0.36
849	4.856	CIB	3.18	-0.18	2.998	-0.38
846	4.859	CIB	3.03	-0.51	3.07	-0.39
659	4.86	CIB	2.94	3.082	-0.38	NA
849	4.86	CIB	3.21	-0.27	2.958	-0.19
846	4.861	CIB	3.05	-0.57	2.904	-0.08
959	4.861	CIB	2.56	0.61	2.956	-0.21

659	4.864	CIB	2.76	2.956	-0.21	NA
846	4.864	CIB	3.2	-0.61	2.984	-0.23
849	4.864	CIB	3.21	-0.28	3.156	-0.51
846	4.866	CIB	3.19	-0.63	3.246	-0.45
659	4.868	CIB	3.42	3.286	-0.44	NA
849	4.868	CIB	3.21	-0.28	3.35	-0.49
846	4.869	CIB	3.4	-0.55	3.406	-0.53
659	4.87	CIB	3.53	3.374	-0.47	NA
846	4.871	CIB	3.47	-0.75	3.244	-0.27
849	4.872	CIB	3.26	-0.31	3.256	-0.36
959	4.873	CIB	2.56	0.55	3.202	NA
846	4.874	CIB	3.46	-0.94	3.218	-0.4
659	4.875	CIB	3.26	3.242	-0.42	NA
846	4.876	CIB	3.55	-0.88	3.41	-0.74
849	4.876	CIB	3.38	-0.4	3.408	-0.68
659	4.878	CIB	3.4	3.458	-0.63	NA
846	4.879	CIB	3.45	-0.76	3.42	-0.62
849	4.88	CIB	3.51	-0.49	3.382	-0.71
846	4.881	CIB	3.36	-0.84	3.228	-0.48
846	4.883	CIB	3.19	-0.75	3.162	-0.42
959	4.883	CIB	2.63	0.42	3.166	-0.42
659	4.884	CIB	3.12	3.178	-0.37	NA
849	4.884	CIB	3.53	-0.49	3.168	-0.32
846	4.885	CIB	3.42	-0.65	3.348	-0.53
846	4.887	CIB	3.14	-0.54	3.312	-0.41
849	4.888	CIB	3.53	-0.45	3.214	-0.42
959	4.889	CIB	2.94	0.09	3.13	-0.39
846	4.89	CIB	3.04	-0.56	3.172	-0.33
846	4.892	CIB	3	-0.5	2.974	-0.11
849	4.892	CIB	3.35	-0.22	3.044	-0.16
588	4.895	CIB	2.54	0.64	3.006	-0.18
659	4.895	CIB	3.29	3.052	-0.07	NA
846	4.895	CIB	2.85	-0.62	2.956	-0.11
849	4.896	CIB	3.23	-0.08	3.04	-0.17
846	4.897	CIB	2.87	-0.36	2.972	-0.22
959	4.898	CIB	2.96	0.38	3.042	-0.12
846	4.9	CIB	2.95	-0.44	3.004	-0.18
849	4.9	CIB	3.2	-0.1	3.036	-0.14
846	4.902	CIB	3.04	-0.39	3.056	-0.3
659	4.904	CIB	3.03	3.11	-0.21	NA
846	4.904	CIB	3.06	-0.27	3.082	-0.24
849	4.904	CIB	3.22	-0.07	3.066	-0.25
659	4.906	CIB	3.06	3.108	-0.2	NA
846	4.907	CIB	2.96	-0.4	3.112	-0.23
849	4.908	CIB	3.24	-0.05	3.022	-0.03
846	4.909	CIB	3.08	-0.38	3.018	-0.1
959	4.909	CIB	2.77	0.71	3.07	-0.04
846	4.911	CIB	3.04	-0.36	3.01	-0.13
849	4.912	CIB	3.22	-0.12	2.994	-0.13
846	4.914	CIB	2.94	-0.48	3.084	-0.3
846	4.916	CIB	3	-0.38	3.106	-0.29
849	4.916	CIB	3.22	-0.16	3.058	-0.37
659	4.918	CIB	3.15	3.02	-0.12	NA
846	4.918	CIB	2.98	-0.46	3.008	-0.16
959	4.919	CIB	2.75	0.54	3.018	-0.17
846	4.92	CIB	2.94	-0.55	2.988	-0.27
849	4.92	CIB	3.27	-0.21	3.056	-0.23
846	4.922	CIB	3	-0.69	3.132	-0.46
849	4.924	CIB	3.32	-0.26	3.164	-0.48
846	4.925	CIB	3.13	-0.59	3.132	-0.55

846	4.927	CIB	3.1	-0.67	3.092	-0.51
659	4.928	CIB	3.11	3.106	-0.53	NA
846	4.928	CIB	2.8	-0.52	3.114	-0.51
849	4.928	CIB	3.39	-0.32	3.122	-0.5
846	4.93	CIB	3.17	-0.54	3.182	-0.47
846	4.932	CIB	3.14	-0.62	3.252	-0.47
849	4.932	CIB	3.41	-0.34	3.192	-0.51
846	4.933	CIB	3.15	-0.53	3.188	-0.5
659	4.936	CIB	3.09	3.242	-0.42	NA
846	4.936	CIB	3.15	-0.49	3.178	-0.47
849	4.936	CIB	3.41	-0.32	3.154	-0.46
846	4.938	CIB	3.09	-0.54	3.204	-0.41
846	4.94	CIB	3.03	-0.47	3.116	-0.2
849	4.94	CIB	3.34	-0.23	3.028	-0.17
959	4.94	CIB	2.71	0.56	2.97	0.18
659	4.941	CIB	2.97	2.952	0.15	NA
926	4.941	PWUELL	2.8	0.85	2.928	0.18
846	4.943	CIB	2.94	-0.58	2.954	0.12
849	4.944	CIB	3.22	-0.13	2.954	0.02
926	4.945	PWUELL	2.84	0.35	3.03	-0.18
846	4.947	CIB	2.97	-0.39	2.99	0.12
849	4.948	CIB	3.18	-0.14	2.942	0.19
926	4.95	CIBKULL	2.74	0.92	2.998	-0.03
659	4.951	CIB	2.98	2.964	0.21	NA
846	4.951	CIB	3.12	-0.52	2.964	0.2
959	4.951	CIB	2.8	0.57	3.05	-0.19
849	4.952	CIB	3.18	-0.17	3.058	NA
846	4.955	CIB	3.17	-0.65	3.074	-0.11
659	4.956	CIB	3.02	3.082	-0.31	NA
849	4.956	CIB	3.2	-0.17	3.09	NA
846	4.959	CIB	2.84	-0.24	2.976	-0.02
849	4.96	CIB	3.22	-0.17	2.886	0.1
926	4.96	NUT	2.6	0.5	2.848	0.17
959	4.961	CIB	2.57	0.59	2.866	0.13
659	4.963	CIB	3.01	2.868	0.12	NA
846	4.963	CIB	2.93	-0.42	2.974	-0.12
849	4.964	CIB	3.23	-0.18	3.032	-0.01
846	4.965	CIB	3.13	-0.47	2.964	0.03
926	4.965	PWUELL	2.86	1.05	2.892	0.14
959	4.966	CIB	2.67	0.15	2.824	-0.04
659	4.967	CIB	2.57	2.668	0.32	NA
846	4.969	CIB	2.89	-0.89	2.586	0.28
926	4.969	PWUELL	2.35	0.96	2.626	0.12
926	4.972	PWUELL	2.45	0.9	2.7	NA
846	4.974	CIB	2.87	-0.51	2.712	0.37
659	4.975	CIB	2.94	2.866	0.17	NA
959	4.977	CIB	2.95	0.13	2.952	0.17
659	4.978	CIB	3.12	2.91	0.51	NA
926	4.978	PWUELL	2.88	0.88	2.874	0.14
659	4.98	CIB	2.66	2.904	-0.1	NA
846	4.981	CIB	2.76	-0.59	2.84	-0.2
846	4.981	CIB	3.1	-0.58	2.852	-0.56
846	4.983	CIB	2.8	-0.52	2.834	-0.28
846	4.984	CIB	2.94	-0.53	2.896	-0.2
926	4.984	PWUELL	2.57	0.84	2.828	0.2
659	4.985	CIB	3.07	2.854	0.49	NA
926	4.987	PWUELL	2.76	1	2.84	0.83
959	4.987	CIB	2.93	0.66	2.89	0.43
659	4.988	CIB	2.87	2.922	NA	NA
846	4.988	CIB	2.82	-0.37	2.95	-0.08

659	4.993	CIB	3.23	2.948	-0.42	NA
846	4.994	CIB	2.9	-0.52	3.018	NA
846	4.994	CIB	2.92	-0.37	3.056	-0.44
659	4.997	CIB	3.22	2.974	-0.16	NA
846	4.998	CIB	3.01	-0.42	2.996	-0.03
959	4.998	CIB	2.82	0.69	2.882	0.37
659	4.999	CIB	3.01	2.832	0.18	NA
588	5	CIB	2.35	0.84	2.7	0.51
846	5.002	CIB	2.97	-0.4	2.732	0.26
926	5.003	PWUELL	2.35	0.9	2.708	0.38
846	5.006	CIB	2.98	-0.3	2.77	0.35
926	5.008	PWUELL	2.89	0.86	2.804	0.36
959	5.008	CIB	2.66	0.71	2.914	0.31
846	5.01	CIB	3.14	-0.38	2.98	0.47
926	5.012	PWUELL	2.9	0.68	2.982	0.17
659	5.015	CIB	3.31	3.074	0.2	NA
846	5.015	CIB	2.9	-0.32	3.032	0.22
926	5.016	PWUELL	3.12	0.82	3.064	0.18
846	5.019	CIB	2.93	-0.31	2.964	0.36
959	5.019	CIB	3.06	0.51	2.952	0.27
926	5.02	PWUELL	2.81	1.1	2.916	0.3
846	5.024	CIB	2.84	-0.76	2.896	0.24
926	5.025	PWUELL	2.94	0.96	2.844	0.35
846	5.029	CIB	2.83	-0.63	2.876	0.24
926	5.029	PWUELL	2.8	1.07	2.848	0.58
959	5.029	CIB	2.97	0.55	2.846	0.28
926	5.033	PWUELL	2.7	0.95	2.87	0.28
846	5.035	CIB	2.93	-0.55	2.75	0.06
846	5.038	CIB	2.95	-0.63	2.72	0.1
926	5.038	NODO	2.2	0	2.838	-0.26
959	5.04	CIB	2.82	0.73	2.81	0.02
846	5.041	CIB	3.29	-0.83	2.738	0.3
926	5.041	PWUELL	2.79	0.81	2.95	0.15
926	5.044	PWUELL	2.59	0.79	2.962	0.13
846	5.045	CIB	3.26	-0.76	2.862	0.45
959	5.045	CIB	2.88	0.62	2.934	0.12
926	5.047	PWUELL	2.79	0.78	2.976	0.11
846	5.049	CIB	3.15	-0.84	2.95	0.13
926	5.051	PWUELL	2.8	0.75	2.946	0.05
846	5.052	CIB	3.13	-0.66	2.946	0.03
926	5.054	PWUELL	2.86	0.22	2.914	0.09
959	5.055	CIB	2.79	0.67	2.952	0.09
846	5.057	CIB	2.99	-0.54	2.942	0.13
926	5.057	PWUELL	2.99	0.74	2.966	0.24
846	5.061	CIB	3.08	-0.45	3.008	0.05
926	5.062	PWUELL	2.98	0.78	2.988	0.3
846	5.065	CIB	3	-0.27	2.954	0.31
959	5.066	CIB	2.89	0.71	2.934	0.31
926	5.068	PWUELL	2.82	0.78	2.914	0.34
846	5.069	CIB	2.98	-0.46	2.922	0.42
926	5.07	PWUELL	2.88	0.95	2.924	0.22
959	5.071	CIB	3.04	0.11	2.932	0.29
846	5.072	CIB	2.9	-0.27	2.836	0.55
926	5.074	PWUELL	2.86	1.13	2.874	0.27
588	5.075	CIB	2.5	0.85	2.846	0.11
846	5.076	CIB	3.07	-0.48	2.808	0.39
846	5.082	CIB	2.9	-0.7	2.774	-0.06
926	5.082	PWUELL	2.71	1.13	2.84	-0.29
846	5.086	CIB	2.69	-1.1	2.834	-0.37
659	5.087	CIB	2.83	2.84	0.05	NA

846	5.091	CIB	3.04	-0.8	2.838	-0.44
926	5.091	PWUELL	2.93	0.96	2.922	0.03
846	5.095	CIB	2.7	-0.81	2.932	-0.19
926	5.095	PWUELL	3.11	0.78	2.954	0.15
846	5.099	CIB	2.88	-1.09	2.928	0.11
926	5.099	PWUELL	3.15	0.92	2.92	0.04
959	5.102	CIB	2.8	0.75	2.956	0.09
846	5.103	CIB	2.66	-1.15	2.896	0.12
926	5.103	PWUELL	3.29	1.03	2.822	0.06
846	5.105	CIB	2.58	-0.97	2.858	-0.26
959	5.107	CIB	2.78	0.63	2.924	-0.04
846	5.108	CIB	2.98	-0.84	2.848	-0.5
846	5.109	CIB	2.99	2.968	-0.34	NA
846	5.111	CIB	2.91	-0.8	3.034	-0.82
846	5.113	CIB	3.18	3.062	-0.8	NA
846	5.114	CIB	3.11	3.066	-0.9	NA
846	5.115	CIB	3.12	3.102	0.08	NA
846	5.117	CIB	3.01	-1	3.046	0.32
926	5.118	PWUELL	3.09	1.16	3.01	0.05
959	5.118	CIB	2.9	0.81	2.984	-0.07
846	5.12	CIB	2.93	-0.77	2.936	0.01
846	5.122	CIB	2.99	-0.55	2.904	-0.27
846	5.124	CIB	2.77	-0.58	2.932	-0.24
846	5.126	CIB	2.93	2.904	0.16	NA
926	5.127	PWUELL	3.04	0.93	2.798	0.16
959	5.127	CIB	2.79	0.82	2.784	0.41
846	5.128	CIB	2.46	-0.52	2.746	0.18
846	5.13	CIB	2.7	2.772	0.14	NA
846	5.132	CIB	2.74	-0.5	2.718	-0.21
926	5.132	PWUELL	3.17	0.74	2.748	-0.21
846	5.134	CIB	2.52	-0.55	2.708	NA
846	5.136	CIB	2.61	-0.53	2.706	-0.11
846	5.137	CIB	2.5	2.644	-0.13	NA
846	5.139	CIB	2.73	2.704	-0.04	NA
959	5.139	CIB	2.86	0.69	2.75	-0.01
846	5.14	CIB	2.82	-0.28	2.848	-0.05
846	5.141	CIB	2.84	-0.45	2.886	0.16
846	5.142	CIB	2.99	-0.16	2.892	-0.05
926	5.142	PWUELL	2.92	1	2.9	-0.09
846	5.143	CIB	2.89	-0.34	2.928	-0.11
846	5.145	CIB	2.86	-0.51	2.89	-0.15
846	5.146	CIB	2.98	-0.54	2.85	-0.16
846	5.147	CIB	2.8	-0.37	2.86	-0.19
926	5.147	PWUELL	2.72	0.97	2.836	0.06
846	5.148	CIB	2.94	-0.51	2.75	0.36
959	5.148	CIB	2.74	0.77	2.778	0.32
588	5.15	CIB	2.55	0.92	2.822	0.02
846	5.15	CIB	2.94	-0.54	2.872	0.34
846	5.152	CIB	2.94	-0.53	2.908	0.08
926	5.152	PWUELL	3.19	1.06	2.942	-0.05
846	5.154	CIB	2.92	-0.49	2.958	-0.04
926	5.155	PWUELL	2.72	0.24	2.972	-0.05
846	5.156	CIB	3.02	-0.48	2.99	-0.33
846	5.157	CIB	3.01	-0.58	2.97	-0.27
846	5.158	CIB	3.28	3.086	-0.53	NA
659	5.159	CIB	2.82	2.998	0.14	NA
846	5.159	CIB	3.3	2.958	0.84	NA
926	5.159	PWUELL	2.58	0.85	2.94	0.27
959	5.159	CIB	2.81	0.82	2.996	0.03
846	5.16	CIB	3.19	-0.86	2.848	0.19

846	5.162	CIB	3.1	-0.68	2.954	-0.13
926	5.163	PWUELL	2.56	0.84	3.034	-0.37
846	5.164	CIB	3.11	-0.76	3.028	-0.2
846	5.165	CIB	3.21	2.948	0.31	NA
846	5.166	CIB	3.16	3.03	-0.11	NA
926	5.166	PWUELL	2.7	0.84	2.988	0.02
846	5.167	CIB	2.97	-0.41	2.86	-0.1
846	5.168	CIB	2.9	-0.38	2.8	-0.13
846	5.169	CIB	2.57	-0.46	2.84	-0.36
846	5.17	CIB	2.86	-0.22	2.842	-0.15
846	5.17	CIB	2.9	-0.33	2.826	0.1
926	5.17	PWUELL	2.98	0.63	2.89	0.11
959	5.17	CIB	2.82	0.89	2.936	0.28
846	5.172	CIB	2.89	-0.42	2.902	0.19
926	5.173	CIBKULL	3.09	0.65	2.884	0.21
846	5.175	CIB	2.73	-0.81	2.844	0.26
959	5.175	CIB	2.89	0.73	2.856	0.25
926	5.178	PWUELL	2.62	1.14	2.734	0.33
846	5.179	CIB	2.95	-0.45	2.72	0.68
926	5.183	CIBKULL	2.66	0.92	2.728	0.62
926	5.183	PWUELICIB	2.48	1.06	2.684	0.73
926	5.183	PWUELL	2.71	0.96	2.694	0.92
846	5.184	CIB	2.84	2.79	0.53	NA
959	5.185	CIB	2.78	0.74	2.776	0.57
846	5.187	CIB	2.96	-0.5	2.808	0.19
926	5.188	PWUELICIB	2.59	1.06	2.9	NA
846	5.189	CIB	2.87	-0.55	2.918	-0.18
659	5.19	CIB	3.3	2.9	-0.16	NA
846	5.191	CIB	2.87	-0.72	2.908	-0.12
846	5.193	CIB	2.87	-0.42	2.896	-0.08
926	5.193	PWUELL	2.63	1.22	2.796	-0.21
846	5.194	CIB	2.81	-0.38	2.776	0.14
846	5.196	CIB	2.8	-0.76	2.762	0.28
926	5.198	CIBKULL	2.77	1.05	2.736	0.2
846	5.2	CIB	2.8	2.752	0.4	NA
926	5.203	PWUELICIB	2.5	0.9	2.75	0.98
659	5.205	CIB	2.89	2.742	0.85	NA
846	5.206	CIB	2.79	2.68	0.91	NA
959	5.207	CIB	2.73	0.79	2.76	0.92
926	5.209	PWUELL	2.49	1.05	2.756	NA
846	5.211	CIB	2.9	2.78	NA	NA
846	5.215	CIB	2.87	2.824	1.02	NA
846	5.217	CIB	2.91	2.9	0.98	NA
926	5.219	PWUELL	2.95	0.98	2.904	NA
846	5.22	CIB	2.87	2.86	NA	NA
659	5.221	CIB	2.92	2.816	NA	NA
846	5.222	CIB	2.65	2.826	0.3	NA
959	5.222	CIB	2.69	0.98	2.834	0.47
846	5.224	CIB	3	-0.39	2.804	0.57
926	5.224	CIBKULL	2.91	0.83	2.788	0.65
588	5.225	CIB	2.77	0.84	2.808	0.61
926	5.228	PWUELICIB	2.57	0.98	2.714	0.89
926	5.232	PWUELL	2.79	0.79	2.756	0.9
926	5.236	PWUELICIB	2.53	1	2.792	0.48
659	5.237	CIB	3.12	2.856	0.45	NA
846	5.237	CIB	2.95	-0.84	2.898	0.15
959	5.238	CIB	2.89	0.86	2.916	0.17
846	5.239	CIB	3	-0.43	2.876	0.09
926	5.24	CIBKULL	2.62	1.09	2.808	0.14
846	5.241	CIB	2.92	-0.25	2.822	-0.14

846	5.242	CIB	2.61	-0.57	2.904	-0.22
846	5.243	CIB	2.96	-0.54	2.91	-0.2
846	5.244	CIB	3.41	-0.84	2.94	-0.27
926	5.245	PWUELL	2.65	1.22	2.99	-0.23
846	5.246	CIB	3.07	-0.62	2.964	-0.2
846	5.247	CIB	2.86	-0.38	2.854	-0.12
846	5.248	CIB	2.83	-0.39	2.818	-0.15
846	5.249	CIB	2.86	-0.43	2.778	-0.06
926	5.249	PWUEL CIB	2.47	1.06	2.81	0.07
846	5.251	CIB	2.87	-0.15	2.804	0.07
959	5.252	CIB	3.02	0.26	2.772	0.34
846	5.253	CIB	2.8	-0.4	2.822	0.1
926	5.253	CIBKULL	2.7	0.91	2.794	0.07
846	5.255	CIB	2.72	-0.13	2.726	0.19
846	5.257	CIB	2.73	-0.29	2.73	0.21
926	5.257	PWUEL CIB	2.68	0.84	2.744	0
846	5.259	CIB	2.82	-0.27	2.718	0.2
846	5.261	CIB	2.77	-0.17	2.762	0.21
926	5.261	PWUEL CIB	2.59	0.88	2.77	-0.02
846	5.264	CIB	2.95	-0.23	2.746	0.24
846	5.266	CIB	2.72	-0.3	2.786	0.35
588	5.2679	CIB	2.7	1.04	2.898	0.33
659	5.268	CIB	2.97	2.878	0.3	NA
959	5.268	CIB	3.15	0.8	2.92	0.31
846	5.269	CIB	2.85	-0.36	2.926	0.31
846	5.269	CIB	2.93	-0.25	2.912	0.18
926	5.269	PWUEL CIB	2.73	1.05	2.868	-0.07
846	5.271	CIB	2.9	-0.36	2.888	-0.11
846	5.271	CIB	2.93	-0.41	2.914	-0.11
846	5.272	CIB	2.95	-0.56	2.866	-0.1
846	5.273	CIB	3.06	-0.28	2.876	-0.12
926	5.273	PWUEL CIB	2.49	1.13	2.87	0.08
846	5.274	CIB	2.95	-0.48	2.914	0.11
959	5.275	CIB	2.9	0.61	2.916	0.11
846	5.276	CIB	3.17	-0.44	2.954	0.13
846	5.277	CIB	3.07	-0.29	2.922	0.19
926	5.278	PWUELL	2.68	1.24	2.93	0.01
846	5.279	CIB	2.79	-0.17	2.85	0.33
846	5.281	CIB	2.94	-0.3	2.824	0.37
926	5.281	CIBKULL	2.77	1.18	2.818	0.08
846	5.283	CIB	2.94	-0.09	2.834	0.1
846	5.284	CIB	2.65	-0.21	2.794	0.37
846	5.286	CIB	2.87	-0.06	2.818	0.17
926	5.286	PWUELL	2.74	1.02	2.822	0.25
846	5.288	CIB	2.89	2.846	0.53	NA
846	5.289	CIB	2.96	2.81	0.82	NA
959	5.289	CIB	2.77	0.62	2.81	0.04
846	5.29	CIB	2.69	2.8	-0.03	NA
846	5.291	CIB	2.74	-0.54	2.766	0.31
846	5.294	CIB	2.84	-0.16	2.798	0.08
926	5.295	PWUELL	2.79	1.31	2.846	0.31
846	5.298	CIB	2.93	-0.3	2.898	0.65
926	5.299	CIBKULL	3	1.18	2.98	0.43
926	5.299	PWUELL	2.93	1.22	2.93	0.65
846	5.3	CIB	3	-0.16	2.97	0.7
846	5.302	CIB	3.04	0.23	2.952	0.46
926	5.303	CIBKULL	2.88	1.02	2.958	0.34
846	5.304	CIB	2.84	0.05	2.934	0.37
959	5.305	CIB	3.03	0.58	2.866	0.58
846	5.306	CIB	2.88	-0.04	2.812	0.5

926	5.308	PWUELCIB	2.7	1.3	2.796	0.49
588	5.3084	CIB	2.61	0.63	2.77	0.41
846	5.309	CIB	2.76	-0.03	2.782	0.65
846	5.312	CIB	2.9	0.18	2.78	0.41
926	5.313	PWUELL	2.94	1.17	2.852	0.28
846	5.315	CIB	2.69	0.11	2.852	0.38
846	5.318	CIB	2.97	-0.03	2.826	0.33
959	5.318	CIB	2.76	0.49	2.796	0.07
846	5.32	CIB	2.77	-0.11	2.804	0.23
846	5.322	CIB	2.79	-0.09	2.734	0.3
926	5.323	PWUELCIB	2.73	0.89	2.724	0.15
846	5.325	CIB	2.62	2.722	0.44	NA
846	5.327	CIB	2.71	-0.11	2.622	0.46
926	5.327	PWUELL	2.76	1.06	2.592	NA
846	5.33	CIB	2.29	0	2.658	0.33
926	5.331	PWUELL	2.58	0.89	2.734	0.47
846	5.332	CIB	2.95	-0.18	2.746	0.16
959	5.334	CIB	3.09	0.56	2.844	0.38
846	5.336	CIB	2.82	-0.46	2.916	0.17
926	5.336	PWUELL	2.78	1.11	2.912	0.16
846	5.338	CIB	2.94	-0.2	2.866	0.27
846	5.34	CIB	2.93	-0.21	2.886	0.35
926	5.34	PWUELL	2.86	1.12	2.924	0.06
846	5.343	CIB	2.92	-0.08	2.846	0.36
846	5.347	CIB	2.97	-0.31	2.852	0.52
926	5.349	PWUELL	2.55	1.3	2.83	0.31
959	5.349	CIB	2.96	0.59	2.786	0.5
846	5.35	CIB	2.75	0.05	2.814	0.54
754	5.3511	CIB	2.7	0.87	2.856	0.53
846	5.352	CIB	3.11	-0.09	2.9	0.51
926	5.354	PWUELL	2.76	1.22	2.954	0.42
846	5.355	CIB	3.18	2.964	0.5	NA
846	5.357	CIB	3.02	-0.32	2.914	0.36
926	5.359	PWUELL	2.75	1.17	2.866	0.28
846	5.361	CIB	2.86	-0.62	2.782	0.36
588	5.3625	CIB	2.52	0.9	2.702	0.67
959	5.363	CIB	2.76	0.67	2.77	0.37
926	5.364	CIB	2.62	1.25	2.798	0.43
846	5.365	CIB	3.09	-0.33	2.816	0.5
846	5.369	CIB	3	-0.34	2.838	0.25
926	5.369	PWUELCIB	2.61	1.23	2.89	-0.07
846	5.371	CIB	2.87	-0.57	2.894	-0.1
846	5.372	CIB	2.88	-0.36	2.878	0.2
846	5.373	CIB	3.11	-0.47	2.934	-0.13
926	5.374	CIBKULL	2.92	1.19	2.976	0.23
846	5.377	CIB	2.89	-0.42	2.906	0.41
926	5.379	CIBKULL	3.08	1.22	2.884	0.43
959	5.379	CIB	2.53	0.51	2.858	0.15
846	5.381	CIB	3	-0.34	2.862	0.46
846	5.384	CIB	2.79	-0.23	2.804	0.16
926	5.384	CIBKULL	2.91	1.16	2.86	0.22
846	5.386	CIB	2.79	-0.3	2.832	0.25
959	5.386	CIB	2.81	0.79	2.848	0.56
846	5.388	CIB	2.86	-0.17	2.816	0.29
926	5.389	PWUELL	2.87	1.3	2.782	0.32
846	5.391	CIB	2.75	-0.16	2.766	0.14
846	5.393	CIB	2.62	-0.15	2.714	0.37
846	5.394	CIB	2.73	-0.11	2.686	0.07
926	5.394	CIB	2.6	0.98	2.672	0.07
846	5.396	CIB	2.73	-0.2	2.732	0.11

846	5.397	CIB	2.68	-0.19	2.722	0.11
846	5.398	CIB	2.92	0.07	2.752	0.1
846	5.4	CIB	2.68	-0.11	2.852	0.15
959	5.4	CIB	2.75	0.93	2.878	0.19
846	5.401	CIB	3.23	0.07	2.828	0.34
846	5.403	CIB	2.81	-0.01	2.844	0.35
588	5.4031	CIB	2.67	0.81	2.886	0.17
846	5.405	CIB	2.76	-0.03	2.838	0.13
846	5.406	CIB	2.96	0.02	2.884	0.09
846	5.408	CIB	2.99	-0.15	2.946	-0.08
846	5.409	CIB	3.04	-0.18	2.95	-0.1
846	5.411	CIB	2.98	-0.06	2.942	-0.11
846	5.412	CIB	2.78	-0.14	2.928	-0.09
846	5.413	CIB	2.92	-0.02	2.878	0.11
846	5.415	CIB	2.92	-0.06	2.904	0.12
959	5.415	CIB	2.79	0.82	2.954	0.14
846	5.418	CIB	3.11	-0.01	2.454	0.43
846	5.42	CIB	3.03	-0.04	2.46	0.63
926	5.42	CIB1	0.42	1.43	2.514	0.45
926	5.421	CIBKULL	2.95	0.93	2.446	0.42
846	5.422	CIB	3.06	-0.06	2.412	0.38
846	5.425	CIB	2.77	-0.15	2.912	0.34
846	5.427	CIB	2.86	-0.26	2.868	0.09
959	5.429	CIB	2.92	1.25	2.898	0.03
846	5.43	CIB	2.73	-0.35	2.902	0.2
846	5.432	CIB	3.21	-0.35	2.902	0.2
926	5.434	CIB	2.79	0.7	2.988	-0.14
846	5.435	CIB	2.86	-0.26	3.004	0.11
846	5.437	CIB	3.35	-0.46	2.93	0.22
926	5.438	CIB	2.81	0.9	2.932	0.06
846	5.439	CIB	2.84	2.914	0.42	NA
846	5.441	CIB	2.8	2.798	0.45	NA
588	5.4437	CIB	2.77	0.83	2.776	0.48
846	5.444	CIB	2.77	-0.37	2.776	0.3
959	5.445	CIB	2.7	0.99	2.796	0.2
846	5.447	CIB	2.84	-0.25	2.812	0
846	5.45	CIB	2.9	-0.22	2.792	0.28
846	5.453	CIB	2.85	-0.13	2.882	0.02
926	5.454	PWUELL	2.67	1.02	2.844	0.02
846	5.455	CIB	3.15	-0.31	2.752	0.04
846	5.457	CIB	2.65	-0.28	2.748	0.23
846	5.459	CIB	2.44	-0.12	2.696	-0.07
959	5.46	CIB	2.83	0.86	2.68	-0.09
846	5.461	CIB	2.41	-0.5	2.702	-0.1
846	5.464	CIB	3.07	-0.43	2.772	-0.16
846	5.466	CIB	2.76	-0.3	2.766	-0.09
846	5.468	CIB	2.79	-0.43	2.852	-0.06
926	5.469	PWUELL	2.8	1.2	2.794	-0.1
846	5.47	CIB	2.84	-0.36	2.688	-0.11
846	5.472	CIB	2.78	-0.61	2.716	0.26
846	5.474	CIB	2.23	-0.33	2.678	-0.04
926	5.475	PWUELL	2.93	1.42	2.664	-0.04
846	5.476	CIB	2.61	-0.34	2.682	0.35
846	5.479	CIB	2.77	-0.32	2.804	0.33
926	5.48	PWUELL	2.87	1.3	2.726	0.06
846	5.481	CIB	2.84	-0.39	2.746	0.39
846	5.483	CIB	2.54	2.706	0.44	NA
588	5.4842	CIB	2.71	0.96	2.71	0.09
846	5.485	CIB	2.57	-0.12	2.714	0.51
846	5.486	CIB	2.89	-0.11	2.778	0.39

926	5.486	PWUELL	2.86	1.32	2.822	0.18
846	5.488	CIB	2.86	-0.1	2.836	0.37
846	5.489	CIB	2.93	-0.08	2.83	0.32
959	5.489	CIB	2.64	0.84	2.866	0.05
846	5.491	CIB	2.86	-0.39	2.846	0.33
846	5.491	CIB	3.04	-0.01	2.854	0.06
926	5.491	PWUELL	2.76	1.29	2.934	-0.18
846	5.493	CIB	2.97	-1.43	2.91	-0.16
846	5.493	CIB	3.04	-0.38	2.882	-0.19
846	5.494	CIB	2.74	-0.28	2.958	-0.56
846	5.495	CIB	2.9	-0.14	2.974	-0.22
846	5.495	CIB	3.14	2.89	0.05	NA
846	5.496	CIB	3.05	-0.08	2.956	0.03
959	5.496	CIB	2.62	0.71	2.996	0.04
846	5.497	CIB	3.07	-0.36	2.908	0.26
846	5.497	CIB	3.1	-0.13	2.918	0.22
926	5.497	PWUELL	2.7	1.17	3.042	0.1
846	5.498	CIB	3.1	-0.3	3.01	0.09
846	5.499	CIB	3.24	3.014	0.04	NA
846	5.5	CIB	2.91	-0.39	3.068	-0.35
846	5.501	CIB	3.12	-0.32	3.064	-0.35
846	5.502	CIB	2.97	-0.4	2.96	-0.05
846	5.502	CIB	3.08	-0.3	2.954	0.03
926	5.502	PWUELL	2.72	1.15	2.916	0.09
846	5.504	CIB	2.88	2.888	0.19	NA
846	5.504	CIB	2.93	-0.11	2.838	0.2
846	5.506	CIB	2.83	0.02	2.878	-0.24
846	5.506	CIB	2.83	-0.25	2.914	0.04
846	5.508	CIB	2.92	-0.62	2.9	0.03
926	5.508	PWUELL	3.06	1.16	2.914	0
846	5.509	CIB	2.86	-0.14	2.936	0.17
846	5.51	CIB	2.9	-0.15	2.888	0.17
959	5.511	CIB	2.94	0.59	2.938	-0.07
846	5.512	CIB	2.68	-0.59	2.924	-0.23
846	5.513	CIB	3.31	2.92	0.11	NA
846	5.514	CIB	2.79	-0.77	2.938	-0.05
926	5.514	PWUELL	2.88	1.2	2.998	-0.01
846	5.516	CIB	3.03	2.934	NA	NA
846	5.518	CIB	2.98	-0.46	2.974	0.62
846	5.52	CIB	2.99	2.938	0.08	NA
926	5.52	PWUELL	2.99	1.11	2.868	0.3
846	5.523	CIB	2.7	-0.42	2.832	0.52
588	5.5248	CIB	2.68	0.98	2.764	NA
959	5.525	CIB	2.8	0.4	2.712	0.5
846	5.526	CIB	2.65	2.724	0.46	NA
926	5.527	CIB	2.73	1.02	2.758	0.28
846	5.528	CIB	2.76	-0.58	2.786	0
846	5.53	CIB	2.85	2.794	0.27	NA
846	5.531	CIB	2.94	-0.43	2.864	-0.09
926	5.532	NUT	2.69	1.05	2.912	-0.13
846	5.533	CIB	3.08	-0.39	2.998	-0.25
846	5.536	CIB	3	-0.74	3.076	-0.23
846	5.537	CIB	3.28	-0.76	3.17	-0.52
846	5.539	CIB	3.33	-0.33	3.106	-0.3
846	5.54	CIB	3.16	-0.4	3.16	-0.07
926	5.541	PWUELL	2.76	0.71	3.156	0.07
959	5.541	CIB	3.27	0.42	3.118	0.14
846	5.542	CIB	3.26	-0.04	3.112	0.22
846	5.543	CIB	3.14	0.01	3.184	0.07
846	5.545	CIB	3.13	-0.02	3.11	-0.03

846	5.546	CIB	3.12	-0.02	3.026	-0.01
846	5.548	CIB	2.9	-0.1	2.98	-0.07
846	5.55	CIB	2.84	0.07	2.96	-0.11
846	5.552	CIB	2.91	-0.27	2.926	0.12
846	5.554	CIB	3.03	-0.25	2.958	0.1
926	5.554	PWUELL	2.95	1.14	2.96	0.23
846	5.556	CIB	3.06	-0.17	2.984	0.22
959	5.556	CIB	2.85	0.72	2.93	0.47
846	5.558	CIB	3.03	-0.33	2.996	0.18
926	5.558	CIB	2.76	1.01	3.034	0.18
846	5.56	CIB	3.28	-0.31	3.012	0.25
846	5.562	CIB	3.25	-0.21	3.04	0.25
926	5.563	PWUELL	2.74	1.11	3.024	0.23
846	5.564	CIB	3.17	-0.35	2.974	0.24
588	5.5654	CIB	2.68	0.9	2.984	0.21
846	5.566	CIB	3.03	-0.24	3.104	-0.1
846	5.568	CIB	3.3	-0.35	3.086	0.12
846	5.57	CIB	3.34	-0.44	3.206	-0.16
959	5.57	CIB	3.08	0.75	3.186	0.13
846	5.571	CIB	3.28	-0.5	3.188	0.14
926	5.571	PWUELL	2.93	1.18	3.156	0.21
846	5.573	CIB	3.31	-0.3	3.16	0.27
846	5.574	CIB	3.18	-0.06	3.092	0.33
926	5.575	PWUELL	3.1	1.02	3.114	0.09
846	5.576	CIB	2.94	-0.2	3.068	0.13
846	5.577	CIB	3.04	-0.02	3.038	0.11
846	5.578	CIB	3.08	-0.11	2.998	-0.16
846	5.58	CIB	3.03	-0.14	3.008	-0.18
846	5.581	CIB	2.9	-0.33	3	0.02
846	5.583	CIB	2.99	-0.32	3.012	-0.01
926	5.583	PWUELL	3	1.02	3.034	-0.03
846	5.584	CIB	3.14	-0.28	3.082	0.15
846	5.585	CIB	3.14	-0.22	3.012	0.23
959	5.585	CIB	3.14	0.55	3.028	0.26
846	5.587	CIB	2.64	0.06	3.004	0.28
926	5.587	PWUELL	3.08	1.19	2.998	0.26
846	5.588	CIB	3.02	-0.18	2.99	0.09
846	5.589	CIB	3.11	-0.31	3.056	0.34
846	5.591	CIB	3.1	-0.31	3.042	0.08
926	5.591	PWUELL	2.97	1.3	3.098	0.21
846	5.592	CIB	3.01	-0.12	3.092	0.23
959	5.592	CIB	3.3	0.5	3.068	0.26
846	5.593	CIB	3.08	-0.21	3.082	-0.04
846	5.594	CIB	2.98	-0.18	3.106	-0.05
846	5.595	CIB	3.04	-0.19	3.012	-0.22
846	5.597	CIB	3.13	-0.17	3.018	-0.2
846	5.598	CIB	2.83	-0.33	3.086	-0.09
846	5.599	CIB	3.11	-0.15	3.11	-0.09
959	5.599	CIB	3.32	0.41	2.934	0.14
846	5.6	CIB	3.16	-0.2	2.976	0.17
926	5.6	PWUELL	2.25	0.97	2.946	0.16
846	5.601	CIB	3.04	-0.17	2.884	0.05
846	5.603	CIB	2.96	-0.2	2.72	0.35
846	5.604	CIB	3.01	-0.15	2.836	0.1
926	5.604	PWUELL	2.34	1.28	2.768	0.36
846	5.605	CIB	2.83	-0.25	2.724	0.36
588	5.606	CIB	2.7	1.12	2.662	0.32
846	5.606	CIB	2.74	-0.18	2.734	0.27
846	5.608	CIB	2.7	-0.35	2.792	0.48
926	5.608	CIB	2.7	1.03	2.798	0.2

959	5.608	CIB	3.12	0.78	2.898	0.19
846	5.609	CIB	2.73	-0.29	2.926	0.21
846	5.61	CIB	3.24	-0.24	2.948	-0.06
846	5.611	CIB	2.84	-0.25	2.87	0.03
846	5.612	CIB	2.81	-0.28	2.888	0.01
926	5.612	PWUELL	2.73	1.21	2.816	-0.02
846	5.614	CIB	2.82	-0.4	2.862	-0.01
846	5.615	CIB	2.88	-0.38	2.906	-0.03
846	5.616	CIB	3.07	-0.18	2.946	-0.06
846	5.617	CIB	3.03	-0.42	2.948	-0.07
926	5.617	CIB	2.93	1.07	2.99	-0.03
846	5.619	CIB	2.83	-0.43	3.014	0.01
846	5.619	CIB	3.09	-0.19	3.016	0.03
846	5.62	CIB	3.19	0.04	3.046	-0.23
846	5.621	CIB	3.04	-0.36	3.032	0.08
846	5.621	CIB	3.08	-0.2	3.036	0.07
926	5.621	CIB	2.76	1.09	3.008	0.04
846	5.622	CIB	3.11	-0.22	2.99	0.31
846	5.623	CIB	3.05	-0.13	2.996	0.5
959	5.624	CIB	2.95	1.02	3.042	0.22
588	5.6249	CIB	3.11	0.73	3.076	0.33
846	5.625	CIB	2.99	-0.3	3.056	0.61
846	5.625	CIB	3.28	3.02	0.28	NA
926	5.625	PWUELL	2.95	1	3.018	0.08
846	5.628	CIB	2.77	-0.32	3.062	0.05
846	5.63	CIB	3.1	-0.05	3.048	-0.02
846	5.631	CIB	3.21	-0.44	3.078	-0.3
846	5.632	CIB	3.21	-0.3	3.174	-0.3
846	5.634	CIB	3.1	-0.37	3.17	-0.34
846	5.637	CIB	3.25	-0.34	3.094	-0.12
846	5.64	CIB	3.08	-0.26	3.08	0.17
959	5.642	CIB	2.83	0.66	3.086	0.2
926	5.643	PWUELL	3.14	1.17	3.046	0.21
846	5.644	CIB	3.13	-0.24	3.052	0.23
846	5.646	CIB	3.05	-0.26	3.122	0.05
846	5.648	CIB	3.11	-0.19	3.166	-0.21
846	5.65	CIB	3.18	-0.25	3.198	-0.18
846	5.652	CIB	3.36	-0.09	3.116	0.13
846	5.654	CIB	3.29	-0.09	3.14	0.17
926	5.654	PWUELL	2.64	1.29	3.096	0.36
846	5.656	CIB	3.23	0	2.988	0.47
959	5.657	CIB	2.96	0.68	2.87	0.74
846	5.658	CIB	2.82	2.908	0.35	NA
926	5.659	PWUELL	2.7	1	2.886	0.31
846	5.66	CIB	2.83	-0.29	2.886	0.12
846	5.662	CIB	3.12	-0.16	2.906	0.22
846	5.664	CIB	2.96	-0.07	2.966	-0.04
588	5.6655	CIB	2.92	0.63	3.016	-0.05
846	5.666	CIB	3	-0.31	2.928	0.23
846	5.668	CIB	3.08	-0.33	2.946	0.17
926	5.669	CIB	2.68	1.24	2.992	-0.01
846	5.67	CIB	3.05	-0.39	3.042	0
846	5.671	CIB	3.15	-0.28	3.086	0.02
846	5.673	CIB	3.25	-0.25	3.118	-0.05
846	5.675	CIB	3.3	-0.23	3.116	-0.04
959	5.676	CIB	2.84	0.91	3.062	0.22
846	5.677	CIB	3.04	-0.36	3.022	0.2
926	5.678	CIB	2.88	1.04	3.04	0.17
846	5.679	CIB	3.05	-0.38	3.04	0.22
846	5.681	CIB	3.39	-0.35	3.004	0.37

926	5.682	CIB	2.84	1.13	3.102	0.09
360	5.6823	CIB	2.86	0.43	3.006	0.33
846	5.684	CIB	3.37	-0.37	2.952	0.31
754	5.6844	CIB	2.57	0.79	3.054	0.01
846	5.687	CIB	3.12	-0.44	3.142	-0.15
846	5.69	CIB	3.35	-0.34	3.128	-0.17
846	5.692	CIB	3.3	-0.4	3.246	-0.2
846	5.693	CIB	3.3	-0.46	3.264	-0.19
959	5.693	CIB	3.16	0.63	3.218	-0.18
846	5.696	CIB	3.21	-0.38	3.16	-0.19
846	5.697	CIB	3.12	-0.29	3.118	-0.29
846	5.7	CIB	3.01	-0.45	3.064	-0.28
846	5.705	CIB	3.09	-0.95	3.132	-0.2
588	5.706	CIB	2.89	0.65	3.044	0.09
846	5.712	CIB	3.55	0.05	3.102	0.14
926	5.716	CIB	2.68	1.15	3.092	0.61
846	5.72	CIB	3.3	-0.18	3.068	0.46
926	5.722	CIB	3.04	1.37	2.964	0.4
846	5.723	CIB	2.77	-0.1	3.016	0.32
846	5.724	CIB	3.03	-0.23	2.922	0.27
959	5.725	CIB	2.94	0.74	2.956	-0.05
846	5.726	CIB	2.83	-0.44	3.09	-0.17
846	5.726	CIB	3.21	-0.22	3.13	-0.21
846	5.727	CIB	3.44	-0.69	3.208	-0.51
846	5.729	CIB	3.23	-0.46	3.302	-0.53
846	5.729	CIB	3.33	-0.76	3.328	-0.68
846	5.73	CIB	3.3	3.282	-0.55	NA
846	5.73	CIB	3.34	-0.79	3.312	-0.62
846	5.731	CIB	3.21	-0.19	3.314	-0.47
846	5.732	CIB	3.38	-0.74	3.308	-0.47
846	5.733	CIB	3.34	-0.15	3.236	-0.31
846	5.734	CIB	3.27	-0.5	3.198	-0.13
846	5.735	CIB	2.98	0.05	3.174	-0.09
959	5.735	CIB	3.02	0.67	3.11	-0.13
846	5.736	CIB	3.26	-0.53	3.078	-0.01
846	5.738	CIB	3.02	-0.35	3.082	0
846	5.738	CIB	3.11	0.1	3.076	-0.18
846	5.739	CIB	3	0.13	3.012	-0.08
846	5.74	CIB	2.99	-0.26	3	-0.07
846	5.741	CIB	2.94	-0.03	2.994	-0.06
846	5.741	CIB	2.96	-0.31	3.024	-0.13
846	5.743	CIB	3.08	0.15	3.036	-0.14
846	5.743	CIB	3.15	-0.21	3.158	-0.15
846	5.745	CIB	3.05	-0.32	3.124	0.07
846	5.745	CIB	3.55	-0.04	3.116	0.05
553	5.7452	CIB	2.79	0.77	3.116	0.1
846	5.747	CIB	3.04	3.124	0.09	NA
846	5.747	CIB	3.15	0	2.99	0.09
846	5.748	CIB	3.09	-0.38	3.022	-0.14
846	5.749	CIB	2.88	-0.03	3.078	-0.09
846	5.75	CIB	2.95	3.124	-0.17	NA
846	5.75	CIB	3.32	0.05	3.082	0.17
846	5.751	CIB	3.38	-0.33	3.1	0.06
959	5.751	CIB	2.88	0.99	3.182	-0.05
846	5.752	CIB	2.97	-0.49	3.166	-0.18
846	5.752	CIB	3.36	-0.48	3.188	-0.24
846	5.753	CIB	3.24	-0.58	3.312	-0.57
846	5.753	CIB	3.49	-0.65	3.388	-0.61
846	5.753	CIB	3.5	-0.66	3.426	-0.65
846	5.754	CIB	3.35	-0.69	3.498	-0.68

846	5.754	CIB	3.55	-0.65	3.414	-0.69
846	5.754	CIB	3.6	-0.75	3.37	-0.67
846	5.755	CIB	3.07	-0.68	3.412	-0.65
846	5.755	CIB	3.28	-0.56	3.304	-0.67
846	5.755	CIB	3.56	-0.63	3.244	-0.63
846	5.756	CIB	3.01	-0.75	3.274	-0.34
846	5.756	CIB	3.3	-0.51	3.25	-0.32
926	5.756	CIB	3.22	0.74	3.122	-0.29
846	5.757	CIB	3.16	-0.45	3.118	-0.21
846	5.758	CIB	2.92	-0.49	3.042	-0.18
846	5.758	CIB	2.99	-0.33	3.002	-0.4
846	5.759	CIB	2.92	-0.36	2.962	-0.39
846	5.759	CIB	3.02	-0.35	2.97	-0.33
846	5.76	CIB	2.96	-0.41	2.976	0
846	5.76	CIB	2.96	-0.19	2.98	-0.03
926	5.76	PWUELL	3.02	1.29	2.996	0
846	5.761	CIB	2.94	-0.47	3.038	0
846	5.761	CIB	3.1	-0.21	3.044	-0.05
846	5.761	CIB	3.17	-0.44	3.04	-0.39
846	5.762	CIB	2.99	-0.43	3.06	-0.47
846	5.762	CIB	3	3.054	-0.62	NA
846	5.762	CIB	3.04	-0.8	3.036	-0.59
846	5.763	CIB	3.07	-0.82	3.118	-0.62
846	5.763	CIB	3.08	-0.32	3.102	-0.61
846	5.763	CIB	3.4	-0.53	3.12	-0.58
846	5.764	CIB	2.92	-0.57	3.042	-0.28
846	5.765	CIB	3.13	-0.66	3.058	-0.37
588	5.7655	CIB	2.68	0.69	3.056	-0.39
846	5.767	CIB	3.16	-0.79	3.108	-0.43
846	5.767	CIB	3.39	-0.61	3.068	-0.11
846	5.768	CIB	3.18	-0.77	3.14	-0.38
959	5.768	CIB	2.93	0.95	3.092	-0.33
846	5.769	CIB	3.04	-0.69	3.002	0.04
846	5.77	CIB	2.92	-0.53	2.96	0.1
926	5.77	PWUELL	2.94	1.22	3.03	-0.23
846	5.771	CIB	2.97	-0.47	3.01	0.08
846	5.771	CIB	3.28	-0.66	2.984	0.12
360	5.7719	CIB	2.94	0.86	2.996	-0.25
846	5.772	CIB	2.79	-0.37	3.04	-0.18
846	5.772	CIB	3	-0.59	3.008	-0.14
846	5.772	CIB	3.19	-0.16	3.012	-0.35
846	5.773	CIB	3.12	-0.46	2.954	-0.03
846	5.774	CIB	2.96	-0.16	2.954	0.03
926	5.774	PWUELL	2.5	1.21	2.906	0.16
846	5.776	CIB	3	-0.29	2.9	0.2
959	5.777	CIB	2.95	0.49	2.856	0.47
846	5.778	CIB	3.09	-0.24	2.926	0.15
926	5.778	PWUELL	2.74	1.17	2.91	0.14
846	5.779	CIB	2.85	-0.37	2.914	-0.03
846	5.781	CIB	2.92	-0.37	2.818	0.01
846	5.783	CIB	2.97	-0.36	2.91	-0.14
926	5.784	GYROIDIN	2.61	0	2.936	-0.16
926	5.784	PWUELL	3.2	0.4	2.95	-0.19
846	5.785	CIB	2.98	-0.48	2.928	0.07
846	5.786	CIB	2.99	-0.49	2.992	0.23
926	5.787	CIBKULL	2.86	0.9	3.024	0.35
926	5.787	PWUELL	2.93	0.81	3.124	0.65
926	5.787	PWUELL	3.36	0.99	3.222	0.96
926	5.787	PWUELL	3.48	1.05	3.254	0.59
926	5.787	PWUELL	3.48	1.05	3.292	0.16

846	5.788	CIB	3.02	-0.96	3.242	-0.2
846	5.789	CIB	3.12	-1.33	3.18	-0.5
846	5.791	CIB	3.11	-0.82	3.07	-0.79
846	5.792	CIB	3.17	-0.46	3.072	-0.71
846	5.793	CIB	2.93	-0.39	3.078	-0.61
846	5.794	CIB	3.03	-0.57	3.052	-0.3
846	5.794	CIB	3.15	-0.79	3.092	-0.06
926	5.794	CIB	3.6	1.01	3.136	0.24
926	5.794	PWUELL	2.98	0.69	3.226	0.22
926	5.794	PWUELL	3.37	0.77	3.18	0.29
846	5.795	CIB	2.8	-0.22	3.128	0.13
846	5.795	CIB	2.93	-1.04	3.09	-0.18
846	5.795	CIB	2.94	3.016	-0.58	NA
846	5.795	CIB	3.18	-0.46	3.07	-0.69
846	5.795	CIB	3.23	-0.58	3.11	-0.57
846	5.796	CIB	3.07	3.106	-0.63	NA
846	5.796	CIB	3.13	-0.67	3.062	-0.75
846	5.797	CIB	2.92	-0.8	3.014	-0.62
846	5.797	CIB	2.96	-0.95	2.99	-0.58
846	5.797	CIB	2.99	-0.04	2.972	-0.56
846	5.798	CIB	2.95	-0.44	3	-0.51
846	5.798	CIB	3.04	-0.58	3.024	-0.4
846	5.798	CIB	3.06	-0.54	3.006	-0.18
846	5.798	CIB	3.08	3.028	-0.19	NA
553	5.7987	CIB	2.9	0.84	3.038	-0.14
846	5.799	CIB	3.06	-0.47	3.048	-0.14
846	5.799	CIB	3.09	-0.37	3.076	-0.16
846	5.799	CIB	3.11	-0.55	3.068	-0.39
846	5.799	CIB	3.22	-0.27	3.038	-0.38
846	5.8	CIB	2.86	-0.27	3.004	-0.4
846	5.8	CIB	2.91	-0.46	2.974	-0.38
846	5.8	CIB	2.92	-0.45	2.942	-0.4
846	5.8	CIB	2.96	-0.47	2.986	-0.44
846	5.8	CIB	3.06	-0.34	2.996	-0.44
846	5.8	CIB	3.08	-0.49	3.03	-0.44
846	5.801	CIB	2.96	-0.44	3.062	-0.42
846	5.801	CIB	3.09	-0.44	3.086	-0.44
846	5.801	CIB	3.12	-0.37	3.074	-0.43
846	5.801	CIB	3.18	-0.46	3.108	-0.48
846	5.802	CIB	3.02	-0.46	3.054	-0.2
846	5.802	CIB	3.13	-0.66	3.008	-0.28
926	5.802	PWUELL	2.82	0.97	3.016	-0.33
846	5.803	CIB	2.89	-0.79	3.08	-0.38
846	5.803	CIB	3.22	-0.7	3.084	-0.34
846	5.803	CIB	3.34	-0.7	3.156	-0.61
846	5.804	CIB	3.15	-0.46	3.176	-0.54
846	5.804	CIB	3.18	-0.4	3.146	-0.52
846	5.805	CIB	2.99	-0.46	3.068	-0.45
846	5.805	CIB	3.07	-0.59	3.054	-0.46
846	5.806	CIB	2.95	-0.36	2.904	-0.26
846	5.806	CIB	3.08	-0.5	2.862	-0.26
588	5.8061	CIB	2.43	0.62	2.816	-0.24
846	5.807	CIB	2.78	-0.46	2.822	0
846	5.807	CIB	2.84	-0.51	2.754	0.03
926	5.807	PWUELL	2.98	0.85	2.882	-0.17
846	5.808	CIB	2.74	-0.35	2.96	-0.19
846	5.808	CIB	3.07	-0.37	3.004	-0.14
846	5.809	CIB	3.17	-0.57	3.024	-0.36
846	5.81	CIB	3.06	-0.26	3.096	-0.33
846	5.81	CIB	3.08	-0.26	3.08	-0.31

846	5.811	CIB	3.1	-0.2	3.08	-0.25
846	5.812	CIB	2.99	-0.25	3.032	-0.03
846	5.812	CIB	3.17	-0.27	2.974	-0.03
926	5.812	PWUELL	2.82	0.82	2.958	-0.05
846	5.813	CIB	2.79	-0.25	2.946	-0.06
846	5.813	CIB	3.02	-0.28	2.938	-0.09
846	5.814	CIB	2.93	-0.34	2.956	-0.33
846	5.815	CIB	3.13	-0.4	2.958	-0.08
846	5.816	CIB	2.91	-0.38	2.996	-0.09
926	5.816	CIB	2.8	1	3.046	-0.09
846	5.818	CIB	3.21	-0.31	2.968	0.19
846	5.82	CIB	3.18	-0.35	3.032	0.21
926	5.82	CIB	2.74	0.97	3.078	-0.04
846	5.822	CIB	3.23	-0.24	3.018	0.18
846	5.824	CIB	3.03	-0.26	3.008	0.18
926	5.824	CIB	2.91	0.78	3.006	0.14
846	5.826	CIB	3.13	-0.37	2.954	0.12
588	5.8277	CIB	2.73	0.79	2.936	0.13
846	5.829	CIB	2.97	-0.35	2.952	0.13
846	5.831	CIB	2.94	-0.19	2.936	0.15
926	5.831	CIB	2.99	0.76	3.016	-0.04
846	5.834	CIB	3.05	-0.25	3.02	0.22
846	5.837	CIB	3.13	-0.17	3.012	0.4
926	5.838	PWUELL	2.99	0.93	3.048	0.26
553	5.8389	CIB	2.9	0.74	3.108	0.24
846	5.84	CIB	3.17	0.06	3.08	0.26
846	5.843	CIB	3.35	-0.35	3.12	0.07
846	5.846	CIB	2.99	-0.06	3.144	-0.1
846	5.849	CIB	3.19	-0.05	3.014	0.1
846	5.851	CIB	3.02	-0.1	2.998	0.14
926	5.851	CIB	2.52	1.05	3.004	0.11
846	5.854	CIB	3.27	-0.16	2.998	0
846	5.857	CIB	3.02	-0.17	2.948	-0.05
846	5.859	CIB	3.16	-0.64	3.086	-0.37
846	5.862	CIB	2.77	-0.34	3.012	-0.15
846	5.864	CIB	3.21	-0.52	3.028	-0.22
926	5.865	PWUELL	2.9	0.93	2.982	0.02
846	5.867	CIB	3.1	-0.54	3.032	-0.05
588	5.8683	CIB	2.93	0.56	3.012	-0.11
846	5.87	CIB	3.02	-0.69	2.972	-0.14
846	5.873	CIB	3.11	-0.81	2.936	-0.16
926	5.873	CIB	2.7	0.78	2.954	-0.43
846	5.876	CIB	2.92	-0.66	2.936	-0.08
846	5.879	CIB	3.02	-0.76	2.894	-0.02
588	5.8818	CIB	2.93	1.07	2.892	-0.01
846	5.882	CIB	2.9	-0.51	2.946	0.08
926	5.882	PWUELL	2.69	0.82	2.946	0.38
846	5.885	CIB	3.19	-0.21	2.944	0.34
926	5.886	PWUELL	3.02	0.75	3.012	0.42
959	5.887	CIB	2.92	0.85	3.11	0.21
846	5.888	CIB	3.24	-0.13	3.088	0.18
846	5.89	CIB	3.18	-0.21	3.048	0.23
846	5.893	CIB	3.08	-0.36	3.08	0.02
959	5.894	CIB	2.82	0.98	3.064	-0.02
846	5.895	CIB	3.08	-0.2	3.048	-0.07
846	5.897	CIB	3.16	-0.31	3.128	-0.07
846	5.9	CIB	3.1	-0.44	3.182	-0.34
846	5.902	CIB	3.48	-0.37	3.186	-0.34
846	5.904	CIB	3.09	-0.38	3.174	-0.33
846	5.907	CIB	3.1	-0.18	3.208	-0.2

846	5.909	CIB	3.1	-0.27	3.164	-0.18
926	5.911	PWUELL	3.27	0.18	3.214	0.05
846	5.912	CIB	3.26	-0.23	3.196	0.02
959	5.912	CIB	3.34	0.75	3.168	0.18
846	5.914	CIB	3.01	-0.34	3.14	0.07
926	5.916	PWUELL	2.96	0.53	3.116	0.04
846	5.917	CIB	3.13	-0.36	3.082	-0.18
846	5.919	CIB	3.14	-0.38	3.014	0.07
846	5.922	CIB	3.17	-0.37	3.058	-0.11
926	5.922	PWUELL	2.67	0.91	3.062	-0.09
846	5.924	CIB	3.18	-0.34	2.994	0.16
846	5.927	CIB	3.15	-0.26	2.944	0.37
588	5.928	CIB	2.89	1.1	3.018	0.47
926	5.928	PWUELL	2.8	0.88	2.988	0.41
959	5.928	CIB	2.92	0.68	2.998	0.44
846	5.929	CIB	3.23	-0.19	3.022	0.45
846	5.932	CIB	3.25	-0.12	3.052	0.5
553	5.9326	CIB	2.82	0.76	3.112	0.28
926	5.933	PWUELL	3.07	0.96	3.07	0.3
846	5.934	CIB	3.19	-0.02	3.004	0.53
846	5.937	CIB	3.02	-0.06	3.082	0.37
926	5.937	CIB	2.92	1	3.12	0.17
846	5.939	CIB	3.21	-0.01	3.024	0.29
846	5.942	CIB	3.26	-0.08	3.006	0.23
926	5.942	CIB	2.71	0.61	3.012	-0.03
846	5.944	CIB	2.93	-0.35	2.95	-0.08
846	5.947	CIB	2.95	-0.3	2.884	-0.08
846	5.949	CIB	2.9	-0.27	2.962	-0.28
846	5.95	CIB	2.93	-0.1	3.118	-0.04
846	5.951	CIB	3.1	-0.4	3.12	-0.03
926	5.952	CIB	3.71	0.87	3.136	0.15
846	5.953	CIB	2.96	-0.26	3.188	0.12
553	5.9548	CIB	2.98	0.64	3.16	0.41
846	5.955	CIB	3.19	-0.23	3.014	0.19
926	5.957	CIB	2.96	1.05	3.018	0.22
846	5.958	CIB	2.98	-0.23	3.04	0.03
846	5.96	CIB	2.98	-0.15	3.042	0.18
846	5.963	CIB	3.09	-0.27	3.054	-0.09
360	5.9636	CIB	3.2	0.52	3.082	0.12
846	5.966	CIB	3.02	-0.34	3.104	0.11
926	5.967	PWUELL	3.12	0.83	3.11	0.13
846	5.968	CIB	3.09	-0.2	3.116	0.02
846	5.971	CIB	3.12	-0.16	3.106	0.05
846	5.973	CIB	3.23	-0.03	3.032	0.03
846	5.975	CIB	2.97	-0.21	3	0.29
588	5.9766	CIB	2.75	0.75	2.994	0.31
926	5.977	PWUELL	2.93	1.1	2.978	0.43
846	5.978	CIB	3.09	-0.08	3.008	0.47
959	5.979	CIB	3.15	0.61	3.074	0.27
846	5.981	CIB	3.12	-0.04	3.092	0.28
846	5.982	CIB	3.08	-0.23	3.022	0.26
926	5.982	PWUELL	3.02	1.15	2.926	0.25
846	5.985	CIB	2.74	-0.21	2.876	0.46
846	5.988	CIB	2.67	0.57	2.864	0.47
608	5.99	CIB	2.87	1.04	2.764	0.46
846	5.99	CIB	3.02	-0.22	2.844	0.45
926	5.99	PWUELL	2.52	1.13	2.918	0.3
846	5.991	CIB	3.14	-0.25	2.98	0.02
846	5.992	CIB	3.04	-0.22	3.046	0.12
846	5.994	CIB	3.18	-0.32	3.176	-0.12

926	5.994	PWUELL	3.35	0.27	3.194	0
846	5.995	CIB	3.17	-0.09	3.172	0.04
959	5.995	CIB	3.23	0.34	3.098	0.29
846	5.998	CIB	2.93	-0.02	2.962	0.34
926	5.998	CIB	2.81	0.95	2.974	0.34
846	6	CIB	2.67	0.51	2.924	0.39
846	6.002	CIB	3.23	-0.1	2.924	0.4
926	6.002	CIB	2.98	0.6	2.962	0.21
846	6.003	CIB	2.93	0.03	3.03	0.24
846	6.004	CIB	3	0.01	3.022	0.28
959	6.005	CIB	3.01	0.67	3.036	0.16
846	6.006	CIB	3.19	0.08	3.046	0.32
846	6.007	CIB	3.05	-0.01	3.028	0.47
926	6.007	PWUELL	2.98	0.85	3.05	0.4
553	6.0076	CIB	2.91	0.75	2.994	0.36
846	6.009	CIB	3.12	0.35	2.976	0.34
846	6.01	CIB	2.91	-0.15	2.94	0.15
846	6.012	CIB	2.96	-0.08	2.918	-0.07
846	6.013	CIB	2.8	-0.13	2.892	-0.2
846	6.015	CIB	2.8	-0.34	2.852	0.03
846	6.016	CIB	2.99	-0.31	2.884	-0.05
754	6.0178	CIB	2.71	1.03	2.95	-0.12
846	6.018	CIB	3.12	-0.48	2.926	0.02
846	6.019	CIB	3.13	-0.51	2.95	-0.07
926	6.019	CIB	2.68	0.35	3.018	-0.38
846	6.021	CIB	3.11	-0.74	3.012	-0.41
846	6.022	CIB	3.05	-0.5	2.994	-0.44
846	6.022	CIB	3.09	-0.63	3.09	-0.6
846	6.023	CIB	3.04	-0.67	3.062	-0.52
846	6.024	CIB	3.16	-0.44	3.05	-0.26
846	6.025	CIB	2.97	-0.36	3.068	-0.06
926	6.025	CIB	2.99	0.79	3.038	0.24
360	6.0252	CIB	3.18	0.38	2.906	0.51
553	6.0252	CIB	2.89	0.85	2.866	0.52
588	6.0252	CIB	2.5	0.9	2.87	0.32
846	6.026	CIB	2.77	-0.31	2.826	0.18
846	6.028	CIB	3.01	-0.23	2.838	0.21
846	6.029	CIB	2.96	-0.3	2.978	-0.02
926	6.03	CIB	2.95	0.99	3.044	0.02
846	6.031	CIB	3.2	-0.24	3.038	0.05
846	6.032	CIB	3.1	-0.11	3.068	0.11
846	6.033	CIB	2.98	-0.1	3.028	-0.09
846	6.035	CIB	3.11	-0.01	3.006	-0.03
846	6.036	CIB	2.75	0.02	2.97	0.11
846	6.038	CIB	3.09	0.03	3.018	0.12
959	6.038	CIB	2.92	0.6	2.968	0.3
846	6.039	CIB	3.22	-0.02	2.99	0.29
926	6.04	PWUELL	2.86	0.85	2.956	0.26
846	6.041	CIB	2.86	0.01	3.04	0.06
846	6.043	CIB	2.92	-0.15	3.038	0.07
846	6.044	CIB	3.34	-0.39	3.062	0.06
846	6.046	CIB	3.21	0.01	3.112	0.06
926	6.046	CIB	2.98	0.83	3.108	0.1
846	6.048	CIB	3.11	-0.01	3.04	0.14
846	6.049	CIB	2.9	0.04	3.024	0.28
846	6.051	CIB	3	-0.19	3.064	0.1
926	6.051	PWUELL	3.13	0.74	3.062	0.06
846	6.052	CIB	3.18	-0.1	3.034	0.17
846	6.054	CIB	3.1	-0.19	3.022	0.17
959	6.054	CIB	2.76	0.59	2.968	0.29

846	6.055	CIB	2.94	-0.17	2.87	0.3
926	6.056	PWUELL	2.86	1.34	2.81	0.33
846	6.057	CIB	2.69	-0.05	2.802	0.18
846	6.058	CIB	2.8	-0.08	2.728	0.18
846	6.059	CIB	2.72	-0.15	2.678	-0.1
846	6.06	CIB	2.57	-0.17	2.714	-0.14
846	6.06	CIB	2.61	-0.06	2.766	-0.16
846	6.061	CIB	2.87	-0.22	2.796	-0.17
846	6.062	CIB	3.06	-0.22	2.846	0.02
846	6.064	CIB	2.87	-0.2	2.922	0.02
926	6.066	CIB	2.82	0.82	2.9	0.18
846	6.067	CIB	2.99	-0.09	2.888	0.38
553	6.0692	CIB	2.76	0.6	2.902	0.41
959	6.07	CIB	3	0.78	2.916	0.45
846	6.071	CIB	2.94	-0.06	2.872	0.45
926	6.071	PWUELL	2.89	1	2.862	0.31
846	6.072	CIB	2.77	-0.05	2.782	0.32
846	6.073	CIB	2.71	-0.13	2.76	0.23
588	6.0738	CIB	2.6	0.82	2.722	0.01
846	6.074	CIB	2.83	-0.48	2.75	0.02
846	6.075	CIB	2.7	-0.12	2.84	0.19
846	6.075	CIB	2.91	-0.01	2.852	-0.02
926	6.075	CIB	3.16	0.74	2.844	0.02
846	6.077	CIB	2.66	-0.23	2.942	0.2
846	6.079	CIB	2.79	-0.28	2.974	0.13
926	6.08	PWUELL	3.19	0.79	2.918	-0.07
846	6.083	CIB	3.07	-0.38	3.01	0.24
846	6.085	CIB	2.88	-0.26	3.058	0.24
926	6.085	PWUELL	3.12	1.32	3.03	0.11
846	6.087	CIB	3.03	-0.25	3.04	0.05
846	6.088	CIB	3.05	3.004	0.06	NA
846	6.089	CIB	3.12	-0.62	2.992	0.05
846	6.09	CIB	2.7	-0.2	2.974	0.15
926	6.09	PWUELL	3.06	1.27	2.998	0.21
846	6.092	CIB	2.94	2.922	0.69	NA
360	6.0922	CIB	3.17	0.4	2.98	0.63
926	6.094	PWUELL	2.74	1.27	2.944	0.29
846	6.095	CIB	2.99	-0.41	2.964	0.15
846	6.098	CIB	2.88	-0.09	2.908	0.33
846	6.099	CIB	3.04	-0.43	2.942	0.02
926	6.099	PWUELL	2.89	1.32	2.944	0.04
846	6.101	CIB	2.91	-0.3	2.95	0.08
846	6.103	CIB	3	-0.28	3.014	0.34
846	6.104	CIB	2.91	2.974	0.21	NA
926	6.104	PWUELL	3.36	0.61	2.988	0.23
959	6.105	CIB	2.69	0.8	2.994	0.13
846	6.106	CIB	2.98	-0.21	2.93	0.27
846	6.109	CIB	3.03	-0.7	2.858	0.18
926	6.109	CIB	2.59	0.83	2.908	0.13
846	6.112	CIB	3	2.916	0.24	NA
926	6.114	CIB	2.94	0.59	2.89	0.71
846	6.115	CIB	3.02	2.924	-0.04	NA
846	6.118	CIB	2.9	2.934	0.23	NA
846	6.119	CIB	2.76	-0.66	2.944	-0.09
926	6.119	PWUELL	3.05	0.76	2.882	0.17
846	6.121	CIB	2.99	-0.36	2.896	0.05
588	6.1224	CIB	2.71	0.93	2.946	0.3
846	6.123	CIB	2.97	-0.44	2.95	0.3
959	6.123	CIB	3.01	0.61	2.994	0.23
926	6.124	PWUELL	3.07	0.78	3.14	0.06

846	6.125	CIB	3.21	-0.73	3.122	0.47
846	6.128	CIB	3.44	3.088	0.43	NA
926	6.13	PWUELL	2.88	1.23	3.154	0.31
959	6.131	CIB	2.84	0.42	3.096	0.74
846	6.133	CIB	3.4	3.066	0.32	NA
553	6.1348	CIB	2.92	0.57	3.086	0.33
846	6.136	CIB	3.29	-0.95	3.08	0.52
926	6.136	PWUELL	2.98	1.28	2.924	0.63
926	6.142	PWUELL	2.81	1.18	2.91	0.68
926	6.148	NUT	2.62	1.07	2.838	1.06
608	6.149	CIB	2.85	0.81	2.85	1.08
926	6.153	PWUELL	2.93	0.98	2.814	1
926	6.159	PWUELL	3.04	1.38	2.802	1.02
588	6.1642	CIB	2.63	0.74	2.814	0.98
926	6.165	PWUELL	2.56	1.21	2.782	1
959	6.165	CIB	2.91	0.58	2.676	0.81
926	6.171	PWUELL	2.77	1.1	2.672	0.81
959	6.18	CIB	2.51	0.4	2.668	0.74
588	6.1823	CIB	2.61	0.75	2.554	0.77
926	6.183	CIB	2.54	0.88	2.576	0.67
926	6.189	CIB	2.34	0.72	2.712	0.64
926	6.195	PWUELL	2.88	0.59	2.736	0.69
959	6.199	CIB	3.19	0.28	2.778	0.75
926	6.203	CIB	2.73	0.97	2.864	0.69
926	6.211	PWUELL	2.75	1.17	2.736	0.7
959	6.215	CIB	2.77	0.43	2.742	0.72
926	6.218	NUT	2.24	0.63	2.712	0.7
360	6.2199	CIB	3.22	0.4	2.738	0.71
588	6.2211	CIB	2.58	0.85	2.702	0.84
926	6.225	PWUELL	2.88	1.26	2.826	0.82
926	6.231	PWUELL	2.59	1.04	2.788	0.99
959	6.232	CIB	2.86	0.53	2.81	0.99
926	6.244	PWUELL	3.03	1.26	2.806	0.86
959	6.248	CIB	2.69	0.84	2.88	0.91
553	6.2483	CIB	2.86	0.63	2.918	1.05
926	6.25	PWUELL	2.96	1.31	2.868	0.91
926	6.256	PWUELL	3.05	1.23	2.868	0.82
959	6.258	CIB	2.78	0.55	2.866	0.95
588	6.2599	CIB	2.69	0.4	2.844	0.85
926	6.262	PWUELL	2.85	1.26	2.804	0.73
926	6.273	CIB	2.85	0.79	2.826	0.75
959	6.274	CIB	2.85	0.63	2.846	0.85
608	6.2767	CIB	2.89	0.66	2.932	0.76
926	6.279	PWUELL	2.79	0.91	2.876	0.75
926	6.285	PWUELL	3.28	0.81	2.908	0.75
926	6.291	PWUELL	2.57	0.73	2.83	0.75
959	6.291	CIB	3.01	0.63	2.802	0.74
926	6.295	PWUELL	2.5	0.66	2.656	0.77
926	6.301	PWUELL	2.65	0.88	2.712	0.79
926	6.306	PWUELL	2.55	0.95	2.644	0.82
959	6.306	CIB	2.85	0.84	2.7	0.82
588	6.3077	CIB	2.67	0.77	2.716	0.82
926	6.312	PWUELL	2.78	0.64	2.796	0.8
926	6.317	PWUELL	2.73	0.88	2.786	0.82
553	6.3192	CIB	2.95	0.85	2.768	0.83
959	6.325	CIB	2.8	0.98	2.812	0.81
926	6.327	PWUELL	2.58	0.82	2.888	0.72
926	6.332	PWUELL	3	0.52	2.862	0.78
360	6.3334	CIB	3.11	0.44	2.772	0.78
926	6.337	PWUELL	2.82	1.15	2.836	0.77

926	6.342	PWUELL	2.35	0.97	2.838	0.91
959	6.342	CIB	2.9	0.79	2.694	0.99
926	6.347	PWUELL	3.01	1.19	2.69	0.99
754	6.3511	CIB	2.39	0.87	2.794	1.02
926	6.353	PWUELL	2.8	1.11	2.784	0.93
926	6.358	PWUELL	2.87	1.16	2.716	0.86
959	6.358	CIB	2.85	0.33	2.816	0.82
588	6.3582	CIB	2.67	0.83	2.828	0.85
608	6.3618	CIB	2.89	0.69	2.818	0.84
926	6.363	PWUELL	2.86	1.26	2.694	0.97
926	6.369	PWUELL	2.82	1.08	2.722	0.92
926	6.374	CIB	2.23	1	2.652	0.96
959	6.376	CIB	2.81	0.59	2.618	0.82
926	6.379	CIB	2.54	0.87	2.642	0.79
959	6.384	CIB	2.69	0.58	2.802	0.72
926	6.385	PWUELL	2.94	0.93	2.82	0.74
959	6.4	CIB	3.03	0.63	2.918	0.58
926	6.405	PWUELL	2.9	0.7	2.998	0.5
360	6.4067	CIB	3.03	0.06	2.936	0.47
360	6.4067	CIB	3.09	0.17	2.924	0.53
588	6.4087	CIB	2.63	0.81	2.902	0.51
926	6.41	PWUELL	2.97	0.91	2.888	0.61
926	6.416	CIB	2.79	0.59	2.806	0.76
959	6.418	CIB	2.96	0.56	2.902	0.76
926	6.422	PWUELL	2.68	0.95	2.864	0.77
926	6.427	PWUELL	3.11	0.8	2.894	0.77
926	6.431	CIBKULL	2.78	0.96	2.82	0.78
959	6.433	CIB	2.94	0.6	2.842	0.7
926	6.435	PWUELL	2.59	0.61	2.826	0.76
926	6.44	PWUELL	2.79	0.53	2.87	0.77
926	6.445	PWUELL	3.03	1.12	2.848	0.84
926	6.45	PWUELL	3	0.99	2.906	1
959	6.45	CIB	2.83	0.97	2.968	0.82
926	6.455	PWUELL	2.88	1.38	2.984	0.52
360	6.4603	CIB	3.1	-0.38	2.966	0.5
360	6.4603	CIB	3.11	-0.34	2.972	0.54
608	6.4603	CIB	2.91	0.86	2.85	0.47
926	6.461	PWUELL	2.86	1.19	2.79	0.76
926	6.466	PWUELL	2.27	1.02	2.6	1.1
959	6.467	CIB	2.8	1.06	2.606	1.13
926	6.471	PWUELL	2.16	1.37	2.544	1.06
926	6.477	PWUELL	2.94	1.02	2.67	1.07
588	6.4795	CIB	2.55	0.82	2.66	1
926	6.482	PWUELL	2.9	1.09	2.788	0.97
959	6.483	CIB	2.75	0.72	2.718	0.98
926	6.487	PWUELL	2.8	1.19	2.764	1.03
926	6.493	PWUELL	2.59	1.07	2.776	0.95
926	6.498	PWUELL	2.78	1.08	2.832	0.85
608	6.4987	CIB	2.96	0.69	2.846	0.84
959	6.501	CIB	3.03	0.22	2.892	0.77
926	6.504	PWUELL	2.87	1.12	2.868	0.74
959	6.51	CIB	2.82	0.72	2.856	0.79
926	6.517	PWUELL	2.66	0.95	2.792	0.93
926	6.522	PWUELL	2.9	0.95	2.764	0.93
959	6.526	CIB	2.71	0.93	2.728	0.94
926	6.528	PWUELL	2.73	1.08	2.718	0.96
588	6.53	CIB	2.64	0.81	2.676	0.98
926	6.538	PWUELL	2.61	1.02	2.71	1.01
959	6.542	CIB	2.69	1.05	2.822	0.86
926	6.544	PWUELL	2.88	1.07	2.896	0.86

360	6.5447	CIB	3.29	0.35	2.882	0.81
608	6.5523	CIB	3.01	0.79	2.876	0.78
926	6.555	PWUELL	2.54	0.77	2.878	0.69
926	6.56	PWUELL	2.66	0.9	2.712	0.78
959	6.56	CIB	2.89	0.65	2.678	0.78
926	6.565	PWUELL	2.46	0.78	2.814	0.74
926	6.576	PWUELL	2.84	0.82	2.828	0.7
959	6.577	CIB	3.22	0.56	2.806	0.77
588	6.5787	CIB	2.73	0.67	2.812	0.8
926	6.582	PWUELL	2.78	1.01	2.786	0.86
926	6.588	PWUELL	2.49	0.96	2.716	0.86
926	6.593	PWUELL	2.71	1.11	2.748	0.94
959	6.594	CIB	2.87	0.55	2.758	0.85
926	6.595	PWUELL	2.89	1.06	2.822	0.86
926	6.597	PWUELL	2.83	0.57	2.792	0.85
926	6.602	PWUELL	2.81	0.99	2.812	0.95
926	6.607	PWUELL	2.56	1.06	2.824	0.95
926	6.607	PWUELL	2.97	1.08	2.858	1
959	6.612	CIB	2.95	1.04	2.884	0.99
926	6.616	PWUELL	3	0.84	2.934	0.98
926	6.618	PWUELL	2.94	0.95	2.874	0.89
926	6.62	PWUELL	2.81	1.01	2.852	0.89
588	6.6225	CIB	2.67	0.6	2.84	0.92
926	6.623	PWUELL	2.84	1.07	2.834	0.9
926	6.624	PWUELL	2.94	0.97	2.83	0.89
959	6.627	CIB	2.91	0.84	2.878	0.91
926	6.628	PWUELL	2.79	0.95	2.922	0.74
926	6.628	PWUELL	2.91	0.71	2.922	0.68
360	6.629	CIB	3.06	0.25	2.904	0.71
608	6.629	CIB	2.94	0.63	2.956	0.71
926	6.632	PWUELL	2.82	1.02	2.902	0.76
926	6.632	PWUELL	3.05	0.96	2.832	0.89
926	6.636	PWUELL	2.64	0.95	2.796	0.92
926	6.637	PWUELL	2.71	0.89	2.83	0.91
959	6.637	CIB	2.76	0.79	2.834	0.87
926	6.641	PWUELL	2.99	0.98	2.904	0.9
926	6.644	PWUELL	3.07	0.75	2.942	0.88
926	6.646	PWUELL	2.99	1.1	2.948	0.89
926	6.648	PWUELL	2.9	0.78	3.014	0.73
926	6.653	PWUELL	2.79	0.83	3.004	0.74
926	6.653	PWUELL	3.32	0.18	2.986	0.69
959	6.653	CIB	3.02	0.82	2.976	0.7
926	6.657	PWUELL	2.9	0.86	2.962	0.67
926	6.662	PWUELL	2.85	0.82	2.84	0.76
926	6.671	PWUELL	2.72	0.67	2.746	0.76
959	6.671	CIB	2.71	0.65	2.736	0.74
926	6.676	PWUELL	2.55	0.79	2.746	0.68
926	6.681	PWUELL	2.85	0.78	2.698	0.77
926	6.681	PWUELL	2.9	0.53	2.688	0.72
754	6.6844	CIB	2.48	1.11	2.766	0.68
926	6.686	PWUELL	2.66	0.41	2.724	0.66
959	6.687	CIB	2.94	0.57	2.682	0.7
926	6.698	PWUELL	2.64	0.66	2.542	0.67
926	6.704	PWUELL	2.69	0.75	2.572	0.8
926	6.716	PWUELL	1.78	0.97	2.556	0.87
608	6.721	CIB	2.81	1.07	2.586	0.93
926	6.722	PWUELL	2.86	0.91	2.686	0.81
926	6.728	PWUELL	2.79	0.93	2.898	0.79
360	6.7287	CIB	3.19	0.17	2.886	0.77
926	6.733	PWUELL	2.84	0.86	2.856	0.76

926	6.739	PWUELL	2.75	0.97	2.838	0.75
926	6.751	PWUELL	2.71	0.88	2.812	0.85
926	6.758	PWUELL	2.7	0.85	2.774	0.78
926	6.764	CIBKULL	3.06	0.67	2.776	0.74
588	6.7714	CIB	2.65	0.55	2.782	0.73
926	6.772	PWUELL	2.76	0.74	2.754	0.7
926	6.777	PWUELL	2.74	0.86	2.734	0.73
926	6.784	CIB	2.56	0.69	2.74	0.81
926	6.8	PWUELL	2.96	0.83	2.712	0.88
588	6.8153	CIB	2.68	0.91	2.798	0.75
926	6.823	PWUELL	2.62	1.12	2.808	0.82
360	6.8406	CIB	3.17	0.21	2.75	0.83
926	6.844	PWUELL	2.61	1.03	2.752	0.83
926	6.848	PWUELL	2.67	0.86	2.76	0.75
926	6.852	PWUELL	2.69	0.92	2.658	0.86
588	6.8591	CIB	2.66	0.74	2.692	0.84
926	6.861	PWUEL CIB	2.66	0.75	2.702	0.9
608	6.8648	CIB	2.78	0.93	2.712	0.9
926	6.868	PWUELL	2.72	1.18	2.7	0.91
926	6.875	PWUELL	2.74	0.89	2.72	0.95
926	6.882	PWUELL	2.6	0.8	2.722	0.95
926	6.889	PWUEL CIB	2.76	0.97	2.684	0.84
926	6.896	PWUELL	2.79	0.93	2.652	0.81
588	6.9029	CIB	2.53	0.62	2.636	0.83
926	6.903	PWUEL CIB	2.58	0.72	2.588	0.79
926	6.915	PWUELL	2.52	0.92	2.608	0.73
926	6.927	PWUEL CIB	2.52	0.74	2.6	0.77
926	6.933	PWUELL	2.89	0.63	2.632	0.81
926	6.938	PWUELL	2.49	0.82	2.688	0.81
926	6.944	PWUELL	2.74	0.95	2.682	0.84
926	6.955	CIBKULL	2.8	0.9	2.588	0.88
926	6.966	PWUEL CIB	2.49	0.89	2.634	0.83
588	6.9663	CIB	2.42	0.82	2.646	0.82
926	6.971	CIBKULL	2.72	0.61	2.63	0.89
926	6.984	PWUEL CIB	2.8	0.89	2.638	0.97
926	6.997	IB	2.72	1.23	2.722	0.98
926	7.002	PWUELL	2.53	1.32	2.748	1.05
926	7.007	CIBKULL	2.84	0.83	2.678	1.12
926	7.012	CIBKULL	2.85	1	2.752	1.04
754	7.0178	CIB	2.45	1.24	2.748	1.01
926	7.022	CIBKULL	3.09	0.83	2.706	1.08
926	7.043	CIBKULL	2.51	1.15	2.678	1.12
926	7.049	PWUEL CIB	2.63	1.16	2.7	1.07
926	7.054	PWUEL CIB	2.71	1.2	2.646	1.12
926	7.06	PWUEL CIB	2.56	1.01	2.64	1.08
926	7.065	PWUELL	2.82	1.08	2.734	0.9
926	7.075	PWUEL CIB	2.48	0.95	2.822	0.7
846	7.081	CIB	3.1	0.28	2.926	0.55
846	7.082	CIB	3.15	0.2	2.862	0.54
846	7.083	CIB	3.08	0.26	2.968	0.37
588	7.0838	CIB	2.5	1	2.962	0.36
846	7.084	CIB	3.01	0.13	2.868	0.31
846	7.086	CIB	3.07	0.2	2.744	0.49
846	7.087	CIB	2.68	-0.05	2.854	0.32
926	7.087	PWUELL	2.46	1.17	2.812	0.3
846	7.088	CIB	3.05	0.13	2.772	0.22
846	7.089	CIB	2.8	0.03	2.79	0.22
846	7.09	CIB	2.87	-0.18	2.842	0.01
846	7.092	CIB	2.77	-0.04	2.8	-0.01
846	7.094	CIB	2.72	0.11	2.796	0.21

846	7.095	CIB	2.84	0.03	2.786	0.23
926	7.095	PWUELL	2.78	1.15	2.814	0.26
846	7.097	CIB	2.82	-0.11	2.9	0.22
846	7.099	CIB	2.91	0.11	2.94	0.16
846	7.101	CIB	3.15	-0.06	2.918	0.13
846	7.103	CIB	3.04	-0.3	2.986	0.2
926	7.103	PWUELL	2.67	1.03	3.006	0.23
846	7.105	CIB	3.16	0.2	2.948	0.31
846	7.107	CIB	3.01	0.29	2.916	0.42
846	7.109	CIB	2.86	0.34	2.956	0.27
846	7.11	CIB	2.88	0.26	2.924	0.3
846	7.112	CIB	2.87	0.24	2.892	0.26
846	7.115	CIB	3	0.39	2.886	0.24
846	7.116	CIB	2.85	0.05	2.874	0.24
846	7.118	CIB	2.83	0.28	2.852	0.22
846	7.12	CIB	2.82	0.25	2.844	0.15
846	7.122	CIB	2.76	0.12	2.832	0.37
846	7.124	CIB	2.96	0.04	2.888	0.33
608	7.1246	CIB	2.79	1.15	2.95	0.3
846	7.127	CIB	3.11	0.11	3.056	0.32
846	7.128	CIB	3.13	0.06	3.12	0.36
846	7.13	CIB	3.29	0.23	3.172	0.2
846	7.132	CIB	3.28	0.27	3.1	0.24
846	7.134	CIB	3.05	0.34	3.064	0.31
846	7.136	CIB	2.75	0.31	2.966	0.32
846	7.138	CIB	2.95	0.4	2.918	0.33
846	7.14	CIB	2.8	0.26	2.91	0.25
846	7.142	CIB	3.04	0.36	2.964	0.24
846	7.145	CIB	3.01	-0.09	3.006	0.2
846	7.147	CIB	3.02	0.25	3.06	0.22
846	7.149	CIB	3.16	0.2	3.094	0.15
846	7.151	CIB	3.07	0.36	3.094	0.19
846	7.153	CIB	3.21	0.02	3.028	0.4
846	7.155	CIB	3.01	0.13	3.016	0.4
926	7.156	PWUELL	2.69	1.27	3.036	0.37
846	7.157	CIB	3.1	0.21	3.016	0.41
846	7.159	CIB	3.17	0.2	3.034	0.43
846	7.161	CIB	3.11	0.22	3.072	0.18
846	7.163	CIB	3.1	0.27	2.998	0.4
846	7.165	CIB	2.88	0.02	2.958	0.4
926	7.165	CIBKULL	2.73	1.31	2.906	0.4
846	7.167	CIB	2.97	0.2	2.83	0.54
846	7.169	CIB	2.85	0.18	2.792	0.7
926	7.172	CIBKULL	2.72	1.01	2.784	0.64
588	7.1762	CIB	2.69	0.78	2.728	0.81
926	7.189	PWUELL	2.69	1.05	2.678	1.02
588	7.1916	CIB	2.69	1.02	2.638	1.02
926	7.199	IB	2.6	1.24	2.638	1.1
588	7.2071	CIB	2.52	1	2.67	1.1
926	7.209	PWUELL	2.69	1.18	2.614	1.11
926	7.22	PWUEL CIB	2.85	1.08	2.602	1.1
588	7.2303	CIB	2.41	1.05	2.572	1.11
926	7.25	PWUELL	2.54	1.17	2.574	1.07
588	7.2535	CIB	2.37	1.06	2.648	0.91
926	7.26	IB	2.7	1	2.736	0.96
360	7.2614	CIB	3.22	0.29	2.724	0.96
926	7.268	PWUELL	2.85	1.26	2.732	1
588	7.2767	CIB	2.48	1.18	2.668	1.05
926	7.277	PWUELL	2.41	1.26	2.546	1.24
926	7.285	CIBNUT	2.38	1.25	2.454	1.23

926	7.294	CIBKULL	2.61	1.27	2.43	1.23
588	7.2998	CIB	2.39	1.19	2.452	1.23
926	7.302	PWUELCIB	2.36	1.18	2.528	1.2
926	7.31	PWUELL	2.52	1.27	2.5	1.23
926	7.315	PWUELNU	2.76	1.11	2.538	1.24
926	7.326	PWUELCIB	2.47	1.38	2.556	1.25
926	7.331	CIBKULL	2.58	1.26	2.612	1.31
588	7.3354	CIB	2.45	1.24	2.646	1.26
926	7.336	PWUELL	2.8	1.54	2.642	1.24
926	7.342	PWUELL	2.93	0.87	2.628	1.27
926	7.347	PWUELCIB	2.45	1.31	2.636	1.26
926	7.353	PWUELCIB	2.51	1.37	2.61	1.16
588	7.3787	CIB	2.49	1.2	2.548	1.26
608	7.4011	CIB	2.67	1.07	2.544	1.2
754	7.4018	CIB	2.62	1.34	2.548	1.17
588	7.4019	CIB	2.43	1.01	2.674	0.99
588	7.425	CIB	2.53	1.23	2.662	0.99
360	7.4263	CIB	3.12	0.31	2.668	1.01
608	7.4839	CIB	2.61	1.06	2.784	0.92
588	7.4927	CIB	2.65	1.42	2.824	0.94
360	7.5536	CIB	3.01	0.58	2.734	1.18
608	7.5536	CIB	2.73	1.34	2.702	1.24
588	7.5828	CIB	2.67	1.48	2.732	1.24
754	7.6382	CIB	2.45	1.36	2.73	1.24
588	7.6869	CIB	2.8	1.45	2.714	1.22
360	7.6929	CIB	3	0.59	2.734	1.19
608	7.7029	CIB	2.65	1.23	2.846	1.03
588	7.7355	CIB	2.77	1.3	2.852	0.9
360	7.8024	CIB	3.01	0.59	2.762	0.97
360	7.8124	CIB	2.83	0.78	2.768	0.95
588	7.8396	CIB	2.55	0.94	2.724	0.88
754	7.8747	CIB	2.68	1.13	2.628	0.97
608	7.9141	CIB	2.55	0.97	2.588	0.92
588	7.9436	CIB	2.53	1.02	2.678	0.76
846	8.011	CIB	2.63	0.54	2.728	0.58
846	8.016	CIB	3	0.14	2.772	0.39
846	8.022	CIB	2.93	0.22	2.868	0.29
846	8.026	CIB	2.77	0.04	2.938	0.25
846	8.032	CIB	3.01	0.5	2.93	0.23
846	8.038	CIB	2.98	0.34	2.958	0.25
846	8.044	CIB	2.96	0.07	2.99	0.33
846	8.048	CIB	3.07	0.31	2.98	0.24
846	8.054	CIB	2.93	0.44	2.986	0.28
846	8.059	CIB	2.96	0.02	3.014	0.36
846	8.064	CIB	3.01	0.58	3.024	0.36
846	8.07	CIB	3.1	0.45	2.986	0.5
846	8.075	CIB	3.12	0.3	2.87	0.79
608	8.1066	CIB	2.74	1.13	2.872	0.73
754	8.1111	CIB	2.38	1.48	2.86	0.76
846	8.118	CIB	3.02	0.28	2.96	0.74
846	8.13	CIB	3.04	0.59	3.012	0.59
846	8.141	CIB	3.62	0.22	3.106	0.38
846	8.155	CIB	3	0.37	3.104	0.42
846	8.167	CIB	2.85	0.44	3.028	0.47
846	8.179	CIB	3.01	0.5	2.912	0.53
360	8.18	CIB	2.66	0.83	2.914	0.56
846	8.193	CIB	3.04	0.53	2.924	0.65
846	8.205	CIB	3.01	0.5	2.882	0.62
360	8.2076	CIB	2.9	0.89	2.876	0.69
846	8.216	CIB	2.8	0.36	2.854	0.65

553	8.2259	CIB	2.63	1.18	2.9	0.62
846	8.229	CIB	2.93	0.33	2.818	0.69
846	8.241	CIB	3.24	0.36	2.8	0.82
588	8.2421	CIB	2.49	1.2	2.886	0.64
608	8.2443	CIB	2.71	1.04	2.844	0.84
846	8.253	CIB	3.06	0.27	2.722	0.78
553	8.2535	CIB	2.72	1.32	2.834	0.62
846	8.267	CIB	2.63	0.08	2.926	0.47
846	8.278	CIB	3.05	0.4	2.79	0.65
846	8.291	CIB	3.17	0.28	2.866	0.41
588	8.3006	CIB	2.38	1.17	2.94	0.45
846	8.301	CIB	3.1	0.13	2.896	0.53
846	8.307	CIB	3	0.28	2.868	0.52
360	8.3086	CIB	2.83	0.78	2.966	0.34
846	8.31	CIB	3.03	0.24	2.936	0.36
846	8.314	CIB	2.87	0.28	2.904	0.35
846	8.316	CIB	2.95	0.22	2.936	0.26
846	8.319	CIB	2.84	0.21	2.82	0.5
846	8.321	CIB	2.99	0.34	2.85	0.52
588	8.3234	CIB	2.45	1.43	2.84	0.74
846	8.325	CIB	3.02	0.41	2.866	0.75
553	8.327	CIB	2.9	1.31	2.856	0.72
846	8.33	CIB	2.97	0.24	2.906	0.51
846	8.335	CIB	2.94	0.22	2.856	0.57
846	8.339	CIB	2.7	0.38	2.762	0.58
846	8.344	CIB	2.77	0.71	2.666	0.76
754	8.3476	CIB	2.43	1.33	2.634	0.94
588	8.3803	CIB	2.49	1.18	2.636	1.14
553	8.3821	CIB	2.78	1.1	2.642	1.29
608	8.3912	CIB	2.71	1.37	2.728	1.19
553	8.428	CIB	2.8	1.48	2.798	1.18
360	8.4372	CIB	2.86	0.84	2.83	1.13
588	8.4372	CIB	2.84	1.12	2.858	1.11
360	8.4831	CIB	2.94	0.84	2.864	1.06
608	8.4831	CIB	2.85	1.27	2.85	1.16
553	8.4923	CIB	2.83	1.25	2.88	1.07
588	8.4941	CIB	2.79	1.31	2.828	1.13
360	8.5397	CIB	2.99	0.69	2.838	1.16
608	8.5397	CIB	2.68	1.14	2.836	1.16
588	8.551	CIB	2.9	1.39	2.762	1.19
553	8.5718	CIB	2.82	1.28	2.716	1.35
754	8.584	CIB	2.42	1.45	2.722	1.42
608	8.5933	CIB	2.76	1.48	2.69	1.4
588	8.6079	CIB	2.71	1.49	2.71	1.32
553	8.6147	CIB	2.74	1.28	2.778	1.29
360	8.6575	CIB	2.92	0.91	2.772	1.24
553	8.6575	CIB	2.76	1.31	2.77	1.28
588	8.6649	CIB	2.73	1.21	2.802	1.29
608	8.6789	CIB	2.7	1.67	2.764	1.4
588	8.6876	CIB	2.9	1.35	2.778	1.43
553	8.7111	CIB	2.73	1.44	2.846	1.4
588	8.7565	CIB	2.83	1.49	2.864	1.35
360	8.7967	CIB	3.07	1.05	2.876	1.27
588	8.8284	CIB	2.79	1.41	2.9	1.27
360	8.8503	CIB	2.96	0.97	2.946	1.13
588	8.9004	CIB	2.85	1.42	2.88	1.16
360	8.913	CIB	3.06	0.82	2.874	1.1
754	8.9151	CIB	2.74	1.17	2.83	1.13
558	8.9234	CIB	2.76	1.1	2.802	1.08
608	8.9234	CIB	2.74	1.14	2.716	1.13

553	8.9442	CIB	2.71	1.16	2.724	1.16
588	8.9723	CIB	2.63	1.09	2.714	1.15
926	8.979	PWUELCIB	2.78	1.33	2.692	1.22
360	8.9858	CIB	2.71	1.02	2.674	1.28
926	8.986	PWUELCIB	2.63	1.51	2.69	1.33
926	8.992	PWUELL	2.62	1.46	2.682	1.36
926	8.999	PWUELL	2.71	1.35	2.662	1.41
926	9.005	PWUELL	2.74	1.45	2.652	1.35
926	9.012	PWUELCIB	2.61	1.27	2.67	1.28
926	9.019	CIBKULL	2.58	1.21	2.704	1.22
588	9.0202	CIB	2.71	1.1	2.746	1.14
926	9.025	CIBKULL	2.88	1.05	2.824	1.11
926	9.031	CIBKULL	2.95	1.07	2.912	1.08
360	9.0378	CIB	3	1.13	2.92	1.11
360	9.0378	CIB	3.02	1.07	2.89	1.16
926	9.038	CIBKULL	2.75	1.22	2.892	1.18
926	9.044	CIBKULL	2.73	1.3	2.822	1.22
926	9.05	CIBKULL	2.96	1.19	2.742	1.23
926	9.056	CIBKULL	2.65	1.33	2.752	1.19
563	9.0586	CIB	2.62	1.11	2.77	1.18
608	9.0586	CIB	2.8	1.04	2.702	1.19
926	9.062	CIBKULL	2.82	1.21	2.738	1.18
926	9.067	PWUELCIB	2.62	1.28	2.802	1.26
553	9.069	CIB	2.83	1.28	2.778	1.33
926	9.076	PWUELL	2.94	1.47	2.758	1.36
926	9.085	PWUELCIB	2.68	1.4	2.764	1.39
926	9.094	PWUELCIB	2.72	1.38	2.8	1.41
926	9.103	PWUELL	2.65	1.44	2.762	1.41
360	9.1046	CIB	3.01	1.37	2.77	1.39
563	9.1046	CIB	2.75	1.45	2.782	1.38
926	9.112	PWUELL	2.72	1.33	2.804	1.38
926	9.121	PWUELL	2.78	1.33	2.712	1.39
563	9.1312	CIB	2.76	1.42	2.78	1.36
926	9.147	PWUELCIB	2.55	1.41	2.866	1.35
747	9.149	CIB	3.09	1.3	2.85	1.25
747	9.149	CIB	3.15	1.28	2.846	1.23
754	9.1515	CIB	2.7	0.82	2.864	1.21
926	9.154	CIBKULL	2.74	1.32	2.796	1.24
926	9.161	PWUELCIB	2.64	1.35	2.692	1.26
926	9.167	PWUELCIB	2.75	1.41	2.65	1.35
926	9.172	PWUELL	2.63	1.42	2.6	1.36
926	9.178	PWUELCIB	2.49	1.26	2.668	1.34
926	9.183	PWUELCIB	2.49	1.34	2.698	1.27
553	9.1889	CIB	2.98	1.26	2.658	1.23
558	9.1889	CIB	2.9	1.09	2.678	1.26
563	9.1889	CIB	2.43	1.19	2.718	1.29
926	9.189	PWUELCIB	2.59	1.42	2.688	1.34
926	9.195	PWUELCIB	2.69	1.49	2.736	1.33
926	9.202	PWUELCIB	2.83	1.52	2.83	1.33
926	9.209	CIBKULL	3.14	1.05	2.872	1.31
588	9.215	CIB	2.9	1.18	2.936	1.31
926	9.216	PWUELCIB	2.8	1.33	2.864	1.24
926	9.224	CIBKULL	3.01	1.45	2.754	1.33
926	9.232	CIBKULL	2.47	1.19	2.782	1.31
926	9.24	PWUELL	2.59	1.51	2.774	1.25
588	9.2419	CIB	3.04	1.08	2.742	1.2
360	9.242	CIB	2.76	1.04	2.788	1.22
360	9.242	CIB	2.85	1.18	2.754	1.14
926	9.247	PWUELCIB	2.7	1.28	2.692	1.18
926	9.255	PWUELCIB	2.42	1.13	2.662	1.24

926	9.263	PWUELCIB	2.73	1.29	2.654	1.29
926	9.269	PWUELCIB	2.61	1.32	2.662	1.33
926	9.278	CIBKULL	2.81	1.43	2.696	1.37
926	9.283	PWUELCIB	2.74	1.47	2.694	1.4
926	9.29	PWUELCIB	2.59	1.36	2.754	1.38
926	9.297	PWUELL	2.72	1.43	2.754	1.28
926	9.303	PWUELCIB	2.91	1.22	2.698	1.22
360	9.3084	CIB	2.81	0.94	2.704	1.16
563	9.3084	CIB	2.46	1.15	2.718	1.12
608	9.3084	CIB	2.62	1.06	2.694	1.09
926	9.31	PWUELCIB	2.79	1.23	2.686	1.19
588	9.3102	CIB	2.79	1.09	2.824	1.17
926	9.317	PWUELCIB	2.77	1.44	2.896	1.15
747	9.3175	CIB	3.15	1.03	2.91	1.11
360	9.3217	CIB	2.98	0.97	2.934	1.15
553	9.3217	CIB	2.86	1.02	2.832	1.13
926	9.324	CIBKULL	2.91	1.3	2.736	1.19
926	9.331	PWUELCIB	2.26	1.34	2.708	1.24
926	9.337	PWUELCIB	2.67	1.33	2.684	1.29
926	9.343	PWUELCIB	2.84	1.22	2.636	1.19
926	9.348	PWUELCIB	2.74	1.24	2.73	1.09
563	9.3483	CIB	2.67	0.84	2.766	1.01
563	9.3483	CIB	2.73	0.81	2.75	1.06
747	9.3488	CIB	2.85	0.96	2.766	1.01
926	9.354	PWUELL	2.76	1.46	2.792	1.11
588	9.3552	CIB	2.82	1	2.76	1.18
926	9.359	CIBKULL	2.8	1.32	2.724	1.18
926	9.365	CIBKULL	2.57	1.15	2.774	1.13
926	9.37	NUT	2.67	0.98	2.794	1.15
926	9.375	CIBKULL	3.01	1.18	2.734	1.12
926	9.386	PWUELL	2.92	1.12	2.74	1.06
754	9.388	CIB	2.5	1.16	2.836	1.08
563	9.3881	CIB	2.6	0.84	2.79	1.06
747	9.3898	CIB	3.15	1.11	2.79	1.04
926	9.392	CIBKULL	2.78	1.07	2.862	1.06
926	9.397	CIBKULL	2.92	1.04	2.93	1.03
926	9.398	CIBKULL	2.86	1.22	2.85	1.04
360	9.4014	CIB	2.94	0.69	2.862	1.08
926	9.403	CIBKULL	2.75	1.19	2.834	1.08
926	9.404	CIBKULL	2.84	1.26	2.866	1.08
926	9.408	CIBKULL	2.78	1.06	2.826	1.18
926	9.41	CIBKULL	3.02	1.19	2.8	1.15
926	9.414	PWUELCIB	2.74	1.2	2.828	1.15
563	9.4147	CIB	2.62	1.03	2.83	1.18
926	9.416	PWUELL	2.98	1.27	2.826	1.12
926	9.419	PWUELCIB	2.79	1.2	2.822	1.05
747	9.4211	CIB	3	0.89	2.884	1.09
588	9.4228	CIB	2.72	0.88	2.792	1.05
926	9.425	CIBKULL	2.93	1.2	2.758	1.04
563	9.428	CIB	2.52	1.06	2.674	1.12
926	9.431	PWUELCIB	2.62	1.17	2.634	1.2
926	9.435	PWUELL	2.58	1.28	2.57	1.16
926	9.437	PWUELCIB	2.52	1.27	2.634	1.16
563	9.442	CIB	2.61	1.04	2.718	1.12
926	9.447	CIBKULL	2.84	1.04	2.75	1.11
926	9.454	CIBKULL	3.04	0.98	2.854	1.05
926	9.461	PWUELL	2.74	1.2	2.888	1.01
747	9.462	CIB	3.04	1	2.876	1.02
360	9.463	CIB	2.78	0.82	2.796	1.01
926	9.469	CIBKULL	2.78	1.08	2.788	0.95

553	9.47	CIB	2.64	0.93	2.694	0.96
553	9.47	CIB	2.7	0.94	2.63	1.02
926	9.477	CIBKULL	2.57	1.05	2.582	1.07
563	9.484	CIB	2.46	1.12	2.574	1.02
926	9.484	PWUELCIB	2.54	1.29	2.546	1.06
588	9.4902	CIB	2.6	0.72	2.634	1.02
926	9.492	PWUELCIB	2.56	1.12	2.674	1
747	9.4933	CIB	3.01	0.87	2.728	0.98
563	9.4994	CIB	2.66	1.01	2.748	1.08
926	9.5	PWUELCIB	2.81	1.18	2.754	1.08
926	9.506	PWUELL	2.7	1.22	2.616	1.17
563	9.5078	CIB	2.59	1.14	2.622	1.18
926	9.513	PWUELCIB	2.32	1.31	2.542	1.1
558	9.5162	CIB	2.69	1.07	2.55	1.06
608	9.5162	CIB	2.41	0.78	2.582	1.04
926	9.52	CIBKULL	2.74	1.02	2.608	1
926	9.527	PWUELCIB	2.75	1	2.63	0.97
563	9.5331	CIB	2.45	1.12	2.782	1.03
926	9.534	PWUELCIB	2.8	0.95	2.812	1.06
747	9.5342	CIB	3.17	1.06	2.822	1.05
926	9.54	PWUELL	2.89	1.15	3.056	1.01
553	9.5415	CIB	2.8	0.99	3.012	1.01
926	9.548	CIBKULL	3.62	0.89	2.862	0.8
563	9.5499	CIB	2.58	0.96	2.77	0.72
926	9.555	GYROIDIN	2.42	0	2.76	0.75
588	9.5578	CIB	2.43	0.78	2.618	0.8
563	9.5583	CIB	2.75	1.1	2.712	0.82
926	9.563	PWUELCIB	2.91	1.14	2.754	1.02
747	9.5655	CIB	3.05	1.07	2.842	1.07
608	9.5668	CIB	2.63	1.01	2.792	1.05
926	9.571	PWUELL	2.87	1.02	2.772	1.02
563	9.5752	CIB	2.5	1.03	2.736	0.97
926	9.579	PWUELCIB	2.81	0.98	2.74	0.97
360	9.5836	CIB	2.87	0.83	2.778	0.98
926	9.586	PWUELCIB	2.65	0.98	2.836	0.98
747	9.592	CIB	3.06	1.06	2.794	1.02
926	9.602	CIBKULL	2.79	1.05	2.758	1.08
926	9.61	CIBKULL	2.6	1.16	2.712	1.04
926	9.61	PWUELL	2.69	1.17	2.65	1.05
588	9.611	CIB	2.42	0.75	2.564	1.02
553	9.6168	CIB	2.75	1.12	2.486	1.01
926	9.617	PWUELCIB	2.36	0.92	2.462	1
754	9.6244	CIB	2.21	1.1	2.492	1.06
926	9.625	PWUELCIB	2.57	1.1	2.434	1
563	9.6251	CIB	2.57	1.06	2.542	1.04
588	9.6287	CIB	2.46	0.8	2.658	1.03
926	9.631	PWUELL	2.9	1.15	2.682	1.05
926	9.644	PWUELL	2.79	1.03	2.712	1.05
926	9.649	PWUELL	2.69	1.22	2.792	1.1
747	9.6505	CIB	2.72	1.03	2.758	1.1
747	9.6505	CIB	2.86	1.05	2.738	1.07
926	9.655	PWUELL	2.73	1.16	2.76	1.02
926	9.66	PWUELCIB	2.69	0.9	2.764	1.04
926	9.666	PWUELCIB	2.8	0.98	2.712	1.07
926	9.672	PWUELL	2.74	1.1	2.732	1.07
608	9.6748	CIB	2.6	1.19	2.742	1.11
926	9.677	PWUELL	2.83	1.2	2.72	1.15
553	9.6831	CIB	2.74	1.1	2.72	1.2
926	9.689	CIBKULL	2.69	1.18	2.752	1.19
926	9.689	PWUELL	2.74	1.34	2.684	1.2

608	9.6914	CIB	2.76	1.13	2.65	1.21
926	9.695	PWUELL	2.49	1.25	2.656	1.22
926	9.701	PWUELL	2.57	1.13	2.594	1.11
926	9.707	PWUELL	2.72	1.25	2.588	1.13
588	9.7106	CIB	2.43	0.77	2.57	1.14
926	9.712	PWUELL	2.73	1.26	2.548	1.18
926	9.718	PWUELNU	2.4	1.28	2.53	1.14
926	9.73	PWUELL	2.46	1.35	2.598	1.22
553	9.7328	CIB	2.63	1.03	2.604	1.16
926	9.736	PWUELL	2.77	1.17	2.714	1.12
926	9.742	PWUELL	2.76	0.95	2.76	1.04
747	9.7481	CIB	2.95	1.08	2.774	1.05
563	9.7493	CIB	2.69	0.96	2.772	1.06
553	9.799	CIB	2.7	1.08	2.72	1.12
558	9.8156	CIB	2.76	1.25	2.582	1.09
563	9.8156	CIB	2.5	1.22	2.578	1.13
588	9.822	CIB	2.26	0.92	2.53	1.15
608	9.8404	CIB	2.67	1.2	2.546	1.08
754	9.8609	CIB	2.46	1.16	2.618	1.03
747	9.8749	CIB	2.84	0.91	2.71	1.08
553	9.8818	CIB	2.86	0.94	2.702	1.07
563	9.8901	CIB	2.72	1.18	2.742	1.1
608	9.9066	CIB	2.63	1.16	2.7	1.14
563	9.9149	CIB	2.66	1.31	2.654	1.17
588	9.9391	CIB	2.63	1.13	2.59	1.18
553	9.9563	CIB	2.63	1.07	2.614	1.18
563	9.9563	CIB	2.4	1.22	2.658	1.07
608	9.9729	CIB	2.75	1.17	2.646	1.04
360	9.9894	CIB	2.88	0.75	2.624	1.02
360	10.006	CIB	2.57	1.01	2.682	0.97
360	10.0226	CIB	2.52	0.96	2.674	1
553	10.0226	CIB	2.69	0.96	2.56	1.11
608	10.0226	CIB	2.71	1.3	2.642	1.13
563	10.0308	CIB	2.31	1.34	2.668	1.19
747	10.0408	CIB	2.98	1.09	2.684	1.24
563	10.0557	CIB	2.65	1.28	2.682	1.24
588	10.0562	CIB	2.77	1.21	2.762	1.11
608	10.064	CIB	2.7	1.26	2.72	1.11
360	10.0805	CIB	2.71	0.73	2.688	1.14
360	10.0805	CIB	2.77	1.09	2.702	1.13
754	10.0973	CIB	2.49	1.43	2.704	1.08
608	10.1054	CIB	2.84	1.12	2.682	1.15
360	10.1136	CIB	2.71	1.05	2.628	1.13
553	10.1219	CIB	2.6	1.04	2.636	1.06
360	10.1302	CIB	2.5	1	2.644	1
360	10.1302	CIB	2.53	1.1	2.644	0.99
558	10.1385	CIB	2.88	0.81	2.69	0.98
360	10.155	CIB	2.71	0.99	2.7	1.01
747	10.1676	CIB	2.83	0.99	2.778	1.04
588	10.1732	CIB	2.55	1.18	2.73	1.11
563	10.1799	CIB	2.92	1.23	2.742	1.11
608	10.1882	CIB	2.64	1.16	2.726	1.11
553	10.1964	CIB	2.77	0.98	2.778	1.07
563	10.2461	CIB	2.75	1.01	2.7	1.09
608	10.2461	CIB	2.81	0.96	2.588	1.09
588	10.2903	CIB	2.53	1.34	2.582	1.04
563	10.3206	CIB	2.08	1.18	2.584	1.04
360	10.3289	CIB	2.74	0.7	2.592	1.02
360	10.3289	CIB	2.76	1.03	2.624	1.01
747	10.3335	CIB	2.85	0.83	2.722	1

588	10.345	CIB	2.69	1.32	2.712	1.05
563	10.3455	CIB	2.57	1.14	2.694	1.04
360	10.3538	CIB	2.69	0.91	2.71	1.05
553	10.3538	CIB	2.67	0.99	2.72	0.94
553	10.362	CIB	2.93	0.88	2.712	0.9
608	10.3786	CIB	2.74	0.79	2.63	0.94
360	10.3869	CIB	2.53	0.95	2.614	0.91
563	10.3869	CIB	2.28	1.1	2.468	1.01
360	10.4117	CIB	2.59	0.85	2.406	0.98
754	10.4284	CIB	2.2	1.34	2.396	0.98
360	10.4448	CIB	2.43	0.68	2.448	0.95
558	10.4448	CIB	2.48	0.95	2.5	0.98
608	10.4531	CIB	2.54	0.91	2.518	0.91
747	10.4603	CIB	2.85	1	2.548	1.01
563	10.4614	CIB	2.29	1.03	2.56	1.09
588	10.4621	CIB	2.58	1.16	2.542	1.12
563	10.4697	CIB	2.54	1.37	2.55	1.13
608	10.4697	CIB	2.45	1.06	2.624	1.1
553	10.5276	CIB	2.89	1.04	2.66	1.05
608	10.5276	CIB	2.66	0.85	2.662	1.01
608	10.569	CIB	2.76	0.92	2.692	1.03
588	10.5792	CIB	2.55	1.18	2.684	1
553	10.6022	CIB	2.6	1.16	2.696	1.07
747	10.6262	CIB	2.85	0.91	2.66	1.08
553	10.6353	CIB	2.72	1.18	2.608	1.06
563	10.6601	CIB	2.58	0.99	2.642	1.06
754	10.6648	CIB	2.29	1.08	2.602	1.05
553	10.685	CIB	2.77	1.15	2.602	0.97
360	10.6932	CIB	2.65	0.86	2.564	1
608	10.6932	CIB	2.72	0.79	2.616	0.99
588	10.6963	CIB	2.39	1.1	2.598	0.89
553	10.7015	CIB	2.55	1.06	2.544	0.9
360	10.7181	CIB	2.68	0.66	2.526	0.85
563	10.7181	CIB	2.38	0.9	2.606	0.77
747	10.753	CIB	2.63	0.54	2.658	0.7
747	10.753	CIB	2.79	0.67	2.632	0.77
360	10.776	CIB	2.81	0.74	2.654	0.78
553	10.7843	CIB	2.55	1.02	2.596	0.88
563	10.7843	CIB	2.49	0.93	2.488	0.91
563	10.7926	CIB	2.34	1.03	2.466	0.96
588	10.8133	CIB	2.25	0.85	2.466	0.94
553	10.8428	CIB	2.7	0.99	2.45	1.07
563	10.8517	CIB	2.55	0.91	2.508	1.07
754	10.9013	CIB	2.41	1.55	2.598	1.04
588	10.9029	CIB	2.63	1.07	2.568	1.09
608	10.9047	CIB	2.7	0.66	2.51	1.1
588	10.914	CIB	2.55	1.26	2.606	0.94
588	10.9185	CIB	2.26	0.96	2.638	0.94
747	10.9189	CIB	2.89	0.75	2.526	0.99
563	10.9223	CIB	2.79	1.05	2.546	0.97
588	10.9297	CIB	2.14	0.95	2.526	0.96
553	10.94	CIB	2.65	1.12	2.436	0.99
588	10.9408	CIB	2.16	0.92	2.378	1.02
563	10.9498	CIB	2.44	0.91	2.384	1.09
926	10.985	PWUELCIB	2.5	1.18	2.402	1.07
588	10.9891	CIB	2.17	1.3	2.506	1.09
926	10.999	PWUELL	2.74	1.05	2.586	1.07
926	11.005	PWUELL	2.68	0.99	2.598	1.03
608	11.0067	CIB	2.84	0.85	2.632	0.98
926	11.012	PWUELCIB	2.56	0.96	2.56	0.98

926	11.019	PWUELL	2.34	1.05	2.532	0.96
926	11.026	PWUELL	2.38	1.03	2.468	0.97
926	11.033	PWUELNU	2.54	0.91	2.5	1.01
926	11.044	PWUELCIB	2.52	0.91	2.568	0.95
747	11.0457	CIB	2.72	1.15	2.606	0.96
926	11.054	PWUELL	2.68	0.74	2.536	1
926	11.061	PWUELL	2.57	1.1	2.552	1.06
926	11.069	PWUELL	2.19	1.11	2.482	1.03
926	11.076	PWUELL	2.6	1.21	2.474	1.1
926	11.084	CIB	2.37	0.97	2.454	1.12
926	11.084	PWUELL	2.64	1.1	2.558	1.11
926	11.092	PWUELCIB	2.47	1.22	2.554	1.07
926	11.092	PWUELCIB	2.71	1.07	2.602	1.13
553	11.0951	CIB	2.58	1	2.596	1.13
926	11.1	PWUELL	2.61	1.24	2.61	1.14
926	11.107	CIBKULL	2.61	1.13	2.546	1.11
926	11.112	PWUELL	2.54	1.24	2.522	1.1
926	11.118	PWUELCIB	2.39	0.96	2.472	1.07
926	11.123	CIBKULL	2.46	0.93	2.426	1.14
926	11.13	PWUELL	2.36	1.1	2.404	1.08
754	11.1377	CIB	2.38	1.47	2.46	1.08
926	11.139	PWUELL	2.43	0.95	2.388	1.17
553	11.1393	CIB	2.67	0.96	2.372	1.18
588	11.1395	CIB	2.1	1.39	2.44	1.1
926	11.147	PWUELL	2.28	1.15	2.416	1.1
608	11.1481	CIB	2.72	1.03	2.39	1.11
926	11.158	PWUELL	2.31	0.99	2.518	1.02
926	11.158	PWUELL	2.54	0.98	2.564	1.02
926	11.168	PWUELCIB	2.74	0.95	2.458	1.08
926	11.188	PWUELCIB	2.51	1.16	2.528	1.11
926	11.209	PWUELL	2.19	1.33	2.62	1.2
553	11.21	CIB	2.66	1.11	2.596	1.27
747	11.2116	CIB	3	1.47	2.718	1.15
926	11.224	CIBKULL	2.62	1.26	2.748	1.14
77	11.2299	CIB	3.12	0.58	2.71	1.19
926	11.23	PWUELCIB	2.34	1.26	2.618	1.15
926	11.238	PWUELL	2.47	1.37	2.624	1.1
926	11.245	PWUELL	2.54	1.3	2.51	1.27
553	11.2454	CIB	2.65	1.01	2.564	1.28
926	11.253	PWUELL	2.55	1.41	2.566	1.22
926	11.26	CIBKULL	2.61	1.29	2.54	1.28
563	11.2631	CIB	2.48	1.11	2.516	1.33
926	11.267	PWUELL	2.41	1.56	2.508	1.3
926	11.274	PWUELCIB	2.53	1.27	2.416	1.29
926	11.281	PWUELL	2.51	1.28	2.476	1.29
926	11.288	PWUELL	2.15	1.25	2.446	1.23
558	11.2896	CIB	2.78	1.09	2.378	1.14
588	11.29	CIB	2.26	1.25	2.37	1.09
926	11.295	PWUELCIB	2.19	0.83	2.476	1.09
926	11.3	PWUELCIB	2.47	1.03	2.406	1.1
926	11.305	PWUELL	2.68	1.23	2.458	1.04
926	11.309	PWUELCIB	2.43	1.14	2.534	1.11
926	11.314	PWUELCIB	2.52	0.98	2.608	1.17
563	11.3161	CIB	2.57	1.15	2.532	1.09
608	11.3161	CIB	2.84	1.35	2.548	1.11
926	11.319	CIBKULL	2.3	0.85	2.558	1.15
563	11.325	CIB	2.51	1.21	2.568	1.13
926	11.328	PWUELL	2.57	1.19	2.478	1.12
926	11.332	PWUELL	2.62	1.07	2.582	1.23
926	11.337	PWUELCIB	2.39	1.28	2.584	1.25

747	11.3384	CIB	2.82	1.38	2.53	1.15
926	11.347	PWUELL	2.52	1.32	2.512	1.17
553	11.3692	CIB	2.3	0.69	2.536	1.3
563	11.3692	CIB	2.53	1.16	2.538	1.19
754	11.3742	CIB	2.51	1.96	2.606	1.09
608	11.378	CIB	2.83	0.83	2.582	1.2
608	11.378	CIB	2.86	0.81	2.636	1.19
588	11.4148	CIB	2.18	1.24	2.688	1.02
608	11.4153	CIB	2.8	1.1	2.664	1.09
747	11.4412	CIB	2.77	1.13	2.574	1.16
553	11.4431	CIB	2.71	1.18	2.734	1.03
926	11.449	PWUELL	2.41	1.15	2.702	1.08
77	11.4551	CIB	2.98	0.57	2.622	1.12
563	11.4613	CIB	2.64	1.36	2.582	1.14
588	11.4639	CIB	2.37	1.36	2.67	1.11
926	11.47	PWUELL	2.51	1.26	2.56	1.22
747	11.4774	CIB	2.85	0.99	2.7	0.9
926	11.482	PWUELL	2.43	1.14	2.8	0.76
926	11.482	PWUELL	3.34	-0.27	2.762	0.75
608	11.4885	CIB	2.87	0.69	2.678	0.81
926	11.489	PWUEL CIB	2.32	1.19	2.832	0.75
926	11.489	PWUELL	2.43	1.31	2.856	0.87
926	11.489	PWUELL	3.2	0.84	2.762	0.9
926	11.497	PWUELL	3.46	0.33	2.83	0.94
926	11.504	PWUEL CIB	2.4	0.83	2.83	0.9
563	11.5067	CIB	2.66	1.41	2.738	0.94
926	11.512	PWUELL	2.43	1.09	2.578	1.15
553	11.5158	CIB	2.74	1.04	2.614	1.22
563	11.5249	CIB	2.66	1.37	2.6	1.15
926	11.528	PWUELL	2.58	1.18	2.752	1.22
926	11.535	PWUELL	2.59	1.08	2.746	1.21
747	11.5376	CIB	3.19	1.43	2.754	1.23
926	11.543	PWUELL	2.71	1	2.692	1.22
563	11.5521	CIB	2.7	1.48	2.638	1.21
926	11.557	PWUELL	2.27	1.12	2.456	1.16
926	11.572	PWUELL	2.32	1.04	2.416	1.19
588	11.5869	CIB	2.28	1.17	2.38	1.12
926	11.588	PWUEL CIB	2.51	1.16	2.382	1.14
553	11.5976	CIB	2.52	1.12	2.412	1.16
563	11.5976	CIB	2.28	1.21	2.48	1.19
926	11.599	PWUEL CIB	2.47	1.12	2.43	1.26
926	11.605	PWUELL	2.62	1.33	2.458	1.27
754	11.6106	CIB	2.26	1.51	2.538	1.32
926	11.612	PWUELL	2.66	1.19	2.54	1.41
747	11.6124	CIB	2.68	1.45	2.57	1.27
563	11.6157	CIB	2.48	1.57	2.682	1.23
608	11.6157	CIB	2.77	0.61	2.668	1.23
926	11.618	PWUELL	2.82	1.31	2.614	1.2
926	11.629	PWUELL	2.59	1.23	2.598	1.13
926	11.639	PWUEL CIB	2.41	1.26	2.522	1.26
926	11.65	PWUELL	2.4	1.22	2.47	1.23
926	11.66	PWUELL	2.39	1.28	2.466	1.19
563	11.6612	CIB	2.56	1.16	2.45	1.18
926	11.668	PWUEL CIB	2.57	1.01	2.482	1.16
926	11.675	PWUELL	2.33	1.23	2.53	1.13
553	11.6793	CIB	2.56	1.11	2.564	1.06
926	11.683	PWUELL	2.63	1.15	2.566	1.08
360	11.6884	CIB	2.73	0.8	2.66	1.05
926	11.69	PWUELL	2.58	1.09	2.682	1.1
926	11.699	PWUELL	2.8	1.09	2.708	1.04

206	11.7	CIB	2.67	1.36	2.588	1.1
360	11.7066	CIB	2.76	0.85	2.638	1.13
588	11.7098	CIB	2.13	1.13	2.666	1.18
926	11.71	PWUELL	2.83	1.21	2.614	1.17
747	11.7184	CIB	2.94	1.33	2.556	1.23
926	11.721	PWUELL	2.41	1.33	2.688	1
926	11.731	CIB	2.79	0.01	2.584	0.98
926	11.731	PWUELL	2.47	1.14	2.666	0.95
926	11.742	PWUELL	2.72	0.94	2.576	0.93
563	11.743	CIB	2.53	1.49	2.552	0.93
926	11.758	PWUEL CIB	2.37	1.07	2.468	1.17
926	11.766	PWUEL CIB	2.35	1.13	2.46	1.19
926	11.773	PWUELL	2.37	1.22	2.394	1.11
553	11.7793	CIB	2.68	1.05	2.39	1.04
926	11.781	PWUEL CIB	2.2	1.08	2.546	1.1
926	11.788	PWUEL CIB	2.35	0.71	2.626	1.03
747	11.7955	CIB	3.13	1.45	2.582	1.02
360	11.7975	CIB	2.77	0.84	2.616	1.04
563	11.7975	CIB	2.46	1.04	2.592	0.9
926	11.802	PWUELL	2.37	1.16	2.466	0.82
926	11.811	GYROIDIN	2.23	0	2.378	0.82
553	11.8157	CIB	2.5	1.08	2.434	0.81
563	11.8157	CIB	2.33	0.82	2.514	0.74
926	11.82	PWUELL	2.74	0.99	2.57	0.94
360	11.8247	CIB	2.77	0.8	2.58	0.94
926	11.825	PWUELL	2.51	0.99	2.64	0.98
608	11.8338	CIB	2.55	1.08	2.538	0.98
926	11.838	PWUELL	2.63	1.02	2.46	1.01
563	11.8429	CIB	2.23	1.03	2.408	0.97
588	11.8432	CIB	2.38	0.92	2.368	0.94
926	11.846	PWUEL CIB	2.25	0.8	2.314	0.89
563	11.8684	CIB	2.35	0.94	2.486	0.97
588	11.8972	CIB	2.36	0.77	2.49	0.96
747	11.8992	CIB	3.09	1.4	2.548	0.98
563	11.9013	CIB	2.4	0.89	2.526	0.96
553	11.9342	CIB	2.54	0.92	2.53	0.9
926	11.937	PWUELL	2.24	0.81	2.492	0.82
563	11.9424	CIB	2.38	0.46	2.43	0.75
77	11.9425	CIB	2.9	1	2.464	0.76
926	11.943	CIBKULL	2.09	0.55	2.458	0.75
608	11.9507	CIB	2.71	0.96	2.418	0.98
926	11.953	PWUEL CIB	2.21	0.78	2.272	0.96
754	11.9574	CIB	2.18	1.63	2.264	1.05
926	11.958	PWUEL CIB	2.17	0.9	2.166	1.09
926	11.963	PWUELL	2.05	1	2.226	1.3
926	11.968	PWUELL	2.22	1.13	2.34	1.21
593	11.97	CIB	2.51	1.82	2.448	1.21
747	11.9715	CIB	2.75	1.19	2.522	1.21
926	11.973	PWUELL	2.71	0.93	2.558	1.17
926	11.978	PWUEL CIB	2.42	0.97	2.528	0.99
926	11.982	PWUELL	2.4	0.93	2.442	0.97
926	11.987	PWUELL	2.36	0.92	2.372	0.95
926	11.992	PWUEL CIB	2.32	1.11	2.342	0.94
926	11.997	PWUELL	2.36	0.84	2.31	1.03
563	12	CIB	2.27	0.91	2.306	1.08
590	12	CIB	2.24	1.39	2.278	1.06
926	12.001	PWUELL	2.34	1.17	2.276	1.13
926	12.005	PWUEL CIB	2.18	1	2.276	1.14
588	12.0081	CIB	2.35	1.17	2.372	1.05
558	12.0083	CIB	2.27	0.96	2.434	1.06

206	12.01	CIB	2.72	0.94	2.426	1.04
591	12.01	CIB	2.65	1.22	2.404	1
926	12.01	PWUELL	2.14	0.91	2.476	0.92
926	12.014	PWUELL	2.24	0.98	2.5	0.92
926	12.019	CIBKULL	2.63	0.53	2.466	0.87
206	12.02	CIB	2.84	0.97	2.514	0.99
591	12.02	CIB	2.48	0.94	2.612	0.98
593	12.02	CIB	2.38	1.51	2.57	1.08
553	12.0249	CIB	2.73	0.97	2.396	1.1
926	12.027	PWUELL	2.42	1.01	2.36	1.07
590	12.03	CIB	1.97	1.09	2.316	1
563	12.0332	CIB	2.3	0.75	2.216	1.02
926	12.035	PWUELL	2.16	1.19	2.296	1.06
926	12.043	PWUELL	2.23	1.06	2.454	1.17
206	12.05	CIB	2.82	1.2	2.456	1.22
594	12.05	CIB	2.76	1.64	2.504	1.14
926	12.051	PWUELL	2.31	1.02	2.55	1.08
926	12.059	PWUELL	2.4	0.76	2.472	1.01
563	12.0665	CIB	2.46	0.77	2.356	0.95
926	12.068	PWUELL	2.43	0.87	2.446	0.88
590	12.07	CIB	2.18	1.34	2.428	1.03
591	12.08	CIB	2.76	0.66	2.368	1.12
593	12.08	CIB	2.31	1.49	2.4	1.15
926	12.084	PWUELL	2.16	1.22	2.474	1.1
608	12.0914	CIB	2.59	1.05	2.414	1.19
553	12.0997	CIB	2.55	1.06	2.456	1.13
926	12.1	PWUELL	2.46	1.12	2.534	1.08
588	12.1005	CIB	2.52	1.21	2.512	1.09
563	12.108	CIB	2.55	0.95	2.618	1.07
926	12.111	PWUELL	2.48	1.13	2.6	1.18
77	12.1294	CIB	3.08	0.93	2.582	1.14
593	12.13	CIB	2.37	1.7	2.568	1.13
563	12.134	CIB	2.43	1	2.612	1.09
563	12.1426	CIB	2.48	0.9	2.392	1.15
747	12.1534	CIB	2.7	0.94	2.478	1.15
590	12.17	CIB	1.98	1.2	2.486	1.16
594	12.17	CIB	2.8	1.71	2.444	1.27
553	12.1772	CIB	2.47	1.05	2.338	1.33
593	12.18	CIB	2.27	1.47	2.454	1.44
590	12.19	CIB	2.17	1.23	2.37	1.26
754	12.1939	CIB	2.56	1.75	2.336	1.29
563	12.2032	CIB	2.38	0.8	2.368	1.22
590	12.21	CIB	2.3	1.18	2.384	1.25
588	12.2128	CIB	2.43	1.13	2.33	1.18
590	12.24	CIB	2.25	1.4	2.422	1.25
590	12.26	CIB	2.29	1.41	2.45	1.22
747	12.2607	CIB	2.84	1.14	2.418	1.29
553	12.2724	CIB	2.44	1.03	2.47	1.34
590	12.28	CIB	2.27	1.48	2.528	1.28
594	12.29	CIB	2.51	1.64	2.468	1.25
588	12.2971	CIB	2.58	1.1	2.514	1.25
553	12.307	CIB	2.54	1	2.6	1.18
563	12.307	CIB	2.67	1.04	2.548	1.11
608	12.307	CIB	2.7	1.13	2.604	1.23
590	12.31	CIB	2.25	1.26	2.47	1.3
594	12.31	CIB	2.86	1.71	2.492	1.28
590	12.33	CIB	1.87	1.35	2.424	1.25
747	12.333	CIB	2.78	0.93	2.402	1.25
553	12.3498	CIB	2.36	1.01	2.282	1.17
590	12.36	CIB	2.14	1.26	2.43	1.13

593	12.36	CIB	2.26	1.3	2.312	1.21
588	12.3813	CIB	2.61	1.16	2.348	1.2
590	12.39	CIB	2.19	1.31	2.438	1.18
591	12.39	CIB	2.54	0.97	2.514	1.15
591	12.4	CIB	2.59	1.18	2.52	1.15
608	12.4001	CIB	2.64	1.12	2.642	1.15
563	12.4084	CIB	2.64	1.15	2.546	1.2
594	12.41	CIB	2.8	1.32	2.52	1.17
590	12.42	CIB	2.06	1.21	2.458	1.3
926	12.427	PWUELL	2.46	1.07	2.422	1.26
754	12.4303	CIB	2.33	1.74	2.332	1.24
553	12.4336	CIB	2.46	0.94	2.456	1.22
926	12.437	PWUELL	2.35	1.24	2.428	1.25
563	12.442	CIB	2.68	1.1	2.434	1.15
926	12.446	PWUEL CIB	2.32	1.22	2.44	1.13
926	12.456	PWUELL	2.36	1.24	2.49	1.14
591	12.46	CIB	2.49	0.86	2.42	1.17
926	12.466	PWUELL	2.6	1.27	2.49	1.15
926	12.475	PWUELL	2.33	1.25	2.506	1.18
563	12.4755	CIB	2.67	1.15	2.544	1.18
588	12.4826	CIB	2.44	1.37	2.528	1.18
360	12.4839	CIB	2.68	0.86	2.546	1.22
926	12.485	PWUELL	2.52	1.27	2.488	1.26
593	12.49	CIB	2.42	1.46	2.498	1.25
926	12.495	PWUELL	2.38	1.32	2.44	1.26
588	12.496	CIB	2.49	1.36	2.386	1.25
588	12.5037	CIB	2.39	0.9	2.414	1.18
926	12.504	PWUELL	2.25	1.23	2.436	1.12
588	12.5062	CIB	2.56	1.08	2.436	1.07
563	12.509	CIB	2.49	1.01	2.394	1.09
588	12.5133	CIB	2.49	1.13	2.48	1.06
926	12.514	PWUELL	2.18	1.01	2.542	1.06
360	12.5174	CIB	2.68	1.06	2.642	1.05
747	12.5187	CIB	2.87	1.09	2.644	1.06
747	12.5187	CIB	2.99	0.95	2.7	1.12
926	12.524	PWUELL	2.5	1.19	2.606	1.18
588	12.5286	CIB	2.46	1.29	2.478	1.13
593	12.53	CIB	2.21	1.39	2.348	1.16
594	12.53	CIB	2.23	0.82	2.232	1.16
926	12.533	PWUELL	2.34	1.12	2.208	1.21
590	12.54	CIB	1.92	1.2	2.316	1.15
593	12.54	CIB	2.34	1.52	2.34	1.2
563	12.5426	CIB	2.75	1.1	2.372	1.28
926	12.543	PWUELL	2.35	1.08	2.526	1.23
588	12.5432	CIB	2.5	1.48	2.552	1.14
608	12.5509	CIB	2.69	0.99	2.498	1.21
926	12.553	PWUELL	2.47	1.07	2.496	1.26
588	12.5598	CIB	2.48	1.43	2.468	1.19
593	12.56	CIB	2.34	1.35	2.456	1.14
926	12.562	PWUELL	2.36	1.13	2.378	1.2
77	12.5659	CIB	2.63	0.7	2.356	1.15
590	12.57	CIB	2.08	1.41	2.422	1.08
926	12.572	PWUELL	2.37	1.17	2.438	1.15
563	12.5761	CIB	2.67	1.01	2.362	1.25
588	12.5777	CIB	2.44	1.44	2.504	1.14
926	12.582	PWUELL	2.25	1.22	2.436	1.23
360	12.5845	CIB	2.79	0.85	2.37	1.25
590	12.59	CIB	2.03	1.63	2.358	1.24
926	12.591	PWUELL	2.34	1.11	2.416	1.27
588	12.5911	CIB	2.38	1.39	2.308	1.4

588	12.5994	CIB	2.54	1.35	2.348	1.3
593	12.6	CIB	2.25	1.51	2.382	1.26
926	12.601	PWUELL	2.23	1.14	2.43	1.23
553	12.6012	CIB	2.51	0.92	2.406	1.21
588	12.6019	CIB	2.62	1.25	2.36	1.23
588	12.6089	CIB	2.42	1.21	2.372	1.22
590	12.61	CIB	2.02	1.65	2.364	1.36
926	12.611	PWUELL	2.29	1.09	2.258	1.27
593	12.62	CIB	2.47	1.62	2.252	1.29
926	12.62	PWUEL CIB	2.09	0.8	2.31	1.12
588	12.6236	CIB	2.39	1.31	2.344	1.06
926	12.63	PWUEL CIB	2.46	0.82	2.312	1.03
926	12.63	PWUELL	2.31	0.76	2.214	1
590	12.64	CIB	1.82	1.31	2.316	1.02
594	12.64	CIB	2.58	0.93	2.374	1.04
588	12.6408	CIB	2.41	1.28	2.388	1.09
747	12.6425	CIB	2.6	0.84	2.544	1.05
926	12.644	PWUELL	2.53	1.09	2.536	1.06
926	12.644	PWUELL	2.6	1.09	2.52	1.16
563	12.649	CIB	2.54	0.98	2.456	1.21
593	12.65	CIB	2.33	1.81	2.398	1.21
594	12.65	CIB	2.28	1.08	2.37	1.23
926	12.65	CIBKULL	2.48	0.97	2.49	1.05
926	12.65	PWUEL CIB	2.24	1.11	2.358	1.23
926	12.65	PWUELL	2.46	1.17	2.372	1.11
926	12.656	PWUELL	2.4	1.21	2.548	1.06
360	12.6567	CIB	2.87	0.79	2.418	1.13
588	12.6568	CIB	2.53	1.18	2.402	1.22
590	12.66	CIB	1.81	1.52	2.396	1.19
594	12.66	CIB	2.4	1.42	2.38	1.32
926	12.661	PWUEL CIB	2.37	1.06	2.358	1.34
926	12.661	PWUEL CIB	2.79	1.43	2.46	1.39
588	12.6657	CIB	2.42	1.25	2.432	1.34
754	12.6668	CIB	2.32	1.81	2.44	1.38
926	12.667	PWUEL CIB	2.26	1.17	2.328	1.45
926	12.667	PWUELL	2.41	1.26	2.344	1.55
593	12.67	CIB	2.23	1.78	2.37	1.34
593	12.67	CIB	2.5	1.72	2.418	1.34
594	12.67	CIB	2.45	0.79	2.44	1.31
553	12.672	CIB	2.5	1.17	2.494	1.17
588	12.6727	CIB	2.52	1.08	2.45	1.04
926	12.673	PWUELL	2.5	1.09	2.59	1.16
926	12.679	PWUEL CIB	2.28	1.06	2.582	1.13
926	12.679	PWUELL	3.15	1.42	2.6	1.13
926	12.685	PWUELL	2.46	1.01	2.606	1.04
926	12.685	PWUELL	2.61	1.06	2.69	1.04
360	12.6873	CIB	2.53	0.66	2.564	0.97
563	12.6873	CIB	2.7	1.03	2.404	1.02
588	12.6874	CIB	2.52	1.07	2.334	1.12
590	12.69	CIB	1.66	1.3	2.362	1.18
593	12.69	CIB	2.26	1.52	2.322	1.23
594	12.69	CIB	2.67	0.99	2.316	1.27
588	12.6906	CIB	2.5	1.28	2.504	1.22
926	12.691	PWUEL CIB	2.49	1.24	2.502	1.14
588	12.695	CIB	2.6	1.05	2.604	1.27
926	12.696	PWUEL CIB	2.25	1.14	2.598	1.24
926	12.696	PWUELL	3.18	1.62	2.612	1.2
588	12.6976	CIB	2.47	1.14	2.484	1.25
588	12.6976	CIB	2.56	1.03	2.472	1.18
591	12.7	CIB	1.96	1.3	2.32	1.11

926	12.702	PWUELCIB	2.19	0.82	2.308	1.1
926	12.702	PWUELL	2.42	1.24	2.29	1.12
588	12.7046	CIB	2.41	1.12	2.362	1.11
926	12.708	PWUELL	2.47	1.11	2.504	1.17
588	12.7097	CIB	2.32	1.28	2.438	1.24
206	12.71	CIB	2.9	1.09	2.506	1.16
590	12.71	CIB	2.09	1.62	2.468	0.94
563	12.7103	CIB	2.75	0.72	2.722	1.01
926	12.714	GYROIDIN	2.28	0	2.65	0.94
926	12.714	PWUELCIB	3.59	1.6	2.698	0.8
360	12.718	CIB	2.54	0.76	2.64	0.84
926	12.719	PWUELCIB	2.33	0.94	2.644	1.07
926	12.719	PWUELL	2.46	0.9	2.39	0.98
588	12.7206	CIB	2.3	1.14	2.342	1
588	12.7225	CIB	2.32	1.18	2.374	1.01
926	12.725	PWUELCIB	2.3	0.84	2.27	1.12
588	12.7295	CIB	2.49	1	2.322	1.24
590	12.73	CIB	1.94	1.44	2.296	1.23
593	12.73	CIB	2.56	1.75	2.308	1.29
926	12.731	PWUELCIB	2.19	1.13	2.31	1.27
588	12.734	CIB	2.36	1.15	2.446	1.2
926	12.736	CIBKULL	2.5	0.87	2.374	1.03
563	12.741	CIB	2.62	1.09	2.442	0.98
926	12.742	PWUELCIB	2.2	0.89	2.498	0.92
926	12.747	CIBKULL	2.53	0.89	2.544	0.95
360	12.7525	CIB	2.64	0.84	2.52	0.97
926	12.753	CIBKULL	2.73	1.02	2.5	1.14
926	12.759	PWUELL	2.5	1.23	2.476	1.13
590	12.76	CIB	2.1	1.71	2.526	1.26
591	12.76	CIB	2.41	0.87	2.508	1.28
594	12.76	CIB	2.89	1.46	2.552	1.29
747	12.7662	CIB	2.64	1.13	2.642	1.2
747	12.7662	CIB	2.72	1.28	2.612	1.25
594	12.77	CIB	2.55	1.27	2.544	1.19
926	12.77	PWUELCIB	2.26	1.1	2.588	1.16
553	12.7724	CIB	2.55	1.18	2.574	1.13
608	12.7724	CIB	2.86	0.96	2.584	1.13
926	12.776	PWUELL	2.65	1.12	2.616	1.24
206	12.78	CIB	2.6	1.29	2.658	1.23
590	12.78	CIB	2.42	1.67	2.604	1.41
591	12.78	CIB	2.76	1.13	2.688	1.49
593	12.78	CIB	2.59	1.82	2.68	1.43
594	12.78	CIB	3.07	1.52	2.65	1.32
926	12.782	PWUELCIB	2.56	1.03	2.618	1.31
926	12.787	PWUELL	2.27	1.11	2.622	1.24
563	12.7893	CIB	2.6	1.09	2.514	1.03
594	12.79	CIB	2.61	1.45	2.482	1.03
77	12.7909	CIB	2.53	0.46	2.498	1
926	12.793	PWUELL	2.4	1.06	2.376	1.07
926	12.799	PWUELCIB	2.35	0.94	2.35	1.04
590	12.8	CIB	1.99	1.45	2.282	1.27
591	12.8	CIB	2.48	1.31	2.322	1.34
593	12.8	CIB	2.19	1.61	2.316	1.37
594	12.8	CIB	2.6	1.38	2.4	1.28
588	12.8016	CIB	2.32	1.09	2.414	1.23
926	12.805	PWUELCIB	2.41	1.01	2.478	1.13
594	12.81	CIB	2.55	1.04	2.408	1.06
926	12.812	PWUELL	2.51	1.13	2.398	1.06
588	12.8143	CIB	2.25	1.02	2.34	1.15
926	12.818	PWUELL	2.27	1.08	2.36	1.25

593	12.82	CIB	2.12	1.47	2.314	1.29
594	12.82	CIB	2.65	1.56	2.386	1.28
588	12.8226	CIB	2.28	1.31	2.344	1.27
563	12.823	CIB	2.61	0.99	2.386	1.2
926	12.825	PWUELL	2.06	1	2.428	1.1
588	12.8252	CIB	2.33	1.15	2.38	1.12
747	12.8281	CIB	2.86	1.04	2.386	1.12
590	12.83	CIB	2.04	1.44	2.428	1.12
591	12.83	CIB	2.64	0.97	2.524	1.12
588	12.8315	CIB	2.27	1.02	2.504	1.08
608	12.8399	CIB	2.81	1.13	2.588	0.99
206	12.84	CIB	2.76	0.82	2.49	1.11
588	12.8462	CIB	2.46	1.02	2.502	1.11
590	12.85	CIB	2.15	1.56	2.444	0.96
591	12.85	CIB	2.33	1.03	2.336	1.01
926	12.852	PWUEL CIB	2.52	0.39	2.302	1.01
926	12.857	PWUEL CIB	2.22	1.05	2.364	0.91
588	12.8641	CIB	2.29	1	2.33	1.04
926	12.867	CIBKULL	2.46	1.08	2.302	1.19
590	12.87	CIB	2.16	1.7	2.336	0.98
588	12.8781	CIB	2.38	1.13	2.33	0.78
926	12.882	GYROIDIN	2.39	0	2.304	0.89
926	12.888	GYROIDIN	2.26	0	2.318	0.71
594	12.89	CIB	2.33	1.6	2.316	0.72
563	12.8904	CIB	2.23	0.84	2.324	1.01
926	12.895	PWUEL CIB	2.37	1.14	2.274	1.36
588	12.896	CIB	2.43	1.49	2.29	1.37
590	12.9	CIB	2.01	1.73	2.376	1.48
593	12.9	CIB	2.41	1.65	2.37	1.48
594	12.9	CIB	2.66	1.37	2.346	1.52
926	12.901	PWUELL	2.34	1.17	2.38	1.39
754	12.9032	CIB	2.31	1.69	2.408	1.32
926	12.907	PWUELL	2.18	1.08	2.402	1.29
594	12.91	CIB	2.55	1.3	2.404	1.26
588	12.9106	CIB	2.63	1.2	2.44	1.16
926	12.913	PWUELL	2.35	1.05	2.496	1.17
588	12.9183	CIB	2.49	1.18	2.398	1.2
926	12.919	PWUELL	2.46	1.14	2.37	1.2
590	12.92	CIB	2.06	1.44	2.37	1.19
588	12.9208	CIB	2.49	1.18	2.296	1.16
926	12.923	PWUELL	2.35	0.99	2.282	1.16
563	12.9241	CIB	2.12	1.03	2.344	1.18
588	12.9278	CIB	2.39	1.17	2.316	1.16
593	12.93	CIB	2.37	1.52	2.36	1.18
926	12.93	PWUELL	2.35	1.09	2.402	1.21
747	12.9313	CIB	2.57	1.08	2.374	1.23
553	12.9326	CIB	2.33	1.21	2.368	1.15
926	12.937	PWUELL	2.25	1.26	2.374	1.18
926	12.943	PWUELL	2.34	1.11	2.346	1.16
588	12.9438	CIB	2.38	1.22	2.294	1.24
926	12.949	PWUELL	2.43	1.02	2.38	1.13
590	12.95	CIB	2.07	1.57	2.39	1.15
926	12.955	PWUELL	2.68	0.75	2.454	1.16
608	12.958	CIB	2.39	1.17	2.474	1.16
588	12.9591	CIB	2.7	1.3	2.554	1.08
926	12.961	PWUELL	2.53	1	2.418	1.11
926	12.966	PWUELL	2.47	1.17	2.33	1.18
563	12.9665	CIB	2	0.92	2.278	1.16
590	12.97	CIB	1.95	1.52	2.3	1.23
926	12.971	PWUELL	2.44	1.17	2.282	1.26

588	12.9738	CIB	2.64	1.37	2.368	1.32
926	12.976	PWUELL	2.38	1.31	2.45	1.24
926	12.981	PWUELL	2.43	1.22	2.354	1.31
926	12.987	PWUELL	2.36	1.14	2.238	1.36
590	12.99	CIB	1.96	1.49	2.262	1.37
590	12.99	CIB	2.06	1.64	2.262	1.34
588	12.9917	CIB	2.5	1.37	2.282	1.33
926	12.992	PWUELL	2.43	1.05	2.428	1.27
926	12.997	PWUELL	2.46	1.08	2.516	1.34
591	13	CIB	2.69	1.23	2.49	1.24
593	13	CIB	2.5	1.97	2.47	1.24
926	13.002	PWUELL	2.37	0.88	2.442	1.27
926	13.007	PWUELL	2.33	1.03	2.434	1.25
588	13.008	CIB	2.32	1.22	2.426	1.11
553	13.009	CIB	2.65	1.13	2.418	1.14
594	13.01	CIB	2.46	1.31	2.4	1.16
926	13.012	PWUELL	2.33	1.01	2.398	1.16
926	13.017	PWUELL	2.24	1.12	2.258	1.24
588	13.0176	CIB	2.31	1.24	2.248	1.37
590	13.02	CIB	1.95	1.51	2.274	1.34
593	13.02	CIB	2.41	1.99	2.296	1.37
594	13.02	CIB	2.46	0.84	2.292	1.37
588	13.0206	CIB	2.35	1.26	2.328	1.29
926	13.022	PWUELL	2.29	1.24	2.36	1.13
926	13.027	PWUEL CIB	2.13	1.13	2.306	1.2
588	13.0287	CIB	2.57	1.19	2.282	1.16
926	13.031	PWUELL	2.19	1.18	2.308	1.14
563	13.0345	CIB	2.23	1.05	2.306	1.24
926	13.035	PWUELL	2.42	1.14	2.278	1.4
590	13.04	CIB	2.12	1.64	2.338	1.36
593	13.04	CIB	2.43	1.99	2.306	1.44
926	13.041	PWUELL	2.49	0.99	2.274	1.42
588	13.0472	CIB	2.07	1.45	2.264	1.4
747	13.0551	CIB	2.26	1.01	2.26	1.39
590	13.06	CIB	2.07	1.58	2.204	1.47
593	13.06	CIB	2.41	1.92	2.248	1.42
588	13.0657	CIB	2.21	1.4	2.22	1.44
553	13.077	CIB	2.29	1.18	2.278	1.49
563	13.077	CIB	2.12	1.1	2.23	1.38
593	13.08	CIB	2.36	1.87	2.212	1.34
588	13.082	CIB	2.17	1.34	2.202	1.45
608	13.0855	CIB	2.12	1.23	2.252	1.54
590	13.09	CIB	2.24	1.7	2.256	1.38
593	13.09	CIB	2.37	1.55	2.344	1.35
926	13.096	PWUELL	2.38	1.08	2.354	1.37
926	13.101	PWUELL	2.61	1.18	2.356	1.28
588	13.1027	CIB	2.17	1.35	2.456	1.23
926	13.106	PWUELL	2.25	1.26	2.43	1.38
206	13.11	CIB	2.87	1.27	2.384	1.47
590	13.11	CIB	2.25	1.86	2.364	1.45
593	13.11	CIB	2.38	1.61	2.398	1.48
926	13.115	PWUELL	2.07	1.26	2.27	1.49
588	13.1198	CIB	2.42	1.42	2.294	1.45
926	13.123	PWUELL	2.23	1.31	2.166	1.45
588	13.1286	CIB	2.37	1.64	2.22	1.48
590	13.13	CIB	1.74	1.61	2.18	1.45
588	13.1316	CIB	2.34	1.41	2.262	1.31
926	13.132	CIBKULL	2.64	0.62	2.33	1.18
926	13.132	PWUELL	2.22	1.27	2.256	1.25
588	13.1323	CIB	2.34	1.34	2.306	1.24

553	13.1385	CIB	2.11	1.25	2.448	1.13
754	13.1397	CIB	2.22	1.74	2.458	1.34
206	13.14	CIB	2.93	0.72	2.448	1.31
594	13.14	CIB	2.69	1.65	2.508	1.3
926	13.14	PWUELL	2.29	1.2	2.526	1.23
926	13.14	PWUELL	2.41	1.21	2.36	1.37
588	13.1404	CIB	2.31	1.36	2.266	1.31
588	13.1441	CIB	2.1	1.41	2.25	1.31
588	13.1487	CIB	2.22	1.36	2.246	1.29
926	13.149	PWUELL	2.21	1.19	2.098	1.29
926	13.149	PWUELL	2.39	1.14	2.154	1.39
590	13.15	CIB	1.57	1.36	2.294	1.46
593	13.15	CIB	2.38	1.88	2.242	1.48
594	13.15	CIB	2.92	1.73	2.206	1.54
588	13.1533	CIB	1.95	1.3	2.334	1.55
588	13.1556	CIB	2.21	1.41	2.318	1.46
588	13.1574	CIB	2.21	1.41	2.182	1.31
588	13.1579	CIB	2.3	1.45	2.274	1.31
926	13.158	PWUELL	2.24	1	2.328	1.34
926	13.158	PWUELL	2.41	1.26	2.354	1.38
594	13.16	CIB	2.48	1.57	2.348	1.31
588	13.1625	CIB	2.34	1.63	2.336	1.35
926	13.167	PWUELL	2.27	1.11	2.35	1.47
588	13.1671	CIB	2.18	1.2	2.272	1.39
588	13.1717	CIB	2.48	1.85	2.25	1.34
926	13.176	PWUELL	2.09	1.17	2.244	1.38
926	13.176	PWUELL	2.23	1.38	2.272	1.45
588	13.1763	CIB	2.24	1.3	2.244	1.35
588	13.181	CIB	2.32	1.56	2.238	1.42
608	13.183	CIB	2.34	1.32	2.228	1.36
588	13.1856	CIB	2.06	1.56	2.23	1.39
926	13.186	PWUELL	2.18	1.06	2.176	1.36
926	13.186	PWUELL	2.25	1.43	2.154	1.38
588	13.1902	CIB	2.05	1.44	2.162	1.26
588	13.1948	CIB	2.23	1.4	2.166	1.3
926	13.195	PWUELL	2.1	0.98	2.106	1.27
926	13.195	PWUELL	2.2	1.24	2.11	1.34
588	13.1994	CIB	1.95	1.27	2.096	1.41
590	13.2	CIB	2.07	1.81	2.166	1.46
593	13.2	CIB	2.16	1.75	2.154	1.48
563	13.2007	CIB	2.45	1.25	2.222	1.45
926	13.203	PWUELL	2.14	1.3	2.28	1.42
926	13.203	PWUELL	2.29	1.12	2.306	1.36
588	13.204	CIB	2.36	1.7	2.222	1.36
588	13.2086	CIB	2.29	1.42	2.218	1.34
926	13.209	PWUELL	2.03	1.27	2.252	1.37
926	13.209	PWUELL	2.12	1.2	2.23	1.31
591	13.21	CIB	2.46	1.25	2.196	1.27
588	13.2132	CIB	2.25	1.42	2.222	1.28
926	13.215	PWUELL	2.12	1.19	2.264	1.39
588	13.2178	CIB	2.16	1.35	2.168	1.39
593	13.22	CIB	2.33	1.74	2.208	1.38
926	13.221	PWUELL	1.98	1.26	2.236	1.44
588	13.2224	CIB	2.45	1.35	2.256	1.47
588	13.2248	CIB	2.26	1.5	2.194	1.39
588	13.2266	CIB	2.26	1.5	2.22	1.38
926	13.227	PWUELL	2.02	1.36	2.236	1.32
588	13.2271	CIB	2.11	1.19	2.228	1.34
591	13.23	CIB	2.53	1.07	2.15	1.26
588	13.2317	CIB	2.22	1.59	2.178	1.23

926	13.233	PWUELCIB	1.87	1.1	2.146	1.24
588	13.2358	CIB	2.16	1.21	2.266	1.17
926	13.237	PWUELCIB	1.95	1.22	2.262	1.14
77	13.2394	CIB	3.13	0.75	2.262	1.27
588	13.2395	CIB	2.2	1.44	2.264	1.41
590	13.24	CIB	1.87	1.75	2.344	1.54
593	13.24	CIB	2.17	1.87	2.192	1.63
593	13.24	CIB	2.35	1.89	2.198	1.58
747	13.2408	CIB	2.37	1.2	2.302	1.47
588	13.2446	CIB	2.23	1.19	2.312	1.42
926	13.245	PWUELL	2.39	1.21	2.292	1.26
588	13.2496	CIB	2.22	1.62	2.244	1.3
591	13.25	CIB	2.25	1.09	2.19	1.32
926	13.25	PWUELL	2.13	1.38	2.122	1.38
588	13.2547	CIB	1.96	1.28	2.102	1.36
926	13.256	PWUELL	2.05	1.51	2.096	1.47
588	13.2593	CIB	2.12	1.54	2.128	1.51
593	13.26	CIB	2.22	1.66	2.172	1.53
594	13.26	CIB	2.29	1.54	2.168	1.53
926	13.262	PWUELL	2.18	1.41	2.174	1.53
588	13.2639	CIB	2.03	1.5	2.184	1.51
926	13.267	PWUELL	2.15	1.56	2.14	1.58
588	13.2685	CIB	2.27	1.53	2.18	1.56
590	13.27	CIB	2.07	1.88	2.244	1.58
591	13.27	CIB	2.38	1.33	2.244	1.52
594	13.27	CIB	2.35	1.58	2.212	1.47
563	13.2712	CIB	2.15	1.28	2.248	1.4
588	13.2727	CIB	2.11	1.29	2.284	1.4
588	13.2778	CIB	2.25	1.52	2.282	1.39
360	13.2794	CIB	2.56	1.33	2.306	1.49
591	13.28	CIB	2.34	1.54	2.374	1.55
594	13.28	CIB	2.27	1.78	2.398	1.57
594	13.28	CIB	2.45	1.6	2.27	1.56
588	13.2824	CIB	2.37	1.6	2.194	1.59
588	13.287	CIB	1.92	1.26	2.14	1.54
590	13.29	CIB	1.96	1.69	2.066	1.54
588	13.2916	CIB	2	1.55	2.008	1.54
588	13.2939	CIB	2.08	1.59	2.048	1.6
588	13.2957	CIB	2.08	1.59	2.156	1.56
588	13.2962	CIB	2.12	1.56	2.166	1.58
591	13.3	CIB	2.5	1.53	2.112	1.49
588	13.3008	CIB	2.05	1.61	2.1	1.44
588	13.3054	CIB	1.81	1.17	2.128	1.34
588	13.31	CIB	2.02	1.32	2.06	1.18
360	13.3122	CIB	2.26	1.07	2.002	1.06
563	13.3122	CIB	2.16	0.74	2.056	1.11
588	13.3146	CIB	1.76	0.99	2.028	1.17
588	13.3193	CIB	2.08	1.44	2.032	1.26
590	13.32	CIB	1.88	1.59	1.994	1.35
591	13.32	CIB	2.28	1.52	2.08	1.46
588	13.3239	CIB	1.97	1.19	2.046	1.39
588	13.3285	CIB	2.19	1.56	2.122	1.4
588	13.3331	CIB	1.91	1.08	2.046	1.44
588	13.3377	CIB	2.26	1.64	2.064	1.46
590	13.34	CIB	1.9	1.74	2.078	1.48
588	13.3423	CIB	2.06	1.3	2.272	1.51
588	13.3469	CIB	2.26	1.66	2.24	1.48
206	13.35	CIB	2.88	1.2	2.34	1.47
593	13.35	CIB	2.1	1.5	2.404	1.56
588	13.3515	CIB	2.4	1.67	2.376	1.56

926	13.353	CIBKULL	2.38	1.75	2.334	1.53
588	13.3561	CIB	2.12	1.7	2.264	1.58
206	13.36	CIB	2.67	1.01	2.202	1.57
590	13.36	CIB	1.75	1.79	2.234	1.54
588	13.3607	CIB	2.09	1.62	2.24	1.51
553	13.3613	CIB	2.54	1.58	2.18	1.56
588	13.363	CIB	2.15	1.54	2.26	1.51
747	13.3645	CIB	2.37	1.26	2.364	1.45
588	13.3649	CIB	2.15	1.54	2.234	1.38
360	13.3695	CIB	2.61	1.33	2.208	1.3
588	13.37	CIB	1.89	1.22	2.122	1.38
588	13.3704	CIB	2.02	1.17	2.14	1.44
588	13.3746	CIB	1.94	1.64	1.996	1.56
754	13.3762	CIB	2.24	1.83	2.054	1.66
590	13.38	CIB	1.89	1.94	2.12	1.81
593	13.38	CIB	2.18	1.73	2.158	1.77
593	13.38	CIB	2.35	1.91	2.088	1.7
588	13.3815	CIB	2.13	1.42	2.088	1.6
588	13.3861	CIB	1.89	1.48	2.06	1.53
588	13.3879	CIB	1.89	1.48	2.15	1.38
588	13.3884	CIB	2.04	1.36	2.17	1.44
206	13.39	CIB	2.8	1.17	2.174	1.37
594	13.39	CIB	2.23	1.69	2.236	1.29
588	13.393	CIB	1.91	1.16	2.198	1.28
558	13.3941	CIB	2.2	1.06	2.154	1.41
588	13.3976	CIB	1.85	1.3	2.11	1.32
594	13.4	CIB	2.58	1.84	2.152	1.4
588	13.4045	CIB	2.01	1.24	2.112	1.6
588	13.4068	CIB	2.12	1.56	2.162	1.66
590	13.41	CIB	2	2.04	2.086	1.6
593	13.41	CIB	2.1	1.63	2.138	1.67
594	13.41	CIB	2.2	1.53	2.176	1.73
563	13.4105	CIB	2.27	1.61	2.246	1.68
588	13.4115	CIB	2.31	1.85	2.278	1.72
588	13.4161	CIB	2.35	1.77	2.328	1.59
588	13.4193	CIB	2.26	1.82	2.338	1.65
206	13.42	CIB	2.45	0.91	2.36	1.59
594	13.42	CIB	2.32	1.89	2.3	1.66
588	13.4276	CIB	2.42	1.56	2.292	1.56
590	13.43	CIB	2.05	2.11	2.268	1.74
591	13.43	CIB	2.22	1.35	2.258	1.71
594	13.43	CIB	2.33	1.78	2.244	1.73
588	13.4345	CIB	2.27	1.74	2.29	1.74
588	13.4391	CIB	2.35	1.66	2.314	1.83
594	13.44	CIB	2.28	2.17	2.302	1.51
588	13.4437	CIB	2.34	1.81	2.414	1.33
77	13.4467	CIB	2.27	0.18	2.432	1.23
206	13.45	CIB	2.83	0.85	2.432	1.11
591	13.45	CIB	2.44	1.14	2.4	1.07
594	13.45	CIB	2.28	1.56	2.462	1.38
588	13.4506	CIB	2.18	1.64	2.298	1.51
360	13.4514	CIB	2.58	1.73	2.212	1.58
588	13.4552	CIB	2.01	1.48	2.176	1.6
588	13.4571	CIB	2.01	1.48	2.164	1.73
588	13.4576	CIB	2.1	1.66	2.042	1.63
590	13.46	CIB	2.12	2.29	2.054	1.67
591	13.46	CIB	1.97	1.24	2.014	1.64
593	13.46	CIB	2.07	1.69	2.038	1.63
594	13.46	CIB	1.81	1.31	2.042	1.51
588	13.4622	CIB	2.22	1.63	2.09	1.63

588	13.4668	CIB	2.14	1.69	2.16	1.7
588	13.4677	CIB	2.21	1.85	2.236	1.79
594	13.47	CIB	2.42	2	2.226	1.85
588	13.4737	CIB	2.19	1.8	2.204	1.96
588	13.476	CIB	2.17	1.9	2.246	1.91
590	13.48	CIB	2.03	2.26	2.21	1.89
591	13.48	CIB	2.42	1.58	2.19	1.9
594	13.48	CIB	2.24	1.89	2.154	1.91
588	13.4806	CIB	2.09	1.85	2.122	1.82
588	13.4852	CIB	1.99	1.95	2.082	1.9
754	13.4865	CIB	1.87	1.84	2.024	1.84
588	13.4898	CIB	2.22	1.95	2.058	1.89
593	13.49	CIB	1.95	1.61	2.132	1.92
594	13.49	CIB	2.26	2.08	2.344	1.82
588	13.4972	CIB	2.36	2.14	2.366	1.73
206	13.5	CIB	2.93	1.3	2.466	1.83
591	13.5	CIB	2.33	1.52	2.494	1.84
588	13.5037	CIB	2.45	2.11	2.42	1.83
588	13.5087	CIB	2.4	2.12	2.268	1.83
590	13.51	CIB	1.99	2.12	2.25	1.95
591	13.51	CIB	2.17	1.28	2.232	1.95
588	13.5129	CIB	2.24	2.14	2.278	1.9
588	13.5189	CIB	2.36	2.07	2.36	1.87
360	13.519	CIB	2.63	1.87	2.44	2.04
593	13.52	CIB	2.4	1.97	2.534	2.03
594	13.52	CIB	2.57	2.16	2.51	2.01
594	13.52	CIB	2.71	2.07	2.432	2.02
588	13.5244	CIB	2.24	1.96	2.39	2.08
588	13.5262	CIB	2.24	1.96	2.408	1.91
588	13.5267	CIB	2.19	2.24	2.262	1.92
206	13.53	CIB	2.66	1.32	2.25	1.85
590	13.53	CIB	1.98	2.11	2.288	1.9
591	13.53	CIB	2.18	1.6	2.318	1.9
594	13.53	CIB	2.43	2.25	2.288	2
588	13.5313	CIB	2.34	2.21	2.368	1.93
588	13.5359	CIB	2.51	1.84	2.414	2.04
608	13.5363	CIB	2.38	1.74	2.366	1.97
594	13.54	CIB	2.41	2.17	2.348	1.94
588	13.5428	CIB	2.19	1.88	2.296	1.98
588	13.5451	CIB	2.25	2.05	2.222	2.09
588	13.5498	CIB	2.25	2.07	2.194	1.98
590	13.55	CIB	2.01	2.28	2.232	1.9
591	13.55	CIB	2.27	1.62	2.256	1.9
747	13.5502	CIB	2.38	1.5	2.27	1.91
588	13.5544	CIB	2.37	2.03	2.324	1.93
588	13.5559	CIB	2.32	2.12	2.37	1.89
594	13.56	CIB	2.28	2.4	2.374	2
526	13.5621	CIB	2.5	1.4	2.338	1.95
588	13.5659	CIB	2.4	2.04	2.276	1.9
591	13.57	CIB	2.19	1.8	2.278	1.85
593	13.57	CIB	2.01	1.88	2.256	2
588	13.5728	CIB	2.29	2.13	2.298	1.91
588	13.5774	CIB	2.39	2.17	2.314	1.83
360	13.5793	CIB	2.61	1.59	2.374	1.91
563	13.5793	CIB	2.27	1.39	2.406	1.82
590	13.58	CIB	2.31	2.25	2.356	1.84
591	13.58	CIB	2.45	1.71	2.282	1.98
594	13.58	CIB	2.14	2.28	2.294	1.99
588	13.582	CIB	2.24	2.28	2.286	1.95
553	13.5879	CIB	2.33	1.43	2.26	2.06

588	13.5889	CIB	2.27	2.03	2.282	2
594	13.59	CIB	2.32	2.26	2.276	1.96
588	13.5936	CIB	2.25	1.98	2.26	2.07
588	13.5954	CIB	2.21	2.09	2.23	2.15
588	13.5954	CIB	2.25	1.98	2.268	2.08
590	13.6	CIB	2.12	2.46	2.28	2.12
591	13.6	CIB	2.51	1.91	2.32	2.21
593	13.6	CIB	2.31	2.17	2.272	2.13
594	13.6	CIB	2.41	2.53	2.188	1.99
588	13.6013	CIB	2.01	1.59	2.166	2.04
588	13.6144	CIB	1.7	1.75	2.116	1.94
594	13.63	CIB	2.4	2.14	2.102	1.69
588	13.6341	CIB	2.06	1.67	2.166	1.67
360	13.6396	CIB	2.34	1.32	2.268	1.66
591	13.64	CIB	2.33	1.47	2.182	1.67
588	13.6473	CIB	2.21	1.72	2.206	1.71
590	13.65	CIB	1.97	2.19	2.086	1.76
588	13.6525	CIB	2.18	1.84	2.036	1.78
588	13.6538	CIB	1.74	1.56	2.086	1.81
588	13.667	CIB	2.08	1.58	2.212	1.63
593	13.67	CIB	2.46	1.86	2.25	1.61
553	13.674	CIB	2.6	1.3	2.388	1.66
747	13.674	CIB	2.37	1.73	2.366	1.69
747	13.674	CIB	2.43	1.83	2.316	1.65
588	13.6801	CIB	1.97	1.71	2.248	1.7
588	13.6959	CIB	2.21	1.69	2.214	1.67
591	13.7	CIB	2.26	1.56	2.22	1.66
588	13.7064	CIB	2.2	1.58	2.242	1.71
926	13.711	CIBKULL	2.46	1.74	2.248	1.73
588	13.7208	CIB	2.08	1.96	2.184	1.71
926	13.722	PWUELL	2.24	1.83	2.22	1.71
926	13.727	CIB	1.94	1.45	2.152	1.7
926	13.732	CIBKULL	2.38	1.55	2.24	1.54
588	13.7326	CIB	2.12	1.71	2.272	1.53
926	13.739	CIBKULL	2.52	1.14	2.336	1.65
591	13.74	CIB	2.4	1.8	2.25	1.7
593	13.74	CIB	2.26	2.07	2.324	1.68
588	13.7458	CIB	1.95	1.76	2.294	1.77
926	13.747	CIBKULL	2.49	1.64	2.212	1.88
926	13.755	CIBKULL	2.37	1.6	2.222	1.83
590	13.76	CIB	1.99	2.34	2.458	1.78
588	13.7654	CIB	2.31	1.81	2.36	1.76
206	13.77	CIB	3.13	1.51	2.382	1.83
591	13.77	CIB	2	1.56	2.414	1.75
594	13.77	CIB	2.48	1.95	2.438	1.71
588	13.7851	CIB	2.15	1.94	2.314	1.76
926	13.786	CIBKULL	2.43	1.57	2.314	1.78
594	13.79	CIB	2.51	1.76	2.26	1.72
588	13.7983	CIB	2	1.67	2.24	1.77
591	13.81	CIB	2.21	1.64	2.22	1.86
593	13.81	CIB	2.05	2.23	2.114	1.85
594	13.81	CIB	2.33	1.99	2.142	1.76
588	13.8114	CIB	1.98	1.72	2.15	1.75
747	13.8195	CIB	2.14	1.23	2.292	1.53
588	13.8272	CIB	2.25	1.57	2.246	1.52
206	13.83	CIB	2.76	1.15	2.244	1.51
594	13.84	CIB	2.1	1.94	2.21	1.59
588	13.8442	CIB	1.97	1.65	2.09	1.47
588	13.8495	CIB	1.97	1.65	1.904	1.6
591	13.85	CIB	1.65	0.98	1.888	1.6

588	13.8508	CIB	1.83	1.76	1.908	1.55
590	13.86	CIB	2.02	1.97	1.926	1.54
608	13.8616	CIB	2.07	1.38	1.912	1.67
588	13.8639	CIB	2.06	1.61	1.876	1.65
590	13.87	CIB	1.58	1.61	1.848	1.65
593	13.87	CIB	1.65	1.69	1.786	1.69
754	13.8718	CIB	1.88	1.95	1.854	1.62
588	13.8771	CIB	1.76	1.57	1.912	1.71
206	13.88	CIB	2.4	1.28	1.914	1.62
594	13.89	CIB	1.87	2.06	1.85	1.52
588	13.8928	CIB	1.66	1.23	1.902	1.55
588	13.9033	CIB	1.56	1.47	2.008	1.54
594	13.91	CIB	2.02	1.72	2.042	1.35
77	13.9107	CIB	2.93	1.2	2.148	1.33
747	13.9166	CIB	2.04	1.12	2.238	1.36
747	13.9166	CIB	2.19	1.16	2.13	1.35
588	13.9217	CIB	2.01	1.62	1.868	1.44
588	13.9296	CIB	1.48	1.66	1.958	1.49
590	13.93	CIB	1.62	1.65	1.824	1.55
206	13.94	CIB	2.49	1.36	1.782	1.51
588	13.9427	CIB	1.52	1.46	1.794	1.47
608	13.9504	CIB	1.8	1.42	1.846	1.44
588	13.9559	CIB	1.54	1.44	1.684	1.42
588	13.9677	CIB	1.88	1.54	1.804	1.32
594	13.97	CIB	1.68	1.24	1.81	1.37
553	13.98	CIB	2.12	0.98	1.966	1.33
608	13.9899	CIB	1.83	1.67	1.85	1.29
206	13.99	CIB	2.32	1.23	1.846	1.37
590	13.99	CIB	1.3	1.35	1.75	1.49
594	13.99	CIB	1.66	1.6	1.802	1.58
588	14.0084	CIB	1.64	1.58	1.716	1.65
593	14.01	CIB	2.09	2.16	1.884	1.56
588	14.0241	CIB	1.89	1.55	1.856	1.54
206	14.04	CIB	2.14	0.93	1.864	1.48
590	14.04	CIB	1.52	1.47	1.8	1.23
588	14.0412	CIB	1.68	1.31	1.778	1.31
588	14.0465	CIB	1.77	0.89	1.672	1.47
593	14.05	CIB	1.78	1.97	1.784	1.45
588	14.0609	CIB	1.61	1.72	1.766	1.52
558	14.0853	CIB	2.08	1.35	1.806	1.67
590	14.09	CIB	1.59	1.65	1.954	1.53
588	14.0937	CIB	1.97	1.67	2.03	1.61
206	14.1	CIB	2.52	1.26	1.986	1.69
593	14.1	CIB	1.99	2.14	2.086	1.7
588	14.1134	CIB	1.86	1.71	2.08	1.72
588	14.1266	CIB	2.09	1.73	2.106	1.74
588	14.1397	CIB	1.94	1.76	2.022	1.63
206	14.14	CIB	2.65	1.38	2.004	1.66
590	14.15	CIB	1.57	1.57	2.106	1.5
593	14.15	CIB	1.77	1.87	2.078	1.51
77	14.1536	CIB	2.6	0.9	1.97	1.53
588	14.1555	CIB	1.8	1.81	2.122	1.52
747	14.1591	CIB	2.11	1.5	2.12	1.52
747	14.1591	CIB	2.33	1.5	1.954	1.7
588	14.166	CIB	1.76	1.87	1.92	1.75
588	14.1791	CIB	1.77	1.82	1.912	1.79
593	14.18	CIB	1.63	2.05	1.718	1.83
588	14.1922	CIB	2.07	1.73	1.73	1.8
590	14.2	CIB	1.36	1.66	1.7	1.78
588	14.2053	CIB	1.82	1.74	1.782	1.72

593	14.22	CIB	1.62	1.71	1.746	1.76
588	14.2224	CIB	2.04	1.77	1.962	1.66
588	14.2434	CIB	1.89	1.9	1.896	1.7
206	14.25	CIB	2.44	1.2	1.98	1.7
590	14.25	CIB	1.49	1.93	1.942	1.72
588	14.2789	CIB	2.04	1.69	1.946	1.66
594	14.28	CIB	1.85	1.89	1.826	1.82
588	14.2868	CIB	1.91	1.6	1.836	1.83
593	14.29	CIB	1.84	1.97	1.84	1.82
590	14.3	CIB	1.54	2.02	1.894	1.76
588	14.3038	CIB	2.06	1.62	1.882	1.74
747	14.3047	CIB	2.12	1.6	2.046	1.65
588	14.3091	CIB	1.85	1.51	2.066	1.57
206	14.31	CIB	2.66	1.48	2.032	1.65
594	14.31	CIB	1.64	1.66	1.996	1.64
593	14.32	CIB	1.89	1.99	2.006	1.66
588	14.3235	CIB	1.94	1.58	1.86	1.79
588	14.3275	CIB	1.9	1.6	1.908	1.8
594	14.33	CIB	1.93	2.14	1.94	1.74
588	14.3367	CIB	1.88	1.7	1.904	1.77
588	14.3511	CIB	2.05	1.68	1.864	1.86
590	14.36	CIB	1.76	1.75	1.844	1.79
593	14.36	CIB	1.7	2.05	1.844	1.81
594	14.36	CIB	1.83	1.77	1.79	1.81
588	14.3629	CIB	1.88	1.78	1.784	1.77
588	14.3774	CIB	1.78	1.7	1.732	1.76
588	14.3892	CIB	1.73	1.53	1.752	1.73
754	14.3946	CIB	1.44	2	1.752	1.73
747	14.4017	CIB	1.93	1.62	1.764	1.81
588	14.4023	CIB	1.88	1.78	1.77	1.86
594	14.41	CIB	1.84	2.12	1.858	1.82
588	14.4181	CIB	1.76	1.79	1.824	1.98
588	14.4286	CIB	1.88	1.78	1.758	1.94
593	14.43	CIB	1.76	2.42	1.772	1.9
594	14.43	CIB	1.55	1.61	1.732	1.86
588	14.4417	CIB	1.91	1.88	1.648	1.9
588	14.4549	CIB	1.56	1.63	1.708	1.77
590	14.46	CIB	1.46	1.96	1.794	1.94
591	14.46	CIB	2.06	1.75	1.838	2.01
593	14.46	CIB	1.98	2.46	1.88	2.08
594	14.46	CIB	2.13	2.27	1.998	1.97
588	14.4654	CIB	1.77	1.95	1.998	2.03
591	14.47	CIB	2.05	1.4	2.03	1.95
594	14.47	CIB	2.06	2.09	1.932	1.85
594	14.47	CIB	2.14	2.04	2.016	1.76
590	14.48	CIB	1.64	1.79	1.996	1.86
591	14.48	CIB	2.19	1.46	1.992	1.93
594	14.48	CIB	1.95	1.94	1.916	1.82
594	14.48	CIB	2.04	2.44	1.912	1.82
588	14.485	CIB	1.76	1.49	1.882	1.83
590	14.49	CIB	1.62	1.76	1.918	1.87
591	14.49	CIB	2.04	1.52	1.804	1.74
594	14.49	CIB	2.13	2.16	1.848	1.75
590	14.5	CIB	1.47	1.77	1.886	1.88
591	14.5	CIB	1.98	1.55	1.846	1.93
593	14.5	CIB	1.81	2.4	1.86	1.93
594	14.5	CIB	1.84	1.75	1.95	1.91
594	14.5	CIB	2.2	2.16	1.916	1.88
588	14.5008	CIB	1.92	1.7	1.908	1.75
747	14.502	CIB	1.81	1.38	1.876	1.74

588	14.5021	CIB	1.77	1.78	1.78	1.69
588	14.5061	CIB	1.68	1.68	1.748	1.73
590	14.51	CIB	1.72	1.92	1.92	1.73
594	14.51	CIB	1.76	1.89	1.922	1.68
206	14.52	CIB	2.67	1.38	1.94	1.66
588	14.5205	CIB	1.78	1.52	1.95	1.63
588	14.5231	CIB	1.77	1.6	1.92	1.6
588	14.5297	CIB	1.77	1.78	1.778	1.72
590	14.53	CIB	1.61	1.74	1.83	1.81
594	14.53	CIB	1.96	1.95	1.814	1.84
594	14.53	CIB	2.04	1.98	1.884	1.89
590	14.54	CIB	1.69	1.74	2	1.92
594	14.54	CIB	2.12	2.06	1.968	1.9
594	14.54	CIB	2.19	1.87	1.884	1.85
588	14.5428	CIB	1.8	1.84	1.902	1.78
590	14.55	CIB	1.62	1.73	1.814	1.75
591	14.55	CIB	1.78	1.39	1.75	1.77
594	14.55	CIB	1.68	1.93	1.806	1.78
594	14.55	CIB	1.87	1.96	1.784	1.76
594	14.55	CIB	2.08	1.9	1.754	1.87
588	14.5533	CIB	1.51	1.61	1.738	1.83
588	14.5599	CIB	1.63	1.93	1.744	1.75
590	14.56	CIB	1.6	1.73	1.664	1.67
591	14.56	CIB	1.9	1.58	1.722	1.73
594	14.56	CIB	1.68	1.5	1.592	1.64
594	14.56	CIB	1.8	1.92	1.622	1.57
590	14.57	CIB	0.98	1.46	1.522	1.61
591	14.57	CIB	1.75	1.4	1.494	1.58
593	14.57	CIB	1.4	1.75	1.43	1.56
594	14.57	CIB	1.54	1.38	1.748	1.52
588	14.5743	CIB	1.48	1.8	1.708	1.62
206	14.58	CIB	2.57	1.25	1.738	1.6
593	14.58	CIB	1.55	1.9	1.758	1.71
588	14.5862	CIB	1.55	1.65	1.75	1.69
593	14.59	CIB	1.64	1.95	1.56	1.77
588	14.5993	CIB	1.44	1.68	1.554	1.76
608	14.608	CIB	1.62	1.68	1.586	1.72
590	14.61	CIB	1.52	1.83	1.626	1.68
588	14.6164	CIB	1.71	1.48	1.702	1.66
588	14.6256	CIB	1.84	1.74	1.884	1.6
747	14.6281	CIB	1.82	1.58	1.95	1.61
206	14.63	CIB	2.53	1.39	1.934	1.74
588	14.6387	CIB	1.85	1.87	1.874	1.74
594	14.64	CIB	1.63	2.12	1.9	1.73
590	14.65	CIB	1.54	1.74	1.734	1.76
591	14.65	CIB	1.95	1.51	1.812	1.65
588	14.6518	CIB	1.7	1.54	1.778	1.56
77	14.6557	CIB	2.24	1.32	1.804	1.57
588	14.6676	CIB	1.46	1.69	1.738	1.58
593	14.68	CIB	1.67	1.77	1.74	1.56
588	14.6833	CIB	1.62	1.6	1.59	1.65
588	14.6978	CIB	1.71	1.4	1.608	1.64
590	14.7	CIB	1.49	1.78	1.584	1.62
588	14.703	CIB	1.55	1.65	1.598	1.65
588	14.703	CIB	1.55	1.65	1.606	1.71
588	14.7096	CIB	1.69	1.78	1.658	1.65
588	14.7201	CIB	1.75	1.69	1.69	1.54
747	14.7251	CIB	1.75	1.48	1.724	1.52
608	14.736	CIB	1.71	1.12	1.694	1.53
588	14.7372	CIB	1.72	1.54	1.744	1.5

590	14.74	CIB	1.54	1.83	1.682	1.51
591	14.74	CIB	2	1.51	1.688	1.61
588	14.7503	CIB	1.44	1.55	1.7	1.5
588	14.7569	CIB	1.74	1.64	1.744	1.47
563	14.7634	CIB	1.78	0.98	1.66	1.49
588	14.7687	CIB	1.76	1.69	1.662	1.55
588	14.77	CIB	1.58	1.61	1.66	1.58
590	14.77	CIB	1.45	1.84	1.614	1.69
593	14.77	CIB	1.73	1.8	1.596	1.68
588	14.7713	CIB	1.55	1.5	1.622	1.72
588	14.7831	CIB	1.67	1.66	1.656	1.68
588	14.7963	CIB	1.71	1.78	1.628	1.62
588	14.812	CIB	1.62	1.67	1.662	1.64
590	14.82	CIB	1.59	1.51	1.642	1.68
591	14.82	CIB	1.72	1.6	1.616	1.67
588	14.8225	CIB	1.57	1.83	1.642	1.58
588	14.8357	CIB	1.58	1.73	1.66	1.66
558	14.84	CIB	1.75	1.21	1.656	1.73
593	14.85	CIB	1.68	1.91	1.682	1.72
588	14.8554	CIB	1.7	1.96	1.672	1.75
588	14.8685	CIB	1.7	1.78	1.676	1.83
590	14.87	CIB	1.53	1.91	1.628	1.81
747	14.8707	CIB	1.77	1.57	1.748	1.66
594	14.89	CIB	1.44	1.84	1.744	1.65
77	14.894	CIB	2.3	1.18	1.716	1.56
588	14.8948	CIB	1.68	1.74	1.71	1.65
588	14.9035	CIB	1.39	1.48	1.802	1.69
588	14.9065	CIB	1.74	2.01	1.698	1.86
588	14.9105	CIB	1.9	2.04	1.752	1.77
588	14.916	CIB	1.78	2.05	1.8	1.92
563	14.9161	CIB	1.95	1.26	1.798	1.89
754	14.9173	CIB	1.63	2.26	1.806	1.9
588	14.9195	CIB	1.73	1.86	1.752	1.83
588	14.923	CIB	1.94	2.08	1.688	1.96
588	14.925	CIB	1.51	1.71	1.85	1.8
588	14.926	CIB	1.63	1.9	1.8	1.84
206	14.93	CIB	2.44	1.45	1.72	1.74
590	14.93	CIB	1.48	2.04	1.716	1.83
591	14.93	CIB	1.54	1.61	1.72	1.88
593	14.93	CIB	1.49	2.17	1.576	2
594	14.93	CIB	1.65	2.11	1.58	1.84
588	14.9305	CIB	1.72	2.07	1.592	1.91
608	14.9335	CIB	1.5	1.23	1.634	1.81
588	14.9355	CIB	1.6	1.97	1.674	1.76
588	14.942	CIB	1.7	1.66	1.688	1.71
588	14.9455	CIB	1.85	1.86	1.796	1.78
588	14.949	CIB	1.79	1.83	1.858	1.74
591	14.95	CIB	2.04	1.56	1.836	1.77
588	14.9535	CIB	1.91	1.81	1.828	1.79
588	14.958	CIB	1.59	1.8	1.804	1.77
594	14.96	CIB	1.81	1.94	1.74	1.73
588	14.9605	CIB	1.67	1.75	1.692	1.68
588	14.9665	CIB	1.72	1.37	1.708	1.63
747	14.9677	CIB	1.67	1.52	1.694	1.53
588	14.9705	CIB	1.67	1.57	1.692	1.49
588	14.979	CIB	1.74	1.43	1.664	1.56
588	14.983	CIB	1.66	1.58	1.662	1.55
588	14.9855	CIB	1.58	1.69	1.602	1.52
588	14.9905	CIB	1.66	1.49	1.528	1.51
588	14.998	CIB	1.37	1.4	1.46	1.54

588	15	CIB	1.37	1.4	1.478	1.46
588	15.001	CIB	1.32	1.71	1.484	1.55
588	15.006	CIB	1.67	1.32	1.578	1.61
588	15.011	CIB	1.69	1.91	1.656	1.71
588	15.017	CIB	1.84	1.7	1.712	1.71
594	15.02	CIB	1.76	1.89	1.708	1.78
588	15.0205	CIB	1.6	1.74	1.748	1.77
588	15.028	CIB	1.65	1.64	1.776	1.71
591	15.03	CIB	1.89	1.87	1.79	1.69
588	15.0305	CIB	1.98	1.39	1.778	1.67
588	15.0355	CIB	1.83	1.81	1.736	1.66
588	15.0415	CIB	1.54	1.66	1.706	1.72
588	15.0455	CIB	1.44	1.55	1.7	1.76
594	15.05	CIB	1.74	2.18	1.696	1.67
588	15.054	CIB	1.95	1.62	1.736	1.67
563	15.0557	CIB	1.81	1.32	1.786	1.68
588	15.0605	CIB	1.74	1.68	1.796	1.47
588	15.063	CIB	1.69	1.62	1.728	1.44
608	15.0646	CIB	1.79	1.09	1.74	1.48
588	15.0655	CIB	1.61	1.48	1.698	1.36
588	15.0665	CIB	1.87	1.54	1.698	1.34
588	15.073	CIB	1.53	1.09	1.646	1.34
588	15.0735	CIB	1.69	1.5	1.642	1.33
588	15.075	CIB	1.53	1.09	1.622	1.33
588	15.0795	CIB	1.59	1.43	1.666	1.45
588	15.0855	CIB	1.77	1.52	1.694	1.5
588	15.0885	CIB	1.75	1.72	1.668	1.55
588	15.0905	CIB	1.83	1.76	1.646	1.53
588	15.0915	CIB	1.4	1.31	1.606	1.5
588	15.098	CIB	1.48	1.35	1.724	1.43
747	15.1132	CIB	1.57	1.36	1.68	1.41
206	15.14	CIB	2.34	1.35	1.734	1.45
588	15.1819	CIB	1.61	1.66	1.87	1.47
563	15.1896	CIB	1.67	1.51	1.87	1.48
591	15.19	CIB	2.16	1.46	1.764	1.55
588	15.2031	CIB	1.57	1.43	1.756	1.51
588	15.2038	CIB	1.81	1.71	1.81	1.55
588	15.2059	CIB	1.57	1.43	1.794	1.6
747	15.2119	CIB	1.94	1.7	1.842	1.65
747	15.2119	CIB	2.08	1.71	1.812	1.62
588	15.2249	CIB	1.81	1.71	1.962	1.57
563	15.2355	CIB	1.66	1.55	1.978	1.52
206	15.24	CIB	2.32	1.2	1.906	1.49
591	15.26	CIB	2.02	1.43	1.928	1.47
588	15.2645	CIB	1.72	1.54	1.93	1.44
608	15.2815	CIB	1.92	1.65	1.81	1.45
588	15.2878	CIB	1.67	1.38	1.72	1.41
591	15.29	CIB	1.72	1.23	1.668	1.3
588	15.3089	CIB	1.57	1.25	1.598	1.22
594	15.31	CIB	1.46	1	1.528	1.2
588	15.3118	CIB	1.57	1.25	1.51	1.16
588	15.3308	CIB	1.32	1.25	1.474	1.15
594	15.34	CIB	1.63	1.04	1.534	1.24
588	15.3513	CIB	1.39	1.2	1.55	1.3
747	15.3558	CIB	1.76	1.48	1.624	1.35
563	15.3642	CIB	1.65	1.52	1.65	1.47
588	15.3711	CIB	1.69	1.51	1.796	1.52
588	15.3936	CIB	1.76	1.66	1.75	1.49
77	15.397	CIB	2.12	1.43	1.726	1.46
588	15.4148	CIB	1.53	1.34	1.644	1.37

588	15.4177	CIB	1.53	1.34	1.594	1.42
588	15.4339	CIB	1.28	1.1	1.468	1.36
754	15.44	CIB	1.51	1.91	1.538	1.46
747	15.4528	CIB	1.49	1.1	1.576	1.56
588	15.4572	CIB	1.88	1.83	1.636	1.69
588	15.4769	CIB	1.72	1.87	1.67	1.66
588	15.4995	CIB	1.58	1.74	1.742	1.72
563	15.502	CIB	1.68	1.74	1.684	1.64
558	15.5112	CIB	1.85	1.43	1.658	1.56
588	15.5207	CIB	1.59	1.44	1.724	1.51
588	15.5235	CIB	1.59	1.44	1.752	1.52
608	15.5296	CIB	1.91	1.48	1.762	1.61
588	15.5313	CIB	1.82	1.8	1.798	1.72
588	15.5348	CIB	1.9	1.9	1.906	1.66
588	15.5539	CIB	1.77	1.96	1.924	1.76
77	15.5694	CIB	2.13	1.17	1.936	1.78
588	15.5779	CIB	2	1.96	1.886	1.7
588	15.5984	CIB	1.88	1.93	1.852	1.55
747	15.5984	CIB	1.65	1.5	1.83	1.62
590	15.6	CIB	1.6	1.2	1.842	1.63
591	15.61	CIB	2.02	1.51	1.852	1.64
588	15.6181	CIB	2.06	1.99	1.862	1.61
563	15.6398	CIB	1.93	2	1.958	1.75
591	15.64	CIB	1.7	1.34	1.862	1.76
588	15.6407	CIB	2.08	1.93	1.784	1.66
588	15.6619	CIB	1.54	1.55	1.674	1.51
588	15.6647	CIB	1.67	1.5	1.666	1.6
594	15.67	CIB	1.38	1.24	1.56	1.52
591	15.68	CIB	1.66	1.79	1.62	1.55
588	15.6831	CIB	1.55	1.54	1.632	1.56
747	15.6922	CIB	1.84	1.67	1.738	1.69
594	15.7	CIB	1.73	1.54	1.654	1.59
588	15.7035	CIB	1.91	1.92	1.62	1.58
590	15.71	CIB	1.24	1.28	1.636	1.64
591	15.71	CIB	1.38	1.5	1.684	1.7
588	15.7275	CIB	1.92	1.95	1.646	1.66
594	15.73	CIB	1.97	1.84	1.794	1.75
588	15.7466	CIB	1.72	1.71	1.762	1.66
594	15.76	CIB	1.98	1.73	1.622	1.48
588	15.7678	CIB	1.22	1.07	1.614	1.47
588	15.7706	CIB	1.22	1.07	1.726	1.54
563	15.7777	CIB	1.93	1.78	1.728	1.56
563	15.7869	CIB	2.28	2.07	1.776	1.63
588	15.7889	CIB	1.99	1.83	1.814	1.74
594	15.79	CIB	1.46	1.41	1.8	1.67
590	15.8	CIB	1.41	1.63	1.666	1.57
563	15.8053	CIB	1.86	1.43	1.672	1.6
591	15.81	CIB	1.61	1.53	1.778	1.7
588	15.8101	CIB	2.02	2	1.908	1.74
588	15.8292	CIB	1.99	1.91	1.916	1.83
608	15.8328	CIB	2.06	1.84	1.926	1.91
747	15.841	CIB	1.9	1.89	1.814	1.86
588	15.8525	CIB	1.66	1.92	1.744	1.83
590	15.87	CIB	1.46	1.76	1.688	1.82
588	15.8736	CIB	1.64	1.74	1.746	1.91
588	15.8765	CIB	1.78	1.78	1.79	1.95
588	15.8885	CIB	2.19	2.36	1.884	1.89
588	15.8913	CIB	1.88	2.1	1.93	1.93
563	15.9064	CIB	1.93	1.47	1.874	1.92
588	15.9089	CIB	1.87	1.92	1.774	1.82

590	15.91	CIB	1.5	1.75	1.772	1.79
591	15.91	CIB	1.69	1.87	1.784	1.82
588	15.9118	CIB	1.87	1.92	1.834	1.8
747	15.938	CIB	1.99	1.66	1.892	1.74
747	15.938	CIB	2.12	1.81	2.002	1.69
590	15.94	CIB	1.79	1.43	2.048	1.71
1090	15.94	CIB	2.24	1.64	1.998	1.78
608	15.9431	CIB	2.1	1.99	2.062	1.74
588	15.9513	CIB	1.74	2.04	2.12	1.8
1090	15.9594	CIB	2.44	1.58	2.058	1.96
563	15.9615	CIB	2.08	1.77	2.002	1.97
754	15.9627	CIB	1.93	2.41	1.94	1.92
588	15.9689	CIB	1.82	2.07	1.922	1.87
590	15.97	CIB	1.43	1.75	1.866	1.93
1090	15.9918	CIB	2.35	1.36	1.764	1.78
588	15.9937	CIB	1.8	2.08	1.826	1.75
590	16	CIB	1.42	1.64	2.006	1.73
591	16	CIB	2.13	1.9	1.988	1.73
1090	16.0019	CIB	2.33	1.66	2.016	1.78
1090	16.012	CIB	2.26	1.35	2.192	1.76
588	16.0131	CIB	1.94	2.37	2.12	1.78
1090	16.0221	CIB	2.3	1.5	2.02	1.85
588	16.0249	CIB	1.77	2.03	1.92	1.91
588	16.0325	CIB	1.83	1.99	1.89	1.7
747	16.035	CIB	1.76	1.65	1.798	1.78
747	16.035	CIB	1.79	1.32	1.79	1.79
591	16.04	CIB	1.84	1.93	1.8	1.72
588	16.0493	CIB	1.73	2.04	1.954	1.75
594	16.05	CIB	1.88	1.67	1.936	1.81
1090	16.0523	CIB	2.53	1.78	1.954	1.8
747	16.0551	CIB	1.7	1.63	2.014	1.73
588	16.0668	CIB	1.93	1.88	2.058	1.76
747	16.0753	CIB	2.03	1.71	1.944	1.79
747	16.0753	CIB	2.1	1.8	2.008	1.9
591	16.08	CIB	1.96	1.91	1.998	1.83
594	16.08	CIB	2.02	2.2	2	1.73
563	16.0822	CIB	1.88	1.51	1.952	1.77
1090	16.0826	CIB	2.04	1.22	1.976	1.74
588	16.0861	CIB	1.86	2.03	1.922	1.73
1090	16.0878	CIB	2.08	1.75	1.952	1.7
588	16.0912	CIB	1.75	2.12	1.948	1.77
1090	16.0929	CIB	2.03	1.36	2.01	1.67
1090	16.0981	CIB	2.02	1.59	1.994	1.76
1090	16.1033	CIB	2.17	1.54	2.062	1.66
588	16.1067	CIB	2	2.17	1.962	1.69
1090	16.1085	CIB	2.09	1.65	1.896	1.76
594	16.11	CIB	1.53	1.52	1.964	1.76
608	16.1105	CIB	1.69	1.92	1.986	1.7
1090	16.1136	CIB	2.51	1.52	1.946	1.74
1090	16.1188	CIB	2.11	1.88	1.99	1.88
591	16.12	CIB	1.89	1.86	2.08	1.85
588	16.1217	CIB	1.75	2.22	2.026	1.93
1090	16.124	CIB	2.14	1.78	2.094	1.89
1090	16.1291	CIB	2.24	1.92	2.054	1.82
1090	16.1395	CIB	2.45	1.65	2.208	1.78
747	16.1424	CIB	1.69	1.52	2.152	1.85
1090	16.1436	CIB	2.52	2.03	2.11	1.75
588	16.1493	CIB	1.86	2.13	1.984	1.74
1090	16.1498	CIB	2.03	1.44	2.088	1.83
704	16.1576	CIB	1.82	1.57	2.076	1.62

591	16.16	CIB	2.21	1.97	2.106	1.52
1090	16.1705	CIB	2.46	0.98	2.16	1.47
1090	16.1788	CIB	2.01	1.62	2.218	1.44
1090	16.1871	CIB	2.3	1.22	2.204	1.33
1090	16.1954	CIB	2.11	1.4	2.08	1.42
1090	16.2037	CIB	2.14	1.45	2.11	1.4
608	16.2048	CIB	1.84	1.42	1.982	1.49
1090	16.212	CIB	2.16	1.52	1.97	1.54
588	16.2128	CIB	1.66	1.65	1.984	1.5
588	16.2157	CIB	2.05	1.67	1.938	1.48
1090	16.2203	CIB	2.21	1.23	1.948	1.46
747	16.2229	CIB	1.61	1.34	1.938	1.4
1090	16.2286	CIB	2.21	1.39	1.898	1.46
588	16.2315	CIB	1.61	1.35	1.874	1.47
563	16.2331	CIB	1.85	2.01	1.872	1.5
1090	16.2452	CIB	2.09	1.28	1.85	1.45
588	16.2515	CIB	1.6	1.49	1.952	1.42
1090	16.2535	CIB	2.1	1.13	1.954	1.28
1090	16.2635	CIB	2.12	1.18	1.842	1.26
588	16.269	CIB	1.86	1.33	1.82	1.29
1090	16.2701	CIB	1.53	1.15	1.854	1.41
588	16.2737	CIB	1.49	1.67	1.87	1.59
1090	16.2784	CIB	2.27	1.73	1.826	1.61
558	16.2803	CIB	2.2	2.08	1.846	1.65
1090	16.2867	CIB	1.64	1.4	1.9	1.62
588	16.2889	CIB	1.63	1.38	1.706	1.56
1090	16.295	CIB	1.76	1.49	1.518	1.41
591	16.3	CIB	1.3	1.45	1.53	1.33
593	16.3	CIB	1.26	1.32	1.578	1.27
77	16.3014	CIB	1.7	1.03	1.56	1.22
1090	16.3033	CIB	1.87	1.06	1.596	1.2
588	16.3064	CIB	1.67	1.22	1.722	1.18
590	16.31	CIB	1.48	1.37	1.746	1.26
1090	16.3116	CIB	1.89	1.23	1.682	1.3
1090	16.3199	CIB	1.82	1.43	1.68	1.25
588	16.3251	CIB	1.55	1.26	1.73	1.21
1090	16.3282	CIB	1.66	0.98	1.602	1.22
1090	16.3365	CIB	1.73	1.17	1.544	1.31
590	16.34	CIB	1.25	1.24	1.584	1.33
588	16.3401	CIB	1.53	1.92	1.586	1.41
747	16.3437	CIB	1.75	1.32	1.658	1.43
588	16.3438	CIB	1.67	1.39	1.738	1.54
1090	16.3448	CIB	2.09	1.3	1.67	1.42
590	16.35	CIB	1.65	1.75	1.708	1.42
591	16.35	CIB	1.19	1.32	1.648	1.42
1090	16.3531	CIB	1.94	1.36	1.706	1.46
590	16.36	CIB	1.37	1.38	1.734	1.44
1090	16.3614	CIB	2.38	1.48	1.884	1.44
588	16.3626	CIB	1.79	1.66	1.94	1.47
1090	16.3697	CIB	1.94	1.33	1.942	1.48
1090	16.378	CIB	2.22	1.48	1.842	1.47
590	16.38	CIB	1.38	1.43	1.88	1.44
588	16.3825	CIB	1.88	1.45	1.84	1.42
1090	16.3863	CIB	1.98	1.49	1.694	1.46
1090	16.3946	CIB	1.74	1.27	1.754	1.48
588	16.3982	CIB	1.49	1.66	1.738	1.48
563	16.3999	CIB	1.68	1.51	1.688	1.46
588	16.4	CIB	1.8	1.46	1.658	1.48
590	16.4	CIB	1.73	1.41	1.81	1.38
591	16.4	CIB	1.59	1.37	1.828	1.32

1090	16.4029	CIB	2.25	1.13	1.844	1.35
1090	16.4112	CIB	1.77	1.25	1.812	1.4
1090	16.4195	CIB	1.88	1.58	1.842	1.42
590	16.42	CIB	1.57	1.66	1.826	1.51
747	16.4242	CIB	1.74	1.49	1.786	1.58
1090	16.4278	CIB	2.17	1.58	1.792	1.55
608	16.4287	CIB	1.57	1.57	1.786	1.53
1090	16.4361	CIB	1.91	1.46	1.768	1.39
590	16.44	CIB	1.54	1.57	1.632	1.42
1090	16.4444	CIB	1.65	0.76	1.582	1.32
590	16.45	CIB	1.49	1.72	1.46	1.37
591	16.45	CIB	1.32	1.09	1.528	1.38
593	16.46	CIB	1.3	1.73	1.51	1.53
1090	16.4634	CIB	1.88	1.59	1.482	1.48
588	16.4645	CIB	1.56	1.51	1.532	1.57
590	16.47	CIB	1.35	1.47	1.766	1.56
1090	16.4721	CIB	1.57	1.53	1.68	1.51
1090	16.479	CIB	2.47	1.68	1.78	1.53
590	16.48	CIB	1.45	1.35	1.786	1.55
1090	16.4877	CIB	2.06	1.62	1.838	1.55
590	16.49	CIB	1.38	1.58	1.722	1.58
1090	16.4963	CIB	1.83	1.53	1.856	1.56
590	16.5	CIB	1.89	1.82	1.758	1.48
1090	16.505	CIB	2.12	1.26	1.796	1.43
704	16.5054	CIB	1.57	1.2	1.834	1.42
591	16.51	CIB	1.57	1.35	1.752	1.34
1090	16.5136	CIB	2.02	1.46	1.616	1.4
608	16.515	CIB	1.48	1.42	1.646	1.47
590	16.52	CIB	1.44	1.55	1.76	1.45
591	16.52	CIB	1.72	1.59	1.642	1.44
1090	16.5223	CIB	2.14	1.25	1.816	1.42
588	16.5226	CIB	1.43	1.38	1.98	1.4
1090	16.5309	CIB	2.35	1.32	1.936	1.43
1090	16.5396	CIB	2.26	1.44	1.868	1.43
590	16.54	CIB	1.5	1.74	2.052	1.48
747	16.545	CIB	1.8	1.27	1.882	1.55
1090	16.5482	CIB	2.35	1.61	1.86	1.53
590	16.55	CIB	1.5	1.67	1.942	1.49
1090	16.5569	CIB	2.15	1.36	1.946	1.51
590	16.56	CIB	1.91	1.52	1.858	1.45
591	16.56	CIB	1.82	1.41	1.982	1.38
704	16.5733	CIB	1.91	1.31	1.802	1.38
1090	16.5742	CIB	2.12	1.32	1.674	1.34
590	16.58	CIB	1.25	1.36	1.568	1.34
588	16.5889	CIB	1.27	1.32	1.576	1.36
590	16.59	CIB	1.29	1.37	1.482	1.4
1090	16.5915	CIB	1.95	1.43	1.61	1.48
591	16.61	CIB	1.65	1.54	1.706	1.49
563	16.6117	CIB	1.89	1.73	1.796	1.45
747	16.6255	CIB	1.75	1.4	1.732	1.42
591	16.63	CIB	1.74	1.16	1.88	1.43
704	16.6308	CIB	1.63	1.28	1.862	1.24
1090	16.6347	CIB	2.39	1.56	1.786	1.27
1090	16.6434	CIB	1.8	0.8	1.82	1.22
588	16.647	CIB	1.37	1.55	1.858	1.2
1090	16.652	CIB	1.91	0.93	1.79	1.09
704	16.6594	CIB	1.82	1.16	1.918	1.16
1090	16.6607	CIB	2.05	1.02	2.096	1.1
1090	16.6694	CIB	2.44	1.13	2.046	1.15
1090	16.678	CIB	2.26	1.24	2.072	1.13

588	16.6783	CIB	1.66	1.2	2.03	1.31
591	16.68	CIB	1.95	1.08	1.972	1.32
593	16.69	CIB	1.84	1.89	1.998	1.29
1090	16.6953	CIB	2.15	1.2	2	1.21
1090	16.7126	CIB	2.39	1.1	1.962	1.24
1090	16.7213	CIB	1.67	0.79	1.886	1.17
704	16.7263	CIB	1.76	1.2	1.86	1.11
754	16.7294	CIB	1.46	1.57	1.76	1.11
1090	16.7299	CIB	2.02	0.9	1.78	1.15
591	16.73	CIB	1.89	1.08	1.782	1.16
1090	16.7386	CIB	1.77	1.01	1.874	1.08
747	16.7463	CIB	1.77	1.22	1.9	1.11
1090	16.7472	CIB	1.92	1.17	1.788	1.22
1090	16.7559	CIB	2.15	1.07	1.87	1.25
588	16.7631	CIB	1.33	1.62	1.932	1.36
1090	16.7645	CIB	2.18	1.18	2.02	1.42
593	16.77	CIB	2.08	1.76	1.936	1.51
1090	16.7732	CIB	2.36	1.48	2.054	1.44
360	16.7738	CIB	1.73	1.5	2.07	1.45
591	16.78	CIB	1.92	1.29	2.058	1.37
1090	16.7818	CIB	2.26	1.22	1.942	1.53
704	16.7832	CIB	2.02	1.37	1.854	1.46
594	16.82	CIB	1.78	2.29	1.76	1.44
608	16.8209	CIB	1.29	1.11	1.718	1.5
608	16.8209	CIB	1.45	1.23	1.624	1.49
704	16.8209	CIB	2.05	1.51	1.626	1.24
588	16.8212	CIB	1.55	1.3	1.714	1.28
77	16.8256	CIB	1.79	1.05	1.782	1.34
747	16.8268	CIB	1.73	1.3	1.75	1.37
360	16.8397	CIB	1.79	1.52	1.81	1.46
360	16.8491	CIB	1.89	1.67	1.904	1.5
593	16.85	CIB	1.85	1.77	2.06	1.53
1090	16.877	CIB	2.26	1.26	2.11	1.5
1090	16.8824	CIB	2.51	1.45	2.004	1.42
563	16.8867	CIB	2.04	1.33	2.142	1.32
588	16.8876	CIB	1.36	1.31	2.196	1.31
1090	16.8878	CIB	2.54	1.26	2.166	1.26
1090	16.8933	CIB	2.53	1.22	2.196	1.2
1090	16.8987	CIB	2.36	1.16	2.382	1.18
1090	16.9041	CIB	2.19	1.05	2.364	1.21
1090	16.9095	CIB	2.29	1.19	2.338	1.19
1090	16.9149	CIB	2.45	1.41	2.34	1.19
1090	16.9203	CIB	2.4	1.16	2.198	1.22
1090	16.9257	CIB	2.37	1.12	2.234	1.23
590	16.93	CIB	1.48	1.24	2.16	1.22
1090	16.9312	CIB	2.47	1.2	2.142	1.2
360	16.9337	CIB	2.08	1.4	2.144	1.2
1090	16.9366	CIB	2.31	1.02	2.104	1.19
1090	16.942	CIB	2.38	1.12	2.104	1.2
588	16.9456	CIB	1.28	1.2	2.008	1.15
1090	16.9474	CIB	2.47	1.27	1.988	1.17
608	16.9525	CIB	1.6	1.13	1.908	1.23
1090	16.9528	CIB	2.21	1.13	2.136	1.24
588	16.9567	CIB	1.98	1.44	2.15	1.21
1090	16.9582	CIB	2.42	1.21	2.262	1.17
1090	16.9637	CIB	2.54	1.14	2.046	1.03
1090	16.9691	CIB	2.16	0.94	2.088	0.93
77	16.9711	CIB	1.13	0.4	2.126	0.95
1090	16.9745	CIB	2.19	0.97	2.048	1.04
1090	16.9799	CIB	2.61	1.31	2.12	1.08

360	16.9808	CIB	2.15	1.57	2.194	1.39
1090	16.9853	CIB	2.52	1.13	2.25	1.44
590	16.99	CIB	1.5	1.95	2.198	1.38
1090	16.9908	CIB	2.47	1.22	2.202	1.3
1090	16.9962	CIB	2.35	1.02	2.122	1.3
1090	17.0016	CIB	2.17	1.16	2.212	1.27
1090	17.007	CIB	2.12	1.14	2.09	1.35
593	17.01	CIB	1.95	1.79	2.088	1.4
588	17.012	CIB	1.86	1.65	2.142	1.39
1090	17.013	CIB	2.34	1.25	2.184	1.4
1090	17.019	CIB	2.44	1.12	2.238	1.3
1090	17.025	CIB	2.33	1.17	2.386	1.17
747	17.0282	CIB	2.22	1.31	2.4	1.17
1090	17.031	CIB	2.6	0.98	2.408	1.18
1090	17.037	CIB	2.41	1.27	2.414	1.17
1090	17.043	CIB	2.48	1.18	2.44	1.13
1090	17.049	CIB	2.36	1.1	2.412	1.17
1090	17.055	CIB	2.35	1.13	2.362	1.11
1090	17.061	CIB	2.46	1.16	2.234	1.16
1090	17.067	CIB	2.16	0.98	2.222	1.15
588	17.07	CIB	1.84	1.41	2.226	1.12
1090	17.073	CIB	2.3	1.07	2.176	1.09
1090	17.079	CIB	2.37	0.96	2.1	1.11
1090	17.085	CIB	2.21	1.02	2.096	1.22
77	17.0863	CIB	1.78	1.1	2.126	1.27
590	17.09	CIB	1.82	1.97	2.132	1.31
1090	17.091	CIB	2.45	1.29	2.116	1.36
1090	17.097	CIB	2.4	1.15	2.25	1.41
206	17.1	CIB	2.13	1.28	2.4	1.22
1090	17.103	CIB	2.45	1.36	2.256	1.21
1090	17.109	CIB	2.57	1.03	2.24	1.23
704	17.1125	CIB	1.73	1.25	2.126	1.21
1090	17.115	CIB	2.32	1.22	1.996	1.21
608	17.1219	CIB	1.56	1.17	2	1.24
608	17.1219	CIB	1.8	1.4	2.188	1.23
1090	17.1269	CIB	2.59	1.16	2.06	1.19
1090	17.1329	CIB	2.67	1.22	2.264	1.19
588	17.1364	CIB	1.68	1.02	2.384	1.14
1090	17.1389	CIB	2.58	1.17	2.314	1.18
1090	17.1449	CIB	2.4	1.15	2.246	1.15
747	17.1489	CIB	2.24	1.34	2.414	1.19
1090	17.1509	CIB	2.33	1.07	2.372	1.16
1090	17.1569	CIB	2.52	1.22	2.376	1.14
1090	17.1629	CIB	2.37	1.01	2.264	1.15
1090	17.1689	CIB	2.42	1.04	2.288	1.16
593	17.17	CIB	1.68	1.4	2.252	1.11
1090	17.1749	CIB	2.45	1.11	2.19	1.1
1090	17.1809	CIB	2.34	0.99	2.182	1.12
1090	17.1869	CIB	2.06	0.98	2.216	1.11
1090	17.1929	CIB	2.38	1.11	2.216	1.07
588	17.1945	CIB	1.85	1.35	2.272	1.12
1090	17.1989	CIB	2.45	0.93	2.206	1.17
1090	17.2049	CIB	2.62	1.25	2.216	1.17
704	17.2065	CIB	1.73	1.19	2.34	1.13
1090	17.2109	CIB	2.43	1.13	2.356	1.15
1090	17.2169	CIB	2.47	1.14	2.066	1.06
1090	17.2229	CIB	2.53	1.06	2.316	1.1
77	17.2232	CIB	1.17	0.77	2.23	1.16
1090	17.2289	CIB	2.98	1.39	2.166	1.19
747	17.2295	CIB	2	1.42	2.192	1.24

747	17.2295	CIB	2.15	1.33	2.362	1.36
1090	17.2343	CIB	2.66	1.29	2.294	1.3
588	17.2351	CIB	2.02	1.38	2.428	1.29
1090	17.2397	CIB	2.64	1.1	2.282	1.29
1090	17.2451	CIB	2.67	1.35	2.042	1.32
590	17.25	CIB	1.42	1.35	2.144	1.28
594	17.25	CIB	1.46	1.44	1.99	1.36
1090	17.2506	CIB	2.53	1.16	1.828	1.32
754	17.2521	CIB	1.87	1.51	2.05	1.29
608	17.2536	CIB	1.86	1.13	2.286	1.23
1090	17.256	CIB	2.53	1.21	2.304	1.25
1090	17.2614	CIB	2.64	1.16	2.44	1.21
1090	17.2668	CIB	2.62	1.23	2.444	1.18
1090	17.2722	CIB	2.55	1.3	2.408	1.16
558	17.2724	CIB	1.88	1.01	2.49	1.2
1090	17.2776	CIB	2.35	1.11	2.402	1.16
1090	17.283	CIB	3.05	1.33	2.398	1.13
1090	17.2884	CIB	2.18	1.06	2.494	1.15
1090	17.2939	CIB	2.53	1.16	2.454	1.11
1090	17.2993	CIB	2.36	1.09	2.314	1.12
1090	17.3047	CIB	2.15	0.91	2.36	1.08
747	17.31	CIB	2.35	1.38	2.36	1.08
1090	17.3101	CIB	2.41	0.85	2.376	1.08
1090	17.3155	CIB	2.53	1.18	2.374	1.09
1090	17.3209	CIB	2.44	1.06	2.276	0.97
1090	17.3263	CIB	2.14	0.97	2.26	1.01
593	17.33	CIB	1.86	0.77	2.128	0.95
1090	17.3317	CIB	2.33	1.05	2.072	0.92
1090	17.3372	CIB	1.87	0.89	2.06	0.89
1090	17.3426	CIB	2.16	0.91	2.052	0.89
1090	17.348	CIB	2.08	0.85	2.158	0.91
704	17.3512	CIB	1.82	0.74	2.2	0.99
1090	17.3534	CIB	2.86	1.14	2.26	0.97
747	17.3576	CIB	2.08	1.33	2.342	1.05
1090	17.3634	CIB	2.46	0.8	2.358	1.13
1090	17.3733	CIB	2.49	1.22	2.316	1.19
588	17.3852	CIB	1.9	1.14	2.436	1.16
1090	17.4032	CIB	2.65	1.48	2.446	1.2
1090	17.4132	CIB	2.68	1.15	2.448	1.17
1090	17.4231	CIB	2.51	1.01	2.52	1.2
1090	17.4331	CIB	2.5	1.08	2.37	1.11
360	17.4336	CIB	2.26	1.28	2.266	1.07
747	17.4369	CIB	1.9	1.03	2.19	1.03
1090	17.443	CIB	2.16	0.95	2.08	1.03
1090	17.453	CIB	2.13	0.83	2.054	0.97
608	17.4542	CIB	1.95	1.04	2.086	0.97
608	17.4542	CIB	2.13	1.02	2.098	0.91
704	17.4542	CIB	2.06	1.02	2.236	0.96
1090	17.4596	CIB	2.22	0.64	2.294	0.89
1090	17.486	CIB	2.82	1.06	2.296	0.91
1090	17.4926	CIB	2.24	0.73	2.386	0.9
360	17.4955	CIB	2.14	1.11	2.29	1.04
1090	17.4991	CIB	2.51	0.98	2.258	1.02
593	17.5	CIB	1.74	1.32	2.308	1.08
1090	17.5056	CIB	2.66	0.94	2.33	0.98
1090	17.5122	CIB	2.49	1.05	2.338	0.95
77	17.5158	CIB	2.25	0.61	2.378	0.94
1090	17.5187	CIB	2.55	0.85	2.306	0.92
588	17.5227	CIB	1.94	1.24	2.298	0.86
1090	17.5252	CIB	2.3	0.83	2.29	0.98

1090	17.5317	CIB	2.45	0.79	2.262	0.96
747	17.532	CIB	2.21	1.19	2.304	0.87
1090	17.5383	CIB	2.41	0.77	2.302	0.9
1090	17.5448	CIB	2.15	0.78	2.246	0.87
1090	17.5495	CIB	2.29	0.97	2.246	0.86
1090	17.5538	CIB	2.17	0.64	2.234	0.83
360	17.5573	CIB	2.21	1.12	2.102	0.87
1090	17.558	CIB	2.35	0.66	2.056	0.83
594	17.56	CIB	1.49	0.98	2.008	0.83
1090	17.5606	CIB	2.06	0.76	1.988	0.75
1090	17.5665	CIB	1.93	0.62	1.902	0.75
1090	17.5708	CIB	2.11	0.72	2.168	0.73
1090	17.575	CIB	1.92	0.66	2.302	0.79
1090	17.5793	CIB	2.82	0.89	2.24	0.83
1090	17.5818	CIB	2.73	1.04	2.226	0.9
1090	17.5827	CIB	1.62	0.84	2.292	0.93
608	17.5882	CIB	2.04	1.09	2.236	0.95
1090	17.5972	CIB	2.25	0.79	2.062	0.94
1090	17.6117	CIB	2.54	0.98	2.178	0.95
588	17.6175	CIB	1.86	0.98	2.252	0.93
360	17.6191	CIB	2.2	0.9	2.222	0.91
1090	17.6262	CIB	2.41	0.98	2.244	0.96
360	17.6397	CIB	2.1	0.71	2.24	0.9
1090	17.6407	CIB	2.65	1.22	2.214	0.95
1090	17.6581	CIB	1.84	0.7	2.164	0.94
206	17.66	CIB	2.07	1.14	2.196	0.98
1090	17.6644	CIB	2.16	0.92	2.124	0.96
1090	17.6724	CIB	2.26	0.93	2.12	1.02
747	17.6748	CIB	2.29	1.1	2.246	1.02
588	17.6756	CIB	1.82	1.02	2.266	1.01
1090	17.6803	CIB	2.7	1.11	2.31	1.01
1090	17.6882	CIB	2.26	0.87	2.294	0.97
1090	17.6961	CIB	2.48	0.95	2.518	0.98
1090	17.704	CIB	2.21	0.88	2.42	0.9
1090	17.7119	CIB	2.94	1.07	2.34	1.08
1090	17.7199	CIB	2.21	0.74	2.263	1.03
526	17.7207	CIB	1.86	1.75	2.321	1.05
926/929	17.7247	CIB	2.1	0.71	2.239	1.01
1090	17.7278	CIB	2.5	0.98	2.2767	1.01
1090	17.7373	CIB	2.53	0.88	2.2267	0.85
926/929	17.7414	CIB	2.4	0.72	2.2617	0.88
588	17.7419	CIB	1.61	0.94	2.2177	0.86
1090	17.7436	CIB	2.27	0.86	2.2328	0.85
1090	17.7515	CIB	2.28	0.89	2.2311	0.9
926/929	17.7581	CIB	2.61	0.85	2.4023	0.82
1090	17.7595	CIB	2.39	0.94	2.4583	0.85
926/929	17.7642	CIB	2.47	0.58	2.4506	0.84
1090	17.7674	CIB	2.55	1	2.3677	0.81
926/929	17.7677	CIB	2.24	0.85	2.2817	0.8
926/929	17.7712	CIB	2.19	0.67	2.2306	0.87
747	17.7731	CIB	1.96	0.89	2.0306	0.86
926/929	17.7747	CIB	2.21	0.94	1.9883	0.84
754	17.7749	CIB	1.55	0.93	1.9991	0.93
1090	17.7753	CIB	2.03	0.79	2.0611	0.86
926/929	17.7782	CIB	2.25	1.09	2.0876	0.9
704	17.7814	CIB	2.27	0.57	2.3596	0.95
926/929	17.7817	CIB	2.34	1.09	2.3838	0.94
1090	17.7826	CIB	2.91	1.19	2.358	0.88
926/929	17.7852	CIB	2.15	0.77	2.432	0.97
926/929	17.7887	CIB	2.12	0.76	2.3554	1.02

1090	17.79	CIB	2.64	1.04	2.2494	0.98
588	17.7918	CIB	1.96	1.34	2.2379	0.95
1090	17.7973	CIB	2.38	1	2.2167	1
926/929	17.7992	CIB	2.09	0.59	2.1207	0.99
588	17.8	CIB	2.01	1.04	2.1747	0.89
608	17.8016	CIB	2.16	0.96	2.1357	0.8
608	17.8016	CIB	2.23	0.85	2.203	0.87
926/929	17.8027	CIB	2.19	0.58	2.2192	0.83
1090	17.8046	CIB	2.43	0.93	2.2692	0.8
926/929	17.8097	CIB	2.09	0.85	2.2207	0.8
1090	17.8119	CIB	2.41	0.81	2.2163	0.87
926/929	17.8132	CIB	1.99	0.81	2.2183	0.88
926/929	17.8166	CIB	2.16	0.93	2.1485	0.9
1090	17.8193	CIB	2.44	1	2.1085	0.94
926/929	17.8236	CIB	1.74	0.93	2.1438	0.95
1090	17.8266	CIB	2.21	1.02	2.1771	0.95
926/929	17.8299	CIB	2.16	0.85	2.1681	0.93
1090	17.8328	CIB	2.33	0.93	2.2845	0.92
926/929	17.8357	CIB	2.39	0.91	2.3425	0.92
926/929	17.8386	CIB	2.32	0.88	2.3549	0.9
1090	17.839	CIB	2.5	1.04	2.3308	0.87
926/929	17.8415	CIB	2.23	0.75	2.3918	0.91
926/929	17.8443	CIB	2.21	0.76	2.3755	0.85
1090	17.8453	CIB	2.7	1.13	2.344	0.83
926/929	17.8472	CIB	2.24	0.56	2.4388	0.87
926/929	17.8501	CIB	2.34	0.95	2.3999	0.87
1090	17.8515	CIB	2.7	0.96	2.2669	0.84
926/929	17.853	CIB	2.02	0.76	2.3185	0.88
926/929	17.8559	CIB	2.03	0.97	2.2446	0.9
1090	17.8577	CIB	2.5	0.77	2.1187	0.87
926/929	17.8588	CIB	1.97	1.03	2.1616	0.86
926/929	17.8617	CIB	2.07	0.8	2.1591	0.87
1090	17.8639	CIB	2.23	0.73	2.0778	0.91
926/929	17.8646	CIB	2.02	1.04	2.1184	0.9
926/929	17.8675	CIB	2.09	0.96	2.2723	0.95
926/929	17.8703	CIB	2.18	0.98	2.3206	0.98
1090	17.8706	CIB	2.84	1.06	2.3926	0.91
926/929	17.8732	CIB	2.47	0.85	2.4599	0.89
926/929	17.8761	CIB	2.38	0.68	2.502	0.78
1090	17.8772	CIB	2.43	0.9	2.278	0.83
926/929	17.8794	CIB	2.39	0.42	2.3038	0.84
593	17.88	CIB	1.72	1.3	2.2949	0.85
1090	17.8839	CIB	2.6	0.88	2.246	0.83
926/929	17.8841	CIB	2.34	0.74	2.2507	0.99
926/929	17.8889	CIB	2.19	2.2783	0.84	NA
1090	17.8905	CIB	2.41	1.05	2.2823	0.84
926/929	17.8937	CIB	1.86	0.69	2.2251	0.77
1090	17.8972	CIB	2.62	0.89	2.1621	0.73
926/929	17.8984	CIB	2.05	0.45	2.1436	0.59
704	17.9027	CIB	1.87	0.58	2.242	0.59
926/929	17.9032	CIB	2.32	0.33	2.1752	0.48
1090	17.9038	CIB	2.35	0.72	2.2668	0.55
926/929	17.908	CIB	2.29	0.32	2.3068	0.64
1090	17.9105	CIB	2.51	0.79	2.2437	0.68
747	17.9126	CIB	2.07	1.04	2.1817	0.85
926/929	17.9127	CIB	2	0.52	2.1765	0.92
563	17.9128	CIB	2.04	1.56	2.058	0.96
1090	17.9172	CIB	2.26	0.71	2.024	0.92
926/929	17.9175	CIB	1.92	2.0135	1.1	NA
608	17.9229	CIB	1.9	0.88	2.1155	0.91

588	17.9235	CIB	1.95	1.24	2.0855	0.93
1090	17.9238	CIB	2.55	0.79	2.0523	0.81
1090	17.9305	CIB	2.11	0.82	2.0632	0.73
926/929	17.9309	CIB	1.75	0.3	2.1192	0.62
926/929	17.9343	CIB	1.95	0.51	2.0058	0.58
1090	17.9371	CIB	2.23	0.7	1.9998	0.51
926/929	17.9412	CIB	1.98	0.56	2.129	0.54
1090	17.9438	CIB	2.08	0.49	2.1601	0.55
926/929	17.9447	CIB	2.4	0.43	2.2206	0.44
1090	17.9481	CIB	2.11	0.58	2.3183	0.44
926/929	17.9482	CIB	2.53	0.17	2.3783	0.47
926/929	17.9516	CIB	2.47	0.55	2.3633	0.55
1090	17.9524	CIB	2.38	0.6	2.3773	0.58
926/929	17.9551	CIB	2.32	0.83	2.3245	0.71
1090	17.9567	CIB	2.18	0.73	2.2882	0.73
926/929	17.9586	CIB	2.27	0.85	2.2558	0.76
1090	17.9609	CIB	2.29	0.66	2.2513	0.74
926/929	17.962	CIB	2.22	0.73	2.2641	0.73
1090	17.9652	CIB	2.3	0.76	2.2965	0.64
926/929	17.9655	CIB	2.24	0.67	2.2865	0.66
926/929	17.969	CIB	2.43	0.38	2.2636	0.76
1090	17.9695	CIB	2.24	0.77	2.3076	0.79
926/929	17.9724	CIB	2.1	1.24	2.2644	0.89
1090	17.9738	CIB	2.52	0.89	2.2003	0.94
926/929	17.9759	CIB	2.03	1.17	2.1576	1.02
1090	17.9781	CIB	2.11	0.62	2.237	0.91
926/929	17.9793	CIB	2.03	1.19	2.1223	0.96
1090	17.9824	CIB	2.5	0.67	2.0932	0.91
926/929	17.9828	CIB	1.95	1.15	2.1652	0.99
926/929	17.9863	CIB	1.88	0.92	2.1509	0.91
1090	17.9866	CIB	2.47	1.04	2.1649	0.9
926/929	17.9897	CIB	1.96	0.78	2.2266	0.81
1090	17.9909	CIB	2.57	0.62	2.32	0.82
926/929	17.9932	CIB	2.25	0.68	2.2835	0.72
1090	17.9952	CIB	2.35	0.97	2.4144	0.76
926/929	17.9967	CIB	2.29	0.54	2.365	0.72
1090	17.9995	CIB	2.61	1	2.3215	0.73
926/929	18.0002	CIB	2.32	0.41	2.2915	0.7
926/929	18.0043	CIB	2.04	0.75	2.2541	0.76
1090	18.0054	CIB	2.2	0.8	2.106	0.7
747	18.0078	CIB	2.1	0.85	2.1094	0.78
926/929	18.0083	CIB	1.87	0.67	2.065	0.7
1090	18.0114	CIB	2.34	0.82	1.9667	0.66
926/929	18.0123	CIB	1.82	0.36	2.0067	0.61
926/929	18.0164	CIB	1.71	0.59	2.099	0.57
1090	18.0173	CIB	2.3	0.62	2.123	0.5
926/929	18.0204	CIB	2.33	0.45	2.1672	0.49
1090	18.0233	CIB	2.46	0.5	2.2007	0.33
926/929	18.0245	CIB	2.04	0.27	2.1947	0.32
926/929	18.0285	CIB	1.88	-0.17	2.0864	0.46
1090	18.0292	CIB	2.27	0.57	1.9759	0.42
588	18.0315	CIB	1.79	1.13	2.0227	0.48
926/929	18.0325	CIB	1.91	0.29	2.0815	0.66
1090	18.0328	CIB	2.27	0.6	1.9713	0.53
1090	18.0352	CIB	2.17	0.72	1.9673	0.55
926/929	18.0366	CIB	1.72	-0.08	1.9929	0.57
593	18.04	CIB	1.77	1.21	2.0589	0.58
926/929	18.0406	CIB	2.04	0.4	2.0692	0.47
1090	18.0423	CIB	2.6	0.67	2.2535	0.63
926/929	18.0446	CIB	2.22	0.15	2.3835	0.5

1090	18.0459	CIB	2.64	0.74	2.4266	0.5
1090	18.0483	CIB	2.42	0.52	2.3806	0.46
926/929	18.0488	CIB	2.25	0.41	2.2708	0.54
1090	18.053	CIB	2.37	0.49	2.2208	0.49
926/929	18.0531	CIB	1.67	0.57	2.1355	0.55
1090	18.059	CIB	2.39	0.47	2.1411	0.55
926/929	18.0615	CIB	1.99	0.8	2.0536	0.59
1090	18.0649	CIB	2.28	0.42	2.1112	0.62
926/929	18.0658	CIB	1.93	0.7	1.9852	0.77
926/929	18.07	CIB	1.96	0.69	1.9255	0.74
588	18.0701	CIB	1.76	1.25	1.8915	0.74
926/929	18.0742	CIB	1.7	0.65	1.8972	0.73
1090	18.078	CIB	2.11	0.42	1.9432	0.69
926/929	18.0785	CIB	1.96	0.65	2.0198	0.62
1090	18.0839	CIB	2.19	0.45	2.0928	0.57
926/929	18.0869	CIB	2.14	0.92	2.1098	0.65
1090	18.0887	CIB	2.06	0.41	2.1556	0.61
926/929	18.0912	CIB	2.19	0.8	2.1375	0.71
1090	18.0946	CIB	2.19	0.47	2.0857	0.74
926/929	18.0961	CIB	2.1	0.94	2.1297	0.77
926/929	18.0993	CIB	1.88	1.05	2.067	0.75
1090	18.1018	CIB	2.28	0.56	2.017	0.91
926/929	18.1046	CIB	1.88	0.74	2.0482	0.91
588	18.1072	CIB	1.94	1.25	2.1774	0.87
926/929	18.1073	CIB	2.26	0.95	2.0922	0.93
1090	18.1077	CIB	2.53	0.86	2.1666	0.97
926/929	18.1099	CIB	1.85	0.88	2.2306	0.92
926/929	18.1126	CIB	2.25	0.9	2.1835	0.88
1090	18.1137	CIB	2.26	0.99	2.0969	0.9
704	18.1149	CIB	2.02	0.79	2.2234	0.93
926/929	18.1179	CIB	0.94	2.1285	0.94	NA
1090	18.1196	CIB	2.36	1.03	2.2485	0.92
926/929	18.1232	CIB	1.87	0.93	2.1635	0.93
1090	18.1236	CIB	2.74	0.93	2.0928	0.92
608	18.125	CIB	1.68	0.84	2.028	0.92
608	18.125	CIB	1.81	0.88	2.1552	0.91
926/929	18.1285	CIB	2.04	1.04	2.0654	0.81
1090	18.1287	CIB	2.51	0.84	2.1934	0.82
926/929	18.1338	CIB	2.29	0.43	2.2714	0.79
1090	18.1347	CIB	2.32	0.9	2.4042	0.77
926/929	18.1391	CIB	2.2	0.74	2.4022	0.75
1090	18.1397	CIB	2.7	0.94	2.3652	0.77
1090	18.1438	CIB	2.5	0.74	2.4512	0.78
926/929	18.1444	CIB	2.11	0.51	2.4184	0.64
1090	18.1488	CIB	2.75	0.94	2.2924	0.63
926/929	18.1498	CIB	2.04	0.05	2.2744	0.64
747	18.1505	CIB	2.07	0.92	2.2835	0.64
1090	18.1548	CIB	2.41	0.77	2.2215	0.62
926/929	18.1551	CIB	2.15	0.5	2.261	0.61
1090	18.1599	CIB	2.44	0.86	2.2943	0.55
926/929	18.1604	CIB	2.23	0.02	2.2503	0.59
926/929	18.1636	CIB	2.24	0.63	2.2258	0.67
1090	18.1649	CIB	2.19	0.94	2.1044	0.65
926/929	18.1664	CIB	2.03	0.92	2.1018	0.79
926/929	18.1691	CIB	1.83	0.74	2.0837	0.89
1090	18.1699	CIB	2.22	0.73	2.0837	0.83
926/929	18.1718	CIB	2.15	1.1	2.1034	0.86
1090	18.174	CIB	2.19	0.66	2.1721	0.9
926/929	18.1746	CIB	2.13	1.07	2.1961	0.92
926/929	18.1773	CIB	2.18	0.96	2.1774	0.94

1090	18.179	CIB	2.34	0.82	2.151	1.04
926/929	18.18	CIB	2.05	1.17	2.1716	0.97
926/929	18.1828	CIB	2.06	1.16	2.1489	1
1090	18.185	CIB	2.23	0.75	2.1403	1
926/929	18.1855	CIB	2.06	1.11	2.1537	0.87
926/929	18.1882	CIB	2.3	0.83	2.225	0.75
1090	18.1901	CIB	2.12	0.48	2.2618	0.78
926/929	18.191	CIB	2.41	0.6	2.2891	0.71
926/929	18.1937	CIB	2.41	0.88	2.2294	0.69
1090	18.1941	CIB	2.2	0.78	2.2814	0.71
926/929	18.1964	CIB	2	0.72	2.2481	0.7
1090	18.1991	CIB	2.38	0.57	2.1046	0.78
926/929	18.1992	CIB	0.55	2.1021	0.8	NA
593	18.2	CIB	1.84	1.29	2.1728	0.76
1090	18.2052	CIB	2.19	0.9	2.0103	0.66
926/929	18.2081	CIB	2.28	0.49	2.0783	0.72
77	18.21	CIB	1.73	0.05	2.1316	0.64
1090	18.2102	CIB	2.35	0.86	2.1456	0.61
926/929	18.2113	CIB	2.11	0.9	2.1184	0.74
1090	18.2152	CIB	2.26	0.75	2.1944	0.87
926/929	18.2176	CIB	2.15	1.13	2.1129	0.91
1090	18.2203	CIB	2.11	0.73	2.0597	0.96
926/929	18.2208	CIB	1.94	1.03	2.0737	0.94
926/929	18.224	CIB	1.84	1.15	2.0282	0.94
1090	18.2243	CIB	2.33	0.65	2.0022	0.92
926/929	18.2271	CIB	1.92	1.12	2.0461	0.82
1090	18.2274	CIB	1.98	0.67	2.1559	0.78
926/929	18.2303	CIB	2.16	0.53	2.1657	0.81
1090	18.231	CIB	2.39	0.94	2.2581	0.77
926/929	18.2335	CIB	2.38	2.2901	0.86	NA
1090	18.2341	CIB	2.38	0.95	2.2991	0.98
1090	18.2365	CIB	2.14	1.04	2.3231	1.02
926/929	18.2366	CIB	2.21	0.99	2.3269	0.97
1090	18.2396	CIB	2.51	1.09	2.2749	0.98
926/929	18.2398	CIB	2.4	0.78	2.2389	0.93
1090	18.2433	CIB	2.12	1.01	2.2356	0.88
747	18.2457	CIB	1.96	0.8	2.2056	0.86
1090	18.2469	CIB	2.19	0.73	2.1659	0.87
1090	18.25	CIB	2.36	0.98	2.3079	0.91
926/929	18.2508	CIB	2.2	0.85	2.3939	0.91
1090	18.2531	CIB	2.83	1.2	2.3899	0.91
1090	18.2555	CIB	2.39	0.81	2.3827	0.83
704	18.2564	CIB	2.17	0.7	2.4708	0.85
926/929	18.2565	CIB	2.32	0.6	2.3648	0.77
1090	18.2586	CIB	2.64	0.95	2.3627	0.72
1090	18.2622	CIB	2.3	0.79	2.2907	0.78
926/929	18.2623	CIB	2.38	0.53	2.3399	0.77
588	18.263	CIB	1.81	1	2.2995	0.67
1090	18.2653	CIB	2.57	0.59	2.3275	0.72
926/929	18.2675	CIB	2.44	0.43	2.3057	0.63
1090	18.2716	CIB	2.44	1.03	2.3137	0.6
926/929	18.2726	CIB	2.27	0.13	2.1777	0.66
558	18.2766	CIB	1.85	0.85	2.1901	0.74
608	18.2766	CIB	1.89	0.87	2.1607	0.61
1090	18.2795	CIB	2.5	0.83	2.1726	0.74
926/929	18.2828	CIB	2.29	0.35	2.1626	0.85
1090	18.289	CIB	2.33	0.79	2.2711	0.76
754	18.2903	CIB	1.8	1.43	2.2651	0.75
926/929	18.2927	CIB	2.43	0.39	2.2682	0.75
1090	18.2969	CIB	2.47	0.8	2.2482	0.74

926/929	18.297	CIB	2.31	0.35	2.2852	0.59
1090	18.3048	CIB	2.23	0.73	2.25	0.58
926/929	18.3056	CIB	1.99	0.7	2.1215	0.55
926/929	18.3089	CIB	2.26	0.31	2.0623	0.61
926/929	18.3111	CIB	1.83	0.64	2.0703	0.57
926/929	18.312	CIB	2.01	0.65	2.0622	0.53
1090	18.3127	CIB	2.27	0.56	1.9881	0.6
926/929	18.315	CIB	1.94	0.49	2.0726	0.58
926/929	18.3181	CIB	1.89	0.68	2.0581	0.74
1090	18.319	CIB	2.25	0.52	2.0255	0.76
593	18.32	CIB	1.94	1.47	2.0963	0.83
926/929	18.3235	CIB	2.11	0.66	2.2351	0.89
926/929	18.3242	CIB	2.3	0.8	2.3302	0.92
1090	18.3269	CIB	2.58	1.02	2.4462	0.76
926/929	18.3316	CIB	2.73	0.62	2.5689	0.78
1090	18.3318	CIB	2.52	0.69	2.5632	0.74
926/929	18.3337	CIB	2.72	0.75	2.4972	0.67
1090	18.3359	CIB	2.27	0.6	2.414	0.69
1090	18.3392	CIB	2.25	0.69	2.3426	0.73
1090	18.3433	CIB	2.31	0.71	2.2486	0.71
926/929	18.3468	CIB	2.16	0.91	2.2466	0.76
1090	18.3482	CIB	2.25	0.64	2.3346	0.78
1090	18.3523	CIB	2.26	0.83	2.2888	0.82
1090	18.3564	CIB	2.69	0.8	2.4082	0.79
926/929	18.3581	CIB	2.08	0.93	2.4282	0.81
1090	18.3605	CIB	2.76	0.74	2.4982	0.83
1090	18.3638	CIB	2.35	0.76	2.4662	0.81
1090	18.3679	CIB	2.61	0.91	2.526	0.79
1090	18.372	CIB	2.53	0.71	2.45	0.8
1090	18.3754	CIB	2.38	0.81	2.488	0.78
1090	18.3781	CIB	2.38	0.8	2.466	0.74
1090	18.3808	CIB	2.54	0.67	2.3	0.76
1090	18.3848	CIB	2.5	0.72	2.234	0.73
588	18.3865	CIB	1.7	0.79	2.164	0.73
1090	18.3882	CIB	2.05	0.65	2.0827	0.74
747	18.3884	CIB	2.03	0.8	2.0687	0.77
926/929	18.391	CIB	2.13	0.75	2.2287	0.74
1090	18.3916	CIB	2.43	0.88	2.3107	0.73
1090	18.395	CIB	2.5	0.63	2.3465	0.73
1090	18.3977	CIB	2.46	0.58	2.4478	0.72
926/929	18.3996	CIB	2.21	0.82	2.4158	0.67
1090	18.4011	CIB	2.64	0.71	2.2686	0.69
1090	18.4052	CIB	2.27	0.61	2.2286	0.72
926/929	18.4068	CIB	1.76	0.74	2.1853	0.75
1090	18.4113	CIB	2.26	0.7	2.0586	0.76
926/929	18.4128	CIB	1.99	1	1.9837	0.8
926/929	18.414	CIB	2.01	0.76	2.0593	0.82
926/929	18.4149	CIB	1.9	2.0253	0.78	NA
926/929	18.417	CIB	2.14	2.1067	0.77	NA
1090	18.4187	CIB	2.09	0.59	2.1297	0.78
1090	18.4221	CIB	2.4	0.95	2.1364	0.74
926/929	18.4222	CIB	2.12	0.8	2.16	0.72
926/929	18.4222	CIB	1.93	0.63	2.0838	0.79
1090	18.4255	CIB	2.26	0.65	2.0478	0.69
926/929	18.4282	CIB	1.71	0.92	2.0076	0.68
1090	18.4289	CIB	2.22	0.44	2.0818	0.63
608	18.4302	CIB	1.92	0.76	1.9894	0.67
1090	18.4316	CIB	2.3	0.38	1.9864	0.67
926/929	18.4328	CIB	1.8	0.84	2.0004	0.66
926/929	18.4334	CIB	1.69	0.91	1.9781	0.69

1090	18.4346	CIB	2.29	0.43	2.0081	0.78
926/929	18.4367	CIB	1.81	0.9	2.0545	0.91
1090	18.4381	CIB	2.45	0.8	2.1157	0.93
593	18.44	CIB	2.03	1.52	2.2177	1.06
926/929	18.44	CIB	2	0.98	2.3174	1.08
1090	18.441	CIB	2.8	1.1	2.3514	1.13
926/929	18.4433	CIB	2.31	1	2.4094	1.05
1090	18.444	CIB	2.62	1.03	2.5074	1.06
926/929	18.4466	CIB	2.32	1.14	2.4554	1.02
1090	18.4469	CIB	2.49	1.01	2.4171	0.97
1090	18.4499	CIB	2.54	0.91	2.3257	0.99
926/929	18.4499	CIB	2.12	0.79	2.3617	0.89
926/929	18.4532	CIB	2.16	1.1	2.3047	0.9
1090	18.4558	CIB	2.5	0.63	2.2274	0.91
926/929	18.4565	CIB	2.21	1.06	2.2954	0.95
926/929	18.4598	CIB	2.15	0.99	2.3508	0.9
926/929	18.4631	CIB	2.46	2.2418	0.99	NA
1090	18.4635	CIB	2.44	0.91	2.1951	0.92
926/929	18.4665	CIB	1.96	0.99	2.2484	0.98
926/929	18.4703	CIB	1.97	0.78	2.1601	0.99
1090	18.4731	CIB	2.42	1.22	2.066	1
926/929	18.474	CIB	2.01	1.06	2.0442	0.98
926/929	18.4777	CIB	1.97	0.97	2.1519	1.02
926/929	18.4814	CIB	1.85	0.87	2.0552	0.94
1090	18.4828	CIB	2.51	0.96	2.0585	0.91
926/929	18.4851	CIB	1.94	0.86	2.0801	0.87
747	18.4852	CIB	2.03	0.88	2.1888	0.94
926/929	18.4888	CIB	2.08	0.79	2.1066	0.91
1090	18.4924	CIB	2.39	1.23	2.1192	0.91
926/929	18.4926	CIB	2.1	0.79	2.1096	0.92
926/929	18.4966	CIB	2	0.85	2.1381	0.97
926/929	18.5006	CIB	1.98	1.9917	0.88	NA
1090	18.5018	CIB	2.22	1	2.0599	0.9
926/929	18.5046	CIB	1.66	0.88	2.0478	0.84
1090	18.5065	CIB	2.44	0.89	2.1453	0.8
926/929	18.5086	CIB	1.94	0.57	2.0591	0.69
1090	18.5122	CIB	2.47	0.64	2.0937	0.65
926/929	18.5126	CIB	1.79	0.48	2.0997	0.65
926/929	18.5166	CIB	1.83	2.0662	0.67	NA
1090	18.52	CIB	2.47	0.91	2.0862	0.71
926/929	18.5206	CIB	1.77	0.63	2.1442	0.79
1090	18.5239	CIB	2.57	0.83	2.256	0.81
926/929	18.5246	CIB	2.08	2.2256	0.72	NA
1090	18.527	CIB	2.39	0.88	2.3294	0.78
926/929	18.5286	CIB	2.32	0.54	2.2914	0.76
1090	18.5309	CIB	2.29	0.86	2.3508	0.76
926/929	18.5321	CIB	2.38	0.75	2.3308	0.75
926/929	18.5343	CIB	2.38	0.77	2.3308	0.79
1090	18.5356	CIB	2.29	0.85	2.3168	0.83
926/929	18.5365	CIB	2.32	0.74	2.3148	0.89
926/929	18.5388	CIB	2.22	1.07	2.2236	0.93
1090	18.5395	CIB	2.37	1.05	2.2276	0.9
926/929	18.541	CIB	1.92	0.94	2.2131	0.9
1090	18.5426	CIB	2.31	0.7	2.2591	0.8
926/929	18.5442	CIB	2.25	0.72	2.2384	0.79
1090	18.5465	CIB	2.45	0.59	2.3203	0.73
926/929	18.5476	CIB	2.27	0.98	2.3203	0.71
926/929	18.551	CIB	2.33	0.66	2.313	0.76
1090	18.5524	CIB	2.31	0.58	2.333	0.86
926/929	18.5545	CIB	2.21	1.01	2.3218	0.83

1090	18.5585	CIB	2.55	1.07	2.388	0.88
926/929	18.5613	CIB	2.21	0.84	2.472	1
1090	18.5646	CIB	2.66	0.9	2.477	0.95
1090	18.5706	CIB	2.73	1.19	2.433	0.91
926/929	18.5729	CIB	2.23	0.77	2.4652	0.85
1090	18.5755	CIB	2.33	0.84	2.4292	0.84
926/929	18.577	CIB	2.37	0.57	2.3429	0.81
1090	18.5816	CIB	2.48	0.82	2.3941	0.86
926/929	18.5853	CIB	2.3	1.03	2.3914	0.9
1090	18.5888	CIB	2.49	1.02	2.3231	0.85
926/929	18.5895	CIB	2.32	1.07	2.2877	0.87
704	18.5906	CIB	2.03	0.29	2.3539	0.79
926/929	18.5936	CIB	2.3	0.96	2.2483	0.72
1090	18.5949	CIB	2.63	0.6	2.285	0.7
926/929	18.5975	CIB	1.96	0.68	2.3176	0.83
1090	18.5985	CIB	2.5	0.96	2.377	0.82
926/929	18.6012	CIB	2.19	0.93	2.3287	0.89
1090	18.6031	CIB	2.6	0.92	2.4363	0.92
926/929	18.605	CIB	2.39	0.94	2.4503	0.9
1090	18.6085	CIB	2.5	0.86	2.3957	0.96
926/929	18.6088	CIB	2.57	0.85	2.3534	0.93
593	18.61	CIB	1.92	1.24	2.4177	0.91
926/929	18.6123	CIB	2.39	0.78	2.3863	0.92
1090	18.6131	CIB	2.71	0.81	2.3283	0.82
926/929	18.6153	CIB	2.34	0.94	2.4363	0.8
926/929	18.6182	CIB	2.28	0.34	2.445	0.77
1090	18.6185	CIB	2.46	1.13	2.379	0.8
926/929	18.6212	CIB	2.43	0.66	2.4078	0.72
1090	18.6222	CIB	2.38	0.93	2.4279	0.78
926/929	18.6242	CIB	2.49	0.54	2.3922	0.77
1090	18.6258	CIB	2.38	0.63	2.3615	0.86
926/929	18.6271	CIB	2.28	1.1	2.3455	0.81
926/929	18.6301	CIB	2.28	1.12	2.3221	0.88
1090	18.6303	CIB	2.3	0.69	2.3051	0.96
1090	18.6321	CIB	2.37	0.86	2.3308	0.87
926/929	18.6331	CIB	2.3	1.04	2.3204	0.84
1090	18.6349	CIB	2.41	0.64	2.298	0.89
926/929	18.636	CIB	2.23	0.99	2.308	0.87
926/929	18.639	CIB	2.19	0.93	2.2993	0.78
1090	18.6394	CIB	2.42	0.76	2.2513	0.77
926/929	18.642	CIB	2.25	0.56	2.2624	0.74
1090	18.644	CIB	2.17	0.62	2.2808	0.79
926/929	18.6449	CIB	2.28	0.84	2.2175	0.82
563	18.6472	CIB	2.28	1.17	2.2272	0.86
926/929	18.6479	CIB	2.1	0.91	2.2482	0.91
1090	18.6485	CIB	2.3	0.76	2.3117	0.84
926/929	18.6508	CIB	2.27	0.85	2.2663	0.8
1090	18.653	CIB	2.6	0.49	2.2736	0.7
926/929	18.6565	CIB	2.05	1	2.3256	0.72
704	18.6566	CIB	2.14	0.4	2.2486	0.72
1090	18.6621	CIB	2.56	0.85	2.1766	0.74
926/929	18.6628	CIB	1.89	0.87	2.1816	0.7
1090	18.6667	CIB	2.24	0.58	2.1796	0.74
926/929	18.6692	CIB	2.08	0.81	2.1876	0.78
1090	18.6712	CIB	2.13	0.57	2.3137	0.78
1090	18.6758	CIB	2.6	1.09	2.336	0.74
1090	18.6803	CIB	2.52	0.83	2.4383	0.81
926/929	18.6824	CIB	2.35	0.42	2.3814	0.8
1090	18.6848	CIB	2.59	1.14	2.392	0.77
926/929	18.6875	CIB	1.85	0.49	2.3065	0.74

1090	18.6894	CIB	2.65	0.96	2.2485	0.82
926/929	18.6907	CIB	2.09	0.69	2.1435	0.66
926/929	18.6918	CIB	2.06	0.79	2.2244	0.73
926/929	18.6938	CIB	2.06	0.36	2.1301	0.7
1090	18.6939	CIB	2.25	0.83	2.1633	0.67
926/929	18.6957	CIB	2.18	0.84	2.277	0.7
926/929	18.697	CIB	2.26	0.52	2.2856	0.78
1090	18.6994	CIB	2.63	0.93	2.2836	0.78
926/929	18.6996	CIB	2.11	0.8	2.2631	0.78
1090	18.703	CIB	2.24	0.8	2.2674	0.84
926/929	18.7035	CIB	2.08	0.85	2.0916	0.85
747	18.7056	CIB	2.28	0.83	2.184	0.85
926/929	18.7074	CIB	1.75	0.98	2.1217	0.88
1090	18.7076	CIB	2.57	0.78	2.0539	0.83
926/929	18.7113	CIB	1.93	0.95	2.0439	0.86
1090	18.7121	CIB	1.74	0.62	2.0847	0.85
1090	18.7149	CIB	2.23	0.96	2.0527	0.89
926/929	18.7152	CIB	1.95	0.96	2.0987	0.9
1090	18.7177	CIB	2.41	0.97	2.1987	1.01
926/929	18.7191	CIB	2.16	0.98	2.1047	0.86
1090	18.7204	CIB	2.24	1.19	2.2048	0.84
704	18.7227	CIB	1.76	0.21	2.1248	0.8
747	18.723	CIB	2.01	0.77	2.1071	0.67
926/929	18.723	CIB	2.46	0.83	2.1511	0.75
1090	18.7232	CIB	2.29	0.75	2.254	0.79
1090	18.726	CIB	2.02	0.8	2.2549	0.84
926/929	18.7269	CIB	2.49	0.81	2.3494	0.85
1090	18.7288	CIB	2.46	1.09	2.3054	0.87
926/929	18.7305	CIB	2.48	0.77	2.3494	0.9
608	18.7321	CIB	2.07	0.87	2.2993	0.89
1090	18.7321	CIB	2.24	0.93	2.3273	0.91
926/929	18.7341	CIB	2.24	0.8	2.2789	0.92
1090	18.7343	CIB	2.6	1.18	2.2917	0.91
1090	18.7371	CIB	2.24	0.82	2.2588	0.91
926/929	18.7376	CIB	2.13	0.81	2.2139	0.89
926/929	18.7412	CIB	2.08	0.92	2.113	0.83
1090	18.7427	CIB	2.02	0.7	2.033	0.82
926/929	18.7448	CIB	2.1	0.9	2.0542	0.86
1090	18.7454	CIB	1.84	0.77	2.0562	0.89
1090	18.7482	CIB	2.24	0.99	2.071	0.95
926/929	18.7483	CIB	2.09	1.1	2.0619	0.88
926/929	18.7485	CIB	2.09	0.97	2.1263	0.84
1090	18.751	CIB	2.05	0.59	2.0792	0.84
926/929	18.7513	CIB	2.16	0.53	2.0415	0.77
926/929	18.7519	CIB	2	1.01	2.0826	0.7
926/929	18.7539	CIB	1.9	0.73	2.0656	0.77
1090	18.7546	CIB	2.3	0.64	2.116	0.74
926/929	18.7555	CIB	1.97	0.96	2.1491	0.7
926/929	18.7565	CIB	2.41	0.36	2.2076	0.6
1090	18.7581	CIB	2.17	0.82	2.2716	0.73
926/929	18.7591	CIB	2.19	0.22	2.3046	0.6
1090	18.7617	CIB	2.62	1.28	2.2446	0.63
926/929	18.7618	CIB	2.13	0.32	2.2826	0.63
926/929	18.7644	CIB	2.11	0.5	2.3689	0.81
1090	18.7652	CIB	2.36	0.81	2.1849	0.63
77	18.7688	CIB	1.7	0.37	2.3502	0.78
1090	18.7688	CIB	2.62	1.15	2.2608	0.77
1090	18.7724	CIB	2.51	1.03	2.2102	0.88
926/929	18.7731	CIB	2.56	0.52	2.1782	0.82
754	18.7742	CIB	1.66	1.35	2.3219	0.75

1090	18.7759	CIB	2.46	0.84	2.3199	0.7
926/929	18.7768	CIB	2.42	0.03	2.1975	0.65
1090	18.7795	CIB	2.5	0.75	2.3675	0.51
926/929	18.7806	CIB	1.95	0.28	2.302	0.49
1090	18.783	CIB	2.51	0.64	2.2105	0.62
926/929	18.7843	CIB	2.13	0.74	2.1905	0.64
926/929	18.7881	CIB	1.96	0.69	2.1439	0.75
1090	18.7902	CIB	2.4	0.84	2.1119	0.78
926/929	18.7919	CIB	1.72	0.84	2.1226	0.79
1090	18.7937	CIB	2.35	0.79	2.2465	0.81
926/929	18.7956	CIB	2.19	0.82	2.2965	0.8
1090	18.7973	CIB	2.58	0.74	2.3426	0.74
1090	18.8008	CIB	2.65	0.81	2.4106	0.83
926/929	18.8031	CIB	1.95	0.55	2.3571	0.69
1090	18.8044	CIB	2.69	1.23	2.3431	0.77
926/929	18.8069	CIB	1.92	0.1	2.2682	0.58
1090	18.8079	CIB	2.51	1.16	2.3889	0.72
926/929	18.8107	CIB	2.28	-0.15	2.274	0.57
1090	18.8115	CIB	2.55	1.27	2.3802	0.73
926/929	18.8144	CIB	2.12	0.48	2.2722	0.66
1090	18.8151	CIB	2.45	0.88	2.2851	0.84
747	18.8166	CIB	1.97	0.82	2.185	0.57
1090	18.8186	CIB	2.34	0.75	2.2759	0.65
926/929	18.8213	CIB	2.05	-0.09	2.226	0.64
1090	18.8222	CIB	2.57	0.87	2.284	0.6
926/929	18.8245	CIB	2.2	0.82	2.1915	0.47
1090	18.8257	CIB	2.26	0.63	2.2036	0.61
926/929	18.8277	CIB	1.88	0.12	2.1756	0.59
1090	18.8293	CIB	2.11	0.59	2.1435	0.67
1090	18.8327	CIB	2.43	0.81	2.0911	0.73
588	18.8341	CIB	2.04	1.19	2.2796	0.91
926/929	18.8341	CIB	2	0.94	2.3214	0.98
1090	18.8361	CIB	2.82	1.02	2.1954	0.92
926/929	18.8373	CIB	2.32	0.95	2.3114	0.88
704	18.8375	CIB	1.8	0.48	2.3438	0.87
1090	18.8396	CIB	2.62	1.02	2.2438	0.8
926/929	18.8406	CIB	2.16	0.89	2.2436	0.77
1090	18.843	CIB	2.32	0.68	2.3876	0.81
926/929	18.8438	CIB	2.32	0.78	2.2973	0.76
1090	18.8464	CIB	2.52	0.7	2.3632	0.74
926/929	18.847	CIB	2.17	0.76	2.3399	0.74
1090	18.8498	CIB	2.49	0.78	2.3704	0.71
926/929	18.8502	CIB	2.2	0.7	2.2867	0.72
1090	18.8533	CIB	2.47	0.62	2.2781	0.64
926/929	18.8534	CIB	2.1	0.74	2.1841	0.65
926/929	18.8566	CIB	2.13	0.33	2.2374	0.62
926/929	18.8598	CIB	2.02	0.85	2.1778	0.62
1090	18.8601	CIB	2.47	0.54	2.2334	0.62
926/929	18.863	CIB	2.17	0.64	2.2224	0.75
1090	18.8636	CIB	2.38	0.76	2.2154	0.75
747	18.8642	CIB	2.07	0.95	2.1614	0.76
926/929	18.8663	CIB	1.99	0.88	2.2311	0.84
1090	18.8677	CIB	2.2	0.59	2.1151	0.84
1090	18.8704	CIB	2.52	1	2.1136	0.79
926/929	18.8738	CIB	1.8	0.76	2.1625	0.79
926/929	18.8785	CIB	2.06	0.74	2.2047	0.79
1090	18.8808	CIB	2.23	0.88	2.2047	0.77
926/929	18.888	CIB	2.41	0.58	2.3102	0.75
1090	18.8912	CIB	2.52	0.9	2.3203	0.75
926/929	18.8921	CIB	2.33	0.66	2.3104	0.68

926/929	18.8958	CIB	2.11	0.71	2.3882	0.74
926/929	18.8996	CIB	2.18	0.53	2.3043	0.62
1090	18.9017	CIB	2.8	0.9	2.2049	0.57
926/929	18.9034	CIB	2.1	0.28	2.142	0.58
77	18.9052	CIB	1.83	0.43	2.0899	0.54
926/929	18.9071	CIB	1.8	0.77	1.9979	0.5
926/929	18.9109	CIB	1.92	0.31	1.9712	0.58
1090	18.9121	CIB	2.34	0.71	2.1352	0.64
926/929	18.9147	CIB	1.97	0.67	2.1733	0.6
1090	18.9165	CIB	2.65	0.75	2.3134	0.73
926/929	18.9184	CIB	1.99	0.56	2.2448	0.7
1090	18.9209	CIB	2.62	0.95	2.3533	0.73
926/929	18.9221	CIB	2	0.58	2.2602	0.73
1090	18.9253	CIB	2.51	0.79	2.3322	0.76
926/929	18.9258	CIB	2.18	0.76	2.2282	0.66
704	18.9295	CIB	2.1	0.44	2.3206	0.8
926/929	18.9295	CIB	2.35	0.71	2.3388	0.74
1090	18.9297	CIB	2.55	0.99	2.3267	0.78
1218	18.93	CIB	2.42	1.1	2.3988	0.83
926/929	18.9332	CIB	2.22	0.66	2.4141	0.96
1090	18.9349	CIB	2.71	0.97	2.4201	0.94
926/929	18.9368	CIB	2.18	1.09	2.3543	0.82
1090	18.9379	CIB	2.58	0.9	2.3607	0.91
704	18.9398	CIB	2.09	0.5	2.3087	0.95
926/929	18.9404	CIB	2.25	1.08	2.2614	0.96
1090	18.9417	CIB	2.45	1.17	2.1634	0.97
588	18.9421	CIB	1.94	1.17	2.192	1.08
747	18.9435	CIB	2.09	0.95	2.2267	1.06
926/929	18.944	CIB	2.23	1.05	2.1625	1.02
1090	18.9456	CIB	2.42	0.95	2.2045	0.95
926/929	18.9477	CIB	2.13	0.97	2.1205	0.85
1090	18.9494	CIB	2.15	0.84	2.0358	0.75
608	18.95	CIB	1.67	0.45	2.0037	0.74
608	18.95	CIB	1.81	0.54	2.0419	0.69
926/929	18.9513	CIB	2.26	0.9	2.0778	0.62
1090	18.9532	CIB	2.32	0.72	2.1898	0.72
926/929	18.9549	CIB	2.33	0.51	2.3083	0.69
1090	18.957	CIB	2.23	0.92	2.3764	0.66
926/929	18.9585	CIB	2.4	0.41	2.388	0.59
1090	18.9609	CIB	2.6	0.76	2.4681	0.66
926/929	18.9622	CIB	2.38	0.37	2.4682	0.62
1090	18.9647	CIB	2.73	0.85	2.5717	0.76
926/929	18.9661	CIB	2.23	0.71	2.4932	0.76
1090	18.9685	CIB	2.92	1.11	2.5636	0.85
926/929	18.9699	CIB	2.21	0.74	2.4533	0.89
1090	18.9728	CIB	2.73	0.85	2.5412	0.92
926/929	18.9738	CIB	2.18	1.04	2.3748	0.91
1090	18.9771	CIB	2.67	0.87	2.4354	0.91
926/929	18.9776	CIB	2.09	1.06	2.3294	0.9
1090	18.9814	CIB	2.51	0.72	2.3047	0.93
926/929	18.9815	CIB	2.2	0.8	2.2247	0.95
926/929	18.9853	CIB	2.05	1.21	2.327	0.95
1090	18.9857	CIB	2.27	0.95	2.195	0.98
1090	18.9901	CIB	2.6	1.09	2.133	1.02
704	18.9909	CIB	1.85	0.87	2.1215	1
704	18.9909	CIB	1.89	0.96	2.1475	0.97
926/929	18.9934	CIB	2	1.11	2.0626	0.95
1090	18.9944	CIB	2.4	0.83	2.1566	0.99
926/929	18.9976	CIB	2.18	1	2.2107	1.01
1090	18.9987	CIB	2.32	1.03	2.2812	0.96

926/929	19.0017	CIB	2.16	1.09	2.2725	1.01
1090	19.003	CIB	2.35	0.87	2.4295	1.01
926/929	19.0059	CIB	2.36	1.07	2.4121	0.99
1090	19.0073	CIB	2.96	0.98	2.466	1
926/929	19.01	CIB	2.23	0.92	2.4048	1.04
1090	19.0115	CIB	2.43	1.17	2.4494	1.05
926/929	19.0142	CIB	2.04	1.04	2.2913	1.04
1090	19.0157	CIB	2.58	1.14	2.3426	1.08
926/929	19.0183	CIB	2.17	0.91	2.2884	1.05
1090	19.0198	CIB	2.49	1.14	2.3637	1.06
926/929	19.0225	CIB	2.16	1.01	2.2392	1.04
1090	19.024	CIB	2.42	1.1	2.3433	1.11
926/929	19.0266	CIB	1.96	1.04	2.241	1.06
1090	19.0282	CIB	2.69	1.26	2.3032	1.08
926/929	19.0306	CIB	1.98	0.88	2.2545	1.03
1090	19.0324	CIB	2.47	1.13	2.4071	1.07
926/929	19.0345	CIB	2.18	0.86	2.3274	0.87
1090	19.0366	CIB	2.72	1.22	2.2997	0.86
926/929	19.0384	CIB	2.29	0.25	2.2977	0.85
747	19.0386	CIB	1.84	0.84	2.3562	0.84
1090	19.0407	CIB	2.46	1.1	2.3026	0.71
926/929	19.0423	CIB	2.47	0.82	2.3762	0.86
926/929	19.0463	CIB	2.45	0.53	2.52	0.89
1090	19.0491	CIB	2.66	1.03	2.4845	0.83
1218	19.05	CIB	2.56	0.99	2.4062	0.86
926/929	19.0508	CIB	2.28	0.78	2.4417	0.96
926/929	19.0556	CIB	2.08	0.98	2.3291	0.89
1090	19.0578	CIB	2.63	1.03	2.2513	0.91
926/929	19.0605	CIB	2.1	0.69	2.2309	0.98
704	19.0625	CIB	2.17	1.07	2.1775	1.01
704	19.0625	CIB	2.18	1.15	2.0975	1.1
926/929	19.0653	CIB	1.81	1.09	2.1641	1.18
588	19.0656	CIB	2.23	1.51	2.2214	1.07
1090	19.0665	CIB	2.43	1.09	2.1754	0.98
926/929	19.0701	CIB	2.46	0.51	2.2942	1
563	19.0728	CIB	1.95	0.71	2.3842	0.9
926/929	19.0749	CIB	2.4	1.16	2.419	0.88
1090	19.0752	CIB	2.68	1.05	2.4177	0.98
926/929	19.0798	CIB	2.6	0.96	2.5654	1.02
1090	19.0838	CIB	2.45	1.03	2.6306	0.93
926/929	19.0846	CIB	2.69	0.91	2.6206	0.95
926/929	19.0893	CIB	2.73	0.67	2.607	0.93
1090	19.0925	CIB	2.63	1.18	2.591	0.81
926/929	19.0938	CIB	2.54	0.86	2.5653	0.88
926/929	19.0982	CIB	2.37	0.43	2.4738	0.92
1090	19.1012	CIB	2.56	1.24	2.3964	0.9
926/929	19.1027	CIB	2.27	0.9	2.3732	0.88
926/929	19.1071	CIB	2.24	1.05	2.4692	1.03
1090	19.1099	CIB	2.42	0.76	2.445	0.95
1090	19.1168	CIB	2.85	1.17	2.4264	1
926/929	19.1187	CIB	2.44	0.86	2.4889	0.89
1218	19.12	CIB	2.18	1.14	2.5709	0.97
926/929	19.1231	CIB	2.56	0.5	2.5097	0.8
1090	19.1238	CIB	2.83	1.18	2.5299	0.84
926/929	19.1275	CIB	2.54	0.3	2.6108	0.73
1090	19.1307	CIB	2.54	1.06	2.5097	0.8
926/929	19.1312	CIB	2.58	0.62	2.3995	0.74
704	19.1321	CIB	2.05	0.85	2.3966	0.91
926/929	19.1346	CIB	2.28	0.88	2.3249	0.82
1090	19.1377	CIB	2.53	1.12	2.211	0.9

926/929	19.138	CIB	2.18	0.63	2.293	0.98
926/929	19.1414	CIB	2.01	0.99	2.2417	1.02
1090	19.1447	CIB	2.46	1.25	2.1491	0.99
926/929	19.1448	CIB	2.02	1.12	2.1569	1.01
926/929	19.1472	CIB	2.07	0.95	2.1712	0.99
926/929	19.1494	CIB	2.22	0.73	2.1992	0.97
1090	19.1516	CIB	2.6	1.18	2.1561	0.87
926/929	19.1516	CIB	2.09	0.88	2.186	0.93
926/929	19.1538	CIB	1.96	0.91	2.2081	0.91
926/929	19.156	CIB	1.92	0.64	2.1872	0.88
1090	19.1572	CIB	2.48	0.95	2.0742	0.78
926/929	19.1582	CIB	1.98	0.73	2.0909	0.72
926/929	19.1604	CIB	2.03	0.7	2.2481	0.63
926/929	19.1626	CIB	2.04	0.6	2.3041	0.44
926/929	19.1648	CIB	2.7	0.2	2.3977	0.34
1090	19.1655	CIB	2.76	0	2.3719	0.35
926/929	19.167	CIB	2.45	0.21	2.4699	0.44
926/929	19.1696	CIB	1.91	0.74	2.2973	0.55
1090	19.17	CIB	2.53	1.02	2.1593	0.82
926/929	19.1722	CIB	1.84	0.77	2.0659	0.93
588	19.1736	CIB	2.07	1.34	2.1211	0.85
926/929	19.1749	CIB	1.98	0.78	2.0773	0.87
926/929	19.1776	CIB	2.18	0.34	2.1279	0.89
1218	19.18	CIB	2.31	1.1	2.1379	0.8
926/929	19.1802	CIB	2.09	0.87	2.1266	0.91
747	19.1814	CIB	2.12	0.92	2.1643	1.02
926/929	19.1829	CIB	1.93	1.3	2.0897	1.02
1090	19.1844	CIB	2.37	0.94	2.099	1
926/929	19.1856	CIB	1.94	1.06	2.1434	0.91
1090	19.1879	CIB	2.14	0.77	2.1949	0.83
926/929	19.1882	CIB	2.34	0.47	2.2729	0.87
926/929	19.1909	CIB	2.18	0.89	2.2453	0.76
1090	19.1924	CIB	2.76	1.15	2.2735	0.76
77	19.1926	CIB	1.8	0.53	2.2834	0.81
926/929	19.1936	CIB	2.28	0.74	2.3325	0.76
926/929	19.1962	CIB	2.39	0.73	2.2349	0.62
1090	19.1969	CIB	2.43	0.64	2.2709	0.64
926/929	19.1986	CIB	2.27	0.48	2.3107	0.69
704	19.2007	CIB	1.98	0.6	2.3384	0.72
1090	19.2014	CIB	2.48	1	2.3103	0.73
1090	19.2059	CIB	2.53	0.86	2.1779	0.76
926/929	19.2059	CIB	2.29	0.73	2.3159	0.89
926/929	19.2101	CIB	1.61	0.61	2.1959	0.86
608	19.2105	CIB	1.88	0.86	2.1272	0.89
1090	19.2105	CIB	2.67	1.26	2.0731	0.87
926/929	19.2148	CIB	1.92	0.88	2.2017	0.95
1090	19.2152	CIB	2.56	0.85	2.1657	0.83
926/929	19.2194	CIB	1.98	0.91	2.1072	0.75
1090	19.22	CIB	2.49	0.65	2.2339	0.75
926/929	19.224	CIB	1.59	0.46	2.083	0.74
1090	19.2257	CIB	2.55	0.87	2.1345	0.73
926/929	19.2286	CIB	1.81	0.82	2.0111	0.79
1090	19.2305	CIB	2.24	0.87	2.1797	0.86
926/929	19.2333	CIB	1.87	0.92	2.1473	0.86
1090	19.2343	CIB	2.43	0.81	2.2581	0.84
926/929	19.2379	CIB	2.39	0.9	2.2543	0.87
1090	19.2391	CIB	2.36	0.7	2.3691	0.85
1218	19.24	CIB	2.22	1.03	2.4231	0.8
926/929	19.2425	CIB	2.45	0.84	2.4231	0.8
1090	19.2439	CIB	2.7	0.54	2.3962	0.83

926/929	19.246	CIB	2.39	0.91	2.464	0.8
926/929	19.2493	CIB	2.23	0.86	2.2947	0.94
1090	19.2495	CIB	2.56	0.88	2.2167	0.94
754	19.2511	CIB	1.6	1.5	2.1966	0.93
926/929	19.2526	CIB	2.31	0.55	2.2335	0.96
926/929	19.2591	CIB	2.29	0.89	2.1353	0.96
926/929	19.2624	CIB	2.41	1	2.2949	0.87
926/929	19.2655	CIB	2.07	0.89	2.2828	0.89
926/929	19.2686	CIB	2.4	1.01	2.2494	0.83
704	19.2694	CIB	2.25	0.66	2.1933	0.79
1090	19.2716	CIB	2.12	0.58	2.2337	0.81
926/929	19.2717	CIB	2.13	0.82	2.1821	0.8
926/929	19.2749	CIB	2.27	0.95	2.2441	0.82
747	19.2765	CIB	2.14	0.98	2.2443	0.89
1090	19.2768	CIB	2.56	0.77	2.2883	0.96
926/929	19.278	CIB	2.12	0.91	2.3097	0.96
926/929	19.2811	CIB	2.35	1.17	2.406	0.97
926/929	19.2842	CIB	2.38	0.95	2.3051	1.04
926/929	19.2873	CIB	2.62	1.02	2.3495	1.02
926/929	19.2902	CIB	2.06	1.12	2.3131	0.94
926/929	19.2932	CIB	2.34	0.83	2.3463	0.95
926/929	19.2961	CIB	2.17	0.77	2.2607	0.91
1090	19.2977	CIB	2.54	1.02	2.2764	0.9
926/929	19.299	CIB	2.19	0.79	2.2593	0.99
926/929	19.302	CIB	2.13	1.1	2.2586	1.03
926/929	19.3049	CIB	2.26	1.26	2.2718	1.05
926/929	19.3078	CIB	2.16	0.98	2.2608	1.08
1090	19.3093	CIB	2.61	1.14	2.2841	1.06
1218	19.31	CIB	2.14	0.92	2.3907	1.07
926/929	19.3107	CIB	2.25	1	2.4389	1.08
1090	19.3122	CIB	2.79	1.32	2.5009	1.07
926/929	19.3137	CIB	2.41	1	2.5657	1.03
1090	19.3151	CIB	2.92	1.12	2.7157	1.09
926/929	19.3166	CIB	2.46	0.72	2.6117	0.99
1090	19.318	CIB	3	1.3	2.6306	1.02
926/929	19.3195	CIB	2.27	0.83	2.5846	1.03
1218	19.32	CIB	2.5	1.12	2.5416	1.04
1090	19.3209	CIB	2.69	1.19	2.413	0.88
926/929	19.3225	CIB	2.25	0.77	2.493	0.71
926/929	19.3254	CIB	2.36	0.47	2.5389	0.56
1090	19.3267	CIB	2.67	0	2.4931	0.49
926/929	19.329	CIB	2.73	0.36	2.5916	0.55
926/929	19.3343	CIB	2.46	0.86	2.5482	0.56
1090	19.3345	CIB	2.74	1.04	2.5422	0.75
704	19.338	CIB	2.14	0.54	2.4892	0.88
1090	19.3384	CIB	2.64	0.93	2.521	0.97
926/929	19.3396	CIB	2.46	1.01	2.343	0.79
1090	19.3423	CIB	2.62	1.31	2.3655	0.91
77	19.3435	CIB	1.85	0.15	2.3995	0.89
926/929	19.3449	CIB	2.25	1.13	2.3808	0.93
1090	19.3462	CIB	2.81	0.83	2.4108	0.86
926/929	19.3502	CIB	2.37	1.22	2.5256	1.06
1090	19.3541	CIB	2.77	0.98	2.6231	1.12
926/929	19.3554	CIB	2.42	1.13	2.4875	1.18
1090	19.358	CIB	2.74	1.43	2.6193	1.19
926/929	19.3607	CIB	2.13	1.11	2.6433	1.25
1090	19.3617	CIB	3.03	1.28	2.6901	1.25
1090	19.3646	CIB	2.89	1.27	2.5641	1.04
926/929	19.3651	CIB	2.66	1.14	2.6511	1.03
704	19.3675	CIB	2.11	0.39	2.5731	0.97

926/929	19.3675	CIB	2.57	1.07	2.4814	0.92
1090	19.3676	CIB	2.64	1	2.5158	0.88
926/929	19.3699	CIB	2.43	0.99	2.5733	0.97
1090	19.3705	CIB	2.83	0.93	2.6018	0.96
926/929	19.3722	CIB	2.4	0.87	2.5871	0.93
1090	19.3729	CIB	2.71	1.04	2.6528	0.89
926/929	19.3746	CIB	2.57	0.85	2.5797	0.88
1090	19.3764	CIB	2.76	0.76	2.6201	0.88
926/929	19.377	CIB	2.46	0.89	2.5541	0.86
1090	19.3794	CIB	2.6	0.86	2.5098	0.9
1218	19.38	CIB	2.38	0.93	2.5078	0.94
926/929	19.3801	CIB	2.34	1.08	2.4423	0.94
1090	19.3817	CIB	2.75	0.95	2.5563	0.91
926/929	19.3834	CIB	2.14	0.88	2.5417	0.97
1090	19.3853	CIB	3.17	0.71	2.4968	0.85
926/929	19.3866	CIB	2.31	1.22	2.3874	0.78
1090	19.3882	CIB	2.12	0.48	2.408	0.76
926/929	19.3899	CIB	2.2	0.62	2.218	0.79
1218	19.39	CIB	2.24	2.1971	0.81	NA
1090	19.3922	CIB	2.22	0.84	2.2611	0.89
926/929	19.3932	CIB	2.2	1.31	2.2717	0.96
1090	19.3961	CIB	2.44	0.81	2.2722	1
926/929	19.3965	CIB	2.26	0.9	2.3022	0.95
926/929	19.3998	CIB	2.24	1.17	2.3056	0.87
1090	19.4001	CIB	2.37	0.57	2.3056	0.86
926/929	19.4031	CIB	2.22	0.91	2.2424	0.92
1090	19.404	CIB	2.44	0.74	2.256	0.78
588	19.4051	CIB	1.94	1.22	2.26	0.79
926/929	19.4064	CIB	2.31	0.44	2.2849	0.69
1090	19.408	CIB	2.39	0.63	2.3549	0.71
926/929	19.4097	CIB	2.34	0.42	2.4716	0.61
1090	19.412	CIB	2.79	0.86	2.5375	0.7
926/929	19.413	CIB	2.52	0.7	2.5494	0.71
1090	19.4159	CIB	2.64	0.91	2.5066	0.85
926/929	19.4163	CIB	2.45	0.67	2.4155	0.84
747	19.4192	CIB	2.13	1.1	2.4548	0.87
926/929	19.4195	CIB	2.33	0.82	2.395	0.84
1090	19.4207	CIB	2.72	0.85	2.3871	0.87
926/929	19.4228	CIB	2.34	0.77	2.4407	0.8
1090	19.4246	CIB	2.41	0.81	2.4272	0.84
926/929	19.4261	CIB	2.4	0.77	2.3672	0.81
926/929	19.4271	CIB	2.27	1.02	2.3787	0.87
1090	19.4282	CIB	2.42	0.68	2.4136	0.9
926/929	19.4298	CIB	2.4	1.08	2.4861	0.9
926/929	19.4312	CIB	2.58	0.98	2.5327	0.88
1090	19.4339	CIB	2.76	0.76	2.5556	0.94
926/929	19.4357	CIB	2.5	0.93	2.5943	0.91
926/929	19.4403	CIB	2.53	0.94	2.5999	0.9
926/929	19.4447	CIB	2.59	0.92	2.5327	0.97
926/929	19.4478	CIB	2.61	0.95	2.5665	0.97
1218	19.45	CIB	2.42	1.09	2.5955	0.99
926/929	19.451	CIB	2.67	0.96	2.5887	0.99
1090	19.4513	CIB	2.68	1.01	2.5122	0.98
926/929	19.4541	CIB	2.56	0.95	2.6034	0.99
563	19.4557	CIB	2.23	0.91	2.5576	0.97
1090	19.4571	CIB	2.88	1.11	2.4696	0.86
926/929	19.4572	CIB	2.44	0.9	2.4476	0.87
77	19.4591	CIB	2.24	0.46	2.5024	0.89
1218	19.46	CIB	1	2.4274	0.77	NA
926/929	19.4603	CIB	2.45	0.99	2.4124	0.79

1090	19.4629	CIB	2.58	0.52	2.4352	0.9
926/929	19.4634	CIB	2.38	1	2.3904	0.89
926/929	19.4665	CIB	2.33	1	2.4705	0.87
926/929	19.4696	CIB	2.21	0.92	2.4503	0.94
1090	19.4698	CIB	2.85	0.91	2.5361	0.9
926/929	19.4727	CIB	2.48	0.89	2.5101	0.89
1090	19.4756	CIB	2.81	0.8	2.4953	0.87
926/929	19.4758	CIB	2.2	0.94	2.4933	0.84
926/929	19.4789	CIB	2.14	0.81	2.4364	0.84
1090	19.4814	CIB	2.84	0.74	2.3251	0.82
926/929	19.482	CIB	2.19	0.92	2.435	0.84
926/929	19.4851	CIB	2.25	0.67	2.49	0.81
1090	19.486	CIB	2.75	1.06	2.3976	0.79
926/929	19.4882	CIB	2.41	0.64	2.3859	0.74
926/929	19.4911	CIB	2.38	0.68	2.3663	0.74
926/929	19.4938	CIB	2.14	0.66	2.2242	0.69
926/929	19.4966	CIB	2.16	0.67	2.168	0.69
926/929	19.4993	CIB	2.04	0.77	2.2034	0.69
926/929	19.502	CIB	2.13	0.66	2.2227	0.62
1090	19.5033	CIB	2.56	0.71	2.1776	0.63
704	19.5048	CIB	1.93	0.72	2.0693	0.6
926/929	19.5048	CIB	2.23	0.27	2.1579	0.61
926/929	19.5075	CIB	1.94	0.7	1.9343	0.64
926/929	19.5103	CIB	1.69	0.59	1.9219	0.79
588	19.5132	CIB	1.88	0.93	1.8522	0.74
747	19.5144	CIB	2.17	1.02	1.922	0.72
926/929	19.5157	CIB	1.58	0.49	1.9039	0.7
1090	19.5161	CIB	2.29	0.58	2.0279	0.61
926/929	19.5185	CIB	1.6	0.47	1.9666	0.5
1090	19.5208	CIB	2.5	0.51	2.0962	0.5
926/929	19.5212	CIB	1.86	0.45	2.1142	0.51
926/929	19.524	CIB	2.23	2.2763	0.59	NA
1090	19.5266	CIB	2.38	0.59	2.3061	0.74
1218	19.53	CIB	2.41	0.82	2.4334	0.77
1218	19.53	CIB	2.65	1.1	2.4513	0.78
1090	19.5325	CIB	2.5	0.57	2.4064	0.82
926/929	19.5338	CIB	2.32	0.83	2.4168	0.76
926/929	19.5374	CIB	2.16	0.8	2.3125	0.69
1090	19.5383	CIB	2.46	0.48	2.2328	0.75
926/929	19.5409	CIB	2.13	0.74	2.2126	0.77
926/929	19.5444	CIB	2.1	0.88	2.2012	0.81
926/929	19.5479	CIB	2.22	0.96	2.1171	0.9
926/929	19.5515	CIB	2.1	0.98	2.1156	0.81
926/929	19.555	CIB	2.04	0.95	2.1208	0.83
1090	19.5559	CIB	2.12	0.29	2.1077	0.78
926/929	19.5585	CIB	2.13	0.98	2.1235	0.79
926/929	19.562	CIB	2.15	0.69	2.1956	0.71
926/929	19.5656	CIB	2.18	1.05	2.2561	0.82
1090	19.5676	CIB	2.4	0.54	2.3806	0.76
926/929	19.5691	CIB	2.42	0.84	2.4255	0.74
1090	19.5735	CIB	2.75	0.7	2.456	0.66
926/929	19.5762	CIB	2.38	0.55	2.4484	0.7
1090	19.5793	CIB	2.33	0.68	2.4094	0.69
926/929	19.5797	CIB	2.36	0.74	2.3474	0.75
926/929	19.5832	CIB	2.23	0.79	2.2767	0.8
1090	19.5852	CIB	2.44	1.02	2.2927	0.82
926/929	19.5867	CIB	2.02	0.79	2.2292	0.83
1218	19.59	CIB	2.41	0.75	2.2836	0.8
926/929	19.5938	CIB	2.04	0.81	2.2659	0.66
1090	19.5969	CIB	2.5	0.62	2.2175	0.63

926/929	19.5976	CIB	2.35	0.31	2.1875	0.62
926/929	19.6013	CIB	1.78	0.65	2.2506	0.63
1090	19.6028	CIB	2.26	0.7	2.0988	0.59
1090	19.6087	CIB	2.36	0.87	2.0805	0.62
926/929	19.6126	CIB	1.74	0.4	2.2302	0.65
77	19.6145	CIB	2.26	0.48	2.112	0.62
1090	19.6145	CIB	2.53	0.78	2.05	0.56
926/929	19.6163	CIB	1.67	0.57	2.1998	0.63
926/929	19.6201	CIB	2.117	0.68	NA	NA
1090	19.6204	CIB	2.34	0.69	2.067	0.62
926/929	19.6238	CIB	1.93	0.67	2.2223	0.54
1090	19.6262	CIB	2.33	0.57	2.2598	0.57
1090	19.6329	CIB	2.29	0.21	2.1477	0.52
1090	19.6363	CIB	2.41	0.73	2.2365	0.54
926/929	19.6365	CIB	1.78	0.39	2.1805	0.58
1218	19.64	CIB	2.37	0.81	2.0783	0.67
1090	19.6405	CIB	2.05	0.77	1.9923	0.67
926/929	19.6423	CIB	1.78	0.62	2.0804	0.77
1090	19.6447	CIB	1.98	0.77	2.0838	0.8
926/929	19.6482	CIB	2.22	0.89	2.0578	0.74
1090	19.6488	CIB	2.39	0.95	2.08	0.71
704	19.6519	CIB	1.92	0.46	2.0963	0.71
1090	19.653	CIB	1.89	0.47	2.0973	0.68
926/929	19.6538	CIB	2.06	0.78	2.0233	0.67
926/929	19.657	CIB	2.22	0.74	2.0213	0.68
747	19.6571	CIB	2.02	0.89	2.093	0.73
1090	19.6572	CIB	1.91	0.52	2.1986	0.75
926/929	19.6603	CIB	2.25	0.74	2.2542	0.76
1090	19.6614	CIB	2.59	0.87	2.3122	0.67
926/929	19.6635	CIB	2.5	2.3404	0.78	NA
1090	19.6651	CIB	2.31	0.56	2.3807	0.79
926/929	19.6668	CIB	2.05	0.95	2.2975	0.8
1090	19.6688	CIB	2.45	0.77	2.3109	0.81
926/929	19.6701	CIB	2.17	0.93	2.2792	0.89
1090	19.6733	CIB	2.57	0.83	2.407	0.87
926/929	19.6733	CIB	2.15	0.98	2.3428	0.89
1090	19.6762	CIB	2.69	0.83	2.3525	0.9
926/929	19.6766	CIB	2.13	0.91	2.3725	0.94
1090	19.6799	CIB	2.67	1.01	2.4342	0.97
926/929	19.6799	CIB	2.22	0.97	2.3822	0.91
926/929	19.6831	CIB	2.2	0.84	2.4612	0.96
1090	19.6836	CIB	2.95	1.11	2.5827	0.95
926/929	19.6871	CIB	2.26	0.86	2.6307	0.94
1090	19.6881	CIB	2.83	0.91	2.6274	0.95
1090	19.691	CIB	2.91	0.97	2.4001	0.89
926/929	19.6915	CIB	2.18	0.91	2.5313	0.95
926/929	19.6959	CIB	1.81	0.8	2.3251	0.94
1090	19.6984	CIB	2.92	1.16	2.2951	0.94
926/929	19.7003	CIB	1.8	0.84	2.2095	0.93
1090	19.7022	CIB	2.76	0.99	2.3369	0.93
926/929	19.7047	CIB	1.76	0.84	2.129	0.87
1090	19.7059	CIB	2.45	0.83	2.2571	0.88
926/929	19.7091	CIB	1.88	0.85	2.0831	0.76
1090	19.7103	CIB	2.44	0.89	2.2761	0.78
608	19.7108	CIB	1.89	0.41	2.2326	0.73
1090	19.7133	CIB	2.72	0.91	2.4075	0.72
926/929	19.7135	CIB	0.58	2.3967	0.68	NA
1090	19.717	CIB	2.58	0.8	2.6433	0.73
926/929	19.7179	CIB	0.69	2.51	0.71	NA
1218	19.72	CIB	2.63	0.66	0.67	NA

1090	19.7207	CIB	2.32	0.8	2.47	0.67
926/929	19.7224	CIB	0.42	2.5425	0.7	NA
1090	19.7244	CIB	2.46	0.76	2.58	0.74
1090	19.7281	CIB	2.76	0.87	2.4325	0.64
1090	19.7318	CIB	2.78	0.83	2.488	0.73
77	19.7338	CIB	1.73	0.34	2.534	0.73
1090	19.7364	CIB	2.71	0.85	2.338	0.83
1090	19.741	CIB	2.69	0.76	2.312	0.86
588	19.7447	CIB	1.78	1.37	2.49	0.95
1090	19.7456	CIB	2.65	0.97	2.344	0.99
1090	19.7511	CIB	2.62	0.8	2.212	1.01
747	19.7523	CIB	1.98	1.04	2.362	0.9
747	19.7523	CIB	2.03	0.87	2.29	0.94
1090	19.7548	CIB	2.53	0.84	2.23	0.93
926/929	19.7573	CIB	2.29	1.15	2.2937	0.91
1090	19.7593	CIB	2.32	0.75	2.3677	0.88
926/929	19.7607	CIB	2.3	0.97	2.3271	0.89
1090	19.7639	CIB	2.4	0.7	2.3434	0.87
926/929	19.7641	CIB	2.3409	0.89	NA	NA
926/929	19.7674	CIB	2.35	1.05	2.3505	0.86
1090	19.7685	CIB	2.31	0.84	2.4055	0.87
926/929	19.7708	CIB	2.34	0.86	2.4445	0.86
1090	19.7731	CIB	2.62	0.75	2.4674	0.81
926/929	19.7742	CIB	2.6	0.81	2.5054	0.82
926/929	19.7776	CIB	2.47	0.81	2.501	0.8
1090	19.7777	CIB	2.5	0.88	2.493	0.82
926/929	19.781	CIB	2.32	0.77	2.4895	0.81
1090	19.7823	CIB	2.58	0.82	2.5176	0.83
926/929	19.7843	CIB	2.58	0.76	2.4833	0.76
1090	19.7869	CIB	2.61	0.9	2.4865	0.75
926/929	19.7877	CIB	2.33	0.57	2.4265	0.7
926/929	19.7911	CIB	2.33	0.7	2.3059	0.57
1090	19.7915	CIB	2.28	0.58	2.2359	0.47
1090	19.797	CIB	1.98	0.09	2.2227	0.44
1090	19.7998	CIB	2.26	0.39	2.224	0.42
1218	19.8	CIB	2.26	2.212	0.36	NA
926/929	19.8045	CIB	2.34	0.63	2.313	0.51
1090	19.8069	CIB	2.22	0.34	2.283	0.55
926/929	19.8087	CIB	2.49	0.7	2.2866	0.54
704	19.8089	CIB	2.11	0.53	2.2902	0.54
1090	19.8105	CIB	2.28	0.5	2.3222	0.57
926/929	19.8129	CIB	2.36	0.63	2.2468	0.58
1090	19.814	CIB	2.38	0.49	2.3428	0.68
926/929	19.8171	CIB	2.11	0.75	2.3908	0.76
1090	19.8176	CIB	2.59	1.01	2.3156	0.8
1090	19.8211	CIB	2.52	0.91	2.2282	0.88
926/929	19.8213	CIB	1.98	0.86	2.2846	0.88
926/929	19.8251	CIB	1.94	0.89	2.1578	0.86
1090	19.8282	CIB	2.39	0.75	2.0496	0.85
926/929	19.8283	CIB	1.96	0.89	2.1096	0.81
926/929	19.8316	CIB	1.98	0.87	2.1248	0.81
1090	19.8324	CIB	2.28	0.67	2.1168	0.76
926/929	19.8348	CIB	2.02	0.87	2.1996	0.74
1090	19.8353	CIB	2.35	0.51	2.1829	0.71
1090	19.8388	CIB	2.37	0.77	2.0841	0.73
926/929	19.8395	CIB	1.9	0.74	2.1683	0.71
926/929	19.8455	CIB	1.79	0.75	2.2363	0.79
1090	19.8459	CIB	2.44	0.77	2.1239	0.76
1090	19.8495	CIB	2.69	0.91	2.2828	0.8
926/929	19.8516	CIB	1.81	0.61	2.3895	0.81

1090	19.853	CIB	2.69	0.94	2.3598	0.77
1090	19.8601	CIB	2.32	0.82	2.2818	0.77
926/929	19.8637	CIB	2.29	0.56	2.2783	0.79
1090	19.8672	CIB	2.3	0.9	2.1605	0.75
588	19.8682	CIB	1.79	0.71	2.1825	0.67
926/929	19.8698	CIB	2.1	0.75	2.1436	0.7
1090	19.8743	CIB	2.43	0.41	2.0616	0.77
926/929	19.8758	CIB	2.1	0.72	2.1756	0.83
754	19.8759	CIB	1.89	1.27	2.174	0.83
563	19.8775	CIB	2.36	1.01	2.1264	0.92
926/929	19.8791	CIB	2.09	0.75	2.171	0.97
926/929	19.8821	CIB	2.19	0.84	2.229	0.86
1090	19.8828	CIB	2.32	0.96	2.1902	0.8
926/929	19.8851	CIB	2.18	0.72	2.2176	0.79
926/929	19.8881	CIB	2.17	0.75	2.1755	0.77
1090	19.8884	CIB	2.23	0.69	2.0838	0.71
926/929	19.8911	CIB	1.98	0.73	2.1098	0.79
926/929	19.8941	CIB	1.86	0.68	2.1486	0.8
747	19.895	CIB	2.31	1.11	2.0995	0.76
1090	19.8955	CIB	2.36	0.81	2.1017	0.75
926/929	19.8971	CIB	1.98	0.47	2.2374	0.73
926/929	19.9019	CIB	1.99	0.7	2.1351	0.66
1090	19.9026	CIB	2.54	0.57	2.0144	0.69
926/929	19.9043	CIB	1.8	0.76	1.9541	0.78
926/929	19.9066	CIB	1.76	0.94	1.9756	0.75
926/929	19.909	CIB	1.68	0.91	1.8007	0.79
1090	19.9097	CIB	2.1	0.55	1.7975	0.81
926/929	19.9113	CIB	1.67	0.79	1.7936	0.8
926/929	19.9137	CIB	1.78	0.84	1.857	0.69
926/929	19.916	CIB	1.74	0.89	1.76	0.67
1090	19.9168	CIB	2	0.36	1.9319	0.68
926/929	19.9187	CIB	1.61	0.46	2.0333	0.62
1218	19.92	CIB	2.52	0.83	2.16	0.56
1090	19.9204	CIB	2.29	0.54	2.254	0.56
1090	19.9241	CIB	2.37	0.62	2.401	0.62
1090	19.9277	CIB	2.47	0.35	2.3213	0.58
1090	19.9314	CIB	2.35	0.78	2.3793	0.55
926/929	19.9341	CIB	2.13	0.62	2.293	0.57
1090	19.935	CIB	2.58	0.37	2.343	0.65
926/929	19.9372	CIB	1.94	0.75	2.2238	0.64
1090	19.9387	CIB	2.72	0.75	2.3005	0.62
926/929	19.9403	CIB	1.75	0.71	2.135	0.7
1090	19.9423	CIB	2.51	0.5	2.2413	0.66
926/929	19.9433	CIB	1.75	0.79	2.0563	0.66
1090	19.946	CIB	2.47	0.55	2.2335	0.62
926/929	19.9464	CIB	1.8	0.76	2.107	0.67
1090	19.9496	CIB	2.64	0.51	2.2725	0.61
926/929	19.9508	CIB	1.88	0.73	2.1626	0.64
1090	19.9532	CIB	2.58	0.52	2.1916	0.6
926/929	19.9553	CIB	1.92	0.68	2.1456	0.58
704	19.956	CIB	1.94	0.56	2.1164	0.54
1090	19.9569	CIB	2.41	0.39	2.0764	0.48
926/929	19.9597	CIB	1.73	0.53	2.0441	0.48
1090	19.9605	CIB	2.38	0.26	2.1401	0.5
926/929	19.9641	CIB	1.76	0.68	2.1321	0.52
1090	19.9642	CIB	2.42	0.63	2.1279	0.54
1090	19.9678	CIB	2.37	0.52	2.1599	0.6
926/929	19.9685	CIB	1.71	0.62	2.2782	0.55
1090	19.9751	CIB	2.54	0.56	2.2498	0.51
1090	19.9788	CIB	2.35	0.44	2.2778	0.51

926/929	19.9817	CIB	2.28	0.4	2.3116	0.55
1090	19.9824	CIB	2.51	0.51	2.2456	0.54
608	19.9854	CIB	1.88	0.82	2.195	0.59
1090	19.9861	CIB	2.21	0.54	2.2134	0.58
926/929	19.9862	CIB	2.1	0.69	2.1534	0.66
1090	19.9897	CIB	2.37	0.34	2.2314	0.76
747	19.9902	CIB	2.21	0.93	2.1754	0.62
747	19.9902	CIB	2.27	1.3	2.1116	0.69
1090	19.9934	CIB	1.93	-0.14	2.0096	0.7
926/929	19.995	CIB	1.78	1.01	1.9379	0.69
1090	19.997	CIB	1.86	0.39	1.9799	0.45
926/929	19.9986	CIB	1.85	0.91	1.9207	0.69
1090	20.002	CIB	2.48	0.09	2.053	0.59
926/929	20.0021	CIB	1.63	1.03	2.0373	0.67
1090	20.0031	CIB	2.44	0.52	2.175	0.55
926/929	20.0056	CIB	1.78	0.79	2.0268	0.69
1090	20.0081	CIB	2.54	0.31	2.064	0.62
926/929	20.0091	CIB	1.74	0.83	2.074	0.63
926/929	20.0126	CIB	1.82	0.66	2.1858	0.52
1090	20.0132	CIB	2.49	0.55	2.1421	0.55
1090	20.0172	CIB	2.34	0.25	2.1283	0.46
926/929	20.0199	CIB	2.32	0.48	2.1803	0.41
77	20.0202	CIB	1.67	0.37	2.1175	0.43
1090	20.0222	CIB	2.08	0.4	2.0252	0.5
926/929	20.0237	CIB	2.18	0.64	2.0049	0.43
926/929	20.0275	CIB	1.88	0.64	2.0684	0.52
1090	20.0283	CIB	2.22	0.12	2.0329	0.55
926/929	20.0298	CIB	1.99	0.81	2.0315	0.53
926/929	20.0314	CIB	1.9	0.57	2.0398	0.34
926/929	20.0329	CIB	2.17	0.53	1.951	0.44
1090	20.0334	CIB	1.92	-0.35	1.9172	0.38
926/929	20.0352	CIB	1.78	0.63	1.9788	0.42
926/929	20.036	CIB	1.82	0.53	1.8588	0.37
1090	20.0384	CIB	2.21	0.77	1.8424	0.56
926/929	20.039	CIB	1.57	0.28	1.8692	0.52
926/929	20.0391	CIB	1.84	0.59	1.877	0.58
926/929	20.0419	CIB	1.91	0.43	1.861	0.61
926/929	20.0423	CIB	1.86	0.82	1.8767	0.66
1090	20.0435	CIB	2.13	0.92	1.8416	0.73
926/929	20.0447	CIB	1.65	0.54	1.7458	0.72
926/929	20.0454	CIB	1.66	0.95	1.7823	0.71
926/929	20.0474	CIB	1.43	0.35	1.7201	0.7
1090	20.0475	CIB	2.04	0.76	1.7431	0.71
926/929	20.0485	CIB	1.82	0.89	1.7886	0.62
926/929	20.0516	CIB	1.76	0.59	1.7881	0.61
1090	20.0525	CIB	1.89	0.53	1.7367	0.51
926/929	20.0525	CIB	1.43	0.26	1.7969	0.5
926/929	20.0548	CIB	1.78	0.26	1.8385	0.51
1090	20.0586	CIB	2.12	0.86	1.981	0.53
1090	20.0637	CIB	1.97	0.64	2.1111	0.56
926/929	20.0653	CIB	2.6	0.63	2.1612	0.63
1090	20.0677	CIB	2.08	0.4	2.1809	0.66
926/929	20.0678	CIB	2.03	2.1787	0.7	NA
926/929	20.0687	CIB	2.22	0.97	2.1342	0.66
926/929	20.0722	CIB	1.96	0.82	2.1188	0.77
1090	20.0727	CIB	2.38	0.46	2.0261	0.59
926/929	20.0757	CIB	2	0.82	1.9751	0.56
1090	20.0778	CIB	1.57	-0.11	2.0753	0.57
926/929	20.0792	CIB	1.96	0.82	2.0061	0.65
1090	20.0813	CIB	2.46	0.84	2.0394	0.64

926/929	20.0828	CIB	2.03	0.89	2.132	0.83
1090	20.0843	CIB	2.17	0.79	2.1974	0.79
926/929	20.0864	CIB	2.03	0.8	2.1614	0.79
1090	20.0872	CIB	2.29	0.63	2.1993	0.78
1090	20.0896	CIB	2.28	0.83	2.2553	0.75
926/929	20.09	CIB	2.22	0.85	2.2892	0.75
1090	20.0932	CIB	2.45	0.62	2.2972	0.73
926/929	20.0935	CIB	2.2	0.82	2.2409	0.7
1090	20.0961	CIB	2.33	0.52	2.3483	0.63
926/929	20.0973	CIB	2	0.7	2.1923	0.7
1090	20.0985	CIB	2.76	0.47	2.1715	0.69
588	20.0997	CIB	1.67	0.99	2.1475	0.74
926/929	20.1004	CIB	2.1	0.77	2.1877	0.78
1090	20.1014	CIB	2.21	0.77	2.1217	0.83
704	20.1031	CIB	2.2	0.92	2.3137	0.78
1090	20.1044	CIB	2.43	0.69	2.3086	0.75
1090	20.1073	CIB	2.63	0.73	2.3166	0.7
926/929	20.1099	CIB	2.07	0.63	2.2429	0.66
1090	20.1103	CIB	2.25	0.52	2.2849	0.69
926/929	20.113	CIB	1.83	0.75	2.0946	0.66
1090	20.1138	CIB	2.64	0.82	2.046	0.55
926/929	20.1162	CIB	1.68	0.6	1.9776	0.6
1090	20.1168	CIB	1.83	0.04	2.0206	0.6
926/929	20.1193	CIB	1.91	0.8	1.9089	0.6
926/929	20.1225	CIB	2.05	0.76	2.0272	0.53
926/929	20.1256	CIB	2.08	0.79	2.0832	0.61
1090	20.1259	CIB	2.27	0.28	2.1495	0.71
1090	20.1305	CIB	2.11	0.43	2.1803	0.73
747	20.1329	CIB	2.24	1.29	2.188	0.71
1090	20.1341	CIB	2.2	0.86	2.144	0.75
1090	20.1387	CIB	2.12	0.67	2.092	0.76
1090	20.1432	CIB	2.05	0.52	2.018	0.61
1090	20.1478	CIB	1.85	0.46	1.914	0.59
1090	20.1523	CIB	1.87	0.56	1.936	0.57
1090	20.1578	CIB	1.68	0.73	1.952	0.56
1090	20.1615	CIB	2.23	0.6	2.03	0.56
1090	20.1645	CIB	2.13	0.46	2.182	0.61
1090	20.1682	CIB	2.24	0.46	2.388	0.6
1218	20.17	CIB	2.63	0.82	2.452	0.65
1090	20.1757	CIB	2.71	0.67	2.548	0.71
1090	20.1794	CIB	2.55	0.85	2.584	0.79
1090	20.1832	CIB	2.61	0.76	2.582	0.82
1090	20.1869	CIB	2.42	0.85	2.516	0.84
1090	20.1914	CIB	2.62	0.96	2.506	0.81
1090	20.1959	CIB	2.38	0.8	2.4273	0.8
1090	20.1989	CIB	2.5	0.66	2.4213	0.76
926/929	20.1999	CIB	2.22	0.74	2.3235	0.7
1090	20.2019	CIB	2.39	0.63	2.3395	0.66
926/929	20.204	CIB	2.13	0.65	2.2695	0.7
1090	20.2063	CIB	2.46	0.62	2.2334	0.67
608	20.2066	CIB	2.15	0.87	2.2294	0.7
926/929	20.2071	CIB	2.04	0.6	2.1849	0.76
1090	20.2101	CIB	2.37	0.75	2.111	0.79
926/929	20.2102	CIB	1.91	0.94	2.213	0.77
926/929	20.2133	CIB	2.09	0.79	2.2531	0.8
1090	20.2138	CIB	2.66	0.75	2.3211	0.82
926/929	20.2164	CIB	2.24	0.76	2.3569	0.78
1090	20.2168	CIB	2.71	0.85	2.3313	0.76
926/929	20.2195	CIB	2.09	0.76	2.1834	0.74
926/929	20.2226	CIB	1.96	0.67	2.21	0.7

926/929	20.2257	CIB	1.92	0.68	2.118	0.72
1090	20.2273	CIB	2.37	0.56	2.1505	0.75
747	20.228	CIB	2.25	0.92	2.1579	0.78
747	20.228	CIB	2.25	0.93	2.1562	0.83
926/929	20.2288	CIB	2	0.81	2.1702	0.82
926/929	20.2347	CIB	1.91	0.93	2.0784	0.81
1090	20.236	CIB	2.44	0.5	2.0191	0.82
926/929	20.2371	CIB	1.79	0.9	2.0233	0.84
926/929	20.2396	CIB	1.95	0.98	2.0271	0.84
926/929	20.2421	CIB	2.02	0.91	2.0131	0.87
926/929	20.2446	CIB	1.93	0.9	2.1047	0.87
1090	20.2448	CIB	2.37	0.63	2.087	0.82
926/929	20.2471	CIB	2.25	0.93	2.191	0.81
926/929	20.2495	CIB	1.86	0.72	2.1839	0.76
1090	20.2535	CIB	2.54	0.86	2.0855	0.76
926/929	20.2545	CIB	1.9	0.68	1.992	0.77
926/929	20.257	CIB	1.88	0.61	2.1171	0.79
926/929	20.2594	CIB	1.78	0.98	2.0591	0.8
1090	20.2623	CIB	2.49	0.84	2.1087	0.85
1090	20.2693	CIB	2.25	0.87	2.1512	0.89
926/929	20.2693	CIB	2.14	0.94	2.1317	0.86
1218	20.27	CIB	2.09	0.81	1.9767	0.88
926/929	20.2727	CIB	1.68	0.86	1.9667	0.86
926/929	20.2795	CIB	1.71	0.94	1.8771	0.85
1090	20.2798	CIB	2.2	0.77	1.8569	0.81
926/929	20.283	CIB	1.7	0.87	1.968	0.78
77	20.2837	CIB	1.99	0.63	1.949	0.76
1090	20.2849	CIB	2.24	0.7	1.8363	0.72
926/929	20.2864	CIB	1.62	0.85	1.9553	0.65
926/929	20.2898	CIB	1.64	0.56	1.9063	0.65
1090	20.29	CIB	2.29	0.5	1.9183	0.63
926/929	20.2932	CIB	1.75	0.63	2.0264	0.58
1090	20.294	CIB	2.3	0.6	2.0475	0.59
558	20.2959	CIB	2.16	0.61	2.0735	0.67
926/929	20.2966	CIB	1.74	0.62	2.0905	0.67
1090	20.2991	CIB	2.42	0.9	1.9765	0.76
926/929	20.3	CIB	1.83	0.61	1.9185	0.94
588	20.3003	CIB	1.73	1.06	1.9616	0.9
754	20.3019	CIB	1.87	1.49	1.8739	0.86
926/929	20.3034	CIB	1.96	0.45	1.8316	0.84
926/929	20.3065	CIB	1.98	0.7	1.9316	0.71
926/929	20.3096	CIB	1.62	0.52	1.8806	0.58
1090	20.3103	CIB	2.23	0.39	1.967	0.67
926/929	20.3126	CIB	1.61	0.86	1.8936	0.7
1090	20.3154	CIB	2.39	0.9	1.9298	0.75
926/929	20.3157	CIB	1.61	0.81	1.9298	0.82
926/929	20.3188	CIB	1.8	0.78	1.91	0.79
1090	20.3195	CIB	2.23	0.76	1.844	0.87
926/929	20.3218	CIB	1.52	0.72	1.9611	0.9
747	20.3232	CIB	2.06	1.29	2.0492	0.91
747	20.3232	CIB	2.2	0.97	1.9132	0.86
1090	20.3246	CIB	2.24	0.81	2.116	0.84
926/929	20.3249	CIB	1.55	0.53	2.212	0.74
1090	20.3297	CIB	2.53	0.59	2.1563	0.64
1090	20.3358	CIB	2.54	0.81	2.1903	0.58
926/929	20.3371	CIB	1.92	0.45	2.3563	0.57
1090	20.3387	CIB	2.41	0.51	2.2735	0.52
1090	20.3395	CIB	2.38	0.48	2.1838	0.45
926/929	20.3402	CIB	2.12	0.34	2.2615	0.5
926/929	20.3453	CIB	2.09	0.46	2.1734	0.54

1090	20.3461	CIB	2.31	0.72	2.1594	0.57
926/929	20.3477	CIB	1.97	0.69	2.0947	0.64
1090	20.3498	CIB	2.31	0.64	2.0206	0.69
926/929	20.3501	CIB	1.79	0.68	2.0006	0.66
926/929	20.3524	CIB	1.72	0.74	1.9829	0.68
1090	20.3534	CIB	2.21	0.57	1.9929	0.66
926/929	20.3548	CIB	1.88	0.78	2.0352	0.69
1090	20.3571	CIB	2.36	0.55	2.091	0.7
926/929	20.3572	CIB	2	0.83	2.101	0.74
926/929	20.3595	CIB	2	0.79	2.1148	0.67
1218	20.36	CIB	2.26	2.0317	0.71	NA
1090	20.3608	CIB	1.95	0.52	2.0281	0.7
926/929	20.3617	CIB	1.94	0.72	2.0111	0.68
926/929	20.3636	CIB	1.99	0.78	2.0511	0.64
926/929	20.366	CIB	1.92	0.71	2.0399	0.68
1090	20.368	CIB	2.46	0.46	2.113	0.71
926/929	20.3681	CIB	1.89	0.74	2.1195	0.7
1218	20.37	CIB	2.31	0.84	2.1663	0.78
926/929	20.3703	CIB	2.02	0.75	2.0771	0.83
747	20.3708	CIB	2.15	1.11	2.0603	0.8
926/929	20.3724	CIB	2.01	0.72	1.9987	0.78
926/929	20.3775	CIB	1.81	0.59	2.1372	0.76
926/929	20.381	CIB	2	0.7	2.0948	0.68
1090	20.3824	CIB	2.71	0.66	2.1401	0.69
926/929	20.3845	CIB	1.94	0.73	2.1909	0.71
704	20.3853	CIB	2.24	0.75	2.1766	0.61
926/929	20.3879	CIB	2.06	0.71	1.9859	0.63
1090	20.391	CIB	1.93	0.22	1.9382	0.52
926/929	20.3914	CIB	1.76	0.73	1.8356	0.5
1090	20.3968	CIB	1.7	0.2	1.7686	0.47
926/929	20.3984	CIB	1.73	0.62	1.7626	0.55
926/929	20.4018	CIB	1.73	0.6	1.7846	0.52
1090	20.4035	CIB	1.9	0.59	1.8189	0.59
926/929	20.4053	CIB	1.87	0.6	1.8875	0.59
926/929	20.4088	CIB	1.87	0.53	1.9041	0.58
1090	20.4101	CIB	2.07	0.63	2.0721	0.61
926/929	20.4157	CIB	1.81	0.56	2.0614	0.61
1090	20.4168	CIB	2.74	0.74	2.0155	0.62
926/929	20.4192	CIB	1.81	0.61	2.0415	0.6
926/929	20.4227	CIB	1.64	0.55	1.9846	0.6
1090	20.4246	CIB	2.2	0.54	1.9026	0.57
926/929	20.4269	CIB	1.53	0.55	1.8813	0.61
704	20.4299	CIB	2.33	0.61	1.9849	0.56
926/929	20.4319	CIB	1.71	0.78	1.8585	0.58
1090	20.4325	CIB	2.16	0.31	1.9946	0.63
926/929	20.4369	CIB	1.57	0.62	2.0378	0.68
1218	20.44	CIB	2.21	0.82	2.1104	0.62
1218	20.44	CIB	2.55	0.85	2.0211	0.71
1090	20.4403	CIB	2.07	0.5	1.9984	0.69
926/929	20.4419	CIB	1.71	0.74	1.8678	0.63
926/929	20.4459	CIB	1.45	0.51	1.8146	0.68
926/929	20.4489	CIB	1.55	0.53	1.7264	0.66
747	20.4501	CIB	2.28	1.14	1.6897	0.62
926/929	20.4519	CIB	1.63	0.38	1.8608	0.65
926/929	20.4549	CIB	1.53	0.52	1.9153	0.63
1090	20.456	CIB	2.31	0.67	1.8329	0.44
926/929	20.4579	CIB	1.83	0.42	1.9113	0.41
926/929	20.4609	CIB	1.87	0.22	2.0692	0.49
926/929	20.464	CIB	2.02	0.23	1.966	0.51
1090	20.4654	CIB	2.32	0.89	1.9551	0.52

926/929	20.467	CIB	1.79	0.76	2.0635	0.61
926/929	20.4701	CIB	1.77	0.51	1.9998	0.68
1090	20.4717	CIB	2.41	0.67	1.905	0.68
926/929	20.4732	CIB	1.7	0.59	1.9063	0.69
926/929	20.4762	CIB	1.85	0.86	1.9838	0.7
926/929	20.4793	CIB	1.8	0.8	1.8464	0.74
1090	20.4796	CIB	2.16	0.6	1.918	0.75
926/929	20.4824	CIB	1.72	0.87	1.9688	0.73
704	20.4835	CIB	2.06	0.64	1.9846	0.64
704	20.4835	CIB	2.1	0.76	1.9342	0.65
1090	20.4874	CIB	1.88	0.32	2.0656	0.65
926/929	20.4946	CIB	1.91	0.68	2.067	0.68
1090	20.4953	CIB	2.38	0.87	1.9844	0.69
926/929	20.4977	CIB	0.77	2.0844	0.76	NA
926/929	20.5008	CIB	1.77	0.82	2.038	0.75
1090	20.5031	CIB	2.28	0.66	1.8508	0.75
926/929	20.5038	CIB	1.72	0.62	2.0857	0.78
926/929	20.5069	CIB	1.63	0.86	2.086	0.78
1218	20.51	CIB	3.02	0.95	2.084	0.85
926/929	20.5103	CIB	1.77	0.82	2.1009	0.92
1090	20.5109	CIB	2.27	1.02	2.1155	0.9
926/929	20.5139	CIB	1.81	0.96	1.8905	0.75
926/929	20.5176	CIB	1.7	0.74	1.918	0.74
1090	20.5188	CIB	1.9	0.23	1.8495	0.7
926/929	20.5213	CIB	1.91	0.73	1.9641	0.69
926/929	20.5249	CIB	1.93	0.81	2.0312	0.65
1090	20.5252	CIB	2.38	0.93	2.1232	0.77
77	20.5256	CIB	2.04	0.56	2.1475	0.76
704	20.5281	CIB	2.36	0.82	2.236	0.74
926/929	20.5286	CIB	2.03	0.66	2.2024	0.71
1090	20.5316	CIB	2.37	0.75	2.2384	0.86
926/929	20.5317	CIB	2.21	0.78	2.2125	0.86
588	20.5318	CIB	2.22	1.27	2.2152	0.88
926/929	20.5343	CIB	2.23	0.86	2.3072	0.9
926/929	20.537	CIB	2.04	0.75	2.2717	0.9
1090	20.5392	CIB	2.83	0.86	2.1886	0.78
926/929	20.5396	CIB	2.03	0.76	2.1825	0.69
926/929	20.5422	CIB	1.8	0.67	2.192	0.71
1090	20.5443	CIB	2.2	0.42	2.024	0.69
926/929	20.5448	CIB	2.09	0.86	2.0426	0.71
747	20.5468	CIB	1.99	0.77	2.1178	0.75
926/929	20.5474	CIB	2.13	0.82	2.2158	0.85
926/929	20.55	CIB	2.18	0.89	2.1242	0.83
1090	20.5507	CIB	2.69	0.89	2.1046	0.87
926/929	20.5526	CIB	1.63	0.77	2.2211	0.88
926/929	20.5552	CIB	1.89	1	2.1751	0.9
1090	20.5571	CIB	2.71	0.86	2.0388	0.91
926/929	20.5578	CIB	1.95	1	2.1562	0.95
926/929	20.5604	CIB	2.01	0.91	2.199	0.94
1090	20.5648	CIB	2.22	0.96	2.187	0.99
926/929	20.5655	CIB	2.11	0.96	2.3901	0.99
1090	20.5699	CIB	2.65	1.11	2.3863	0.98
1218	20.57	CIB	2.97	2.3706	0.92	NA
926/929	20.5707	CIB	1.99	0.88	2.4515	0.96
926/929	20.5758	CIB	2.14	0.74	2.2748	0.91
1090	20.5763	CIB	2.51	1.1	2.1236	0.95
926/929	20.5809	CIB	1.77	0.92	2.1906	0.94
1090	20.5826	CIB	2.21	1.09	2.2135	0.97
926/929	20.5851	CIB	2.32	0.86	2.1935	0.87
926/929	20.5886	CIB	2.26	0.87	2.255	0.87

1090	20.589	CIB	2.41	0.63	2.2366	0.84
926/929	20.592	CIB	2.07	0.92	2.2057	0.79
926/929	20.5954	CIB	2.12	0.91	2.1841	0.83
704	20.5975	CIB	2.17	0.6	2.0201	0.73
926/929	20.5988	CIB	2.15	1.07	2.0374	0.67
1090	20.6018	CIB	1.59	0.13	2.0371	0.68
926/929	20.6022	CIB	2.16	0.65	2.1271	0.7
926/929	20.6056	CIB	2.12	0.95	2.0928	0.61
1090	20.6069	CIB	2.62	0.7	2.1468	0.69
926/929	20.6091	CIB	1.98	2.142	0.71	NA
1090	20.612	CIB	1.86	0.47	2.1306	0.68
926/929	20.6125	CIB	2.14	2.0926	0.59	NA
926/929	20.6159	CIB	2.06	0.88	2.1401	0.64
1090	20.6171	CIB	2.43	0.41	2.1481	0.59
926/929	20.6193	CIB	2.21	0.82	2.1817	0.6
1090	20.6222	CIB	1.9	0.25	2.2421	0.56
926/929	20.6227	CIB	2.3	0.66	2.2281	0.64
926/929	20.6258	CIB	2.36	0.68	2.2857	0.62
1090	20.6273	CIB	2.36	0.81	2.4026	0.74
926/929	20.6285	CIB	2.5	0.72	2.4278	0.79
926/929	20.6312	CIB	2.48	0.83	2.3386	0.85
1090	20.6325	CIB	2.43	0.9	2.3506	0.84
926/929	20.634	CIB	1.92	1	2.4081	0.88
926/929	20.6367	CIB	2.42	0.77	2.3865	0.89
1090	20.6376	CIB	2.79	0.92	2.5013	0.93
926/929	20.6394	CIB	2.38	0.89	2.5711	0.9
1218	20.64	CIB	3	1.05	2.5363	0.93
926/929	20.6421	CIB	2.27	0.89	2.4257	0.94
926/929	20.6448	CIB	2.25	0.88	2.4665	0.97
926/929	20.6476	CIB	2.24	0.98	2.313	0.9
1090	20.6478	CIB	2.58	1.02	2.2429	0.88
926/929	20.6503	CIB	2.24	0.71	2.3398	0.93
926/929	20.653	CIB	1.91	0.83	2.3583	0.89
1090	20.6554	CIB	2.73	1.1	2.3863	0.81
926/929	20.6557	CIB	2.33	0.78	2.3937	0.84
704	20.6564	CIB	2.72	0.64	2.5628	0.9
926/929	20.6584	CIB	2.27	0.85	2.4825	0.83
1090	20.6604	CIB	2.76	1.12	2.467	0.8
926/929	20.6622	CIB	2.33	0.78	2.487	0.9
926/929	20.6661	CIB	2.25	0.6	2.455	0.9
1090	20.6667	CIB	2.82	1.16	2.451	0.88
926/929	20.6699	CIB	2.11	0.83	2.3884	0.9
1090	20.6731	CIB	2.74	1.01	2.4978	0.98
926/929	20.6737	CIB	2.02	0.88	2.3767	0.92
1090	20.6794	CIB	2.8	0.99	2.3917	0.91
926/929	20.6813	CIB	2.21	0.88	2.2537	0.87
926/929	20.6851	CIB	2.19	0.81	2.4126	0.89
747	20.688	CIB	2.05	0.77	2.2399	0.86
1090	20.692	CIB	2.81	1.02	2.2194	0.85
926/929	20.6927	CIB	1.94	0.83	2.231	0.83
926/929	20.6965	CIB	2.11	0.85	2.2852	0.81
926/929	20.6999	CIB	2.25	0.67	2.2272	0.75
926/929	20.7028	CIB	2.32	0.67	2.2296	0.77
1090	20.7046	CIB	2.52	0.74	2.2873	0.77
926/929	20.7058	CIB	1.95	0.93	2.2527	0.75
1218	20.71	CIB	2.4	0.82	2.2232	0.79
926/929	20.7117	CIB	2.07	0.58	2.1081	0.82
926/929	20.7146	CIB	2.17	0.86	2.0303	0.69
926/929	20.7175	CIB	1.94	0.92	1.9916	0.71
1090	20.7198	CIB	1.56	0.27	2.0228	0.75

926/929	20.7205	CIB	2.21	0.94	2.0469	0.74
704	20.7226	CIB	2.23	0.76	2.008	0.83
926/929	20.7234	CIB	2.29	0.79	2.12	0.91
754	20.7278	CIB	1.75	1.38	2.1808	0.84
926/929	20.7293	CIB	0.66	2.0751	0.8	NA
1090	20.7299	CIB	2.45	0.63	2.024	0.77
926/929	20.7322	CIB	1.81	0.54	2.274	0.65
926/929	20.7352	CIB	2.09	0.65	2.2424	0.64
1090	20.7362	CIB	2.75	0.76	2.0844	0.6
926/929	20.7381	CIB	2.12	0.63	2.1391	0.61
77	20.7406	CIB	1.66	0.44	2.2253	0.6
926/929	20.741	CIB	2.08	0.58	2.0886	0.56
1090	20.7425	CIB	2.52	0.58	2.1994	0.62
926/929	20.7443	CIB	2.07	0.54	2.3437	0.64
1090	20.7488	CIB	2.67	0.94	2.3435	0.67
926/929	20.7502	CIB	2.38	0.55	2.3455	0.69
926/929	20.7534	CIB	2.08	0.76	2.3278	0.74
1090	20.7552	CIB	2.53	0.66	2.1648	0.73
926/929	20.7566	CIB	1.98	0.81	2.1565	0.75
926/929	20.7598	CIB	1.86	0.84	2.0889	0.76
1090	20.7615	CIB	2.34	0.66	1.9583	0.82
926/929	20.763	CIB	1.74	0.85	1.9826	0.77
926/929	20.7662	CIB	1.88	0.93	2.1256	0.75
1090	20.7678	CIB	2.1	0.55	1.9884	0.84
1090	20.7708	CIB	2.57	0.79	2.1001	0.83
926/929	20.7726	CIB	1.65	1.08	2.1172	0.8
1090	20.7752	CIB	2.3	0.78	2.1692	0.85
926/929	20.7776	CIB	1.96	0.8	2.0226	0.84
1090	20.7826	CIB	2.36	0.82	2.1298	0.79
926/929	20.7827	CIB	1.84	0.71	2.0732	0.74
747	20.7847	CIB	2.19	0.86	2.0908	0.72
926/929	20.7878	CIB	2.02	0.53	2.0348	0.69
704	20.7887	CIB	2.05	0.66	1.9994	0.72
1090	20.79	CIB	2.08	0.69	1.9574	0.7
926/929	20.7934	CIB	1.66	0.88	2.0692	0.71
1090	20.7989	CIB	1.98	0.73	1.9952	0.69
1218	20.8	CIB	2.58	0.59	1.9184	0.73
1090	20.8048	CIB	1.68	0.55	1.9606	0.74
926/929	20.8059	CIB	1.7	0.9	1.9806	0.65
926/929	20.8121	CIB	1.87	0.91	1.8408	0.67
1090	20.8137	CIB	2.08	0.31	1.9748	0.7
926/929	20.8184	CIB	1.88	0.67	1.9982	0.64
1090	20.8197	CIB	2.35	0.7	2.04	0.52
926/929	20.8246	CIB	1.81	0.63	2.022	0.63
1090	20.8271	CIB	2.08	0.27	1.9944	0.63
1090	20.8345	CIB	1.99	0.87	1.9844	0.68
926/929	20.8397	CIB	1.74	0.69	1.9516	0.68
1090	20.8434	CIB	2.3	0.94	1.8336	0.7
926/929	20.8484	CIB	1.65	0.65	1.9076	0.64
1090	20.8508	CIB	1.49	0.33	1.9238	0.65
1090	20.8556	CIB	2.36	0.6	1.878	0.64
926/929	20.857	CIB	1.82	0.72	1.9522	0.68
1218	20.86	CIB	2.07	0.89	2.049	0.74
704	20.862	CIB	2.02	0.85	2.039	0.7
926/929	20.8657	CIB	1.97	0.65	2.0412	0.67
1090	20.8689	CIB	2.31	0.37	2.143	0.63
926/929	20.8744	CIB	1.83	0.59	2.1032	0.58
1090	20.881	CIB	2.58	0.68	2.0964	0.65
926/929	20.8829	CIB	1.82	0.62	1.983	0.7
588	20.8868	CIB	1.94	1	2.0868	0.63

926/929	20.8888	CIB	1.74	0.61	1.9604	0.63
1090	20.8918	CIB	2.35	0.25	2.1222	0.59
926/929	20.8948	CIB	1.95	0.66	2.1188	0.57
1090	20.8991	CIB	2.63	0.43	2.4102	0.56
926/929	20.9008	CIB	1.92	0.88	2.3764	0.68
1090	20.9051	CIB	3.2	0.59	2.6106	0.77
926/929	20.9068	CIB	2.18	0.86	2.5906	0.86
1218	20.91	CIB	3.12	1.1	2.597	0.87
1090	20.9106	CIB	2.53	0.88	2.441	0.86
926/929	20.9128	CIB	1.95	0.91	2.4036	0.87
1090	20.915	CIB	2.42	0.53	2.3036	0.88
926/929	20.9188	CIB	1.99	0.94	2.2296	0.78
1218	20.92	CIB	2.62	1.16	2.2746	0.81
1090	20.9205	CIB	2.16	0.39	2.2246	0.88
926/929	20.9248	CIB	2.18	1.03	2.3338	0.81
747	20.9258	CIB	2.17	0.89	2.2552	0.79
1090	20.926	CIB	2.54	0.58	2.2514	0.88
926/929	20.9308	CIB	2.23	1.05	2.3674	0.79
926/929	20.9356	CIB	2.14	0.84	2.314	0.84
1090	20.9436	CIB	2.76	0.61	2.474	0.96
926/929	20.9487	CIB	1.9	1.12	2.5008	0.94
1090	20.9491	CIB	3.34	1.18	2.4924	0.98
1090	20.9547	CIB	2.36	0.93	2.3352	1.08
926/929	20.9547	CIB	2.1	1.05	2.3946	1.07
926/929	20.9607	CIB	1.97	1.1	2.1766	0.95
926/929	20.9655	CIB	2.2	1.11	2.2226	0.96
1090	20.9659	CIB	2.25	0.54	2.2368	0.94
1218	20.97	CIB	2.59	0.99	2.2832	0.94
704	20.9721	CIB	2.17	0.97	2.2874	0.92
926/929	20.9727	CIB	2.21	1.07	2.2994	0.99
926/929	20.9816	CIB	2.22	1.03	2.2274	1
1090	20.9879	CIB	2.31	0.9	2.2954	0.98
1218	20.99	CIB	2.51	0.89	2.2876	0.85
926/929	20.99	CIB	2.23	1.01	2.3098	0.99
926/929	20.9957	CIB	2.28	1.09	2.2136	0.89
1090	21.0005	CIB	2.11	0.38	2.2178	0.9
926/929	21.0014	CIB	1.94	1.06	2.2318	0.85
926/929	21.0075	CIB	2.25	1.09	2.2088	0.82
1090	21.0109	CIB	2.58	0.61	2.3068	0.9
926/929	21.014	CIB	2.16	0.96	2.3558	0.85
1090	21.0193	CIB	2.6	0.78	2.3616	0.77
926/929	21.0205	CIB	2.18	0.79	2.277	0.84
747	21.0235	CIB	2.28	0.69	2.3464	0.87
926/929	21.027	CIB	2.16	0.98	2.5344	0.96
1218	21.03	CIB	2.51	1.12	2.5132	1
1090	21.0319	CIB	3.54	1.23	2.4632	1.07
926/929	21.0335	CIB	2.08	0.97	2.5538	1.02
926/929	21.0387	CIB	2.03	1.04	2.4682	0.97
1090	21.0411	CIB	2.61	0.76	2.2002	0.88
926/929	21.0476	CIB	2.08	0.85	2.4155	0.77
1218	21.05	CIB	0.78	2.464	0.75	NA
1090	21.0504	CIB	2.94	0.44	2.4015	0.77
926/929	21.0566	CIB	2.22	0.92	2.381	0.73
1090	21.0578	CIB	2.36	0.86	2.2868	0.77
704	21.06	CIB	2	0.67	2.154	0.86
77	21.0626	CIB	1.91	0.96	2.1846	0.81
926/929	21.0656	CIB	2.28	0.88	2.1464	0.78
926/929	21.0728	CIB	2.38	0.68	2.2964	0.83
926/929	21.0835	CIB	2.17	0.73	2.3844	0.85
1090	21.0855	CIB	2.75	0.91	2.3242	0.87

1218	21.09	CIB	2.35	1.06	2.3212	0.95
926/929	21.0925	CIB	1.98	0.97	2.2716	0.99
1218	21.1	CIB	2.36	1.08	2.4496	1.12
926/929	21.1015	CIB	1.92	0.93	2.3792	1.1
1090	21.1058	CIB	3.64	1.57	2.5242	1.12
926/929	21.1136	CIB	2	0.94	2.4258	1.11
1090	21.1155	CIB	2.7	1.06	2.5396	1.08
588	21.1183	CIB	1.87	1.06	2.1888	0.9
1090	21.1252	CIB	2.49	0.79	2.2365	0.83
926/929	21.1269	CIB	1.89	0.66	2.0928	0.71
1218	21.13	CIB	0.56	2.2878	0.79	NA
926/929	21.1331	CIB	2.12	0.5	2.3028	0.76
1090	21.1349	CIB	2.65	1.42	2.4488	0.77
1090	21.1388	CIB	2.55	0.68	2.381	0.82
1090	21.1436	CIB	2.47	0.7	2.468	0.87
704	21.1478	CIB	2.11	0.8	2.3424	0.77
1090	21.1494	CIB	2.56	0.74	2.2686	0.86
926/929	21.1517	CIB	2.02	0.91	2.2306	0.91
926/929	21.1565	CIB	2.18	1.13	2.1926	1.04
1090	21.1591	CIB	2.28	0.98	2.193	1.03
754	21.1595	CIB	1.92	1.45	2.1686	1
926/929	21.1643	CIB	2.56	0.69	2.2392	0.92
1090	21.1688	CIB	1.9	0.77	2.2786	0.9
926/929	21.1697	CIB	2.53	0.72	2.4526	0.82
1218	21.17	CIB	2.48	0.87	2.3316	0.82
1090	21.173	CIB	2.79	1.04	2.2856	0.85
926/929	21.1758	CIB	1.96	0.72	2.3344	0.83
558	21.1771	CIB	1.67	0.89	2.2947	0.78
926/929	21.1818	CIB	2.78	0.62	2.159	0.75
926/929	21.1914	CIB	2.28	0.62	2.1905	0.78
926/929	21.1941	CIB	2.11	0.89	2.0845	0.73
926/929	21.1981	CIB	2.11	0.88	1.9141	0.79
77	21.201	CIB	1.14	0.66	1.8244	0.76
926/929	21.2014	CIB	1.93	0.88	1.7851	0.77
1090	21.2025	CIB	1.83	0.48	2.0341	0.82
926/929	21.2051	CIB	1.92	0.97	2.2073	0.85
1090	21.2075	CIB	3.36	1.12	2.2268	0.86
926/929	21.2081	CIB	2.01	0.81	2.3768	0.88
926/929	21.2114	CIB	2.02	0.93	2.4354	0.85
1090	21.2125	CIB	2.58	0.55	2.2189	0.77
926/929	21.2148	CIB	2.21	0.85	2.2637	0.71
926/929	21.2181	CIB	2.28	0.74	2.3191	0.63
1218	21.22	CIB	2.23	0.5	2.252	0.67
1090	21.2214	CIB	2.3	0.53	2.2467	0.67
926/929	21.2214	CIB	2.24	0.75	2.1912	0.74
926/929	21.2248	CIB	2.18	0.81	2.1335	0.77
588	21.2264	CIB	2	1.1	2.069	0.82
926/929	21.2284	CIB	1.94	0.68	2.1621	0.85
926/929	21.2323	CIB	1.98	0.76	2.1101	0.85
1090	21.2324	CIB	2.71	0.9	2.1981	0.8
926/929	21.2362	CIB	1.92	0.82	2.2024	0.81
1090	21.2373	CIB	2.44	0.86	2.2909	0.84
926/929	21.24	CIB	1.96	0.72	2.2229	0.88
1090	21.2423	CIB	2.42	0.91	2.1785	0.89
747	21.2434	CIB	2.37	1.11	2.0845	0.81
926/929	21.2439	CIB	1.7	0.84	2.0354	0.82
1090	21.2463	CIB	1.97	0.48	1.8728	0.76
926/929	21.2478	CIB	1.72	0.78	1.8728	0.73
926/929	21.2517	CIB	1.61	0.6	1.9127	0.71
360	21.2552	CIB	2.37	0.94	1.911	0.76

926/929	21.2556	CIB	1.9	0.76	1.9804	0.69
926/929	21.2595	CIB	1.96	0.71	2.0487	0.71
926/929	21.2631	CIB	2.06	0.45	1.9374	0.65
926/929	21.2665	CIB	1.95	0.66	1.8946	0.67
926/929	21.2699	CIB	1.81	0.69	1.8358	0.74
926/929	21.2733	CIB	1.68	0.85	1.7612	0.86
926/929	21.2767	CIB	1.67	1.04	1.7168	0.9
926/929	21.28	CIB	1.69	1.03	1.7094	0.91
926/929	21.2868	CIB	1.73	0.9	1.7309	0.89
926/929	21.2902	CIB	1.78	0.74	1.8094	0.84
926/929	21.2936	CIB	1.79	0.74	1.8571	0.76
360	21.2942	CIB	2.06	0.81	2.0455	0.76
926/929	21.297	CIB	1.93	0.63	2.1066	0.74
1218	21.3	CIB	2.67	0.87	2.1579	0.75
926/929	21.3004	CIB	2.08	0.65	2.2027	0.73
926/929	21.3041	CIB	2.05	0.8	2.2256	0.77
926/929	21.3071	CIB	2.28	0.67	2.1487	0.74
926/929	21.3101	CIB	2.04	0.87	2.1182	0.81
926/929	21.3138	CIB	2.28	0.7	2.0522	0.87
926/929	21.3172	CIB	1.93	1	1.9422	0.96
926/929	21.3205	CIB	1.72	1.13	1.8974	0.9
926/929	21.3239	CIB	1.73	1.12	1.7866	1.01
926/929	21.3273	CIB	1.82	0.58	1.8207	1.03
926/929	21.3306	CIB	1.73	1.24	1.869	1
77	21.3322	CIB	2.1	1.06	1.896	1.02
360	21.3332	CIB	1.96	1.01	1.8989	1.08
926/929	21.3343	CIB	1.87	1.22	1.9148	1.02
926/929	21.3373	CIB	1.83	0.89	1.8333	0.97
926/929	21.3407	CIB	1.81	0.93	1.7936	0.9
926/929	21.344	CIB	1.69	0.82	1.8665	0.87
926/929	21.3474	CIB	1.76	0.66	1.8816	0.84
1218	21.35	CIB	2.23	1.05	1.8569	0.84
926/929	21.3508	CIB	1.91	0.75	2.0663	0.79
926/929	21.3541	CIB	1.69	0.92	2.0888	0.83
1090	21.3567	CIB	2.74	0.57	1.9688	0.83
926/929	21.3573	CIB	1.87	0.86	2.1068	0.71
926/929	21.3606	CIB	1.63	1.03	2.1059	0.71
1090	21.3617	CIB	2.6	0.16	1.9268	0.79
926/929	21.3632	CIB	1.68	0.95	1.9561	0.65
926/929	21.3671	CIB	1.84	0.96	1.9921	0.64
1090	21.3672	CIB	2.02	0.17	1.9841	0.74
926/929	21.3704	CIB	1.81	0.95	2.0536	0.76
1090	21.373	CIB	2.56	0.65	2.1191	0.79
926/929	21.3736	CIB	2.03	1.05	2.2291	0.88
926/929	21.3769	CIB	2.17	1.12	2.3055	0.88
1090	21.3788	CIB	2.57	0.63	2.3295	0.89
926/929	21.3801	CIB	2.2	0.97	2.3715	0.85
1090	21.3834	CIB	2.68	0.68	2.3831	0.82
926/929	21.3834	CIB	2.24	0.87	2.4911	0.95
926/929	21.3867	CIB	2.23	0.97	2.4697	0.94
1090	21.3892	CIB	3.11	1.24	2.4497	1.05
926/929	21.3899	CIB	2.09	0.95	2.4455	1.07
1218	21.39	CIB	2.58	1.23	2.4215	1.05
926/929	21.3932	CIB	2.22	0.97	2.2315	0.97
747	21.3941	CIB	2.11	0.85	2.3436	0.91
747	21.3941	CIB	2.16	0.83	2.2414	0.88
1090	21.3962	CIB	2.65	0.65	2.2027	0.92
926/929	21.3965	CIB	2.07	1.11	2.2447	0.88
926/929	21.3997	CIB	2.02	1.16	2.2036	0.93
1090	21.402	CIB	2.32	0.65	2.0928	1.01

926/929	21.403	CIB	1.95	1.09	2.2269	0.95
926/929	21.4062	CIB	2.1	1.04	2.1638	0.91
1090	21.4078	CIB	2.74	0.83	2.0712	0.96
926/929	21.4095	CIB	1.71	0.94	2.1063	0.94
926/929	21.4128	CIB	1.86	0.91	2.1951	0.92
704	21.4131	CIB	2.13	0.97	2.0544	0.96
1090	21.4136	CIB	2.54	0.93	2.1241	0.95
926/929	21.416	CIB	2.04	1.02	2.1801	0.97
926/929	21.4193	CIB	2.06	0.93	2.2541	0.99
926/929	21.4225	CIB	2.14	0.98	2.1695	1
1090	21.4252	CIB	2.5	1.1	2.1484	1
926/929	21.4258	CIB	2.12	0.94	2.141	0.97
926/929	21.4291	CIB	1.93	1.07	2.0914	0.9
1090	21.4296	CIB	2.02	0.76	2.0155	0.88
926/929	21.4323	CIB	1.89	0.65	1.9757	0.81
1090	21.434	CIB	2.12	0.96	2.0435	0.74
926/929	21.4356	CIB	1.92	0.61	2.0171	0.82
1090	21.4375	CIB	2.27	0.72	1.9532	0.91
926/929	21.4388	CIB	1.89	1.15	2.0118	0.93
926/929	21.4388	CIB	1.57	1.09	2.015	0.91
1218	21.44	CIB	2.41	1.1	1.9503	0.89
926/929	21.4421	CIB	1.93	0.48	2.0247	0.78
926/929	21.4453	CIB	1.95	0.62	2.0917	0.72
1090	21.4463	CIB	2.26	0.63	2.0991	0.61
926/929	21.4486	CIB	1.9	0.79	2.0545	0.74
1090	21.4507	CIB	2.45	0.54	2.0274	0.8
926/929	21.4519	CIB	1.71	1.14	2.0234	0.82
926/929	21.4551	CIB	1.81	0.89	2.0008	0.85
1090	21.456	CIB	2.24	0.72	1.834	0.97
926/929	21.458	CIB	1.79	0.97	1.9837	0.9
926/929	21.4616	CIB	1.62	1.12	2.0192	0.8
1090	21.4639	CIB	2.46	0.79	1.9115	0.79
926/929	21.4649	CIB	1.99	0.39	2.0212	0.72
926/929	21.4681	CIB	1.7	0.68	2.1127	0.59
1090	21.4683	CIB	2.34	0.61	2.0267	0.53
926/929	21.4718	CIB	2.07	0.49	2.0301	0.57
1090	21.4727	CIB	2.03	0.49	2.0273	0.61
926/929	21.4758	CIB	2.01	0.61	2.0313	0.6
926/929	21.4798	CIB	1.69	0.85	1.9485	0.73
1090	21.4815	CIB	2.36	0.58	1.8784	0.83
926/929	21.483	CIB	1.66	1.11	1.8372	0.73
926/929	21.4878	CIB	1.68	1	1.8247	0.74
1090	21.4903	CIB	1.8	0.13	1.6916	0.79
926/929	21.4918	CIB	1.63	0.9	1.7163	0.71
926/929	21.4958	CIB	1.69	0.82	1.8123	0.61
926/929	21.4998	CIB	1.78	0.72	1.8009	0.73
1090	21.5	CIB	2.16	0.5	1.9099	0.73
926/929	21.5038	CIB	1.74	0.73	1.9477	0.72
608	21.5066	CIB	2.17	0.87	1.9545	0.74
926/929	21.5069	CIB	1.88	0.78	1.8758	0.81
926/929	21.5094	CIB	1.82	0.82	1.8618	0.81
926/929	21.5118	CIB	1.77	0.84	1.8378	0.87
926/929	21.5143	CIB	1.67	0.73	1.7827	0.88
1090	21.5167	CIB	2.05	1.16	1.7484	0.88
926/929	21.517	CIB	1.61	0.84	1.825	0.87
926/929	21.519	CIB	1.64	0.85	1.8181	0.91
1090	21.5211	CIB	2.15	0.75	1.7602	0.79
926/929	21.5217	CIB	1.64	0.94	1.8457	0.77
926/929	21.5242	CIB	0.6	1.8502	0.8	NA
1090	21.5255	CIB	1.95	0.71	1.7319	0.82

926/929	21.5266	CIB	1.66	0.98	1.8123	0.64
926/929	21.5286	CIB	1.68	0.88	1.775	0.71
1090	21.5299	CIB	1.96	0.03	1.7006	0.72
926/929	21.5316	CIB	1.63	0.95	1.7841	0.72
926/929	21.534	CIB	1.58	0.78	1.7778	0.66
1090	21.5347	CIB	2.08	0.98	1.6669	0.76
926/929	21.5365	CIB	1.65	0.56	1.8477	0.71
926/929	21.539	CIB	1.41	0.54	1.9054	0.66
1090	21.5394	CIB	2.53	0.7	1.8606	0.55
926/929	21.5414	CIB	1.87	0.52	1.8981	0.57
926/929	21.5441	CIB	1.86	0.44	1.9673	0.61
926/929	21.5469	CIB	1.83	0.65	1.7917	0.63
926/929	21.5497	CIB	1.75	0.75	1.8944	0.65
926/929	21.5525	CIB	1.65	0.77	1.8581	0.73
1090	21.5537	CIB	2.38	0.66	1.8282	0.79
926/929	21.5553	CIB	1.67	0.85	1.9678	0.74
926/929	21.5573	CIB	1.68	0.91	2.0177	0.69
1090	21.5585	CIB	2.45	0.5	1.8815	0.72
1218	21.56	CIB	1.9	0.52	1.9806	0.65
926/929	21.5609	CIB	1.7	0.8	2.0046	0.64
1090	21.5632	CIB	2.17	0.49	1.8745	0.71
926/929	21.5637	CIB	1.8	0.91	1.9923	0.69
926/929	21.5665	CIB	1.8	0.82	2.02	0.68
1090	21.568	CIB	2.49	0.41	1.9675	0.74
926/929	21.5693	CIB	1.84	0.75	2.1129	0.68
926/929	21.5721	CIB	1.91	0.81	2.1415	0.66
1090	21.5728	CIB	2.53	0.63	2.1715	0.68
926/929	21.5749	CIB	1.94	0.71	2.18	0.7
1090	21.5775	CIB	2.64	0.51	2.1025	0.81
926/929	21.5777	CIB	1.88	0.82	1.9758	0.81
754	21.5798	CIB	1.52	1.4	2.0192	0.92
926/929	21.5811	CIB	1.9	0.6	2.0212	0.98
588	21.5813	CIB	2.16	1.24	1.9695	0.91
1090	21.5823	CIB	2.65	0.81	2.0581	0.75
926/929	21.5833	CIB	1.62	0.5	2.1829	0.67
926/929	21.5863	CIB	1.96	0.61	2.1669	0.55
1090	21.587	CIB	2.52	0.19	2.1329	0.48
926/929	21.5895	CIB	2.08	0.64	2.1887	0.48
1090	21.5927	CIB	2.48	0.45	2.1439	0.5
926/929	21.5927	CIB	1.9	0.51	2.1099	0.52
926/929	21.5953	CIB	1.74	0.7	2.0402	0.54
1090	21.5975	CIB	2.35	0.31	1.8662	0.6
926/929	21.5991	CIB	1.73	0.74	1.9442	0.62
1218	21.6	CIB	1.61	0.74	1.884	0.6
1090	21.6013	CIB	2.29	0.63	1.7006	0.63
926/929	21.6023	CIB	1.44	0.57	1.8023	0.54
926/929	21.6055	CIB	1.43	0.47	1.8102	0.54
1090	21.6061	CIB	2.24	0.29	1.7802	0.5
926/929	21.6087	CIB	1.65	0.71	1.8367	0.52
1090	21.6089	CIB	2.14	0.47	2.0322	0.63
926/929	21.6119	CIB	1.72	0.67	1.9485	0.73
747	21.614	CIB	2.41	1.02	2.0926	0.73
926/929	21.6141	CIB	1.82	0.78	2.0144	0.78
1090	21.6156	CIB	2.37	0.7	2.1201	0.75
926/929	21.6183	CIB	1.75	0.73	1.9355	0.63
1090	21.6193	CIB	2.25	0.53	2.0451	0.56
926/929	21.6215	CIB	1.49	0.44	1.8587	0.49
1090	21.6229	CIB	2.37	0.39	1.9329	0.43
926/929	21.6246	CIB	1.44	0.34	1.7972	0.45
1090	21.6266	CIB	2.12	0.47	1.9458	0.42

926/929	21.6278	CIB	1.57	0.61	1.7983	0.47
1090	21.6303	CIB	2.23	0.3	1.8654	0.56
926/929	21.6311	CIB	1.63	0.64	1.7954	0.51
926/929	21.6344	CIB	1.77	0.76	1.8731	0.49
1090	21.6346	CIB	1.77	0.25	1.7146	0.6
1090	21.6376	CIB	1.96	0.51	1.8001	0.75
926/929	21.6378	CIB	1.44	0.86	1.8574	0.87
1218	21.64	CIB	2.06	1.36	1.7597	0.93
1218	21.64	CIB	2.06	1.36	1.7537	0.95
926/929	21.6411	CIB	1.28	0.55	1.7213	0.85
1090	21.6412	CIB	1.93	0.61	1.6673	0.64
926/929	21.6444	CIB	1.28	0.37	1.5335	0.46
1090	21.6449	CIB	1.79	0.33	1.8532	0.51
926/929	21.6478	CIB	1.39	0.46	1.813	0.55
1090	21.6502	CIB	2.88	0.79	1.9198	0.63
926/929	21.6511	CIB	1.73	0.82	2.0738	0.64
926/929	21.6544	CIB	1.81	0.77	2.129	0.73
1090	21.6556	CIB	2.56	0.36	2.079	0.66
926/929	21.6578	CIB	1.67	0.89	2.0679	0.67
1090	21.6609	CIB	2.63	0.47	2.0819	0.69
926/929	21.6611	CIB	1.67	0.87	2.1059	0.74
926/929	21.6637	CIB	1.88	0.87	2.1132	0.71
1090	21.6662	CIB	2.68	0.61	1.9203	0.8
926/929	21.6676	CIB	1.7	0.72	1.9135	0.83
926/929	21.6708	CIB	1.67	0.92	1.8571	0.84
926/929	21.6741	CIB	1.64	1.01	1.6526	0.93
926/929	21.6773	CIB	1.6	0.95	1.6447	1.02
926/929	21.6806	CIB	1.66	1.06	1.6346	1.03
926/929	21.6839	CIB	1.66	1.14	1.7248	1.02
926/929	21.6871	CIB	1.61	0.97	1.8073	0.96
588	21.6894	CIB	2.09	1	1.8004	0.92
1218	21.69	CIB	2.01	0.63	1.8018	0.86
926/929	21.6904	CIB	1.62	0.87	1.7979	0.83
926/929	21.6936	CIB	1.67	0.82	1.7043	0.8
926/929	21.6969	CIB	1.59	0.82	1.7303	0.83
926/929	21.6995	CIB	1.62	0.84	1.7471	0.82
1090	21.7035	CIB	2.14	0.81	1.7507	0.77
926/929	21.7048	CIB	1.71	0.8	1.8617	0.74
926/929	21.7081	CIB	1.69	0.6	1.9217	0.68
1090	21.7088	CIB	2.15	0.63	1.8442	0.65
926/929	21.7123	CIB	0.57	1.8012	0.66	NA
1090	21.7141	CIB	1.83	0.65	1.8637	0.62
926/929	21.7156	CIB	1.53	0.83	1.6645	0.62
1090	21.7195	CIB	1.94	0.42	1.606	0.67
926/929	21.7206	CIB	1.35	0.61	1.66	0.73
1090	21.7248	CIB	2.1	0.96	1.5695	0.8
926/929	21.7248	CIB	1.37	0.82	1.6436	0.7
926/929	21.7288	CIB	1.45	0.68	1.7313	0.8
1218	21.73	CIB	0.93	1.8082	0.83	NA
1090	21.7301	CIB	2	0.6	1.6798	0.83
926/929	21.7327	CIB	1.68	0.99	1.6863	0.87
926/929	21.7366	CIB	1.59	0.96	1.627	0.73
926/929	21.7406	CIB	1.48	0.85	1.5326	0.77
1090	21.7441	CIB	1.39	0.26	1.6726	0.75
926/929	21.7445	CIB	1.53	0.81	1.6874	0.75
1090	21.7483	CIB	2.38	0.89	1.7196	0.74
926/929	21.7484	CIB	1.66	0.91	1.7736	0.91
926/929	21.7484	CIB	1.64	0.85	1.8	0.81
926/929	21.7524	CIB	1.66	1.1	1.6164	0.86
1090	21.7525	CIB	1.66	0.32	1.6504	0.84

926/929	21.7564	CIB	1.46	1.11	1.7544	0.87
1090	21.7609	CIB	1.83	0.8	1.8544	0.83
747	21.7623	CIB	2.16	1.03	1.9124	0.87
747	21.7623	CIB	2.16	0.89	1.9232	0.86
1090	21.7651	CIB	1.95	0.52	1.889	0.87
926/929	21.7762	CIB	1.52	1.05	1.875	0.89
926/929	21.7799	CIB	1.66	0.87	1.847	0.86
1218	21.78	CIB	2.09	1.1	1.8428	1
1090	21.782	CIB	2.02	0.77	2.0056	0.98
926/929	21.7835	CIB	1.93	1.19	2.0528	1.01
1090	21.7862	CIB	2.33	0.95	2.0688	0.91
926/929	21.7871	CIB	1.9	1.05	2.0342	1.01
1090	21.7904	CIB	2.17	0.61	1.9747	1.03
926/929	21.7907	CIB	1.85	1.27	2.0167	1.11
926/929	21.7943	CIB	1.63	1.28	1.9557	1.15
1090	21.7946	CIB	2.54	1.35	1.9117	1.24
926/929	21.7972	CIB	1.59	1.24	1.9764	1.23
588	21.7974	CIB	1.95	1.07	2.011	1.25
1090	21.7988	CIB	2.17	1.22	1.973	1.23
926/929	21.8015	CIB	1.8	1.37	2.0024	1.24
1090	21.803	CIB	2.35	1.24	1.974	1.26
926/929	21.8052	CIB	1.74	1.29	1.8888	1.26
926/929	21.8088	CIB	1.81	1.21	1.8397	1.2
926/929	21.8124	CIB	1.74	1.18	1.7435	1.19
926/929	21.816	CIB	1.56	1.1	1.7656	1.18
926/929	21.8196	CIB	1.87	1.18	1.7839	1.18
926/929	21.8233	CIB	1.85	1.23	1.8551	1.17
926/929	21.8269	CIB	1.9	1.2	1.9306	1.19
1218	21.83	CIB	2.1	1.13	1.9153	1.18
926/929	21.8306	CIB	1.94	1.23	1.8936	1.16
926/929	21.8343	CIB	1.79	1.1	1.9358	1.14
926/929	21.838	CIB	1.74	1.16	1.8802	1.17
77	21.8397	CIB	2.11	1.05	1.8809	1.04
926/929	21.8416	CIB	1.82	1.3	1.8908	1.1
608	21.8433	CIB	1.94	0.58	1.8926	1.12
926/929	21.8453	CIB	1.84	1.4	1.8065	1.18
926/929	21.849	CIB	1.75	1.29	1.7963	1.17
926/929	21.8515	CIB	1.68	1.32	1.7812	1.3
926/929	21.8559	CIB	1.77	1.25	1.8095	1.3
926/929	21.8593	CIB	1.86	1.26	1.8363	1.29
926/929	21.8631	CIB	1.98	1.35	1.9042	1.26
926/929	21.8661	CIB	1.88	1.27	1.9336	1.29
926/929	21.8694	CIB	2.02	1.15	1.9444	1.32
926/929	21.8728	CIB	1.92	1.42	2.0417	1.34
926/929	21.8761	CIB	1.92	1.43	2.0411	1.37
1090	21.8788	CIB	2.47	1.42	2.0197	1.43
926/929	21.8794	CIB	1.88	1.42	2.0981	1.4
926/929	21.8828	CIB	1.91	1.47	2.0847	1.39
1090	21.8831	CIB	2.31	1.25	1.9673	1.36
926/929	21.8861	CIB	1.85	1.37	2.0313	1.34
926/929	21.8893	CIB	1.88	1.28	2.1349	1.23
1218	21.89	CIB	2.2	1.33	2.0376	1.2
1090	21.8915	CIB	2.43	0.93	2.1434	1.12
926/929	21.8926	CIB	1.82	1.08	2.1488	1.1
1090	21.8957	CIB	2.38	0.97	2.1048	1.08
926/929	21.8959	CIB	1.91	1.16	2.1268	1.1
926/929	21.8991	CIB	1.98	1.25	2.1363	1.13
1090	21.9007	CIB	2.54	1.06	2.0795	1.18
926/929	21.9014	CIB	1.87	1.21	2.0514	1.09
926/929	21.9043	CIB	2.1	1.24	2.0296	1.08

588	21.9055	CIB	1.77	0.68	1.9027	1.12
926/929	21.9067	CIB	1.87	1.19	1.883	1.16
926/929	21.9092	CIB	1.91	1.27	1.9258	1.25
926/929	21.9116	CIB	1.77	1.44	1.9317	1.4
1090	21.9134	CIB	2.31	1.67	2.0216	1.36
926/929	21.914	CIB	1.8	1.41	1.9869	1.36
1090	21.9176	CIB	2.32	0.99	2.0743	1.24
926/929	21.9191	CIB	1.73	1.31	1.9618	1.17
1090	21.9218	CIB	2.21	0.83	1.9808	1.13
926/929	21.922	CIB	1.75	1.3	1.9074	1.19
926/929	21.9248	CIB	1.9	1.24	2.0191	1.09
926/929	21.9277	CIB	1.95	1.27	1.9646	1.17
1090	21.93	CIB	2.29	0.79	1.9886	1.16
926/929	21.9305	CIB	1.94	1.26	2.1356	1.07
926/929	21.9333	CIB	1.87	1.24	2.1436	1.08
1090	21.9337	CIB	2.63	0.8	2.1936	1.23
926/929	21.9362	CIB	1.99	1.32	2.25	1.22
1090	21.9375	CIB	2.54	1.54	2.2984	1.15
926/929	21.939	CIB	2.22	1.19	2.3004	1.18
1218	21.94	CIB	2.11	0.92	2.3397	1.17
1090	21.9413	CIB	2.64	0.95	2.3637	1.08
926/929	21.9415	CIB	2.19	1.22	2.312	1.08
1090	21.945	CIB	2.66	1.13	2.414	1.06
926/929	21.9459	CIB	1.96	1.15	2.2475	1.12
1090	21.9488	CIB	2.62	0.84	2.3217	1.15
926/929	21.9495	CIB	1.81	1.26	2.1664	1.17
1090	21.9526	CIB	2.56	1.36	2.2723	1.19
926/929	21.9531	CIB	1.88	1.21	2.0992	1.29
1090	21.9564	CIB	2.49	1.27	2.2197	1.22
926/929	21.9567	CIB	1.75	1.35	2.0656	1.21
1090	21.9601	CIB	2.41	0.9	2.1509	1.11
926/929	21.9603	CIB	1.79	1.32	2.0182	1.12
1090	21.9631	CIB	2.31	0.72	2.0433	1.09
926/929	21.9639	CIB	1.83	1.3	2.0073	1.17
926/929	21.9675	CIB	1.88	1.23	2.1614	1.1
1090	21.9677	CIB	2.23	1.26	2.0715	1.19
1090	21.9707	CIB	2.56	1.02	2.0725	1.15
926/929	21.9712	CIB	1.86	1.13	2.1644	1.05
926/929	21.9748	CIB	1.83	1.09	2.0843	0.98
1090	21.9752	CIB	2.34	0.75	2.0643	0.97
926/929	21.9784	CIB	1.83	0.91	2.0555	0.91
1090	21.979	CIB	2.46	0.95	2.0722	0.87
926/929	21.982	CIB	1.82	0.84	1.9502	0.88
926/929	21.9856	CIB	1.92	0.88	2.0764	0.91
77	21.9863	CIB	1.73	0.83	1.9778	0.88
1090	21.9873	CIB	2.46	1.04	2.0844	1.01
926/929	21.9895	CIB	1.97	0.8	2.0693	1.03
1090	21.9903	CIB	2.35	1.5	2.1693	1.1
926/929	21.9937	CIB	1.84	0.97	2.0224	1.1
1090	21.9941	CIB	2.23	1.21	2.051	1.04
926/929	21.9971	CIB	1.73	1.05	1.8825	0.92
1090	22.0016	CIB	2.11	0.47	1.8366	1.02
926/929	22.0021	CIB	1.51	0.89	1.8026	0.87
754	22.0058	CIB	1.61	1.5	1.7697	0.86
1090	22.0063	CIB	2.06	0.43	1.6717	1
926/929	22.0063	CIB	1.56	1.01	1.8522	1.09
926/929	22.0101	CIB	1.62	1.17	1.8712	1
1090	22.0107	CIB	2.41	1.36	1.8166	1.11
926/929	22.0134	CIB	1.7	1.03	1.8616	1.09
926/929	22.0168	CIB	1.79	0.96	2.0056	1.03

926/929	22.0201	CIB	1.79	0.95	1.8823	0.94
1090	22.0225	CIB	2.34	0.86	1.8919	0.91
926/929	22.0234	CIB	1.79	0.88	2.0325	0.91
926/929	22.0268	CIB	1.75	0.91	2.0573	0.96
1090	22.0279	CIB	2.49	0.97	1.9801	0.98
588	22.0289	CIB	1.91	1.19	1.989	1
926/929	22.0301	CIB	1.95	0.95	2.1285	1.1
926/929	22.0332	CIB	1.84	0.97	2.0102	1.12
1090	22.0333	CIB	2.45	1.43	1.9711	1.1
926/929	22.036	CIB	1.9	1.07	1.976	1.14
926/929	22.0389	CIB	1.71	1.06	2.0763	1.06
926/929	22.0418	CIB	1.98	1.16	2.0443	0.92
1090	22.0441	CIB	2.34	0.58	2.0265	0.93
704	22.0443	CIB	2.29	0.75	2.0693	0.96
926/929	22.0446	CIB	1.81	1.08	2.0477	0.99
926/929	22.0469	CIB	1.93	1.22	1.9635	1.11
926/929	22.0509	CIB	1.87	1.31	1.8934	1.18
926/929	22.0532	CIB	1.92	1.19	2.0315	1.24
926/929	22.0561	CIB	1.94	1.09	2.0164	1.21
1090	22.0581	CIB	2.5	1.38	1.9984	1.06
926/929	22.059	CIB	1.85	1.09	1.9851	1.06
608	22.0595	CIB	1.78	0.52	1.9403	1.04
926/929	22.0618	CIB	1.85	1.22	1.7398	0.97
926/929	22.0647	CIB	1.72	0.98	1.7162	0.98
926/929	22.0676	CIB	1.5	1.05	1.8242	0.97
926/929	22.0704	CIB	1.73	1.12	1.8306	0.97
1090	22.0932	CIB	2.32	0.46	1.7954	0.98
926/929	22.0934	CIB	1.88	1.23	1.7685	0.94
926/929	22.0963	CIB	1.54	1.06	1.7267	0.9
926/929	22.0991	CIB	1.36	0.81	1.5787	1
926/929	22.102	CIB	1.53	0.92	1.6358	0.88
926/929	22.1055	CIB	1.58	1	1.6398	0.87
1090	22.1092	CIB	2.17	0.61	1.7012	0.92
926/929	22.1097	CIB	1.56	1.02	1.728	0.93
926/929	22.1131	CIB	1.67	1.05	1.862	0.83
926/929	22.1181	CIB	1.66	0.99	1.7192	0.91
1090	22.1217	CIB	2.25	0.47	1.7144	0.96
926/929	22.1223	CIB	1.46	1	1.8484	1.01
926/929	22.1259	CIB	1.54	1.28	1.8384	1.02
1090	22.1274	CIB	2.34	1.3	1.8324	1.03
926/929	22.1299	CIB	1.61	1.06	1.9572	1.05
1090	22.132	CIB	2.22	0.53	2.054	1.03
926/929	22.1336	CIB	2.08	1.1	2.078	1.06
926/929	22.1373	CIB	2.02	1.16	2.152	1.01
1218	22.14	CIB	2.46	1.46	2.102	1.14
1090	22.1402	CIB	1.98	0.81	2.182	1.18
926/929	22.1409	CIB	1.97	1.18	2.152	1.14
1090	22.144	CIB	2.48	1.31	2.08	1.06
926/929	22.1446	CIB	1.87	0.93	2.07	1.11
926/929	22.1482	CIB	2.1	1.07	2.092	1.09
1090	22.1485	CIB	1.93	1.04	2.042	1.09
1090	22.1515	CIB	2.08	1.12	2.094	1.15
926/929	22.1517	CIB	2.23	1.28	2.054	1.21
926/929	22.1541	CIB	2.13	1.24	2.08	1.26
926/929	22.1587	CIB	1.9	1.38	2.082	1.33
926/929	22.1622	CIB	2.06	1.3	2.046	1.36
926/929	22.1657	CIB	2.09	1.45	2.042	1.36
926/929	22.1685	CIB	2.05	1.43	2.096	1.36
926/929	22.1727	CIB	2.11	1.24	2.116	1.36
926/929	22.1762	CIB	2.17	1.36	2.128	1.34

926/929	22.1797	CIB	2.16	1.34	2.122	1.31
926/929	22.1832	CIB	2.15	1.33	2.216	1.31
926/929	22.1867	CIB	2.02	1.28	2.1946	1.28
1218	22.19	CIB	2.58	1.23	2.1806	1.26
926/929	22.1902	CIB	2.06	1.21	2.1666	1.24
926/929	22.1937	CIB	2.09	1.23	2.1706	1.26
926/929	22.1972	CIB	2.08	1.26	2.0086	1.29
926/929	22.2006	CIB	2.04	1.37	1.942	1.31
926/929	22.2041	CIB	1.77	1.38	1.968	1.29
926/929	22.2076	CIB	1.73	1.33	1.912	1.29
1090	22.2077	CIB	2.22	1.1	1.866	1.31
926/929	22.211	CIB	1.8	1.27	2.018	1.3
926/929	22.2145	CIB	1.81	1.48	2.06	1.31
1090	22.2152	CIB	2.53	1.34	2.006	1.37
926/929	22.218	CIB	1.94	1.37	2.152	1.5
926/929	22.2207	CIB	1.95	1.38	2.212	1.48
1090	22.2227	CIB	2.53	1.95	2.23	1.47
926/929	22.2246	CIB	2.11	1.36	2.256	1.42
1090	22.2264	CIB	2.62	1.28	2.36	1.4
926/929	22.2278	CIB	2.07	1.15	2.296	1.25
1218	22.23	CIB	2.47	1.24	2.31	1.23
926/929	22.2314	CIB	2.21	1.21	2.2	1.21
926/929	22.2342	CIB	2.18	1.26	2.204	1.24
926/929	22.2374	CIB	2.07	1.2	2.252	1.32
926/929	22.2409	CIB	2.09	1.28	2.338	1.43
1090	22.2422	CIB	2.71	1.63	2.32	1.45
1090	22.2444	CIB	2.64	1.78	2.446	1.51
926/929	22.2477	CIB	2.09	1.36	2.414	1.54
1090	22.2489	CIB	2.7	1.51	2.332	1.5
926/929	22.2511	CIB	1.93	1.44	2.206	1.42
1090	22.2527	CIB	2.3	1.41	2.33	1.48
926/929	22.2546	CIB	2.01	1.39	2.2196	1.46
1090	22.2572	CIB	2.71	1.67	2.3456	1.43
926/929	22.258	CIB	2.15	1.41	2.2842	1.4
1090	22.2594	CIB	2.56	1.29	2.2702	1.25
926/929	22.2614	CIB	1.99	1.24	2.2882	1.19
704	22.263	CIB	1.94	0.66	2.3077	1.18
1090	22.2639	CIB	2.8	1.36	2.3177	1.15
926/929	22.2649	CIB	2.25	1.35	2.3653	1.15
1090	22.2676	CIB	2.61	1.14	2.4893	1.32
926/929	22.2683	CIB	2.23	1.25	2.3369	1.28
1090	22.2714	CIB	2.56	1.51	2.3144	1.24
926/929	22.2717	CIB	2.04	1.16	2.2604	1.29
1090	22.2751	CIB	2.34	1.4	2.2366	1.31
926/929	22.2751	CIB	2.13	1.14	2.2146	1.29
926/929	22.2784	CIB	2	1.24	2.3029	1.32
1090	22.2789	CIB	2.67	1.59	2.2937	1.36
1218	22.28	CIB	2.37	1.24	2.3357	1.35
926/929	22.2818	CIB	2.09	1.33	2.2767	1.35
1090	22.2819	CIB	2.55	1.35	2.2207	1.33
926/929	22.2851	CIB	1.71	1.26	2.1239	1.36
1090	22.2864	CIB	2.39	1.48	2.1765	1.35
926/929	22.2883	CIB	1.89	1.37	2.0563	1.37
1090	22.2901	CIB	2.35	1.29	2.0549	1.32
926/929	22.2914	CIB	1.95	1.46	2.1269	1.33
608	22.2935	CIB	1.7	0.99	2.145	1.34
1090	22.2939	CIB	2.75	1.52	2.0712	1.38
926/929	22.2945	CIB	1.98	1.45	2.2114	1.29
926/929	22.2975	CIB	1.98	1.45	2.2762	1.35
1090	22.2976	CIB	2.65	1.04	2.2702	1.3

926/929	22.3006	CIB	2.02	1.27	2.2922	1.25
1090	22.3014	CIB	2.72	1.3	2.34	1.17
926/929	22.3037	CIB	2.09	1.21	2.2309	1.19
1090	22.3051	CIB	2.22	1.04	2.3102	1.08
926/929	22.3068	CIB	2.1	1.11	2.1902	1.04
1090	22.3089	CIB	2.42	0.75	2.3109	1.07
926/929	22.3099	CIB	2.12	1.11	2.3144	1.12
1090	22.3126	CIB	2.69	1.35	2.323	1.14
926/929	22.3129	CIB	2.24	1.29	2.347	1.31
926/929	22.3159	CIB	2.15	1.23	2.3255	1.38
1090	22.3164	CIB	2.54	1.57	2.2675	1.38
926/929	22.3183	CIB	2.01	1.45	2.1825	1.39
1090	22.3194	CIB	2.4	1.36	2.2349	1.37
926/929	22.3219	CIB	1.81	1.35	2.1349	1.24
1090	22.3239	CIB	2.41	1.11	2.0986	1.23
1090	22.3276	CIB	2.04	0.92	1.976	1.23
926/929	22.3279	CIB	1.83	1.42	2.1276	1.17
926/929	22.3309	CIB	1.79	1.36	2.0422	1.22
1090	22.3338	CIB	2.57	1.06	2.0462	1.2
926/929	22.3339	CIB	1.98	1.34	2.066	1.13
747	22.3341	CIB	2.06	0.81	2.1056	1.1
926/929	22.3369	CIB	1.93	1.08	2.0996	1.22
926/929	22.3399	CIB	1.99	1.23	2.171	1.2
1090	22.34	CIB	2.54	1.63	2.1694	1.25
1218	22.34	CIB	2.34	1.25	2.3395	1.27
926/929	22.3429	CIB	2.05	1.05	2.3751	1.23
1090	22.3462	CIB	2.78	1.2	2.2952	1.11
926/929	22.3464	CIB	2.16	1.01	2.3032	1.09
926/929	22.3504	CIB	2.14	1.03	2.4087	1.17
77	22.3518	CIB	2.38	1.13	2.2392	1.16
1090	22.3524	CIB	2.58	1.45	2.1676	1.18
926/929	22.3544	CIB	1.93	1.19	2.2835	1.17
926/929	22.3584	CIB	1.8	1.09	2.093	1.21
1090	22.3586	CIB	2.72	0.99	2.083	1.15
926/929	22.3616	CIB	1.43	1.35	2.0382	1.16
1090	22.3648	CIB	2.53	1.11	2.0072	1.21
926/929	22.3664	CIB	1.71	1.28	1.9692	1.25
926/929	22.3696	CIB	1.65	1.3	2.0091	1.19
1090	22.3709	CIB	2.53	1.21	1.9151	1.23
926/929	22.3744	CIB	1.63	1.06	1.8741	1.18
1090	22.3759	CIB	2.06	1.3	2.0441	1.2
926/929	22.378	CIB	1.5	1.04	1.8574	1.14
1090	22.3799	CIB	2.5	1.38	1.952	1.19
926/929	22.3824	CIB	1.6	0.9	1.8632	1.13
1090	22.3848	CIB	2.1	1.31	1.9985	1.2
926/929	22.3864	CIB	1.62	0.99	1.8731	1.21
1090	22.3888	CIB	2.18	1.42	1.9303	1.23
1218	22.39	CIB	1.43	1.9228	1.19	NA
926/929	22.3904	CIB	1.83	1.02	1.9002	1.18
1090	22.392	CIB	2.07	1.07	1.9352	1.12
926/929	22.3944	CIB	1.53	0.98	1.9293	1.06
1090	22.396	CIB	2.32	1.11	1.9114	1.09
926/929	22.3984	CIB	1.91	1.14	2.0174	1.09
926/929	22.4024	CIB	1.74	1.16	2.0332	1.14
1090	22.4041	CIB	2.6	1.07	2.0712	1.21
926/929	22.4064	CIB	1.6	1.22	2.0314	1.23
1090	22.4081	CIB	2.51	1.45	2.1123	1.22
926/929	22.41	CIB	1.71	1.25	1.9739	1.28
1090	22.4122	CIB	2.14	1.13	2.0289	1.28
926/929	22.4144	CIB	1.91	1.37	1.894	1.23

1090	22.417	CIB	1.88	1.18	1.9037	1.26
926/929	22.4183	CIB	1.84	1.21	1.9257	1.29
926/929	22.4183	CIB	1.76	1.43	1.8983	1.26
1090	22.4198	CIB	2.25	1.25	2.0243	1.26
926/929	22.4221	CIB	1.77	1.22	2.0429	1.25
1090	22.4255	CIB	2.51	1.18	2.1658	1.23
926/929	22.4258	CIB	1.93	1.15	2.1264	1.18
1090	22.4283	CIB	2.37	1.34	2.0776	1.14
926/929	22.4296	CIB	2.05	1.01	2.0396	1.13
926/929	22.4296	CIB	1.53	1.04	2.062	1.04
1218	22.43	CIB	2.32	1.13	2.062	1.03
704	22.431	CIB	2.04	0.67	2.0632	1.08
1090	22.4311	CIB	2.37	1.28	2.2419	1.13
926/929	22.4333	CIB	2.06	1.26	2.3139	1.15
1090	22.4339	CIB	2.42	1.3	2.3107	1.28
1090	22.4367	CIB	2.68	1.26	2.3487	1.31
926/929	22.4371	CIB	2.02	1.31	2.3294	1.34
1090	22.4395	CIB	2.56	1.41	2.2507	1.38
926/929	22.441	CIB	1.96	1.42	2.2527	1.36
926/929	22.4448	CIB	2.03	1.49	2.3879	1.38
1090	22.4452	CIB	2.69	1.16	2.2514	1.38
1090	22.448	CIB	2.7	1.42	2.3087	1.33
926/929	22.4486	CIB	1.88	1.41	2.2874	1.3
1090	22.4508	CIB	2.25	1.18	2.2554	1.37
926/929	22.4524	CIB	1.92	1.33	2.1209	1.35
1090	22.4536	CIB	2.53	1.49	2.2334	1.35
926/929	22.4562	CIB	2.03	1.34	2.3014	1.38
1090	22.4565	CIB	2.44	1.42	2.3211	1.36
1090	22.4593	CIB	2.59	1.32	2.3191	1.35
926/929	22.4596	CIB	2.02	1.22	2.3151	1.33
1090	22.4621	CIB	2.52	1.46	2.3851	1.29
926/929	22.4638	CIB	2.01	1.25	2.2916	1.24
1090	22.4649	CIB	2.79	1.18	2.35	1.31
926/929	22.4676	CIB	2.12	1.09	2.304	1.31
1090	22.4677	CIB	2.31	1.55	2.4645	1.33
1218	22.47	CIB	2.29	1.49	2.3623	1.32
1090	22.4706	CIB	2.81	1.36	2.4238	1.3
926/929	22.4714	CIB	2.28	1.13	2.3789	1.21
1090	22.4734	CIB	2.43	0.98	2.4329	1.16
926/929	22.4742	CIB	2.09	1.09	2.223	1.13
1090	22.4762	CIB	2.56	1.24	2.1371	1.17
926/929	22.477	CIB	1.76	1.22	2.1871	1.26
926/929	22.4798	CIB	1.85	1.3	2.2719	1.3
1218	22.48	CIB	2.68	1.44	2.1532	1.28
1090	22.4818	CIB	2.51	1.3	2.2292	1.3
926/929	22.4826	CIB	1.97	1.15	2.2352	1.29
1090	22.4846	CIB	2.14	1.3	2.1012	1.22
926/929	22.4854	CIB	1.88	1.28	1.9407	1.23
1090	22.4875	CIB	2.01	1.07	1.9234	1.24
926/929	22.4882	CIB	1.71	1.34	1.8212	1.23
1090	22.4903	CIB	1.88	1.23	1.7893	1.16
926/929	22.4916	CIB	1.63	1.26	1.6974	1.15
1090	22.4931	CIB	1.72	0.88	1.6389	1.13
926/929	22.4938	CIB	1.55	1.03	1.6889	1.13
926/929	22.4966	CIB	1.41	1.24	1.7387	1.11
1090	22.497	CIB	2.13	1.24	1.9087	1.18
926/929	22.5002	CIB	1.88	1.14	1.9564	1.2
1090	22.5009	CIB	2.57	1.25	2.1334	1.16
926/929	22.5032	CIB	1.79	1.13	2.0807	1.17
1090	22.5048	CIB	2.3	1.04	2.1831	1.21

926/929	22.5078	CIB	1.87	1.26	2.0491	1.21
1090	22.5087	CIB	2.39	1.35	2.0288	1.19
1218	22.51	CIB	1.9	1.26	1.9828	1.25
926/929	22.5108	CIB	1.69	1.06	1.9375	1.23
1090	22.5125	CIB	2.07	1.32	1.9115	1.17
926/929	22.5146	CIB	1.64	1.18	1.8891	1.18
1090	22.5164	CIB	2.26	1.04	2.0135	1.21
926/929	22.5177	CIB	1.79	1.32	2.0495	1.26
1218	22.52	CIB	2.31	1.21	2.0493	1.31
1090	22.5203	CIB	2.25	1.53	2.1033	1.43
926/929	22.5234	CIB	1.64	1.46	2.1498	1.33
1090	22.5242	CIB	2.53	1.64	2.1378	1.41
747	22.5277	CIB	2.02	0.79	2.012	1.4
1090	22.5281	CIB	2.25	1.65	2.0922	1.34
926/929	22.5284	CIB	1.62	1.47	1.9291	1.27
1090	22.532	CIB	2.04	1.14	2.0711	1.4
926/929	22.5334	CIB	1.71	1.29	2.1671	1.28
1090	22.5348	CIB	2.73	1.43	2.251	1.26
1090	22.5377	CIB	2.73	1.05	2.403	1.27
926/929	22.5384	CIB	2.04	1.4	2.6362	1.29
1090	22.5405	CIB	2.8	1.19	2.552	1.28
1090	22.5434	CIB	2.88	1.38	2.562	1.27
926/929	22.5434	CIB	2.31	1.39	2.5928	1.27
1090	22.5462	CIB	2.78	0.99	2.4868	1.28
926/929	22.5469	CIB	2.19	1.38	2.4908	1.21
1090	22.549	CIB	2.27	1.26	2.4238	1.21
1090	22.5519	CIB	2.9	1.05	2.4678	1.26
926/929	22.5522	CIB	1.97	1.4	2.4649	1.26
1090	22.5547	CIB	3	1.22	2.5729	1.22
926/929	22.5559	CIB	2.18	1.37	2.4491	1.26
1090	22.5572	CIB	2.81	1.05	2.6101	1.21
926/929	22.5596	CIB	2.28	1.29	2.5101	1.28
1090	22.5597	CIB	2.78	1.13	2.6202	1.3
1218	22.56	CIB	2.5	1.57	2.5102	1.33
1090	22.5622	CIB	2.73	1.44	2.3959	1.28
926/929	22.5626	CIB	2.26	1.23	2.3759	1.35
77	22.5628	CIB	1.71	1.04	2.2619	1.18
1090	22.5647	CIB	2.68	1.46	2.1608	1.19
747	22.5666	CIB	1.93	0.73	2.2309	1.22
926/929	22.5671	CIB	2.22	1.48	2.4329	1.3
1090	22.5672	CIB	2.61	1.38	2.3229	1.34
1090	22.5698	CIB	2.72	1.47	2.354	1.47
1218	22.57	CIB	2.13	1.65	2.4452	1.47
926/929	22.5708	CIB	2.09	1.38	2.3072	1.5
1090	22.5723	CIB	2.68	1.46	2.3372	1.49
926/929	22.5746	CIB	1.92	1.52	2.4172	1.45
1090	22.5748	CIB	2.87	1.46	2.4032	1.45
1090	22.5773	CIB	2.53	1.41	2.2658	1.45
926/929	22.5774	CIB	2.02	1.38	2.4138	1.41
926/929	22.5794	CIB	1.99	1.49	2.2468	1.38
1090	22.5798	CIB	2.66	1.28	2.2568	1.34
926/929	22.5814	CIB	2.03	1.33	2.2627	1.34
1090	22.5823	CIB	2.58	1.21	2.3721	1.27
926/929	22.5834	CIB	2.05	1.38	2.2576	1.27
1090	22.5848	CIB	2.54	1.14	2.2946	1.17
926/929	22.5854	CIB	2.09	1.28	2.2926	1.13
747	22.586	CIB	2.22	0.83	2.2958	1.07
1090	22.5873	CIB	2.57	1.02	2.2978	1.06
926/929	22.5874	CIB	2.06	1.1	2.2648	1
1090	22.5893	CIB	2.55	1.07	2.2172	1.06

926/929	22.5894	CIB	1.92	1.01	2.1712	1.06
926/929	22.5908	CIB	1.98	1.1	2.1713	1.06
1090	22.5918	CIB	2.34	1.01	2.1673	1.08
926/929	22.593	CIB	2.06	1.09	2.3307	1.12
1090	22.5944	CIB	2.53	1.18	2.3231	1.09
1090	22.5969	CIB	2.74	1.22	2.3851	1.15
926/929	22.5974	CIB	1.94	0.96	2.3228	1.21
1090	22.5994	CIB	2.65	1.31	2.2508	1.23
588	22.6	CIB	1.75	1.36	2.0905	1.25
1218	22.6	CIB	2.17	1.31	2.2197	1.32
926/929	22.6014	CIB	1.94	1.32	2.2417	1.34
1090	22.6019	CIB	2.59	1.32	2.2482	1.32
1090	22.6049	CIB	2.76	1.4	2.2602	1.32
926/929	22.6054	CIB	1.78	1.25	2.3285	1.32
1090	22.6074	CIB	2.23	1.29	2.1503	1.31
1090	22.61	CIB	2.28	1.35	1.9643	1.17
926/929	22.6106	CIB	1.7	1.27	2.0578	1.15
608	22.6109	CIB	1.83	0.71	1.9673	1.1
1090	22.6126	CIB	2.25	1.14	1.9833	1.05
926/929	22.6134	CIB	1.78	1.04	2.1075	1
1090	22.6152	CIB	2.36	1.09	2.1171	1.11
1090	22.6173	CIB	2.32	1	2.1093	1.16
926/929	22.6178	CIB	1.88	1.29	2.1417	1.19
1218	22.62	CIB	2.21	1.39	2.1397	1.2
926/929	22.6212	CIB	1.94	1.19	2.1297	1.24
1090	22.623	CIB	2.35	1.12	2.1438	1.22
747	22.6238	CIB	2.27	1.19	2.2316	1.2
926/929	22.625	CIB	1.95	1.22	2.3337	1.23
1090	22.6256	CIB	2.65	1.28	2.2534	1.22
1090	22.6277	CIB	2.45	1.36	2.3054	1.27
926/929	22.6288	CIB	1.95	1.07	2.3017	1.36
1090	22.6303	CIB	2.53	1.4	2.1357	1.32
754	22.6306	CIB	1.93	1.68	2.1457	1.29
926/929	22.6325	CIB	1.82	1.07	2.2581	1.28
1090	22.6335	CIB	2.5	1.25	2.1244	1.22
1090	22.6361	CIB	2.51	1.02	2.1804	1.07
926/929	22.6364	CIB	1.86	1.07	2.1529	1.11
1090	22.6387	CIB	2.21	0.92	2.1969	1.1
926/929	22.6404	CIB	1.68	1.28	2.1409	1.14
1090	22.6413	CIB	2.72	1.22	2.1163	1.17
1090	22.6434	CIB	2.23	1.19	2.2063	1.22
926/929	22.6452	CIB	1.74	1.24	2.3097	1.27
1090	22.6465	CIB	2.66	1.17	2.1076	1.28
563	22.6467	CIB	2.2	1.51	2.0896	1.3
926/929	22.6484	CIB	1.71	1.3	2.0743	1.3
1090	22.6491	CIB	2.14	1.27	1.9903	1.31
926/929	22.6524	CIB	1.66	1.27	2.0043	1.25
1090	22.6526	CIB	2.24	1.21	2.0351	1.23
1090	22.6561	CIB	2.27	1.2	2.0831	1.22
926/929	22.6564	CIB	1.86	1.22	2.1884	1.21
1090	22.6596	CIB	2.38	1.18	2.1115	1.2
1218	22.66	CIB	1.25	2.094	1.24	NA
926/929	22.6604	CIB	1.93	1.13	2.1083	1.22
1090	22.6631	CIB	2.2	1.4	2.1433	1.21
926/929	22.6644	CIB	1.92	1.12	2.1108	1.18
1090	22.6666	CIB	2.52	1.17	2.1863	1.22
926/929	22.6684	CIB	1.98	1.11	2.2083	1.18
1218	22.67	CIB	2.31	1.31	2.1942	1.18
1090	22.6701	CIB	2.31	1.21	2.1882	1.18
926/929	22.6725	CIB	1.85	1.1	2.246	1.24

1090	22.6737	CIB	2.49	1.19	2.278	1.18
747	22.675	CIB	2.27	1.38	2.1866	1.16
1090	22.6765	CIB	2.47	1.01	2.1536	1.17
926/929	22.6766	CIB	1.85	1.14	2.1976	1.12
1090	22.6807	CIB	2.71	0.92	2.085	1.18
926/929	22.6807	CIB	1.69	1.16	2.2556	1.17
1090	22.6835	CIB	2.56	1.61	2.2545	1.18
926/929	22.6848	CIB	1.62	1.09	2.2647	1.17
1090	22.6877	CIB	2.7	1.14	2.1967	1.22
926/929	22.6889	CIB	1.74	1.09	2.0297	1.15
1090	22.6905	CIB	2.37	1.16	2.0863	1.09
926/929	22.693	CIB	1.72	1.26	1.8955	1.09
553	22.6944	CIB	1.9	0.77	1.9722	1.1
926/929	22.6971	CIB	1.75	1.15	1.9382	1.11
1090	22.6982	CIB	2.12	1.14	1.9642	1.03
1090	22.7009	CIB	2.2	1.24	2.0462	1.13
926/929	22.7012	CIB	1.85	0.87	2.0782	1.06
1090	22.7035	CIB	2.31	1.25	2.1302	1.01
926/929	22.7053	CIB	1.91	0.8	2.2002	0.99
1090	22.7062	CIB	2.38	0.92	2.2591	1.01
1090	22.7083	CIB	2.55	1.11	2.2291	0.98
926/929	22.7094	CIB	2.15	0.95	2.3298	1.04
1218	22.71	CIB	2.16	1.14	2.2945	1.02
1090	22.7115	CIB	2.41	1.06	2.2425	0.94
926/929	22.7134	CIB	2.2	0.83	2.2135	1.01
1090	22.7141	CIB	2.29	0.72	2.2855	0.94
926/929	22.7164	CIB	2	1.31	2.2875	0.94
1090	22.7168	CIB	2.52	0.8	2.3408	0.94
1090	22.7194	CIB	2.42	1.06	2.264	1.05
1090	22.7221	CIB	2.47	0.8	2.3312	1.04
926/929	22.7223	CIB	1.91	1.27	2.2892	1.09
1090	22.7247	CIB	2.34	1.26	2.1754	1.13
1090	22.7274	CIB	2.31	1.08	2.1494	1.19
926/929	22.7282	CIB	1.85	1.23	2.2742	1.18
1090	22.73	CIB	2.34	1.12	2.3322	1.2
1218	22.73	CIB	2.53	1.21	2.3422	1.16
1218	22.73	CIB	2.63	1.35	2.3756	1.12
1090	22.7327	CIB	2.36	0.87	2.3316	1.11
926/929	22.7342	CIB	2.02	1.03	2.3396	1.13
1090	22.7348	CIB	2.12	1.07	2.248	1.12
1090	22.7386	CIB	2.57	1.33	2.28	1.21
926/929	22.7401	CIB	2.17	1.27	2.2724	1.15
1090	22.7418	CIB	2.52	1.32	2.3644	1.06
608	22.7421	CIB	1.98	0.74	2.3114	1
1090	22.7449	CIB	2.58	0.65	2.353	0.99
926/929	22.746	CIB	2.31	1.04	2.361	0.91
747	22.7476	CIB	2.38	1.19	2.4156	1.03
1090	22.7481	CIB	2.56	0.93	2.4056	1.09
1218	22.75	CIB	2.25	1.34	2.4366	1.1
1090	22.7513	CIB	2.53	0.96	2.3508	1.07
1090	22.7545	CIB	2.46	1.09	2.4048	1.11
926/929	22.7545	CIB	1.95	1.02	2.3396	1.08
1090	22.7576	CIB	2.83	1.14	2.3576	1.09
926/929	22.7596	CIB	1.93	1.19	2.4196	1.1
1090	22.7608	CIB	2.62	1.02	2.5474	1.13
1090	22.764	CIB	2.77	1.14	2.3488	1.11
1090	22.7665	CIB	2.59	1.17	2.4934	1.11
926/929	22.7669	CIB	1.84	1.04	2.4476	1.14
1090	22.7697	CIB	2.65	1.2	2.4176	1.12
1218	22.77	CIB	2.39	1.13	2.2928	1.08

1090	22.7731	CIB	2.62	1.06	2.3894	1.11
926/929	22.7742	CIB	1.97	1	2.2994	1.07
1090	22.7753	CIB	2.32	1.16	2.2412	1.03
1090	22.7771	CIB	2.2	1.01	2.1852	1.03
1090	22.7793	CIB	2.1	0.93	2.1822	1.05
1090	22.782	CIB	2.34	1.07	2.1522	0.98
926/929	22.7822	CIB	1.95	1.07	2.1682	0.93
1090	22.7842	CIB	2.17	0.83	2.1332	0.94
1090	22.7865	CIB	2.28	0.73	2.1192	0.89
926/929	22.7881	CIB	1.92	1.01	2.171	0.89
1090	22.7887	CIB	2.27	0.79	2.209	0.94
1218	22.79	CIB	2.21	1.11	2.132	0.98
1090	22.7905	CIB	2.36	1.04	2.179	0.89
926/929	22.7926	CIB	1.9	0.95	2.243	1
1090	22.7927	CIB	2.16	0.57	2.251	1
1090	22.7954	CIB	2.59	1.32	2.1206	1.01
1090	22.7976	CIB	2.25	1.11	2.2196	1.05
926/929	22.7995	CIB	1.71	1.09	2.2596	1.18
1090	22.7998	CIB	2.39	1.18	2.2176	1.19
1090	22.802	CIB	2.36	1.22	2.1406	1.19
1090	22.8043	CIB	2.38	1.33	2.297	1.18
926/929	22.8058	CIB	1.86	1.11	2.323	1.15
1090	22.8065	CIB	2.49	1.04	2.204	1.13
1090	22.8087	CIB	2.52	1.04	2.18	0.98
926/929	22.8098	CIB	1.76	1.12	2.161	0.93
1090	22.8132	CIB	2.26	0.58	2.095	0.87
553	22.8136	CIB	1.77	0.88	2.018	0.92
1090	22.8154	CIB	2.16	0.75	2.163	0.98
926/929	22.8167	CIB	2.13	1.29	2.183	1.11
1218	22.82	CIB	2.49	1.39	2.272	1.18
1090	22.8218	CIB	2.36	1.26	2.309	1.29
926/929	22.8224	CIB	2.21	1.2	2.448	1.18
926/929	22.8281	CIB	2.35	1.29	2.444	1.21
1090	22.8282	CIB	2.83	0.77	2.411	1.23
1218	22.83	CIB	2.47	1.53	2.458	1.23
926/929	22.8344	CIB	2.19	1.38	2.342	1.23
1090	22.8346	CIB	2.45	1.15	2.306	1.34
926/929	22.8396	CIB	1.76	1.32	2.183	1.31
1090	22.841	CIB	2.65	1.29	2.204	1.26
926/929	22.8453	CIB	1.85	1.41	2.097	1.27
1090	22.8475	CIB	2.3	1.13	2.258	1.27
926/929	22.851	CIB	1.91	1.18	2.083	1.21
1090	22.8539	CIB	2.57	1.35	2.14	1.25
926/929	22.8568	CIB	1.77	0.98	2.2025	1.26
1218	22.86	CIB	1.62	2.1525	1.22	NA
1090	22.8603	CIB	2.55	1.2	2.0725	1.15
926/929	22.8625	CIB	1.71	0.94	2.2738	1.19
1090	22.8667	CIB	2.25	1.01	2.323	1.08
1090	22.8684	CIB	2.58	1.18	2.355	1.05
1090	22.8705	CIB	2.52	1.06	2.526	1.08
1090	22.8731	CIB	2.71	1.05	2.574	1.09
1090	22.8752	CIB	2.57	1.11	2.54	1.02
1090	22.8769	CIB	2.49	1.04	2.506	0.97
1090	22.879	CIB	2.41	0.85	2.438	0.93
1090	22.8815	CIB	2.35	0.79	2.384	0.83
1090	22.8837	CIB	2.37	0.84	2.1552	0.85
1090	22.8858	CIB	2.3	0.64	2.1412	0.91
926/929	22.8863	CIB	1.35	1.13	2.1112	0.97
1090	22.8879	CIB	2.34	1.13	1.9421	1.05
1090	22.8896	CIB	2.2	1.13	1.9401	1.19

926/929	22.8904	CIB	1.52	1.19	2.1529	1.18
1090	22.8917	CIB	2.29	1.37	2.0101	1.21
1090	22.8943	CIB	2.41	1.1	1.9701	1.24
926/929	22.8945	CIB	1.63	1.24	2.0134	1.27
1090	22.8968	CIB	2	1.3	1.9334	1.19
926/929	22.8986	CIB	1.74	1.33	1.8112	1.24
1090	22.9006	CIB	1.89	0.97	1.9	1.26
1090	22.9027	CIB	2.07	1.35	1.988	1.27
926/929	22.9027	CIB	1.8	1.34	1.8641	1.23
926/929	22.9035	CIB	1.82	1.14	1.9791	1.3
1090	22.9044	CIB	2.36	1.53	2.1133	1.28
926/929	22.9076	CIB	1.85	1.15	2.1693	1.3
1090	22.9082	CIB	2.47	1.25	2.2892	1.29
563	22.909	CIB	2.35	1.41	2.1874	1.19
1090	22.9116	CIB	2.42	1.12	2.3683	1.25
926/929	22.9117	CIB	1.85	1.01	2.4903	1.21
1090	22.9138	CIB	2.75	1.47	2.4219	1.17
1090	22.918	CIB	3.08	1.03	2.4239	1.25
926/929	22.9198	CIB	2.01	1.22	2.4851	1.3
1218	22.92	CIB	2.43	1.51	2.4731	1.31
926/929	22.9237	CIB	2.16	1.25	2.2813	1.38
1090	22.9244	CIB	2.69	1.54	2.4197	1.47
1090	22.9276	CIB	2.7	1.66	2.3918	1.39
926/929	22.9276	CIB	2.12	1.39	2.4237	1.38
1090	22.9308	CIB	2.45	1.06	2.2638	1.37
926/929	22.9315	CIB	2	1.33	2.4237	1.33
608	22.9329	CIB	2.05	1.42	2.2976	1.28
1090	22.934	CIB	2.92	1.17	2.3136	1.3
926/929	22.9354	CIB	2.07	1.41	2.3207	1.33
1090	22.9372	CIB	2.53	1.19	2.4147	1.33
926/929	22.9393	CIB	2.03	1.44	2.3647	1.39
1218	22.94	CIB	2.52	1.41	2.5287	1.4
1090	22.9403	CIB	2.67	1.48	2.6127	1.48
1090	22.9435	CIB	2.89	1.5	2.6366	1.5
1090	22.9467	CIB	2.95	1.58	2.7246	1.52
926/929	22.9471	CIB	2.15	1.51	2.6139	1.5
1090	22.9499	CIB	2.96	1.54	2.5939	1.49
926/929	22.9509	CIB	2.12	1.35	2.4513	1.47
1090	22.9531	CIB	2.79	1.48	2.6007	1.46
926/929	22.9548	CIB	2.24	1.45	2.3747	1.31
1090	22.9563	CIB	2.9	1.5	2.3512	1.32
553	22.9567	CIB	1.83	0.76	2.3652	1.35
926/929	22.9587	CIB	2	1.44	2.3244	1.35
1090	22.9595	CIB	2.86	1.6	2.3064	1.3
926/929	22.9626	CIB	2.03	1.44	2.4524	1.41
1090	22.9627	CIB	2.81	1.24	2.4475	1.42
1090	22.9659	CIB	2.56	1.33	2.2695	1.4
926/929	22.9665	CIB	1.97	1.49	2.3849	1.41
558	22.9687	CIB	1.97	1.5	2.3489	1.45
1090	22.9691	CIB	2.61	1.49	2.224	1.48
1218	22.97	CIB	2.63	1.45	2.3512	1.48
926/929	22.9704	CIB	1.94	1.47	2.3408	1.46
1090	22.9723	CIB	2.61	1.5	2.3248	1.44
926/929	22.973	CIB	1.92	1.39	2.1732	1.43
1090	22.9755	CIB	2.53	1.41	2.306	1.44
926/929	22.9778	CIB	1.87	1.39	2.1977	1.4
1090	22.9787	CIB	2.6	1.53	2.3801	1.39
926/929	22.9815	CIB	2.07	1.3	2.2808	1.35
1090	22.985	CIB	2.83	1.3	2.3084	1.37
926/929	22.9852	CIB	2.03	1.21	2.3024	1.37
588	22.9854	CIB	2.01	1.52	2.3328	1.38

1090	22.9882	CIB	2.57	1.53	2.3208	1.4
926/929	22.989	CIB	2.22	1.33	2.4621	1.45
1218	22.99	CIB	2.77	1.4	2.5305	1.39
1090	22.9914	CIB	2.74	1.47	2.5447	1.38
926/929	22.9925	CIB	2.35	1.24	2.6447	1.39
926/929	22.993	CIB	2.64	1.48	2.6247	1.36
1090	22.9946	CIB	2.72	1.38	2.5847	1.38
1090	22.9978	CIB	2.67	1.25	2.6402	1.4
926/929	22.9984	CIB	2.54	1.54	2.6026	1.41
1090	23.001	CIB	2.63	1.34	2.5746	1.36
926/929	23.0039	CIB	2.45	1.54	2.5526	1.4
1090	23.0042	CIB	2.58	1.13	2.5422	1.42
1090	23.0074	CIB	2.56	1.47	2.5262	1.42
926/929	23.0093	CIB	2.49	1.61	2.5336	1.4
1218	23.01	CIB	2.55	1.36	2.4876	1.37
1090	23.0106	CIB	2.49	1.43	2.4552	1.35
1090	23.0138	CIB	2.35	1	2.5116	1.29
926/929	23.0147	CIB	2.4	1.36	2.485	1.33
1218	23.02	CIB	2.77	2.481	1.2	NA
926/929	23.0202	CIB	2.42	1.53	2.5664	1.32
1090	23.0234	CIB	2.47	0.91	2.6348	1.32
926/929	23.0256	CIB	2.78	1.47	2.6688	1.32
1090	23.0265	CIB	2.74	1.39	2.7446	1.27
1090	23.0297	CIB	2.94	1.33	2.6806	1.44
926/929	23.031	CIB	2.8	1.24	2.7052	1.41
588	23.0312	CIB	2.15	1.75	2.6798	1.44
1090	23.0329	CIB	2.9	1.33	2.7398	1.44
926/929	23.0365	CIB	2.61	1.54	2.617	1.5
1090	23.0394	CIB	3.24	1.35	2.675	1.31
926/929	23.0419	CIB	2.18	1.54	2.5192	1.3
1090	23.0461	CIB	2.44	0.78	2.6026	1.29
926/929	23.0474	CIB	2.12	1.3	2.4746	1.34
1090	23.0495	CIB	3.03	1.5	2.508	1.31
1218	23.05	CIB	2.6	1.6	2.59	1.41
1090	23.0528	CIB	2.85	1.26	2.4498	1.46
926/929	23.0528	CIB	2.35	1.37	2.6878	1.4
1090	23.0561	CIB	2.61	1.25	2.4104	1.41
754	23.0566	CIB	1.84	1.79	2.4426	1.34
926/929	23.0582	CIB	2.4	1.35	2.4366	1.38
1090	23.0595	CIB	2.51	1.03	2.4806	1.41
1218	23.06	CIB	2.82	1.47	2.6114	1.28
1090	23.0628	CIB	2.83	1.4	2.6708	1.3
926/929	23.0637	CIB	2.49	1.13	2.6568	1.29
1090	23.0662	CIB	2.7	1.45	2.5964	1.22
1090	23.0695	CIB	2.44	0.99	2.6444	1.21
926/929	23.07	CIB	2.52	1.15	2.4936	1.18
1090	23.0729	CIB	3.07	1.34	2.3076	1.11
608	23.076	CIB	1.74	0.96	2.2636	1.16
608	23.076	CIB	1.77	1.12	2.322	1.29
704	23.076	CIB	2.22	1.22	2.213	1.3
1090	23.0762	CIB	2.81	1.79	2.411	1.35
926/929	23.0764	CIB	2.52	1.39	2.625	1.39
1090	23.0796	CIB	2.73	1.25	2.63	1.46
1218	23.08	CIB	2.84	1.29	2.448	1.49
926/929	23.0828	CIB	2.25	1.57	2.539	1.44
588	23.0834	CIB	1.9	1.94	2.4222	1.42
1090	23.0863	CIB	2.98	1.13	2.5002	1.41
926/929	23.0892	CIB	2.15	1.18	2.5652	1.37
1090	23.0896	CIB	3.23	1.22	2.7972	1.24
1218	23.09	CIB	2.57	1.39	2.6348	1.25

1090	23.093	CIB	3.06	1.29	2.8576	1.24
926/929	23.0957	CIB	2.17	1.18	2.7736	1.23
1090	23.0963	CIB	3.26	1.13	2.697	1.23
1090	23.0997	CIB	2.81	1.14	2.727	1.19
926/929	23.102	CIB	2.19	1.41	2.6514	1.05
1090	23.103	CIB	3.21	1.07	2.5694	1.04
574	23.1041	CIB	1.79	0.49	2.4374	1.05
1090	23.1064	CIB	2.85	1.08	2.57	1
926/929	23.108	CIB	2.15	1.2	2.452	1.09
1090	23.1097	CIB	2.85	1.17	2.666	1.22
1218	23.11	CIB	2.62	1.5	2.5594	1.25
1090	23.1131	CIB	2.86	1.16	2.7694	1.28
926/929	23.1139	CIB	2.32	1.22	2.7834	1.25
1090	23.1164	CIB	3.2	1.36	2.6688	1.2
1090	23.1198	CIB	2.92	1.02	2.6348	1.22
926/929	23.1199	CIB	2.05	1.25	2.7934	1.28
1218	23.12	CIB	2.69	1.27	2.6954	1.28
1090	23.1231	CIB	3.11	1.51	2.4994	1.31
1090	23.1254	CIB	2.71	1.34	2.59	1.23
926/929	23.1265	CIB	1.94	1.17	2.4592	1.23
1090	23.1301	CIB	2.5	0.88	2.2892	1.22
926/929	23.1318	CIB	2.04	1.24	2.2252	1.07
1090	23.1324	CIB	2.26	1.46	2.2778	1.07
1090	23.137	CIB	2.39	0.62	2.2878	1.09
926/929	23.1378	CIB	2.2	1.15	2.3066	1.1
1090	23.1394	CIB	2.55	0.96	2.4246	1.07
563	23.1416	CIB	2.13	1.3	2.4846	1.16
1090	23.1417	CIB	2.85	1.33	2.4462	1.13
1090	23.144	CIB	2.69	1.03	2.4462	1.07
926/929	23.146	CIB	2.01	1.01	2.5282	0.94
1090	23.1463	CIB	2.55	0.68	2.4074	0.86
1090	23.1486	CIB	2.54	0.64	2.3134	0.88
926/929	23.1491	CIB	2.25	0.95	2.3332	1
1218	23.15	CIB	2.22	1.1	2.2492	1.07
526	23.1509	CIB	2.11	1.65	2.1312	1.17
608	23.1509	CIB	2.13	0.99	2.22	1.2
704	23.1509	CIB	1.95	1.17	2.1354	1.15
1090	23.151	CIB	2.69	1.07	2.2254	1.05
926/929	23.1518	CIB	1.8	0.85	2.1484	1.06
1090	23.1556	CIB	2.56	1.17	2.2184	1.01
926/929	23.1572	CIB	1.75	1.02	2.2124	1.02
1090	23.1579	CIB	2.3	0.93	2.2346	1.08
1090	23.1603	CIB	2.66	1.11	2.2026	1.04
926/929	23.1622	CIB	1.91	1.18	2.1534	1.07
1090	23.1626	CIB	2.4	0.94	2.1674	1.01
926/929	23.1662	CIB	1.5	1.19	2.1774	0.94
1090	23.1672	CIB	2.37	0.63	2.1718	0.84
1090	23.1695	CIB	2.71	0.77	2.1738	0.88
553	23.1697	CIB	1.88	0.65	2.1946	0.89
1218	23.17	CIB	2.41	1.14	2.1386	0.96
926/929	23.1707	CIB	1.6	1.26	2.0122	1
1090	23.1742	CIB	2.09	0.96	2.1242	1.11
926/929	23.1762	CIB	2.08	0.98	2.0922	1.07
1090	23.1765	CIB	2.44	1.23	2.1832	1.04
1090	23.1788	CIB	2.25	0.94	2.2292	1.03
926/929	23.1819	CIB	2.06	1.12	2.2696	1
1090	23.1835	CIB	2.32	0.87	2.201	0.95
1090	23.1858	CIB	2.28	0.83	2.187	0.94
926/929	23.1876	CIB	2.1	0.99	2.2054	0.94
1090	23.1881	CIB	2.18	0.88	2.2094	0.91

1218	23.19	CIB	2.15	1.14	2.2094	0.98
1090	23.1904	CIB	2.34	0.7	2.194	1.03
747	23.1917	CIB	2.28	1.2	2.242	1.01
1090	23.1928	CIB	2.02	1.22	2.2328	1
1090	23.1951	CIB	2.42	0.78	2.1528	1.06
926/929	23.1959	CIB	2.1	1.1	2.2468	1.11
1090	23.1974	CIB	1.94	0.99	2.4228	1.08
1090	23.1997	CIB	2.75	1.47	2.4828	1.15
1090	23.2021	CIB	2.9	1.08	2.4432	1.13
1090	23.2044	CIB	2.72	1.12	2.5512	1.15
926/929	23.2045	CIB	1.91	1.01	2.4392	1.03
1090	23.2067	CIB	2.48	1.06	2.3472	1
1090	23.209	CIB	2.19	0.89	2.133	0.92
1218	23.21	CIB	2.44	0.9	2.2638	0.93
926/929	23.2105	CIB	1.65	0.75	2.2678	0.96
1090	23.2113	CIB	2.56	1.03	2.3318	1.01
1090	23.216	CIB	2.5	1.22	2.173	1.03
1090	23.2174	CIB	2.51	1.15	2.3212	1.01
926/929	23.2183	CIB	1.65	1.02	2.3272	1.03
1090	23.2211	CIB	2.39	0.63	2.3012	0.91
1090	23.223	CIB	2.59	1.11	2.1174	0.85
1090	23.2248	CIB	2.37	0.66	2.2882	0.89
926/929	23.2265	CIB	1.59	0.81	2.1462	1.02
588	23.2271	CIB	1.68	1.3	2.0108	0.98
1090	23.2271	CIB	2.5	1.23	2.0802	0.93
1090	23.2295	CIB	2.26	0.67	2.1606	0.98
1218	23.23	CIB	2.02	0.9	2.1046	0.91
1090	23.2313	CIB	2.34	0.78	2.1786	0.8
1090	23.2341	CIB	2.22	0.92	2.1321	0.78
1090	23.2364	CIB	2.05	0.72	2.1595	0.75
926/929	23.2375	CIB	2.03	0.59	2.1255	0.75
1090	23.2387	CIB	2.16	0.76	2.0895	0.69
1218	23.24	CIB	2.17	2.0384	0.65	NA
1090	23.2406	CIB	2.04	0.7	2.0949	0.71
926/929	23.241	CIB	1.79	0.55	2.0629	0.67
1090	23.2429	CIB	2.31	0.85	2.0929	0.67
1090	23.2452	CIB	2	0.57	1.9955	0.63
1090	23.2476	CIB	2.32	0.67	2.1406	0.65
926/929	23.2479	CIB	1.55	0.53	2.0024	0.64
1090	23.2499	CIB	2.52	0.63	2.0664	0.6
926/929	23.2517	CIB	1.62	0.8	2.0484	0.77
1090	23.2522	CIB	2.32	0.36	2.1397	0.85
704	23.254	CIB	2.23	1.53	1.9515	0.91
1090	23.2545	CIB	2.01	0.93	2.0557	0.83
926/929	23.2552	CIB	1.58	0.94	1.8902	0.92
1090	23.2592	CIB	2.14	0.41	1.8942	0.78
926/929	23.2592	CIB	1.49	0.77	1.8682	0.7
1218	23.26	CIB	2.25	0.86	1.8633	0.68
1090	23.2615	CIB	1.88	0.53	1.8393	0.73
926/929	23.2632	CIB	1.55	0.82	1.8388	0.7
1090	23.2648	CIB	2.02	0.65	1.7808	0.71
926/929	23.2676	CIB	1.49	0.65	1.8368	0.77
1090	23.268	CIB	1.96	0.88	1.8648	0.75
1218	23.27	CIB	2.16	0.86	1.8968	0.75
926/929	23.2712	CIB	1.69	0.72	2.0688	0.75
1090	23.2713	CIB	2.18	0.66	2.0233	0.71
1090	23.2745	CIB	2.35	0.63	1.9373	0.64
926/929	23.2752	CIB	1.73	0.65	2.0485	0.81
1090	23.2778	CIB	1.73	0.51	2.0585	0.86
588	23.2794	CIB	2.25	1.62	2.0225	0.84

1218	23.28	CIB	2.23	0.87	2.0322	0.85
1090	23.281	CIB	2.17	0.56	2.1182	1.02
926/929	23.2819	CIB	1.78	0.67	2.1622	0.84
563	23.2821	CIB	2.16	1.4	2.0485	0.78
1090	23.2843	CIB	2.47	0.72	2.0625	0.79
926/929	23.2848	CIB	1.66	0.53	2.03	0.77
1090	23.2875	CIB	2.24	0.61	2.048	0.64
926/929	23.288	CIB	1.62	0.6	2.022	0.64
1218	23.29	CIB	2.25	0.72	2.018	0.69
1090	23.2908	CIB	2.34	0.74	1.994	0.66
926/929	23.2915	CIB	1.64	0.77	2.0037	0.73
1090	23.2941	CIB	2.12	0.47	1.9677	0.71
926/929	23.2947	CIB	1.67	0.95	1.9297	0.73
1090	23.2973	CIB	2.07	0.63	2.0533	0.74
1218	23.3	CIB	2.15	0.82	1.9407	0.8
1090	23.3006	CIB	2.26	0.83	2.0654	0.75
926/929	23.3011	CIB	1.56	0.75	2.0164	0.8
1090	23.3038	CIB	2.29	0.71	2.0484	0.79
926/929	23.3044	CIB	1.83	0.91	1.9544	0.75
1090	23.3071	CIB	2.31	0.73	2.0537	0.76
926/929	23.3076	CIB	1.79	0.67	1.9912	0.78
1218	23.31	CIB	0.77	2.1125	0.74	NA
1090	23.3103	CIB	2.04	0.81	2.0825	0.75
1090	23.3136	CIB	2.31	0.73	2.0756	0.74
1090	23.3168	CIB	2.19	0.78	2.1445	0.75
926/929	23.3172	CIB	1.76	0.59	2.0928	0.73
1090	23.3201	CIB	2.42	0.85	2.1068	0.73
926/929	23.3205	CIB	1.78	0.69	2.0288	0.84
1090	23.3226	CIB	2.38	0.74	2.0643	0.84
588	23.3251	CIB	1.8	1.31	2.0163	0.86
1090	23.3252	CIB	1.94	0.61	2.078	0.89
1090	23.3277	CIB	2.18	0.94	2.022	0.89
1218	23.33	CIB	2.09	0.85	2.0196	0.8
1090	23.3303	CIB	2.1	0.73	2.0736	0.83
1090	23.3328	CIB	2.21	0.8	1.9175	0.78
926/929	23.3328	CIB	1.79	0.85	1.9355	0.78
926/929	23.3353	CIB	1.49	0.69	1.9595	0.77
1090	23.3354	CIB	2	0.82	2.0299	0.89
1090	23.3379	CIB	2.31	0.7	1.8949	0.82
608	23.3383	CIB	2.14	1.44	2.0171	0.84
926/929	23.339	CIB	1.54	0.47	2.0231	0.77
1218	23.34	CIB	2.1	0.78	1.8846	0.78
1090	23.3405	CIB	2.03	0.46	1.8886	0.62
926/929	23.3427	CIB	1.62	0.72	2.0296	0.68
1090	23.343	CIB	2.16	0.64	1.9703	0.66
1090	23.3456	CIB	2.24	0.8	1.9963	0.67
926/929	23.3464	CIB	1.8	0.66	2.1507	0.71
1090	23.3481	CIB	2.16	0.52	2.1887	0.72
1090	23.3507	CIB	2.39	0.92	2.0579	0.68
1090	23.3532	CIB	2.35	0.7	2.1232	0.72
926/929	23.3538	CIB	1.59	0.62	1.9507	0.74
1090	23.3558	CIB	2.13	0.85	1.8987	0.67
926/929	23.358	CIB	1.3	0.61	1.8507	0.66
1090	23.3583	CIB	2.13	0.57	1.8388	0.71
1090	23.3609	CIB	2.11	0.63	1.8448	0.63
926/929	23.3631	CIB	1.53	0.87	1.9914	0.7
1090	23.3634	CIB	2.16	0.46	1.9694	0.75
1090	23.366	CIB	2.03	0.99	1.859	0.78
1090	23.3685	CIB	2.02	0.79	1.9596	0.77
926/929	23.3693	CIB	1.56	0.81	1.7964	0.83

1090	23.3711	CIB	2.03	0.79	1.7964	0.8
926/929	23.3734	CIB	1.34	0.78	1.7744	0.77
1090	23.3736	CIB	2.03	0.84	1.8248	0.88
1090	23.3762	CIB	1.91	0.65	1.6816	0.87
588	23.3774	CIB	1.81	1.33	1.7708	0.86
926/929	23.3786	CIB	1.31	0.75	1.7348	0.81
1090	23.3787	CIB	1.79	0.75	1.6443	0.83
1090	23.3818	CIB	1.85	0.56	1.7903	0.75
926/929	23.3837	CIB	1.46	0.74	2.0395	0.8
1090	23.3848	CIB	2.54	0.96	2.2195	0.97
1090	23.3879	CIB	2.56	1	2.2008	1.05
563	23.3888	CIB	2.69	1.59	2.3432	1.08
926/929	23.3889	CIB	1.76	0.94	2.3152	1.07
1218	23.39	CIB	2.17	0.9	2.3132	1.09
1090	23.391	CIB	2.4	0.91	2.1192	0.94
1090	23.394	CIB	2.55	1.1	2.224	0.96
926/929	23.3967	CIB	1.72	0.86	2.144	0.91
1090	23.3971	CIB	2.28	1.02	2.134	0.94
553	23.3993	CIB	1.77	0.66	2.14	0.93
1090	23.4002	CIB	2.35	1.06	2.1423	0.95
1090	23.4032	CIB	2.58	1.05	2.1563	0.98
926/929	23.4042	CIB	1.73	0.97	2.1138	1.1
1090	23.4063	CIB	2.35	1.17	2.0898	1.1
926/929	23.4082	CIB	1.56	1.25	1.9738	1.1
1090	23.4094	CIB	2.23	1.05	1.9488	1.15
1218	23.41	CIB	2	1.04	1.9048	1.15
926/929	23.4122	CIB	1.61	1.25	1.9713	1.05
1090	23.4124	CIB	2.13	1.14	1.9273	1.05
1090	23.4155	CIB	1.89	0.79	1.8693	0.99
1090	23.4186	CIB	2.01	1.03	1.8365	0.97
1090	23.4216	CIB	1.71	0.75	1.7945	1.01
926/929	23.422	CIB	1.44	1.14	1.9045	1.08
588	23.4231	CIB	1.92	1.34	1.8541	1.1
1090	23.4244	CIB	2.44	1.15	1.9401	1.19
926/929	23.4285	CIB	1.76	1.12	2.1016	1.2
1218	23.43	CIB	2.14	2.0739	1.12	NA
1090	23.4302	CIB	2.25	1.2	2.0519	1.11
926/929	23.4335	CIB	1.78	1.03	2.0356	1.1
1090	23.436	CIB	2.33	1.1	2.0816	1.09
926/929	23.4379	CIB	1.68	1.08	2.0336	1.04
1090	23.4389	CIB	2.37	1.02	2.1553	1.08
1218	23.44	CIB	2.01	0.99	2.0375	1.06
1090	23.4418	CIB	2.39	1.21	2.1942	1.07
926/929	23.4423	CIB	1.74	1.01	2.0135	1.06
1090	23.4447	CIB	2.46	1.1	2.0335	1
926/929	23.4467	CIB	1.47	0.99	2.0615	1.01
1090	23.4475	CIB	2.11	0.69	2.015	1.03
1090	23.4504	CIB	2.53	1.24	2.001	1
926/929	23.4511	CIB	1.51	1.11	2.2117	1.04
1090	23.4533	CIB	2.39	0.96	2.2337	1.13
1090	23.4562	CIB	2.52	1.2	2.1137	1.08
1090	23.4591	CIB	2.22	1.14	2.25	1.07
1218	23.46	CIB	1.93	0.99	2.19	1.14
1090	23.462	CIB	2.19	1.08	1.9627	1.14
704	23.4629	CIB	2.09	1.31	1.9047	1.09
926/929	23.4636	CIB	1.38	1.16	1.8747	1.08
1090	23.4649	CIB	1.93	0.93	1.8167	1.07
1090	23.4677	CIB	1.78	0.93	1.8887	1
1090	23.4704	CIB	1.9	1	2.052	1.07
1090	23.4732	CIB	2.45	0.96	2.054	1.11

588	23.4754	CIB	2.2	1.54	2.164	1.14
1090	23.4759	CIB	1.94	1.12	2.248	1.17
1090	23.4786	CIB	2.33	1.07	2.202	1.2
1218	23.48	CIB	2.32	1.17	2.138	1.18
1090	23.4814	CIB	2.22	1.12	2.204	1.16
754	23.4825	CIB	1.88	1.4	2.158	1.14
1090	23.4841	CIB	2.27	1.02	2.08	1.06
1090	23.4868	CIB	2.1	1	2.132	1.06
1090	23.4896	CIB	1.93	0.77	2.18	1
747	23.4913	CIB	2.48	1.09	2.18	1
1090	23.4923	CIB	2.12	1.13	2.0735	1.03
1090	23.495	CIB	2.27	1.02	2.0855	1.08
926/929	23.4956	CIB	1.57	1.12	1.9795	1.08
1090	23.4989	CIB	1.99	1.05	1.9555	1.14
1218	23.5	CIB	1.95	1.9135	1.13	NA
1090	23.5011	CIB	2	1.38	2.106	1.18
1090	23.5038	CIB	2.06	0.97	2.144	1.27
563	23.5052	CIB	2.53	1.32	2.212	1.24
1090	23.5065	CIB	2.18	1.39	2.1297	1.18
1090	23.5093	CIB	2.29	1.13	2.1797	1.23
926/929	23.5116	CIB	1.59	1.11	2.1697	1.18
1090	23.512	CIB	2.31	1.2	2.2277	1.11
1090	23.5147	CIB	2.48	1.07	2.2237	1.13
1090	23.5175	CIB	2.47	1.06	2.38	1.14
1218	23.52	CIB	2.27	1.21	2.416	1.09
1218	23.52	CIB	2.37	1.17	2.41	1.13
1090	23.5202	CIB	2.49	0.92	2.43	1.14
1090	23.523	CIB	2.45	1.29	2.305	1.1
1090	23.5257	CIB	2.57	1.09	2.365	1.11
926/929	23.5262	CIB	1.64	1.02	2.265	1.07
1090	23.5284	CIB	2.67	1.25	2.177	1
1090	23.5339	CIB	1.99	0.71	2.117	1.03
1090	23.5366	CIB	2.01	0.94	2.242	1.07
1218	23.54	CIB	2.27	1.23	2.135	1.05
1218	23.54	CIB	2.27	1.23	2.0367	1.11
1218	23.54	CIB	1.16	2.0017	1.1	NA
926/929	23.5402	CIB	1.6	0.99	2.0392	1.06
1090	23.5421	CIB	1.87	0.91	2.0492	1.04
1090	23.5446	CIB	2.42	0.99	2.1493	0.97
1090	23.547	CIB	2.31	1.13	2.294	0.94
1090	23.5495	CIB	2.55	0.81	2.2503	0.98
1090	23.552	CIB	2.32	0.86	2.2703	0.98
926/929	23.5542	CIB	1.65	1.09	2.2983	0.92
1090	23.5544	CIB	2.52	1	2.2603	0.96
1090	23.5569	CIB	2.45	0.83	2.2063	1.03
1090	23.5594	CIB	2.36	1.04	2.312	1.01
1218	23.56	CIB	2.05	1.2	2.316	1.03
1218	23.56	CIB	2.18	0.99	2.336	1.1
1090	23.5618	CIB	2.54	1.1	2.1921	1.1
1090	23.5643	CIB	2.55	1.16	2.2561	1.06
926/929	23.5679	CIB	1.64	1.04	2.2661	1.01
1090	23.5693	CIB	2.37	1	2.2141	1
1218	23.57	CIB	2.23	0.75	2.004	1.02
1090	23.5717	CIB	2.28	1.06	2.1059	1.01
926/929	23.5735	CIB	1.5	1.27	1.9519	0.93
1090	23.5742	CIB	2.15	0.97	1.9259	1.01
553	23.5754	CIB	1.6	0.6	1.7809	1.05
608	23.5754	CIB	2.1	1.17	1.951	0.97
926/929	23.5782	CIB	1.55	1.25	1.993	0.97
1090	23.5791	CIB	2.35	0.86	1.9941	1.11

1218	23.58	CIB	2.36	0.95	1.9801	1.07
926/929	23.5807	CIB	1.61	1.32	1.9867	1.07
1090	23.5816	CIB	2.03	0.99	1.9867	1.14
926/929	23.5831	CIB	1.59	1.22	1.8574	1.19
1090	23.5848	CIB	2.35	1.24	1.9109	1.14
926/929	23.5856	CIB	1.71	1.19	1.9169	1.12
926/929	23.5881	CIB	1.87	1.05	2.0633	1.13
704	23.5883	CIB	2.06	0.9	1.9606	1.09
1218	23.59	CIB	2.32	1.26	2.1279	1.08
926/929	23.5904	CIB	1.84	1.04	2.2473	1.02
1090	23.5913	CIB	2.55	1.14	2.3293	1.09
1090	23.5945	CIB	2.47	0.74	2.237	1.04
1090	23.5978	CIB	2.47	1.26	2.2838	1.05
926/929	23.5981	CIB	1.86	1.01	2.1288	1.03
1218	23.6	CIB	2.07	1.11	2.0848	1.11
926/929	23.6005	CIB	1.78	1	1.93	1.02
1090	23.601	CIB	2.25	1.15	2.0463	1.06
926/929	23.603	CIB	1.7	0.82	1.9963	1.08
1090	23.6042	CIB	2.44	1.22	2.1052	1.08
588	23.606	CIB	1.82	1.19	2.0008	0.99
1090	23.6075	CIB	2.32	1.01	2.0576	1.04
926/929	23.608	CIB	1.73	0.72	2.0476	0.98
1218	23.61	CIB	1.98	1.06	2.1076	0.95
1218	23.61	CIB	2.39	0.9	2.1356	0.94
747	23.6103	CIB	2.12	1.04	2.1614	0.95
747	23.6103	CIB	2.46	1	2.2394	0.95
926/929	23.6105	CIB	1.86	0.73	2.1233	0.95
1090	23.6107	CIB	2.37	1.07	2.0973	0.91
926/929	23.613	CIB	1.81	0.92	1.9277	0.94
1090	23.6139	CIB	1.99	0.82	1.9684	0.95
926/929	23.6154	CIB	1.61	1.14	1.7973	0.96
1090	23.6172	CIB	2.06	0.79	1.8373	0.98
926/929	23.6182	CIB	1.51	1.15	1.8633	1.02
1090	23.6204	CIB	2.01	1	1.8466	1.03
1090	23.6243	CIB	2.12	1	1.8386	1.03
926/929	23.6256	CIB	1.53	1.22	1.8863	1.04
1090	23.6282	CIB	2.02	0.78	1.9583	1.02
926/929	23.6294	CIB	1.75	1.19	2.0143	0.99
1218	23.63	CIB	2.37	0.89	2.0712	0.92
1090	23.632	CIB	2.4	0.86	2.1072	0.94
926/929	23.6331	CIB	1.81	0.88	2.1185	0.89
1090	23.6359	CIB	2.2	0.86	2.1405	0.91
926/929	23.6368	CIB	1.81	0.94	2.0477	0.92
1090	23.6398	CIB	2.48	1.01	2.1052	0.9
926/929	23.6405	CIB	1.94	0.93	2.0126	0.9
1090	23.6437	CIB	2.1	0.76	2.1086	0.88
926/929	23.6443	CIB	1.74	0.87	1.951	0.86
1090	23.6476	CIB	2.29	0.81	1.9618	0.84
926/929	23.648	CIB	1.69	0.95	1.8744	0.84
1090	23.6514	CIB	1.99	0.79	1.9669	0.94
926/929	23.6517	CIB	1.66	0.78	1.9769	1.06
608	23.6524	CIB	2.2	1.36	2.0426	1.01
608	23.6524	CIB	2.34	1.4	1.9717	1.06
1090	23.6553	CIB	2.02	0.72	1.9871	1.03
926/929	23.6591	CIB	1.64	1.04	1.9505	0.97
1090	23.6592	CIB	1.74	0.62	1.7823	0.88
1218	23.66	CIB	2.02	1.06	1.7363	0.94
926/929	23.6623	CIB	1.5	0.94	1.7141	0.91
1090	23.6629	CIB	1.79	1.04	1.6804	0.94
926/929	23.6655	CIB	1.52	0.87	1.717	0.89

926/929	23.6687	CIB	1.57	0.79	1.9012	0.9
1218	23.67	CIB	2.2	0.79	1.8995	0.84
1090	23.6704	CIB	2.42	0.99	1.9486	0.78
926/929	23.6719	CIB	1.78	0.74	2.0943	0.73
1090	23.6741	CIB	1.77	0.57	2.0201	0.7
1090	23.6779	CIB	2.3	0.58	1.8889	0.67
926/929	23.6783	CIB	1.83	0.61	1.9766	0.64
926/929	23.6815	CIB	1.76	0.84	1.9181	0.69
1090	23.6816	CIB	2.22	0.58	1.8861	0.67
926/929	23.6847	CIB	1.48	0.82	1.8262	0.74
1090	23.6853	CIB	2.14	0.49	1.8515	0.7
926/929	23.6879	CIB	1.53	0.97	1.8335	0.74
1090	23.6891	CIB	1.89	0.63	1.8484	0.76
1218	23.69	CIB	2.13	0.78	1.8444	0.78
926/929	23.6915	CIB	1.55	0.94	1.9405	0.73
1090	23.6928	CIB	2.12	0.56	1.8655	0.79
1090	23.6965	CIB	2.01	0.74	1.8755	0.87
926/929	23.6967	CIB	1.51	0.93	1.977	0.79
704	23.6983	CIB	2.18	1.19	1.8471	0.82
1090	23.7003	CIB	2.06	0.51	1.8411	0.79
926/929	23.7019	CIB	1.47	0.73	1.9202	0.86
588	23.704	CIB	1.91	1.26	1.7989	0.76
1090	23.704	CIB	1.98	0.61	1.7649	0.73
926/929	23.7071	CIB	1.4	0.54	1.8607	0.77
1090	23.7077	CIB	2.23	0.67	1.8687	0.76
1218	23.71	CIB	1.78	0.76	1.9207	0.6
1090	23.7115	CIB	2.02	0.55	1.9445	0.59
1090	23.7152	CIB	2.17	0.47	1.8925	0.54
926/929	23.7172	CIB	1.52	0.49	1.8799	0.45
1090	23.7189	CIB	1.97	0.41	1.9159	0.49
926/929	23.721	CIB	1.72	0.35	1.9419	0.57
1090	23.7227	CIB	2.2	0.71	1.9995	0.6
360	23.7237	CIB	2.3	0.91	1.9223	0.64
553	23.7237	CIB	1.81	0.63	1.9448	0.65
926/929	23.7248	CIB	1.58	0.61	1.8093	0.62
1090	23.7264	CIB	1.83	0.4	1.7393	0.57
926/929	23.7287	CIB	1.52	0.53	1.7973	0.57
1218	23.73	CIB	1.95	0.7	1.8504	0.52
1218	23.73	CIB	2.1	0.61	1.7657	0.57
1090	23.7301	CIB	1.85	0.35	1.7933	0.54
926/929	23.7325	CIB	1.41	0.63	1.8733	0.7
558	23.7339	CIB	2.35	1.49	1.7673	0.67
1090	23.7339	CIB	1.66	0.41	1.7493	0.61
1090	23.7376	CIB	1.48	0.17	1.7531	0.71
1218	23.74	CIB	1.94	0.65	1.7591	0.73
926/929	23.7401	CIB	1.34	0.82	1.5867	0.55
1090	23.7411	CIB	1.69	0.54	1.7067	0.79
926/929	23.7439	CIB	1.49	0.58	1.6947	0.72
704	23.7441	CIB	2.08	1.36	1.7254	0.64
1090	23.7447	CIB	1.88	0.28	1.8134	0.63
926/929	23.7477	CIB	1.49	0.42	1.9258	0.64
1090	23.7482	CIB	2.13	0.52	1.8085	0.45
1090	23.7517	CIB	2.05	0.64	1.7685	0.43
926/929	23.7523	CIB	1.49	0.39	1.7839	0.44
1090	23.7552	CIB	1.68	0.16	1.7559	0.53
926/929	23.7554	CIB	1.57	0.48	1.7399	0.51
588	23.7563	CIB	1.99	0.99	1.7424	0.52
1090	23.7588	CIB	1.97	0.51	1.8144	0.61
926/929	23.7594	CIB	1.51	0.43	1.8913	0.61
1218	23.76	CIB	2.04	0.61	1.7648	0.53

1090	23.7623	CIB	1.95	0.51	1.7248	0.55
926/929	23.7643	CIB	1.36	0.57	1.8016	0.5
553	23.7644	CIB	1.77	0.6	1.6279	0.49
1090	23.7658	CIB	1.89	0.19	1.6039	0.48
926/929	23.7692	CIB	1.17	0.59	1.7444	0.55
1090	23.7693	CIB	1.83	0.44	1.7804	0.57
1218	23.77	CIB	2.06	0.91	1.7324	0.59
1090	23.7729	CIB	1.95	0.73	1.7156	0.57
1090	23.7764	CIB	1.65	0.3	1.8536	0.77
926/929	23.7791	CIB	1.09	0.47	1.9156	0.73
747	23.7792	CIB	2.52	1.43	1.9516	0.74
1090	23.7795	CIB	2.37	0.73	1.9195	0.78
1090	23.7826	CIB	2.13	0.79	2.1599	0.81
926/929	23.784	CIB	1.49	0.48	1.9673	0.64
1090	23.7858	CIB	2.29	0.64	1.9113	0.62
926/929	23.7878	CIB	1.56	0.54	1.9273	0.57
1090	23.7889	CIB	2.09	0.63	1.9315	0.57
558	23.7898	CIB	2.21	0.58	1.9675	0.61
926/929	23.7911	CIB	1.51	0.48	1.9537	0.6
1090	23.792	CIB	2.47	0.82	2.0157	0.68
926/929	23.7944	CIB	1.49	0.49	2.1657	0.94
360	23.7949	CIB	2.4	1.05	2.3137	0.98
704	23.7949	CIB	2.96	1.86	2.2897	0.97
1090	23.7951	CIB	2.25	0.7	2.406	1.01
1090	23.7982	CIB	2.35	0.76	2.308	0.93
1218	23.8	CIB	2.07	0.7	2.0296	0.64
1090	23.8014	CIB	1.91	0.64	1.9756	0.78
926/929	23.8016	CIB	1.57	0.38	1.9256	0.77
588	23.802	CIB	1.98	1.43	1.8896	0.76
1090	23.8045	CIB	2.1	0.7	1.9176	0.83
1090	23.8076	CIB	1.89	0.67	2.012	0.89
1218	23.81	CIB	2.05	0.96	1.9331	0.75
1090	23.8107	CIB	2.04	0.7	1.8671	0.7
926/929	23.8131	CIB	1.59	0.74	1.8571	0.65
1090	23.8138	CIB	1.77	0.44	1.7199	0.55
1090	23.817	CIB	1.84	0.39	1.6559	0.52
926/929	23.8189	CIB	1.36	0.49	1.7428	0.5
1090	23.82	CIB	1.72	0.55	1.6759	0.53
1090	23.823	CIB	2.02	0.63	1.6759	0.58
926/929	23.8246	CIB	1.44	0.58	1.8491	0.58
1090	23.826	CIB	1.84	0.67	1.8814	0.63
1090	23.8289	CIB	2.23	0.48	1.7716	0.6
1218	23.83	CIB	0.78	1.9027	0.58	NA
926/929	23.8304	CIB	1.58	0.51	1.9177	0.58
1090	23.8319	CIB	1.96	0.45	1.8169	0.6
1090	23.8349	CIB	1.9	0.66	1.8915	0.58
926/929	23.8356	CIB	1.83	0.61	1.9217	0.6
1090	23.8379	CIB	2.19	0.67	1.9517	0.71
926/929	23.8396	CIB	1.73	0.62	2.0237	0.76
1218	23.84	CIB	2.11	0.98	2.0463	0.78
1090	23.8409	CIB	2.26	0.93	2.0683	0.82
1090	23.8439	CIB	1.94	0.7	2.05	0.81
1090	23.8469	CIB	2.3	0.89	2.018	0.81
926/929	23.8476	CIB	1.64	0.56	1.8804	0.78
1090	23.8498	CIB	1.95	0.99	1.8484	0.8
926/929	23.8516	CIB	1.57	0.77	1.8364	0.73
1090	23.8528	CIB	1.78	0.81	1.831	0.79
1090	23.8558	CIB	2.24	0.52	1.829	0.75
926/929	23.8559	CIB	1.61	0.85	1.8312	0.75
1090	23.8588	CIB	1.94	0.82	1.8812	0.76

926/929	23.8591	CIB	1.58	0.74	1.7307	0.8
1090	23.8618	CIB	2.03	0.85	1.768	0.78
926/929	23.8626	CIB	1.49	0.73	1.826	0.78
553	23.863	CIB	1.8	0.77	1.8238	0.81
1090	23.8677	CIB	2.23	0.83	1.8278	0.79
926/929	23.8698	CIB	1.57	0.88	1.9763	0.8
1218	23.87	CIB	2.05	0.73	2.1343	0.99
1090	23.8707	CIB	2.23	0.78	2.0229	0.96
704	23.8709	CIB	2.59	1.75	2.1305	0.94
926/929	23.8734	CIB	1.67	0.67	2.1845	0.98
1090	23.8737	CIB	2.11	0.76	2.0493	0.96
1090	23.8767	CIB	2.32	0.94	1.9533	0.79
926/929	23.879	CIB	1.55	0.68	2.0368	0.85
1090	23.8797	CIB	2.11	0.88	1.8855	0.86
1090	23.8827	CIB	2.09	1.01	1.8155	0.86
926/929	23.8842	CIB	1.35	0.78	1.9287	0.86
1090	23.8857	CIB	1.97	0.96	1.7657	0.82
1090	23.8886	CIB	2.12	0.66	1.7217	0.79
926/929	23.89	CIB	1.29	0.67	1.819	0.9
1090	23.8916	CIB	1.87	0.89	1.6884	0.85
608	23.8946	CIB	1.84	1.33	1.6184	0.81
926/929	23.8957	CIB	1.32	0.72	1.7774	0.91
1090	23.8972	CIB	1.77	0.42	1.8434	0.97
747	23.8981	CIB	2.09	1.18	1.775	0.89
747	23.8981	CIB	2.2	1.19	1.9716	0.9
1090	23.8996	CIB	2.3	0.8	2.0996	1.02
926/929	23.8996	CIB	1.5	0.92	2.1076	1.13
588	23.9	CIB	2.45	1.57	2.0676	0.92
1218	23.9	CIB	2.05	0.62	2.0887	0.9
1090	23.902	CIB	2.04	0.68	2.0587	0.96
926/929	23.9026	CIB	1.6	0.81	2.0407	0.8
1090	23.9044	CIB	2.15	1.11	1.9406	0.85
1090	23.9068	CIB	2.36	0.8	1.7946	0.96
926/929	23.9088	CIB	1.55	0.84	1.9599	0.98
754	23.9089	CIB	1.31	1.24	1.9879	0.93
1090	23.9091	CIB	2.43	0.92	1.8329	0.9
1090	23.9115	CIB	2.29	0.86	2.025	0.92
926/929	23.9115	CIB	1.58	0.63	2.0722	0.84
1090	23.9139	CIB	2.51	0.94	1.9862	0.84
926/929	23.9152	CIB	1.55	0.86	1.8504	0.84
1090	23.9163	CIB	2	0.91	2.0734	0.98
926/929	23.918	CIB	1.61	0.83	2.0234	0.99
558	23.9182	CIB	2.7	1.34	2.1261	0.97
1090	23.9187	CIB	2.26	1	2.1621	0.97
1218	23.92	CIB	2.06	0.76	2.1664	0.99
1090	23.9211	CIB	2.18	0.94	2.0924	0.89
926/929	23.9214	CIB	1.63	0.9	2.0384	0.86
1090	23.9234	CIB	2.33	0.87	2.0804	0.87
1090	23.9258	CIB	1.99	0.82	2.1164	0.84
1090	23.9282	CIB	2.27	0.82	2.101	0.84
1090	23.9306	CIB	2.36	0.78	2.135	0.86
926/929	23.9306	CIB	1.56	0.92	2.0301	0.85
1090	23.933	CIB	2.5	0.95	1.9941	0.8
926/929	23.9353	CIB	1.47	0.78	2.0401	0.86
1090	23.9354	CIB	2.09	0.58	2.0279	0.85
1090	23.9377	CIB	2.59	1.06	2.0679	0.79
926/929	23.9399	CIB	1.49	0.89	2.2908	0.82
1090	23.9401	CIB	2.7	0.66	2.204	0.83
1090	23.9425	CIB	2.58	0.92	2.144	0.82
926/929	23.9445	CIB	1.66	0.64	2.2832	0.85

1090	23.9449	CIB	2.29	0.99	2.1472	0.9
1090	23.9473	CIB	2.19	1.03	2.0352	0.87
1090	23.9496	CIB	2.02	0.91	2.0292	0.88
1218	23.95	CIB	2.02	0.76	2.0612	0.86
926/929	23.9501	CIB	1.63	0.71	1.9608	0.82
1090	23.952	CIB	2.45	0.9	1.9988	0.83
926/929	23.9538	CIB	1.69	0.83	2.1008	0.86
1090	23.9544	CIB	2.21	0.95	2.1537	0.93
1090	23.9568	CIB	2.53	0.89	1.9932	0.88
563	23.9576	CIB	1.89	1.06	2.0996	0.86
926/929	23.9585	CIB	1.65	0.65	2.0836	0.79
1090	23.9592	CIB	2.22	0.73	1.8939	0.77
1090	23.9616	CIB	2.13	0.61	1.9699	0.72
926/929	23.9631	CIB	1.58	0.8	2.1123	0.75
1090	23.9639	CIB	2.27	0.79	2.1603	0.75
1090	23.9687	CIB	2.36	0.8	2.0495	0.78
1090	23.9711	CIB	2.46	0.75	2.2252	0.88
926/929	23.9718	CIB	1.58	0.78	2.2172	0.87
704	23.9734	CIB	2.46	1.29	2.1772	0.84
1090	23.9735	CIB	2.23	0.74	1.9771	0.87
1090	23.9759	CIB	2.16	0.62	2.0619	0.83
926/929	23.978	CIB	1.46	0.94	1.9999	0.67
1090	23.9782	CIB	2	0.56	1.8862	0.66
1218	23.98	CIB	2.15	0.48	1.8702	0.73
926/929	23.98	CIB	1.66	0.72	1.934	0.69
1090	23.9806	CIB	2.08	0.96	1.942	0.7
926/929	23.982	CIB	1.78	0.74	1.896	0.84
1090	23.983	CIB	2.04	0.63	1.9035	0.86
1090	23.9854	CIB	1.92	1.14	1.9255	0.82
926/929	23.986	CIB	1.7	0.83	1.8894	0.83
1090	23.9878	CIB	2.19	0.78	1.8074	0.83
926/929	23.988	CIB	1.6	0.79	1.8094	0.77
926/929	23.99	CIB	1.63	0.6	1.7863	0.78
1090	23.9902	CIB	1.93	0.88	1.7783	0.75
926/929	23.992	CIB	1.58	0.86	1.7636	0.75
1090	23.9925	CIB	2.15	0.64	1.9476	0.77
926/929	23.994	CIB	1.52	0.77	2.0616	0.74
1090	23.9949	CIB	2.55	0.68	2.0238	0.7
1090	23.9973	CIB	2.5	0.75	2.0958	0.71
926/929	23.998	CIB	1.39	0.67	2.1389	0.66
1090	23.9997	CIB	2.51	0.66	1.9336	0.63
1218	24	CIB	1.74	0.54	1.7503	0.56
926/929	24	CIB	1.52	0.54	1.9075	0.54
926/929	24.002	CIB	1.58	0.39	1.7212	0.54
1090	24.0021	CIB	2.18	0.57	1.7892	0.55
926/929	24.004	CIB	1.58	0.64	1.792	0.56
1090	24.0045	CIB	2.08	0.59	1.8852	0.6
926/929	24.006	CIB	1.54	0.63	1.7236	0.57
1090	24.0068	CIB	2.05	0.56	1.8478	0.61
926/929	24.008	CIB	1.37	0.46	1.8058	0.63
1090	24.0092	CIB	2.2	0.81	1.7611	0.63
1218	24.01	CIB	1.87	0.68	1.7291	0.65
926/929	24.01	CIB	1.31	0.62	1.7412	0.71
1090	24.0116	CIB	1.89	0.69	1.6265	0.66
926/929	24.0127	CIB	1.43	0.73	1.694	0.7
926/929	24.0211	CIB	0.58	1.7233	0.7	NA
1090	24.0231	CIB	2.14	0.86	1.8458	0.64
926/929	24.0253	CIB	1.43	0.63	1.8774	0.6
1090	24.0288	CIB	2.38	0.41	1.9319	0.61
926/929	24.0295	CIB	1.56	0.5	1.864	0.54

1218	24.03	CIB	2.15	0.64	2.0258	0.51
926/929	24.0334	CIB	1.8	0.53	1.8861	0.5
1090	24.0346	CIB	2.24	0.49	2.0904	0.5
926/929	24.0368	CIB	1.68	0.37	1.9823	0.49
1090	24.0403	CIB	2.58	0.49	2.1162	0.5
926/929	24.0436	CIB	1.61	0.58	1.9748	0.53
1090	24.0461	CIB	2.47	0.55	1.9498	0.6
926/929	24.047	CIB	1.53	0.67	1.8918	0.57
926/929	24.0504	CIB	1.56	0.7	1.8702	0.6
1090	24.0518	CIB	2.29	0.36	1.6643	0.63
926/929	24.0538	CIB	1.5	0.7	1.6997	0.61
926/929	24.0573	CIB	1.44	0.72	1.6759	0.6
1090	24.0576	CIB	1.71	0.56	1.5449	0.64
926/929	24.0609	CIB	1.44	0.65	1.7106	0.72
926/929	24.0645	CIB	1.63	0.59	1.7538	0.64
747	24.067	CIB	2.33	1.06	1.7678	0.63
926/929	24.0681	CIB	1.66	0.34	1.9602	0.64
1218	24.07	CIB	1.78	0.53	1.9711	0.61
1090	24.0748	CIB	2.4	0.67	1.821	0.49
926/929	24.075	CIB	1.69	0.43	1.8677	0.51
926/929	24.0781	CIB	1.58	0.5	1.7991	0.5
1090	24.0805	CIB	1.89	0.44	1.5881	0.45
926/929	24.0813	CIB	1.44	0.48	1.6843	0.5
926/929	24.0845	CIB	1.35	0.4	1.6565	0.5
1090	24.0863	CIB	2.17	0.68	1.6833	0.52
926/929	24.0876	CIB	1.44	0.51	1.8259	0.53
1218	24.09	CIB	2.02	0.51	1.8527	0.54
1090	24.092	CIB	2.15	0.54	1.7827	0.48
926/929	24.101	CIB	1.48	0.44	1.7811	0.46
1090	24.1035	CIB	1.82	0.38	1.8163	0.49
926/929	24.1064	CIB	1.43	0.42	1.6623	0.46
1090	24.1093	CIB	2.2	0.68	1.8306	0.61
926/929	24.1117	CIB	1.38	0.39	1.8986	0.71
360	24.115	CIB	2.32	1.18	1.9999	0.78
1090	24.115	CIB	2.16	0.86	1.8729	0.72
1218	24.12	CIB	1.94	2.017	0.91	NA
926/929	24.1208	CIB	1.56	0.45	1.8349	0.8
704	24.1244	CIB	2.1	1.15	1.7749	0.74
926/929	24.1249	CIB	1.41	0.74	1.6671	0.72
1090	24.1265	CIB	1.86	0.63	1.7961	0.84
926/929	24.129	CIB	1.4	0.63	1.9041	0.81
704	24.1291	CIB	2.21	1.05	2.0642	0.79
1090	24.1315	CIB	2.64	1.01	1.9829	0.79
1090	24.1366	CIB	2.21	0.65	2.0298	0.78
926/929	24.1372	CIB	1.45	0.6	1.9149	0.71
926/929	24.1413	CIB	1.64	0.6	1.8409	0.7
926/929	24.1454	CIB	1.64	0.67	1.7409	0.73
1090	24.1467	CIB	2.27	0.96	1.7709	0.74
608	24.1479	CIB	1.71	0.83	1.8459	0.73
926/929	24.1495	CIB	1.6	0.64	1.9828	0.76
1218	24.15	CIB	2.01	0.54	1.9308	0.69
1090	24.1517	CIB	2.32	0.82	1.8991	0.64
553	24.1526	CIB	2.01	0.63	2.0063	0.67
926/929	24.1536	CIB	1.55	0.58	2.0603	0.74
1090	24.1567	CIB	2.14	0.76	1.9084	0.72
1090	24.1618	CIB	2.28	0.9	1.8177	0.75
926/929	24.1628	CIB	1.56	0.72	1.9234	0.79
1090	24.1668	CIB	2.08	0.81	1.7722	0.76
926/929	24.1668	CIB	1.56	0.76	1.8042	0.75
926/929	24.1712	CIB	1.54	0.58	1.7725	0.74

1090	24.1719	CIB	2.12	0.91	1.8652	0.73
926/929	24.1756	CIB	1.56	0.63	1.7752	0.68
1090	24.1769	CIB	2.02	0.73	1.8764	0.68
1218	24.18	CIB	2.05	0.59	1.9924	0.59
1218	24.18	CIB	0.52	2.0249	0.68	NA
926/929	24.18	CIB	1.63	0.53	1.8155	0.6
1090	24.1837	CIB	2.27	0.59	2.16	0.82
747	24.1841	CIB	2.15	1.17	2.0548	0.82
747	24.1841	CIB	2.17	1.25	2.0938	0.89
926/929	24.1866	CIB	1.63	0.57	1.9636	0.85
1090	24.1871	CIB	2.25	0.88	1.8652	0.7
926/929	24.1893	CIB	1.62	0.4	1.7712	0.61
926/929	24.1937	CIB	1.66	0.42	1.8067	0.58
563	24.195	CIB	1.7	0.8	1.6066	0.53
926/929	24.196	CIB	0.38	1.5682	0.57	NA
926/929	24.1985	CIB	1.45	0.64	1.5277	0.62
926/929	24.2004	CIB	1.47	0.62	1.5027	0.63
926/929	24.2031	CIB	1.5	0.69	1.4747	0.64
608	24.2044	CIB	1.6	0.82	1.5028	0.64
926/929	24.2077	CIB	1.36	0.45	1.5133	0.65
553	24.2091	CIB	1.59	0.61	1.6001	0.64
926/929	24.2098	CIB	1.52	0.67	1.5816	0.63
1218	24.21	CIB	1.93	0.66	1.6085	0.67
926/929	24.2124	CIB	1.51	0.75	1.6072	0.71
926/929	24.2147	CIB	1.5	0.67	1.5828	0.72
926/929	24.2167	CIB	1.58	0.8	1.5239	0.77
926/929	24.2214	CIB	1.4	0.73	1.5412	0.76
926/929	24.2244	CIB	1.64	0.89	1.6397	0.8
926/929	24.2275	CIB	1.59	0.71	1.731	0.78
704	24.2279	CIB	1.99	0.85	1.8719	0.83
1218	24.23	CIB	2.04	0.71	1.8643	0.78
1218	24.23	CIB	2.1	1	1.8609	0.78
926/929	24.2336	CIB	1.6	0.62	1.7858	0.74
926/929	24.2366	CIB	1.58	0.69	1.7157	0.72
926/929	24.2397	CIB	1.61	0.66	1.6344	0.68
926/929	24.2427	CIB	1.69	0.61	1.723	0.72
926/929	24.2458	CIB	1.69	0.83	1.7246	0.74
1218	24.25	CIB	2.04	0.83	1.7417	0.75
926/929	24.252	CIB	1.58	0.79	1.7917	0.8
608	24.2609	CIB	1.7	0.71	1.7725	0.79
1218	24.27	CIB	1.94	0.85	1.7885	0.85
926/929	24.287	CIB	1.6	0.77	1.7958	0.84
704	24.2891	CIB	2.12	1.12	1.8878	0.88
926/929	24.2899	CIB	1.62	0.73	1.8048	0.87
1218	24.29	CIB	2.16	0.94	1.8362	0.87
926/929	24.2928	CIB	1.52	0.78	1.7339	0.81
926/929	24.2957	CIB	1.76	0.76	1.8276	0.81
926/929	24.2985	CIB	1.61	0.85	1.7107	0.77
1218	24.3	CIB	2.09	0.72	1.7195	0.74
926/929	24.3014	CIB	1.58	0.76	1.7022	0.76
926/929	24.3043	CIB	1.57	0.63	1.8305	0.74
926/929	24.3072	CIB	1.67	0.82	1.7393	0.72
1218	24.31	CIB	2.25	0.76	1.7232	0.71
926/929	24.3101	CIB	1.63	0.64	1.8395	0.9
926/929	24.313	CIB	1.49	0.71	1.8113	0.85
588	24.3136	CIB	2.15	1.57	1.7093	0.91
926/929	24.3159	CIB	1.53	0.59	1.7132	0.9
558	24.3173	CIB	1.74	1.03	1.7384	0.87
926/929	24.3188	CIB	1.65	0.6	1.6964	0.74
926/929	24.3217	CIB	1.62	0.59	1.7015	0.73

360	24.322	CIB	1.94	0.91	1.5195	0.56
926/929	24.3245	CIB	1.55	0.53	1.5024	0.56
553	24.3267	CIB	0.83	0.17	1.4712	0.57
926/929	24.3274	CIB	1.57	0.62	1.3539	0.5
926/929	24.3303	CIB	1.46	0.61	1.3157	0.51
926/929	24.3332	CIB	0.59	1.5857	0.66	NA
360	24.3361	CIB	1.91	0.9	1.6788	0.69
926/929	24.3361	CIB	1.4	0.57	1.5399	0.65
926/929	24.339	CIB	1.39	0.57	1.647	0.69
563	24.3409	CIB	2.02	0.82	1.6403	0.67
926/929	24.3421	CIB	1.52	0.58	1.5803	0.63
926/929	24.3454	CIB	1.37	0.47	1.5954	0.6
608	24.3456	CIB	1.61	0.73	1.5234	0.61
926/929	24.3487	CIB	1.46	0.41	1.5243	0.61
588	24.35	CIB	1.66	0.87	1.6427	0.72
1218	24.35	CIB	0.57	1.8202	0.79	NA
360	24.3503	CIB	1.84	1.03	1.8125	0.96
704	24.3503	CIB	2.32	1.07	1.7601	0.87
754	24.3518	CIB	1.43	1.26	1.8421	1
926/929	24.352	CIB	1.45	0.43	1.7754	0.9
747	24.3549	CIB	2.17	1.21	1.6228	0.82
926/929	24.3552	CIB	1.51	0.54	1.7368	0.75
926/929	24.3585	CIB	1.56	0.66	1.7503	0.8
1218	24.36	CIB	2	0.89	1.6172	0.7
926/929	24.3618	CIB	1.52	0.68	1.6779	0.76
926/929	24.3651	CIB	1.5	0.74	1.7245	0.81
360	24.3691	CIB	1.81	0.85	1.6331	0.76
704	24.3691	CIB	1.79	0.87	1.7856	0.76
926/929	24.3694	CIB	1.54	0.68	1.8172	0.77
1218	24.37	CIB	2.28	0.68	1.8652	0.68
926/929	24.3743	CIB	1.66	0.76	1.8396	0.65
574	24.3764	CIB	2.05	0.4	2.089	0.72
926/929	24.3792	CIB	1.66	0.71	1.9903	0.71
558	24.3832	CIB	2.79	1.04	2.0278	0.68
926/929	24.384	CIB	1.79	0.62	1.9958	0.75
926/929	24.3889	CIB	1.85	0.61	2.0488	0.74
1218	24.39	CIB	1.89	1.8342	0.65	NA
926/929	24.3938	CIB	1.93	0.69	1.8229	0.7
926/929	24.3987	CIB	1.72	0.69	1.7845	0.72
608	24.402	CIB	1.73	0.8	1.7493	0.72
926/929	24.4036	CIB	1.66	0.71	1.7678	0.74
926/929	24.4085	CIB	1.71	0.7	1.8368	0.76
1218	24.41	CIB	2.02	0.79	1.8358	0.73
1218	24.41	CIB	2.06	0.78	1.8104	0.71
926/929	24.4134	CIB	1.72	0.65	1.9195	0.71
926/929	24.4183	CIB	1.53	0.64	1.8795	0.67
1218	24.42	CIB	2.26	1.7916	0.63	NA
558	24.4208	CIB	1.82	0.6	1.759	0.61
926/929	24.4232	CIB	1.62	0.62	1.7606	0.57
926/929	24.4281	CIB	1.56	0.59	1.64	0.57
926/929	24.433	CIB	1.54	0.44	1.754	0.6
926/929	24.4379	CIB	1.66	0.57	1.7711	0.59
1218	24.44	CIB	2.39	0.76	1.7854	0.6
926/929	24.4428	CIB	1.71	0.58	1.9557	0.66
926/929	24.4476	CIB	1.63	0.63	1.9218	0.66
1218	24.45	CIB	2.39	0.76	1.8048	0.56
926/929	24.4525	CIB	1.49	0.55	1.8133	0.57
926/929	24.4574	CIB	1.8	0.3	1.9405	0.58
608	24.4585	CIB	1.75	0.6	1.7698	0.57
1218	24.46	CIB	2.27	0.67	1.7952	0.58

926/929	24.4626	CIB	1.54	0.75	1.8582	0.68
926/929	24.4677	CIB	1.61	0.61	1.9622	0.81
563	24.4679	CIB	2.12	0.78	1.8255	0.78
747	24.4719	CIB	2.27	1.24	1.9681	0.77
926/929	24.4781	CIB	1.59	0.53	2.1093	0.81
77	24.48	CIB	2.25	0.7	2.0451	0.81
77	24.48	CIB	2.32	0.79	1.9389	0.69
926/929	24.4832	CIB	1.8	1.9532	0.62	NA
926/929	24.4878	CIB	1.74	0.72	1.9072	0.56
926/929	24.4884	CIB	1.66	0.26	1.7772	0.53
1218	24.49	CIB	2.02	0.48	1.8032	0.5
926/929	24.4917	CIB	1.67	0.66	1.8178	0.48
926/929	24.4926	CIB	1.93	0.39	1.8392	0.56
926/929	24.4956	CIB	1.81	0.62	1.785	0.57
926/929	24.4995	CIB	1.76	0.63	1.861	0.55
926/929	24.5072	CIB	1.75	0.57	1.9052	0.63
1218	24.51	CIB	2.05	0.55	1.9012	0.67
608	24.5103	CIB	2.15	0.78	1.9042	0.69
926/929	24.5111	CIB	1.79	0.8	1.9284	0.7
926/929	24.515	CIB	1.78	0.74	1.8958	0.72
926/929	24.5189	CIB	1.87	0.66	1.8294	0.69
926/929	24.5228	CIB	1.89	0.61	1.871	0.64
926/929	24.5266	CIB	1.82	0.63	1.8386	0.6
1218	24.53	CIB	2	0.56	1.9306	0.64
926/929	24.5305	CIB	1.62	0.54	1.8992	0.62
360	24.5338	CIB	2.33	0.85	1.9195	0.64
926/929	24.5349	CIB	1.73	0.52	1.811	0.63
1218	24.54	CIB	0.76	1.706	0.57	NA
926/929	24.5407	CIB	1.57	0.46	1.5113	0.5
926/929	24.5477	CIB	1.2	0.25	1.4753	0.49
926/929	24.5518	CIB	1.55	0.49	1.4724	0.41
926/929	24.5576	CIB	1.59	0.5	1.5194	0.43
926/929	24.5635	CIB	1.46	0.36	1.517	0.45
926/929	24.5693	CIB	1.8	0.55	1.6132	0.51
926/929	24.5699	CIB	1.19	0.36	1.64	0.54
926/929	24.5757	CIB	2.03	0.76	1.7852	0.59
558	24.5761	CIB	1.72	0.66	1.6816	0.57
1218	24.58	CIB	2.19	0.63	1.671	0.56
926/929	24.5816	CIB	1.28	0.44	1.6786	0.58
926/929	24.5874	CIB	1.13	0.29	1.6526	0.6
747	24.589	CIB	2.07	0.87	1.6012	0.63
926/929	24.5932	CIB	1.59	0.74	1.686	0.7
563	24.5949	CIB	1.93	0.82	1.8024	0.8
926/929	24.5991	CIB	1.71	0.76	1.737	0.77
926/929	24.6049	CIB	1.71	0.82	1.7822	0.76
926/929	24.6107	CIB	1.74	0.71	1.7282	0.75
926/929	24.6177	CIB	1.82	0.71	1.7868	0.8
926/929	24.6224	CIB	1.66	0.74	1.7816	0.75
704	24.6279	CIB	2	1.02	1.7474	0.73
926/929	24.6282	CIB	1.69	0.59	1.7486	0.71
926/929	24.6341	CIB	1.57	0.6	1.8418	0.71
926/929	24.6399	CIB	1.82	0.62	1.8358	0.66
1218	24.64	CIB	2.13	0.73	1.8418	0.67
747	24.6427	CIB	1.97	0.77	1.8454	0.68
926/929	24.6456	CIB	1.72	0.61	1.7922	0.68
926/929	24.6499	CIB	1.59	0.65	1.6658	0.66
926/929	24.6541	CIB	1.56	0.63	1.5684	0.63
926/929	24.6583	CIB	1.49	0.62	1.5786	0.64
926/929	24.6625	CIB	1.48	0.63	1.6934	0.6
926/929	24.6668	CIB	1.77	0.67	1.7314	0.58

1218	24.67	CIB	2.16	0.45	1.7832	0.54
926/929	24.671	CIB	1.75	0.51	1.822	0.51
926/929	24.6752	CIB	1.75	0.43	1.844	0.57
926/929	24.6794	CIB	1.68	0.47	1.7591	0.63
704	24.6891	CIB	1.88	0.98	1.7784	0.59
926/929	24.6902	CIB	1.74	0.74	1.7892	0.63
926/929	24.6932	CIB	1.84	0.3	1.8131	0.67
926/929	24.6961	CIB	1.81	0.63	1.8271	0.59
926/929	24.6991	CIB	1.8	0.68	1.8441	0.61
1218	24.7	CIB	1.95	0.61	1.8696	0.68
926/929	24.7021	CIB	1.82	0.83	1.8913	0.69
926/929	24.7051	CIB	1.97	0.62	1.916	0.69
926/929	24.708	CIB	1.92	0.7	1.9162	0.69
926/929	24.711	CIB	1.92	0.7	1.9307	0.65
926/929	24.714	CIB	1.95	0.62	1.8781	0.66
926/929	24.7169	CIB	1.9	0.62	1.8545	0.67
926/929	24.7206	CIB	1.71	0.66	1.8093	0.68
926/929	24.7249	CIB	1.8	0.75	1.7516	0.72
926/929	24.7293	CIB	1.69	0.76	1.8281	0.87
926/929	24.7336	CIB	1.66	0.84	1.8589	0.89
563	24.737	CIB	2.28	1.34	1.8854	0.93
926/929	24.738	CIB	1.86	0.75	1.8526	0.92
747	24.7387	CIB	1.93	0.96	1.9011	0.87
926/929	24.7423	CIB	1.53	0.72	1.8531	0.79
926/929	24.7467	CIB	1.9	0.6	1.8501	0.76
558	24.747	CIB	2.04	0.93	1.8561	0.72
926/929	24.751	CIB	1.85	0.59	1.9177	0.69
704	24.752	CIB	1.96	0.75	1.9422	0.66
926/929	24.7554	CIB	1.84	0.57	1.9683	0.57
926/929	24.7597	CIB	2.03	0.47	1.9762	0.6
926/929	24.764	CIB	2.17	0.5	1.9351	0.55
926/929	24.7682	CIB	1.89	0.71	1.9316	0.59
926/929	24.7723	CIB	1.75	0.52	1.9738	0.62
926/929	24.7765	CIB	1.82	0.74	1.9036	0.67
1218	24.78	CIB	2.24	1.906	0.67	NA
926/929	24.7807	CIB	1.82	0.72	1.9386	0.7
926/929	24.7849	CIB	1.9	0.68	1.9706	0.67
926/929	24.7891	CIB	1.92	0.66	1.873	0.78
926/929	24.7933	CIB	1.98	0.61	1.9101	0.75
754	24.7948	CIB	1.75	1.23	1.9292	0.72
926/929	24.7975	CIB	2	0.57	1.9412	0.67
926/929	24.8017	CIB	1.99	0.52	2.0491	0.67
926/929	24.8059	CIB	1.98	0.44	2.0816	0.52
1218	24.81	CIB	2.52	0.6	2.0808	0.59
926/929	24.8101	CIB	1.91	0.47	2.0652	0.56
563	24.8106	CIB	2	0.9	2.0406	0.56
926/929	24.8143	CIB	1.92	0.38	1.9207	0.47
926/929	24.8182	CIB	1.85	0.43	1.8882	0.49
926/929	24.8219	CIB	0.16	1.7857	0.41	NA
926/929	24.8255	CIB	1.78	0.57	1.7078	0.39
926/929	24.8291	CIB	1.59	0.49	1.6471	0.37
926/929	24.8327	CIB	1.6	0.29	1.6753	0.43
926/929	24.8364	CIB	1.61	0.33	1.6655	0.4
926/929	24.84	CIB	1.79	0.46	1.7892	0.4
926/929	24.8448	CIB	1.73	0.4	1.7851	0.4
1218	24.85	CIB	2.21	0.49	1.8667	0.53
926/929	24.8504	CIB	1.58	0.31	1.8324	0.51
747	24.8538	CIB	2.02	0.96	1.7729	0.52
926/929	24.8559	CIB	1.62	0.37	1.6732	0.55
926/929	24.8615	CIB	1.44	0.46	1.6864	0.56

926/929	24.8671	CIB	1.71	0.63	1.6149	0.48
926/929	24.8726	CIB	1.65	0.37	1.6284	0.46
926/929	24.8767	CIB	1.66	0.55	1.6811	0.45
926/929	24.8793	CIB	1.68	0.31	1.7398	0.42
926/929	24.8818	CIB	1.7	0.4	1.7911	0.44
926/929	24.8844	CIB	2	0.44	1.8311	0.45
926/929	24.8871	CIB	1.91	0.49	1.8466	0.52
926/929	24.8899	CIB	1.86	0.63	1.8628	0.6
926/929	24.8928	CIB	1.76	0.66	1.8163	0.65
926/929	24.8956	CIB	1.78	0.78	1.7939	0.66
926/929	24.8984	CIB	1.77	0.7	1.7957	0.67
1218	24.9	CIB	0.51	1.8205	0.67	NA
926/929	24.9012	CIB	1.87	0.7	1.8734	0.65
926/929	24.904	CIB	1.86	0.68	1.9431	0.6
926/929	24.9069	CIB	1.99	0.63	1.9796	0.58
926/929	24.9097	CIB	2.05	0.46	1.9986	0.51
926/929	24.9125	CIB	2.13	0.41	2.0625	0.43
926/929	24.9153	CIB	1.96	0.35	2.0643	0.36
574	24.9176	CIB	2.18	0.28	2.0285	0.32
926/929	24.9181	CIB	2	0.32	1.9434	0.3
926/929	24.921	CIB	1.87	0.24	1.9014	0.31
926/929	24.9238	CIB	1.7	0.3	1.7961	0.34
926/929	24.9266	CIB	1.75	0.4	1.7105	0.34
926/929	24.9294	CIB	1.65	0.41	1.837	0.39
926/929	24.9394	CIB	1.57	0.36	1.8062	0.4
1218	24.94	CIB	2.5	0.5	1.7966	0.41
926/929	24.9494	CIB	1.55	0.33	1.8194	0.41
926/929	24.9594	CIB	1.71	0.43	1.8594	0.41
926/929	24.9634	CIB	1.77	0.42	1.7521	0.35
926/929	24.9674	CIB	1.77	0.37	1.7691	0.35
926/929	24.9714	CIB	1.97	0.23	1.8699	0.39
926/929	24.9754	CIB	1.63	0.33	1.8654	0.38
558	24.9755	CIB	2.21	0.59	1.9605	0.39
926/929	24.9794	CIB	1.74	0.4	1.9107	0.48
1218	24.98	CIB	2.25	1.9209	0.53	NA
926/929	24.9829	CIB	1.72	0.59	1.8091	0.51
926/929	24.9863	CIB	1.68	0.55	1.8121	0.57
926/929	24.9898	CIB	1.65	0.52	1.7099	0.53
926/929	24.9932	CIB	1.76	0.62	1.7091	0.52
926/929	25.0005	CIB	1.74	0.39	1.7338	0.48
926/929	25.0005	CIB	1.71	0.53	1.7311	0.47
926/929	25.0045	CIB	1.81	0.33	1.7001	0.44
926/929	25.0045	CIB	1.64	0.48	1.8343	0.46
926/929	25.0086	CIB	1.6	0.48	1.8917	0.57
1218	25.01	CIB	2.41	0.46	1.8792	0.62
747	25.0265	CIB	2	1.11	1.8848	0.66
926/929	25.0371	CIB	1.74	0.58	1.9153	0.65
926/929	25.0412	CIB	1.67	0.65	1.8034	0.66
926/929	25.0452	CIB	1.76	0.47	1.7557	0.53
926/929	25.0493	CIB	1.85	0.52	1.7466	0.5
926/929	25.0534	CIB	1.76	0.44	1.84	0.48
926/929	25.0574	CIB	1.7	0.44	1.8805	0.5
1218	25.06	CIB	2.13	0.53	1.9083	0.52
77	25.0601	CIB	1.96	0.56	1.8954	0.55
77	25.0601	CIB	1.99	0.64	1.9101	0.56
926/929	25.0604	CIB	1.7	0.6	1.8411	0.57
926/929	25.0634	CIB	1.77	0.49	1.8314	0.57
926/929	25.0664	CIB	1.79	0.55	1.8137	0.55
926/929	25.0694	CIB	1.91	0.59	1.8911	0.54
926/929	25.0724	CIB	1.9	0.54	1.9323	0.54

926/929	25.0754	CIB	2.08	0.54	1.9747	0.51
926/929	25.0784	CIB	1.98	0.47	2.0077	0.47
926/929	25.0814	CIB	2	0.42	2.0294	0.42
926/929	25.0844	CIB	2.08	0.37	1.9684	0.39
926/929	25.0874	CIB	2.01	0.29	1.9585	0.4
926/929	25.0937	CIB	1.78	0.41	1.9317	0.43
926/929	25.097	CIB	1.93	0.5	1.8734	0.44
926/929	25.1035	CIB	1.87	0.57	1.9494	0.49
926/929	25.1068	CIB	1.78	0.45	1.8995	0.46
1218	25.11	CIB	2.39	0.54	1.8906	0.44
926/929	25.1101	CIB	1.53	0.26	1.8631	0.39
926/929	25.1133	CIB	1.88	0.41	1.8542	0.39
926/929	25.1166	CIB	1.73	0.28	1.7336	0.38
926/929	25.1199	CIB	1.74	0.47	1.7524	0.4
926/929	25.1264	CIB	1.79	0.5	1.7104	0.42
926/929	25.1307	CIB	1.62	0.32	1.702	0.42
926/929	25.1354	CIB	1.67	0.51	1.7601	0.55
926/929	25.1401	CIB	1.69	0.31	1.7238	0.55
747	25.1417	CIB	2.03	1.12	1.751	0.61
926/929	25.1447	CIB	1.61	0.51	1.7424	0.62
926/929	25.1494	CIB	1.76	0.6	1.7074	0.66
926/929	25.1531	CIB	1.63	0.54	1.6038	0.49
926/929	25.1587	CIB	1.51	0.52	1.599	0.51
926/929	25.1631	CIB	1.51	0.29	1.6194	0.5
926/929	25.1674	CIB	1.58	0.59	1.6774	0.51
926/929	25.1717	CIB	1.86	0.53	1.718	0.53
926/929	25.176	CIB	1.92	0.64	1.7904	0.6
926/929	25.1803	CIB	1.71	0.6	1.789	0.61
926/929	25.1846	CIB	1.87	0.65	1.7892	0.62
926/929	25.1889	CIB	1.57	0.65	1.7782	0.62
926/929	25.1932	CIB	1.86	0.59	1.8694	0.62
926/929	25.1975	CIB	1.86	0.59	1.8796	0.59
563	25.2013	CIB	2.17	0.63	1.9444	0.55
926/929	25.2018	CIB	1.92	0.5	2.0198	0.54
926/929	25.2061	CIB	1.9	0.46	1.9772	0.5
1218	25.21	CIB	2.24	0.54	1.8664	0.47
926/929	25.2105	CIB	1.65	0.35	1.8134	0.45
926/929	25.2184	CIB	1.62	0.5	1.7612	0.41
926/929	25.2231	CIB	1.66	0.4	1.6358	0.38
926/929	25.2281	CIB	1.64	0.28	1.6268	0.37
926/929	25.2328	CIB	1.61	0.38	1.682	0.34
926/929	25.2374	CIB	1.61	0.31	1.7386	0.32
926/929	25.242	CIB	1.89	0.35	1.839	0.37
926/929	25.2467	CIB	1.94	0.29	1.84	0.38
1218	25.25	CIB	2.14	0.51	2.0066	0.46
926/929	25.2559	CIB	1.62	0.46	1.9414	0.5
1218	25.26	CIB	2.44	0.67	1.8858	0.54
926/929	25.2606	CIB	1.57	0.58	1.7918	0.55
926/929	25.2656	CIB	1.66	0.49	1.7992	0.56
926/929	25.2698	CIB	1.67	0.58	1.6992	0.55
926/929	25.2746	CIB	1.65	0.48	1.7802	0.55
926/929	25.2795	CIB	1.94	0.63	1.8312	0.54
926/929	25.2844	CIB	1.97	0.56	1.9012	0.54
77	25.2881	CIB	1.92	0.45	1.9504	0.57
77	25.2881	CIB	2.02	0.56	2.0084	0.5
926/929	25.2884	CIB	1.9	0.64	1.9644	0.52
1218	25.29	CIB	2.23	0.29	1.921	0.53
926/929	25.2943	CIB	1.75	0.64	1.8812	0.53
926/929	25.2992	CIB	1.7	0.5	1.8652	0.49
926/929	25.309	CIB	1.82	0.57	1.7932	0.67

926/929	25.3139	CIB	1.82	0.44	1.7772	0.63
747	25.3144	CIB	1.87	1.18	1.7566	0.61
926/929	25.3188	CIB	1.67	0.46	1.7276	0.59
926/929	25.3237	CIB	1.6	0.39	1.8794	0.67
926/929	25.3287	CIB	1.68	0.47	1.8378	0.51
748	25.3306	CIB	2.58	0.82	1.8296	0.49
926/929	25.3337	CIB	1.66	0.4	1.9876	0.53
926/929	25.3387	CIB	1.63	0.38	1.9376	0.5
1218	25.34	CIB	2.39	0.6	1.7252	0.42
926/929	25.3437	CIB	1.43	0.3	1.7334	0.45
926/929	25.3487	CIB	1.52	0.42	1.7638	0.46
926/929	25.3537	CIB	1.7	0.55	1.611	0.41
926/929	25.3587	CIB	1.78	0.42	1.686	0.46
926/929	25.3627	CIB	1.63	0.38	1.7508	0.53
926/929	25.3687	CIB	1.8	0.55	1.7484	0.57
926/929	25.3737	CIB	1.84	0.76	1.74	0.49
926/929	25.3787	CIB	1.69	0.75	1.7632	0.55
1218	25.38	CIB	0.03	1.7947	0.58	NA
926/929	25.3842	CIB	1.72	0.64	1.8175	0.56
926/929	25.3887	CIB	1.93	0.74	1.8755	0.55
926/929	25.3937	CIB	1.93	0.64	1.8442	0.67
926/929	25.3991	CIB	1.92	0.68	1.9364	0.63
926/929	25.4058	CIB	1.72	0.64	1.8872	0.57
1218	25.41	CIB	2.18	0.45	1.8092	0.58
926/929	25.4124	CIB	1.68	0.45	1.7034	0.54
926/929	25.4244	CIB	1.54	0.66	1.7206	0.55
926/929	25.4324	CIB	1.39	0.5	1.6286	0.61
926/929	25.439	CIB	1.8	0.68	1.6754	0.63
754	25.4444	CIB	1.72	0.78	1.746	0.61
926/929	25.447	CIB	1.91	0.55	1.8498	0.64
926/929	25.4505	CIB	1.9	0.54	1.8928	0.67
926/929	25.4524	CIB	1.91	0.65	1.9568	0.67
926/929	25.4542	CIB	2.02	0.85	1.98	0.75
926/929	25.4559	CIB	2.04	0.75	1.9972	0.74
926/929	25.4576	CIB	2.03	0.95	2.0424	0.74
926/929	25.4594	CIB	1.98	0.49	2.0428	0.75
1218	25.46	CIB	2.14	0.66	2.0624	0.79
926/929	25.4611	CIB	2.02	0.89	1.9942	0.72
926/929	25.4628	CIB	2.14	0.98	2.0292	0.78
926/929	25.464	CIB	1.69	0.61	2.0186	0.78
926/929	25.471	CIB	2.16	1.9946	0.7	NA
926/929	25.4744	CIB	2.09	0.63	1.9858	0.67
926/929	25.4799	CIB	1.9	0.59	2.1158	0.72
926/929	25.4853	CIB	2.09	0.84	2.1055	0.74
748	25.4943	CIB	2.34	0.8	2.084	0.76
926/929	25.4963	CIB	0.82	2.1286	0.81	NA
77	25.4985	CIB	2	0.72	2.185	0.78
77	25.4985	CIB	2.08	0.86	2.1201	0.79
1218	25.5	CIB	2.32	0.69	2.0814	0.75
926/929	25.5002	CIB	2.08	0.87	2.1059	0.77
926/929	25.5033	CIB	1.93	0.6	2.1261	0.78
926/929	25.5063	CIB	2.12	0.85	2.0831	0.82
926/929	25.5093	CIB	2.18	0.88	2.0606	0.83
926/929	25.5123	CIB	2.11	0.91	2.0881	0.89
926/929	25.5153	CIB	1.97	0.93	2.0774	0.9
926/929	25.5183	CIB	2.06	0.88	2.2272	1.02
926/929	25.5213	CIB	2.07	0.88	2.1944	1
744	25.5252	CIB	2.93	1.51	2.1868	0.99
926/929	25.5274	CIB	1.94	0.82	2.1773	0.96
558	25.5323	CIB	1.93	0.86	2.1609	0.94

926/929	25.5334	CIB	2.02	0.7	1.968	0.77
926/929	25.5364	CIB	1.99	0.79	2.0337	0.76
926/929	25.5394	CIB	1.97	0.7	2.0213	0.74
1218	25.54	CIB	2.27	0.76	1.9653	0.76
926/929	25.5422	CIB	1.87	0.77	1.9512	0.75
926/929	25.5449	CIB	1.74	0.79	2.1461	0.88
926/929	25.5476	CIB	1.92	0.7	2.0635	0.92
744	25.5477	CIB	2.94	1.4	2.0926	0.93
926/929	25.5503	CIB	1.86	0.91	2.1363	0.93
926/929	25.5531	CIB	2.01	0.84	2.17	0.97
926/929	25.5562	CIB	1.96	0.81	2.0027	0.85
926/929	25.5597	CIB	2.09	0.87	2.0381	0.84
926/929	25.5633	CIB	2.1	0.81	2.0194	0.82
926/929	25.5668	CIB	2.03	0.86	2.0317	0.82
926/929	25.5704	CIB	1.92	0.78	2.015	0.83
926/929	25.5739	CIB	2.02	0.77	1.9772	0.85
926/929	25.5774	CIB	2	0.92	1.9165	0.77
926/929	25.5803	CIB	1.91	0.93	1.9172	0.79
563	25.5827	CIB	1.73	0.46	1.8973	0.81
926/929	25.5831	CIB	1.92	0.88	1.8627	0.81
926/929	25.586	CIB	1.92	0.88	1.9677	0.82
926/929	25.5893	CIB	1.83	0.89	2.0194	0.9
744	25.5926	CIB	2.44	0.99	2.0069	0.9
926/929	25.5929	CIB	1.99	0.88	1.9887	0.89
926/929	25.5966	CIB	1.86	0.86	2.029	0.89
926/929	25.6001	CIB	1.83	0.8	1.8865	0.84
747	25.6022	CIB	2.03	0.91	1.8117	0.79
926/929	25.6035	CIB	1.73	0.74	1.8595	0.77
926/929	25.6069	CIB	1.61	0.65	1.844	0.75
77	25.6071	CIB	2.1	0.74	1.7886	0.74
926/929	25.6103	CIB	1.75	0.72	1.9611	0.83
926/929	25.6137	CIB	1.75	0.85	1.9612	0.78
744	25.615	CIB	2.59	1.2	1.8771	0.79
926/929	25.6178	CIB	1.61	0.4	1.8707	0.79
926/929	25.6226	CIB	1.68	1.8429	0.78	NA
926/929	25.6274	CIB	1.72	0.71	1.8149	0.79
926/929	25.6322	CIB	1.61	0.8	1.8378	0.9
744	25.6345	CIB	2.45	1.23	1.8747	0.9
926/929	25.637	CIB	1.73	0.85	2.0414	1.02
926/929	25.6415	CIB	1.86	0.92	2.0811	1
744	25.6422	CIB	2.55	1.33	1.9494	0.89
926/929	25.6457	CIB	1.81	0.68	2.1036	0.94
926/929	25.6499	CIB	1.79	0.67	2.2028	0.93
744	25.651	CIB	2.5	1.09	2.2128	0.9
748	25.6548	CIB	2.36	0.9	2.1857	0.87
744	25.6575	CIB	2.6	1.16	2.3234	0.91
926/929	25.6583	CIB	1.68	0.55	2.2793	0.84
1218	25.66	CIB	2.48	0.87	2.3568	0.87
926/929	25.6627	CIB	0.7	2.0976	0.8	NA
744	25.6651	CIB	2.67	1.07	2.0233	0.78
926/929	25.6671	CIB	1.56	0.81	1.8181	0.77
558	25.6678	CIB	1.38	0.44	1.9485	0.82
926/929	25.6715	CIB	1.66	0.84	1.8025	0.73
744	25.6724	CIB	2.47	0.92	1.8425	0.72
563	25.6736	CIB	1.94	0.63	2.0725	0.8
926/929	25.676	CIB	1.76	0.79	2.0697	0.78
744	25.6804	CIB	2.53	0.81	1.944	0.75
926/929	25.6804	CIB	1.64	0.77	1.9442	0.77
926/929	25.6849	CIB	1.84	0.75	2.0695	0.68
926/929	25.6893	CIB	1.94	0.74	2.2095	0.65

1218	25.69	CIB	2.39	0.34	2.3925	0.66
690	25.691	CIB	3.23	0.64	2.401	0.66
744	25.6919	CIB	2.56	0.82	2.5348	0.71
926/929	25.6938	CIB	1.88	0.77	2.4122	0.77
744	25.6953	CIB	2.61	0.98	2.0914	0.79
926/929	25.6982	CIB	1.78	0.64	2.0494	0.81
926/929	25.7027	CIB	1.63	0.75	2.0116	0.79
744	25.7034	CIB	2.35	0.89	1.9616	0.78
926/929	25.7071	CIB	1.69	0.7	1.941	0.8
744	25.711	CIB	2.36	0.92	1.9773	0.76
926/929	25.7116	CIB	1.67	0.73	1.9893	0.76
926/929	25.716	CIB	1.81	0.57	1.9899	0.74
744	25.719	CIB	2.41	0.86	1.8522	0.68
926/929	25.7205	CIB	1.7	0.61	1.9973	0.75
926/929	25.725	CIB	1.67	0.63	1.9675	0.74
744	25.7252	CIB	2.4	1.1	1.9355	0.66
926/929	25.7294	CIB	1.66	0.5	1.9465	0.66
1218	25.73	CIB	2.25	0.45	1.9797	0.67
926/929	25.7332	CIB	1.75	0.62	2.1077	0.56
926/929	25.7369	CIB	1.84	0.66	2.124	0.58
690	25.7374	CIB	3.04	0.57	2.16	0.71
926/929	25.7407	CIB	1.74	0.58	2.1318	0.73
744	25.7416	CIB	2.43	1.11	2.0888	0.77
926/929	25.7444	CIB	1.61	0.75	1.9628	0.88
926/929	25.7482	CIB	1.62	0.83	1.953	0.94
744	25.7496	CIB	2.41	1.14	1.8036	0.88
926/929	25.7519	CIB	1.69	0.86	1.9773	0.96
926/929	25.7557	CIB	1.68	0.83	1.9914	0.92
744	25.7573	CIB	2.48	1.15	1.8524	0.81
926/929	25.7594	CIB	1.69	0.64	1.9982	0.86
926/929	25.7631	CIB	1.71	0.56	2.0516	0.81
744	25.7657	CIB	2.42	1.13	2.0016	0.74
558	25.7664	CIB	1.95	0.55	2.0514	0.73
1218	25.77	CIB	2.23	0.8	2.1884	0.81
926/929	25.7704	CIB	1.94	0.61	2.0188	0.71
744	25.7722	CIB	2.4	0.94	1.9382	0.81
926/929	25.7748	CIB	1.57	0.63	1.9882	0.86
926/929	25.7791	CIB	1.55	1.07	1.9884	0.98
744	25.7798	CIB	2.48	1.06	2.1604	0.9
926/929	25.7834	CIB	1.94	1.18	2.221	0.99
690	25.7838	CIB	3.26	0.57	2.4316	0.98
926/929	25.7867	CIB	1.88	1.08	2.4196	0.92
744	25.7875	CIB	2.6	1.02	2.3954	0.87
1218	25.79	CIB	0.78	2.1504	0.91	NA
926/929	25.79	CIB	1.85	0.93	2.1935	0.91
77	25.7916	CIB	2.28	0.77	2.116	0.88
926/929	25.7933	CIB	2.05	1.05	2.121	0.85
744	25.7951	CIB	2.29	0.89	2.2059	0.83
926/929	25.7966	CIB	2.14	0.6	2.157	0.84
926/929	25.7999	CIB	2.27	0.85	2.1449	0.78
926/929	25.8031	CIB	2.04	0.8	2.0983	0.75
926/929	25.8031	CIB	1.99	0.74	2.1151	0.81
926/929	25.8069	CIB	2.06	0.77	2.106	0.82
1218	25.81	CIB	2.22	0.89	2.1452	0.85
1218	25.81	CIB	2.22	0.89	2.2418	0.88
926/929	25.8111	CIB	2.23	0.98	2.2291	0.94
748	25.8153	CIB	2.47	0.91	2.2581	0.95
926/929	25.8159	CIB	1.99	1.05	2.2951	0.96
744	25.8173	CIB	2.37	0.91	2.2755	0.98
1218	25.82	CIB	2.41	2.2084	0.77	NA

926/929	25.8206	CIB	2.13	1.07	2.262	0.57
926/929	25.8253	CIB	2.13	0.06	2.2251	0.47
926/929	25.83	CIB	0.22	2.2726	0.61	NA
926/929	25.8347	CIB	2.22	0.54	2.2598	0.55
744	25.839	CIB	2.6	1.16	2.2592	0.7
926/929	25.8394	CIB	2.08	0.78	2.2849	0.78
926/929	25.8426	CIB	2.13	0.82	2.3005	0.71
926/929	25.8457	CIB	2.39	0.63	2.155	0.58
926/929	25.8489	CIB	0.17	2.1524	0.62	NA
926/929	25.852	CIB	2.02	0.52	2.2595	0.67
926/929	25.8552	CIB	2.07	0.98	2.2003	0.71
744	25.8576	CIB	2.56	1.07	2.2542	0.84
926/929	25.8583	CIB	2.15	0.81	2.2708	0.94
1218	25.86	CIB	2.47	0.82	2.3024	0.79
926/929	25.8615	CIB	2.1	1.01	2.2391	0.54
926/929	25.8646	CIB	2.23	0.22	2.2739	0.45
926/929	25.8678	CIB	2.24	-0.16	2.1774	0.38
926/929	25.8709	CIB	2.33	0.36	2.2016	0.27
926/929	25.8741	CIB	1.99	0.46	2.2496	0.43
926/929	25.8773	CIB	2.22	0.46	2.2511	0.64
744	25.8783	CIB	2.47	1.05	2.2733	0.72
1218	25.88	CIB	0.86	2.3283	0.82	NA
926/929	25.8804	CIB	2.41	0.77	2.1978	0.97
926/929	25.8867	CIB	2.21	0.95	2.0831	0.93
754	25.8874	CIB	1.7	1.22	2.0545	0.94
926/929	25.8899	CIB	2.01	0.86	2.0237	0.91
747	25.8901	CIB	1.94	0.92	1.9888	0.72
77	25.8918	CIB	2.26	0.6	2.0377	0.65
926/929	25.8931	CIB	2.03	-0.02	2.1315	0.7
926/929	25.8964	CIB	1.94	0.89	2.1089	0.61
744	25.8989	CIB	2.48	1.1	2.1209	0.62
926/929	25.8997	CIB	1.83	0.47	2.2063	0.74
1218	25.9	CIB	2.32	0.64	2.1964	0.68
1218	25.9	CIB	2.46	0.6	2.137	0.52
926/929	25.903	CIB	1.9	0.57	2.1765	0.56
926/929	25.9063	CIB	2.18	0.31	2.1698	0.52
926/929	25.9096	CIB	2.02	0.69	2.1068	0.45
926/929	25.9129	CIB	2.29	0.42	2.1241	0.49
926/929	25.9162	CIB	2.14	0.26	2.1615	0.59
926/929	25.9195	CIB	1.98	0.76	2.1883	0.65
744	25.9196	CIB	2.37	0.83	2.185	0.72
1218	25.92	CIB	2.16	0.98	2.1983	0.76
926/929	25.9228	CIB	2.27	0.77	2.2817	0.71
926/929	25.9261	CIB	2.21	0.49	2.2155	0.56
926/929	25.9293	CIB	2.4	0.5	2.2329	0.41
926/929	25.9326	CIB	2.04	0.07	2.1875	0.4
926/929	25.9359	CIB	2.24	0.24	2.3405	0.44
926/929	25.9392	CIB	2.04	0.69	2.3607	0.51
1218	25.94	CIB	2.98	0.71	2.4083	0.45
744	25.9402	CIB	2.5	0.86	2.374	0.43
926/929	25.9471	CIB	2.28	-0.24	2.3587	0.41
926/929	25.9517	CIB	2.07	0.11	2.2305	0.44
926/929	25.9563	CIB	1.97	0.59	2.1885	0.38
1218	25.96	CIB	2.33	0.89	2.1812	0.54
744	25.9609	CIB	2.29	0.57	2.1578	0.51
926/929	25.961	CIB	2.24	0.55	2.137	0.33
926/929	25.9656	CIB	1.96	-0.04	2.174	0.29
926/929	25.9698	CIB	1.86	-0.33	2.1092	0.23
748	25.9725	CIB	2.52	0.73	2.0338	0.18
926/929	25.9738	CIB	1.97	0.23	2.1814	0.31

926/929	25.9777	CIB	1.86	0.31	2.3088	0.54
1218	25.98	CIB	2.69	0.59	2.1718	0.56
744	25.9815	CIB	2.5	0.84	2.3726	0.64
926/929	25.9817	CIB	1.83	0.83	2.4042	0.67
690	25.9893	CIB	2.97	0.62	2.2357	0.63
926/929	25.9896	CIB	2.02	0.48	2.1068	0.62
926/929	25.9936	CIB	1.85	0.4	2.2218	0.61
926/929	25.9976	CIB	1.86	0.76	2.0762	0.5
1218	26	CIB	2.41	0.77	2.1778	0.55
926/929	26.0015	CIB	2.24	0.06	2.1848	0.54
744	26.0042	CIB	2.53	0.73	2.4057	0.53
926/929	26.0055	CIB	1.89	0.35	2.2981	0.4
689	26.007	CIB	2.96	0.74	2.2645	0.54
926/929	26.0094	CIB	1.87	0.09	2.2113	0.33
1218	26.01	CIB	2.07	0.77	2.2254	0.16
926/929	26.0132	CIB	2.26	-0.29	2.1134	0.16
926/929	26.0168	CIB	1.96	-0.53	2.1399	0.26
744	26.0228	CIB	2.4	0.75	2.0879	0.06
926/929	26.024	CIB	2	0.58	2.1317	0.25
926/929	26.0276	CIB	1.81	-0.22	2.0431	0.44
1218	26.03	CIB	2.48	0.67	2.1031	0.45
926/929	26.0312	CIB	1.51	0.43	2.0261	0.37
689	26.032	CIB	2.7	0.79	2.0256	0.45
926/929	26.0348	CIB	1.62	0.15	1.9916	0.41
926/929	26.0384	CIB	1.81	0.19	2.2047	0.46
1218	26.04	CIB	2.31	0.5	2.0115	0.41
1218	26.04	CIB	2.58	0.66	2.1936	0.54
926/929	26.042	CIB	1.73	0.55	2.2002	0.52
744	26.0435	CIB	2.53	0.78	2.1776	0.37
926/929	26.0451	CIB	1.84	0.12	2.0281	0.34
926/929	26.0479	CIB	2.2	-0.28	2.2554	0.4
926/929	26.0506	CIB	1.83	0.56	2.0504	0.35
689	26.051	CIB	2.87	0.81	2.0283	0.48
926/929	26.0534	CIB	1.51	0.54	2.1223	0.76
926/929	26.0617	CIB	1.73	0.78	2.0875	0.76
744	26.0641	CIB	2.67	1.09	1.8289	0.72
926/929	26.0645	CIB	1.66	0.55	1.9099	0.65
926/929	26.0672	CIB	1.58	0.63	1.8664	0.55
926/929	26.07	CIB	0.19	1.5807	0.3	NA
926/929	26.0728	CIB	1.56	0.31	1.5596	0.23
926/929	26.0755	CIB	1.53	-0.2	1.8753	0.22
926/929	26.0783	CIB	1.57	0.22	1.9483	0.24
689	26.079	CIB	2.84	0.58	2.1062	0.29
1218	26.08	CIB	2.24	0.28	2.157	0.28
574	26.0804	CIB	2.35	0.55	2.3722	0.39
926/929	26.0811	CIB	1.78	-0.25	2.2553	0.22
744	26.0848	CIB	2.65	0.8	2.1503	0.25
926/929	26.0876	CIB	-0.26	1.9043	0.21	NA
563	26.0889	CIB	1.82	0.4	1.858	0.2
926/929	26.0911	CIB	1.37	0.34	1.9505	0.19
926/929	26.0945	CIB	1.6	-0.28	1.8613	0.17
690	26.0965	CIB	3.02	0.75	1.8042	0.11
926/929	26.098	CIB	1.5	-0.37	1.8714	0.11
926/929	26.1014	CIB	1.53	0.12	2.0942	0.35
926/929	26.1049	CIB	1.7	0.31	1.8113	0.28
744	26.1055	CIB	2.71	0.95	1.9705	0.44
926/929	26.1083	CIB	1.61	0.4	1.9965	0.5
1218	26.11	CIB	2.3	0.4	1.9515	0.52
926/929	26.1117	CIB	1.66	0.44	1.7666	0.31
926/929	26.1151	CIB	1.48	0.41	1.6858	0.27

926/929	26.1186	CIB	1.79	-0.11	1.4619	0.19
926/929	26.122	CIB	1.2	0.22	1.687	0.27
926/929	26.1254	CIB	1.18	0	1.695	0.11
744	26.1261	CIB	2.79	0.81	1.8459	0.26
926/929	26.1285	CIB	1.52	-0.37	2.1436	0.35
689	26.132	CIB	2.54	0.62	2.4174	0.52
748	26.1341	CIB	2.69	0.69	2.2686	0.23
1218	26.14	CIB	2.55	0.86	2.257	0.43
926/929	26.1408	CIB	2.05	-0.65	2.297	0.49
926/929	26.1438	CIB	1.46	0.64	2.0957	0.51
744	26.1468	CIB	2.74	0.89	1.9574	0.5
926/929	26.1469	CIB	1.68	0.78	1.9074	0.73
926/929	26.15	CIB	1.86	0.81	2.0003	0.56
926/929	26.1531	CIB	1.8	0.5	2.0123	0.55
926/929	26.1563	CIB	1.92	-0.16	2.0289	0.48
689	26.159	CIB	2.8	0.81	1.9849	0.43
926/929	26.1594	CIB	1.77	0.42	2.0856	0.51
926/929	26.1629	CIB	1.64	0.58	2.1061	0.57
558	26.1654	CIB	2.3	0.89	2.0681	0.6
926/929	26.1664	CIB	2.03	0.12	2.1821	0.65
744	26.1674	CIB	2.61	0.97	2.1535	0.68
1218	26.17	CIB	2.34	0.7	2.0144	0.41
926/929	26.1717	CIB	1.5	0.72	2.0673	0.56
926/929	26.1769	CIB	1.6	-0.48	1.8827	0.42
747	26.1779	CIB	2.29	0.91	1.9873	0.4
926/929	26.1821	CIB	1.69	0.25	2.0433	0.33
689	26.186	CIB	2.86	0.6	2.2464	0.54
926/929	26.1874	CIB	1.78	0.35	2.1232	0.31
744	26.1881	CIB	2.62	0.58	2.1655	0.19
926/929	26.1926	CIB	1.67	-0.25	1.9123	0.06
926/929	26.1978	CIB	1.9	-0.35	1.9987	0.02
926/929	26.2024	CIB	1.59	-0.03	2.0027	0.02
926/929	26.2063	CIB	2.21	0.15	2.2245	0.25
744	26.2087	CIB	2.64	0.6	2.2098	0.46
1218	26.21	CIB	2.78	0.9	2.455	0.61
926/929	26.2102	CIB	1.82	0.67	2.3536	0.69
689	26.211	CIB	2.82	0.72	2.4616	0.75
563	26.2114	CIB	1.7	0.57	2.2664	0.59
690	26.2114	CIB	3.18	0.9	2.3955	0.61
926/929	26.2141	CIB	1.81	0.11	2.1606	0.67
744	26.217	CIB	2.47	0.74	2.0814	0.72
926/929	26.2181	CIB	1.65	1.01	2.0054	0.7
926/929	26.222	CIB	1.3	0.82	1.9972	0.87
748	26.2229	CIB	2.8	0.8	2.0472	0.89
926/929	26.2259	CIB	1.77	0.98	2.0392	0.82
744	26.2294	CIB	2.72	0.82	2.0694	0.63
926/929	26.2298	CIB	1.61	0.69	2.1094	0.68
926/929	26.2337	CIB	1.45	-0.16	2.1469	0.59
744	26.2356	CIB	3	1.08	2.1729	0.59
926/929	26.2376	CIB	1.95	0.54	2.3197	0.61
689	26.24	CIB	2.85	0.82	2.3723	0.77
1218	26.24	CIB	2.34	0.78	2.3923	0.76
926/929	26.2416	CIB	1.72	0.62	2.3449	0.74
744	26.25	CIB	3.1	1.03	2.3249	0.79
926/929	26.2526	CIB	1.72	0.46	2.1611	0.79
744	26.2552	CIB	2.75	1.06	2.0883	0.84
926/929	26.256	CIB	1.52	0.79	1.7692	0.81
926/929	26.2595	CIB	1.35	0.86	1.7288	0.86
926/929	26.2629	CIB	1.5	0.87	1.7488	0.79
926/929	26.2664	CIB	1.51	0.73	1.762	0.8

689	26.268	CIB	2.85	0.68	1.7894	0.68
926/929	26.2698	CIB	1.59	0.87	2.0504	0.7
926/929	26.2733	CIB	1.49	0.23	2.1055	0.7
744	26.2758	CIB	2.81	0.97	2.0515	0.7
926/929	26.2767	CIB	1.79	0.78	2.1676	0.71
1218	26.28	CIB	2.58	0.67	2.2848	0.75
1218	26.28	CIB	0.9	2.0993	0.7	NA
926/929	26.2802	CIB	1.96	0.44	2.1617	0.68
926/929	26.2836	CIB	2.07	0.7	2.0192	0.67
926/929	26.2871	CIB	2.04	0.67	1.9917	0.43
926/929	26.2904	CIB	2.01	0.63	2.1458	0.54
926/929	26.2947	CIB	1.88	-0.28	2.0554	0.54
744	26.2965	CIB	2.73	0.97	2.0436	0.38
926/929	26.2986	CIB	1.62	0.69	1.9388	0.4
926/929	26.3025	CIB	1.98	-0.12	1.9543	0.34
926/929	26.3064	CIB	1.49	0.75	1.9223	0.28
1218	26.31	CIB	2.57	0.66	2.0574	0.19
926/929	26.31	CIB	1.96	-0.57	1.9852	0.25
926/929	26.3135	CIB	1.93	0.53	2.3223	0.21
926/929	26.317	CIB	2.34	-0.39	2.3616	0.4
744	26.3172	CIB	2.81	0.8	2.4256	0.44
926/929	26.3241	CIB	2.16	2.4894	0.49	NA
690	26.3262	CIB	2.89	0.81	2.4048	0.79
563	26.3339	CIB	2.25	0.73	2.4188	0.83
926/929	26.3351	CIB	1.92	0.82	2.4495	0.63
744	26.345	CIB	2.88	0.95	2.3935	0.66
926/929	26.3491	CIB	2.31	-0.15	2.2828	0.69
748	26.3502	CIB	2.61	0.93	2.2753	0.68
926/929	26.3535	CIB	1.7	0.89	2.0866	0.61
926/929	26.3579	CIB	1.88	0.78	1.9632	0.65
926/929	26.3622	CIB	1.94	1.9672	0.46	NA
926/929	26.3664	CIB	1.69	0.01	2.1439	0.45
1218	26.37	CIB	2.63	0.17	2.2019	0.31
744	26.374	CIB	2.58	0.84	2.1519	0.42
926/929	26.3743	CIB	2.17	0.23	2.1719	0.57
926/929	26.3782	CIB	1.69	0.85	2.1	0.47
926/929	26.3822	CIB	1.79	0.74	2.076	0.41
926/929	26.3861	CIB	2.27	-0.31	2.1537	0.46
77	26.3894	CIB	2.46	0.54	2.2724	0.22
77	26.3894	CIB	2.56	0.46	2.3417	0.24
926/929	26.3901	CIB	2.28	-0.33	2.4715	0.48
926/929	26.394	CIB	2.14	0.83	2.4314	0.48
744	26.3946	CIB	2.92	0.91	2.4554	0.46
926/929	26.398	CIB	2.26	0.56	2.4561	0.41
1218	26.4	CIB	2.68	0.35	2.3489	0.33
926/929	26.4019	CIB	2.28	-0.59	2.0664	0.12
926/929	26.4059	CIB	1.6	0.4	2.0214	0.15
926/929	26.4098	CIB	1.51	-0.11	2.0134	0.23
926/929	26.4136	CIB	2.03	0.68	1.9526	0.41
744	26.4153	CIB	2.64	0.75	2.0153	0.51
926/929	26.4175	CIB	1.98	0.33	2.0789	0.7
926/929	26.4214	CIB	1.91	0.88	2.0685	0.71
926/929	26.4252	CIB	1.83	0.88	2.1225	0.78
926/929	26.4291	CIB	1.98	0.69	2.2206	0.87
690	26.4334	CIB	2.91	1.11	2.1565	0.79
744	26.4359	CIB	2.47	0.78	2.2754	0.74
926/929	26.4368	CIB	1.59	0.49	2.3309	0.75
1218	26.44	CIB	2.42	0.65	2.1116	0.56
563	26.4411	CIB	2.26	0.7	2.0342	0.28
926/929	26.4446	CIB	1.81	0.17	2.067	0.26

926/929	26.4484	CIB	2.08	-0.58	1.9396	0.26
926/929	26.4523	CIB	1.76	0.35	1.7589	0.2
926/929	26.4562	CIB	1.78	0.69	1.7061	0.31
926/929	26.46	CIB	1.36	0.39	1.7355	0.59
926/929	26.4639	CIB	1.55	0.71	1.8018	0.7
563	26.4641	CIB	2.23	0.83	1.7507	0.59
747	26.4658	CIB	2.09	0.87	1.8493	0.62
926/929	26.4676	CIB	1.53	0.16	1.8498	0.54
1218	26.47	CIB	0.55	1.723	0.4	NA
926/929	26.4713	CIB	1.55	0.28	1.868	0.39
926/929	26.4749	CIB	1.72	0.16	1.9544	0.43
744	26.4772	CIB	2.67	0.82	1.9628	0.24
926/929	26.4786	CIB	1.87	0.35	2.1965	0.33
926/929	26.4823	CIB	2	-0.4	2.227	0.33
77	26.4846	CIB	2.72	0.74	2.0712	0.3
926/929	26.4862	CIB	1.88	0.16	2.0919	0.39
926/929	26.49	CIB	1.89	0.63	2.1647	0.39
926/929	26.4938	CIB	1.98	0.83	2.0327	0.41
926/929	26.4976	CIB	2.36	-0.4	2.0392	0.55
926/929	26.5007	CIB	2.06	0.85	2.0749	0.55
926/929	26.5014	CIB	1.91	0.86	2.2095	0.61
926/929	26.5053	CIB	2.07	0.63	2.1914	0.65
748	26.5107	CIB	2.65	1.09	2.1471	0.6
926/929	26.5129	CIB	2.27	-0.2	2.1423	0.51
926/929	26.5167	CIB	1.84	0.61	2.2684	0.57
926/929	26.5169	CIB	1.88	0.4	2.1401	0.48
744	26.5185	CIB	2.7	0.97	2.1067	0.65
926/929	26.5209	CIB	2.01	0.6	2.143	0.71
926/929	26.5249	CIB	2.1	0.64	2.2032	0.73
926/929	26.529	CIB	2.02	0.92	2.2112	0.69
926/929	26.5331	CIB	2.18	0.5	2.2072	0.72
689	26.535	CIB	2.74	0.79	2.3626	0.81
926/929	26.5372	CIB	1.99	0.73	2.3584	0.68
744	26.5411	CIB	2.88	1.1	2.3389	0.67
926/929	26.5413	CIB	2	0.28	2.1947	0.61
926/929	26.5454	CIB	2.09	0.46	2.1837	0.58
926/929	26.5495	CIB	2.02	0.48	2.1737	0.53
926/929	26.5536	CIB	1.93	0.59	2.3439	0.6
690	26.556	CIB	2.83	0.82	2.2749	0.59
689	26.557	CIB	2.85	0.63	2.2304	0.55
926/929	26.5577	CIB	1.74	0.41	2.1813	0.5
926/929	26.5618	CIB	1.8	0.28	1.9005	0.41
926/929	26.5656	CIB	1.69	0.36	1.8085	0.4
926/929	26.5691	CIB	1.43	0.38	1.8357	0.44
1218	26.57	CIB	2.39	0.57	1.8291	0.5
926/929	26.5727	CIB	1.88	0.61	1.9295	0.69
926/929	26.5762	CIB	1.76	0.56	2.1703	0.77
526	26.5789	CIB	2.19	1.35	2.067	0.73
77	26.5791	CIB	2.63	0.77	2.1348	0.65
926/929	26.5798	CIB	1.87	0.35	2.2261	0.63
926/929	26.5833	CIB	2.22	0.19	2.3201	0.43
926/929	26.5869	CIB	2.22	0.46	2.2234	0.37
689	26.589	CIB	2.66	0.39	2.3092	0.34
926/929	26.5905	CIB	2.15	0.43	2.3264	0.38
926/929	26.594	CIB	2.3	0.24	2.3533	0.4
926/929	26.5974	CIB	2.3	0.39	2.2649	0.44
926/929	26.6007	CIB	2.36	0.56	2.2185	0.47
926/929	26.604	CIB	2.22	0.56	2.157	0.56
926/929	26.6073	CIB	1.91	0.6	2.1145	0.55
926/929	26.6105	CIB	1.99	0.67	2.0223	0.6

563	26.6134	CIB	2.09	0.36	2.1207	0.57
926/929	26.6138	CIB	1.89	0.81	2.1263	0.6
689	26.616	CIB	2.71	0.43	2.1359	0.64
926/929	26.6171	CIB	1.94	0.72	2.1248	0.7
926/929	26.6204	CIB	2.04	0.86	2.1361	0.71
926/929	26.6237	CIB	2.03	0.7	1.9709	0.77
926/929	26.627	CIB	1.95	0.83	1.9403	0.73
926/929	26.6303	CIB	1.88	0.73	1.8856	0.68
926/929	26.6335	CIB	1.79	0.53	2.0226	0.77
926/929	26.6368	CIB	1.77	0.61	2.1762	0.84
1218	26.64	CIB	2.72	1.16	2.1214	0.79
1218	26.64	CIB	2.72	1.16	2.2895	0.74
926/929	26.6401	CIB	1.61	0.5	2.3009	0.73
689	26.641	CIB	2.63	0.27	2.1586	0.67
926/929	26.6435	CIB	1.83	0.58	1.9666	0.59
926/929	26.6469	CIB	2.01	0.83	1.9712	0.67
926/929	26.6504	CIB	1.76	0.79	1.7765	0.8
926/929	26.6538	CIB	1.63	0.87	1.7646	0.86
926/929	26.6573	CIB	1.66	0.95	1.9691	0.79
926/929	26.6607	CIB	1.77	0.85	2.0109	0.81
689	26.661	CIB	3.03	0.48	2.0722	0.81
926/929	26.6641	CIB	1.97	0.9	2.1431	0.77
926/929	26.6676	CIB	1.94	0.88	2.3337	0.83
926/929	26.671	CIB	2.01	0.75	2.1937	0.85
748	26.6712	CIB	2.72	1.13	2.1671	0.77
77	26.6742	CIB	2.33	0.57	2.1782	0.7
926/929	26.6779	CIB	1.84	0.51	2.352	0.64
926/929	26.6813	CIB	2	0.55	2.247	0.53
689	26.684	CIB	2.88	0.43	2.2163	0.56
926/929	26.6848	CIB	2.19	0.59	2.2403	0.62
926/929	26.6883	CIB	2.18	0.72	2.2673	0.61
926/929	26.6919	CIB	1.95	0.81	2.1185	0.72
926/929	26.6954	CIB	2.13	0.48	2.1102	0.82
926/929	26.699	CIB	2.14	1	2.2509	0.83
926/929	26.7025	CIB	2.15	1.07	2.2793	0.85
744	26.7035	CIB	2.88	0.81	2.2788	0.94
926/929	26.7061	CIB	2.1	0.9	2.2911	0.85
926/929	26.7096	CIB	2.13	0.92	2.2846	0.74
926/929	26.7132	CIB	2.2	0.55	2.253	0.74
926/929	26.7167	CIB	2.12	0.52	2.2214	0.7
1218	26.72	CIB	2.72	0.81	2.2404	0.64
926/929	26.7202	CIB	1.94	0.68	2.2387	0.71
926/929	26.7237	CIB	2.22	0.65	2.4264	0.75
926/929	26.726	CIB	2.19	0.9	2.2512	0.73
690	26.7283	CIB	3.06	0.71	2.4294	0.77
926/929	26.7284	CIB	1.85	0.71	2.4543	0.83
744	26.7306	CIB	2.83	0.89	2.5014	0.83
926/929	26.7307	CIB	2.35	0.96	2.3613	0.86
926/929	26.7378	CIB	2.42	0.88	2.4783	0.89
926/929	26.7425	CIB	2.36	0.83	2.4154	0.87
926/929	26.7448	CIB	2.43	0.89	2.4396	0.86
926/929	26.7519	CIB	2.52	0.8	2.4644	0.86
926/929	26.7542	CIB	2.47	0.9	2.5525	0.89
926/929	26.7566	CIB	2.55	0.85	2.5608	0.9
744	26.7577	CIB	2.8	1.01	2.5925	0.95
926/929	26.7589	CIB	2.47	0.92	2.5692	0.97
1218	26.76	CIB	2.67	1.07	2.5351	0.98
926/929	26.7612	CIB	2.35	1.01	2.4249	0.95
926/929	26.7636	CIB	2.38	0.91	2.5143	0.9
926/929	26.7659	CIB	2.25	0.85	2.4465	0.85

689	26.768	CIB	2.92	0.65	2.4158	0.77
926/929	26.7683	CIB	2.33	0.84	2.4054	0.72
926/929	26.7692	CIB	2.2	0.59	2.3997	0.68
926/929	26.7716	CIB	2.33	0.67	2.2832	0.65
926/929	26.7739	CIB	2.22	0.67	2.2408	0.61
926/929	26.7763	CIB	2.34	0.5	2.1701	0.66
926/929	26.7786	CIB	2.12	0.63	2.279	0.69
926/929	26.781	CIB	1.84	0.84	2.4529	0.71
744	26.8118	CIB	2.87	0.81	2.3754	0.69
689	26.816	CIB	3.09	0.75	2.4628	0.64
563	26.8317	CIB	1.95	0.44	2.678	0.66
748	26.8317	CIB	2.56	0.34	2.544	0.66
744	26.8389	CIB	2.92	0.95	2.552	0.64
1218	26.84	CIB	2.2	0.8	2.57	0.71
689	26.85	CIB	3.13	0.68	2.606	0.83
558	26.8547	CIB	2.04	0.8	2.556	0.72
744	26.8659	CIB	2.74	0.91	2.5788	0.63
77	26.8676	CIB	2.67	0.39	2.5448	0.65
1218	26.87	CIB	2.31	0.39	2.671	0.65
690	26.8891	CIB	2.96	0.75	2.616	0.56
1218	26.91	CIB	0.81	2.6635	0.6	NA
1218	26.94	CIB	2.52	0.46	2.8025	0.69
689	26.942	CIB	2.86	0.61	2.7925	0.71
77	26.9595	CIB	2.87	0.83	2.848	0.63
744	26.9607	CIB	2.92	0.86	2.928	0.7
689	26.969	CIB	3.07	0.4	2.82	0.64
744	26.9878	CIB	2.92	0.8	2.848	0.6
563	26.9925	CIB	2.32	0.29	2.724	0.5
689	26.996	CIB	3.01	0.64	2.627	0.52
1218	27	CIB	2.3	0.35	2.473	0.47
1218	27	CIB	2.58	0.51	2.597	0.5
563	27.02	CIB	2.15	0.55	2.519	0.49
689	27.023	CIB	2.94	0.47	2.643	0.55
1218	27.03	CIB	2.62	0.55	2.71	0.58
1218	27.03	CIB	2.92	0.67	2.864	0.6
1218	27.03	CIB	2.92	0.67	2.86	0.64
1218	27.03	CIB	2.92	0.67	2.92	0.67
1218	27.03	CIB	2.92	0.67	2.806	0.78
1218	27.03	CIB	2.92	0.67	2.86	0.75
558	27.0359	CIB	2.35	1.23	2.898	0.74
689	27.05	CIB	3.19	0.51	2.814	0.74
690	27.0519	CIB	3.11	0.65	2.7796	0.72
77	27.0528	CIB	2.5	0.62	2.8376	0.58
1218	27.06	CIB	2.75	0.59	2.6696	0.59
1218	27.1	CIB	2.64	0.51	2.5558	0.57
1218	27.13	CIB	2.35	2.5198	0.56	NA
1218	27.16	CIB	2.54	0.54	2.3908	0.56
1218	27.21	CIB	2.32	0.61	2.252	0.54
1218	27.25	CIB	2.1	0.59	2.198	0.51
1218	27.27	CIB	1.95	0.42	2.1123	0.49
1218	27.29	CIB	2.08	0.38	2.2322	0.44
1218	27.3	CIB	0.43	2.204	0.4	NA
689	27.334	CIB	2.8	0.38	2.355	0.39
1218	27.37	CIB	1.99	0.37	2.4575	0.44
689	27.382	CIB	2.55	0.39	2.566	0.49
558	27.3872	CIB	2.49	0.65	2.442	0.52
690	27.3872	CIB	3	0.66	2.518	0.55
1218	27.39	CIB	2.18	2.412	0.66	NA
1218	27.41	CIB	2.37	0.51	2.408	0.62
526	27.4191	CIB	2.02	0.8	2.374	0.61

1218	27.43	CIB	2.47	0.51	2.356	0.5
689	27.437	CIB	2.83	0.62	2.35	0.53
77	27.4458	CIB	2.09	0.05	2.393	0.51
1218	27.45	CIB	2.34	0.67	2.463	0.51
1218	27.46	CIB	2.23	0.71	2.3292	0.5
689	27.465	CIB	2.82	0.49	2.5152	0.63
1218	27.48	CIB	2.16	0.6	2.559	0.62
689	27.494	CIB	3.02	0.69	2.7053	0.55
1218	27.5	CIB	0.63	2.5628	0.59	NA
689	27.52	CIB	2.82	0.35	2.55	0.61
1218	27.52	CIB	2.25	0.68	2.4775	0.57
1218	27.55	CIB	2.11	0.68	2.404	0.57
689	27.554	CIB	2.73	0.53	2.326	0.68
1218	27.56	CIB	2.11	0.63	2.594	0.69
558	27.5628	CIB	2.43	0.86	2.702	0.71
690	27.5628	CIB	3.59	0.76	2.714	0.68
1218	27.57	CIB	2.65	0.77	2.8226	0.67
689	27.577	CIB	2.79	0.36	2.8106	0.6
1218	27.58	CIB	2.65	0.6	2.5746	0.49
1218	27.6	CIB	2.37	0.49	2.5346	0.43
1218	27.6	CIB	2.41	0.21	2.4906	0.5
1218	27.62	CIB	2.45	0.51	2.486	0.48
748	27.6216	CIB	2.57	0.7	2.574	0.49
77	27.6335	CIB	2.63	0.51	2.562	0.53
689	27.644	CIB	2.81	0.51	2.596	0.46
1218	27.66	CIB	2.35	0.43	2.5938	0.41
689	27.672	CIB	2.62	0.16	2.6598	0.42
1218	27.7	CIB	2.56	0.44	2.6918	0.45
689	27.701	CIB	2.96	0.55	2.8358	0.45
689	27.723	CIB	2.97	0.68	2.8898	0.49
690	27.7384	CIB	3.07	0.41	2.9188	0.51
1218	27.74	CIB	0.36	2.8588	0.51	NA
1218	27.77	CIB	2.67	0.55	2.8087	0.52
689	27.778	CIB	2.72	0.54	2.6537	0.56
689	27.796	CIB	2.77	0.72	2.589	0.54
1218	27.8	CIB	2.45	0.64	2.548	0.56
77	27.8194	CIB	2.33	0.25	2.59	0.61
1218	27.84	CIB	2.47	0.67	2.622	0.6
689	27.851	CIB	2.93	0.77	2.6634	0.61
689	27.879	CIB	2.93	0.66	2.7254	0.65
1218	27.89	CIB	2.66	0.72	2.8114	0.63
689	27.908	CIB	2.64	0.41	2.7162	0.64
689	27.934	CIB	2.9	0.61	2.7162	0.62
1218	27.95	CIB	2.45	0.8	2.7516	0.55
689	27.956	CIB	2.93	0.57	2.8036	0.58
1218	27.98	CIB	2.83	0.37	2.6816	0.48
689	27.99	CIB	2.9	0.53	2.6408	0.44
1218	28	CIB	2.29	0.11	2.4828	0.44
574	28.01	CIB	2.25	0.62	2.338	0.4
77	28.0228	CIB	2.14	0.57	2.223	0.38
1218	28.04	CIB	2.11	0.18	2.377	0.48
1218	28.04	CIB	2.33	0.44	2.419	0.41
689	28.058	CIB	3.06	0.57	2.609	0.4
1218	28.08	CIB	2.46	0.27	2.647	0.41
689	28.091	CIB	3.09	0.56	2.768	0.41
1218	28.11	CIB	2.3	0.21	2.618	0.39
689	28.113	CIB	2.93	0.46	2.666	0.4
574	28.1348	CIB	2.31	0.43	2.58	0.38
689	28.137	CIB	2.7	0.36	2.578	0.4
689	28.163	CIB	2.66	0.42	2.6	0.41

1218	28.17	CIB	2.29	0.33	2.592	0.59
689	28.197	CIB	3.04	0.53	2.674	0.64
526	28.2035	CIB	2.27	1.32	2.646	0.66
689	28.212	CIB	3.11	0.6	2.6454	0.66
77	28.2143	CIB	2.52	0.52	2.5594	0.71
1218	28.22	CIB	2.29	0.34	2.7614	0.55
1218	28.25	CIB	2.61	0.75	2.6054	0.56
689	28.266	CIB	3.28	0.56	2.6154	0.52
1218	28.27	CIB	2.33	0.65	2.768	0.55
1218	28.29	CIB	2.57	0.3	2.848	0.45
689	28.292	CIB	3.05	0.48	2.756	0.42
689	28.32	CIB	3.01	0.26	2.708	0.54
689	28.348	CIB	2.82	0.41	2.718	0.56
526	28.3499	CIB	2.09	1.25	2.482	0.64
1218	28.35	CIB	2.62	0.4	2.452	0.66
526	28.3667	CIB	1.87	0.88	2.35	0.68
689	28.375	CIB	2.86	0.37	2.502	0.49
1218	28.38	CIB	2.31	0.5	2.442	0.49
690	28.389	CIB	2.85	0.3	2.652	0.41
77	28.3995	CIB	2.32	0.41	2.446	0.64
689	28.404	CIB	2.92	0.45	2.418	0.64
526	28.4114	CIB	1.83	1.53	2.328	0.67
1218	28.42	CIB	2.17	0.5	2.4	0.65
1218	28.45	CIB	2.4	0.46	2.26	0.65
689	28.465	CIB	2.68	0.32	2.3306	0.48
563	28.4672	CIB	2.22	0.46	2.3332	0.51
1218	28.47	CIB	2.18	0.65	2.2898	0.55
1218	28.47	CIB	2.18	0.65	2.1904	0.61
1218	28.47	CIB	2.18	0.65	2.1504	0.77
1218	28.47	CIB	2.18	0.65	2.2958	0.74
526	28.49	CIB	2.02	1.23	2.3892	0.68
690	28.4952	CIB	2.91	0.52	2.3766	0.63
689	28.499	CIB	2.65	0.34	2.592	0.7
1218	28.5	CIB	2.12	0.42	2.608	0.73
690	28.511	CIB	3.26	0.97	2.642	0.78
526	28.515	CIB	2.1	1.4	2.514	0.8
690	28.5185	CIB	3.08	0.75	2.572	0.81
563	28.52	CIB	2.01	0.48	2.342	0.9
558	28.5207	CIB	2.41	0.46	2.404	0.65
526	28.536	CIB	2.11	1.39	2.326	0.77
1218	28.54	CIB	2.41	0.15	2.458	0.78
558	28.5455	CIB	2.69	1.38	2.424	0.81
558	28.5477	CIB	2.67	0.52	2.484	0.65
558	28.5777	CIB	2.24	0.61	2.478	0.64
77	28.5979	CIB	2.41	0.57	2.5	0.41
1218	28.62	CIB	2.38	0.1	2.364	0.42
689	28.644	CIB	2.8	0.26	2.446	0.42
563	28.6468	CIB	1.99	0.55	2.542	0.39
748	28.6689	CIB	2.65	0.6	2.5776	0.46
689	28.673	CIB	2.89	0.42	2.5136	0.54
1218	28.68	CIB	2.56	0.49	2.5936	0.5
558	28.6814	CIB	2.48	0.62	2.5795	0.4
574	28.6856	CIB	2.39	0.35	2.6095	0.4
1218	28.69	CIB	0.14	2.695	0.41	NA
689	28.698	CIB	3.01	0.41	2.685	0.38
748	28.7177	CIB	2.9	0.55	2.69	0.45
1218	28.72	CIB	2.44	0.45	2.634	0.54
558	28.7452	CIB	2.41	0.69	2.62	0.56
1218	28.75	CIB	2.41	0.62	2.624	0.56
689	28.753	CIB	2.94	0.51	2.626	0.6

689	28.773	CIB	2.92	0.53	2.596	0.57
748	28.7766	CIB	2.45	0.64	2.614	0.57
1218	28.78	CIB	2.26	0.55	2.62	0.59
77	28.7857	CIB	2.5	0.63	2.606	0.58
689	28.799	CIB	2.97	0.58	2.5668	0.57
689	28.82	CIB	2.85	0.52	2.6408	0.54
1218	28.82	CIB	2.25	0.57	2.6388	0.47
689	28.845	CIB	2.63	0.41	2.5448	0.42
1218	28.85	CIB	2.49	0.26	2.5748	0.42
1218	28.87	CIB	2.5	0.34	2.704	0.38
689	28.871	CIB	3	0.52	2.784	0.42
689	28.884	CIB	2.9	0.35	2.794	0.46
748	28.8843	CIB	3.03	0.61	2.756	0.51
1218	28.9	CIB	2.54	0.48	2.695	0.49
1218	28.93	CIB	2.31	0.57	2.6525	0.5
1218	28.93	CIB	0.42	2.5325	0.49	NA
689	28.933	CIB	2.73	0.4	2.455	0.48
748	28.9332	CIB	2.55	0.56	2.575	0.45
1218	28.95	CIB	2.23	0.45	2.5224	0.51
689	28.956	CIB	2.79	0.41	2.5224	0.47
1218	28.98	CIB	2.31	0.73	2.5524	0.47
689	28.981	CIB	2.73	0.19	2.6604	0.43
748	28.9921	CIB	2.7	0.55	2.5544	0.46
689	29.004	CIB	2.77	0.25	2.598	0.33
1218	29.01	CIB	2.26	0.57	2.5524	0.36
689	29.025	CIB	2.53	0.08	2.5564	0.34
1218	29.03	CIB	2.5	2.5584	0.34	NA
748	29.0409	CIB	2.72	0.46	2.551	0.36
689	29.054	CIB	2.78	0.23	2.547	0.48
1218	29.06	CIB	2.22	0.68	2.5606	0.5
1218	29.09	CIB	2.51	0.55	2.5786	0.46
748	29.0998	CIB	2.57	0.6	2.4726	0.5
689	29.106	CIB	2.81	0.23	2.478	0.46
1218	29.12	CIB	2.25	0.45	2.434	0.44
1218	29.12	CIB	2.25	0.45	2.48	0.37
558	29.1248	CIB	2.29	0.49	2.298	0.58
689	29.127	CIB	2.8	0.25	2.2688	0.61
526	29.1314	CIB	1.9	1.26	2.3908	0.54
1218	29.14	CIB	2.1	2.3574	0.56	NA
689	29.152	CIB	2.86	0.16	2.3254	0.57
1218	29.17	CIB	2.12	0.56	2.3874	0.3
689	29.179	CIB	2.64	0.3	2.5446	0.32
77	29.1831	CIB	2.21	0.18	2.3906	0.39
689	29.199	CIB	2.89	0.39	2.418	0.36
1218	29.2	CIB	2.09	0.53	2.342	0.38
1218	29.2	CIB	2.26	0.39	2.446	0.41
1218	29.2	CIB	2.26	0.39	2.334	0.39
689	29.216	CIB	2.73	0.36	2.514	0.37
1218	29.23	CIB	2.33	0.27	2.632	0.4
689	29.239	CIB	2.99	0.44	2.6452	0.45
748	29.2563	CIB	2.85	0.55	2.5644	0.5
1218	29.26	CIB	2.33	0.61	2.5636	0.56
1218	29.26	CIB	2.33	0.61	2.4308	0.6
1218	29.26	CIB	2.33	0.61	2.326	0.61
1218	29.26	CIB	2.33	0.61	2.3448	0.57
1218	29.26	CIB	2.33	0.61	2.3656	0.54
1218	29.28	CIB	2.42	0.44	2.4744	0.52
1218	29.28	CIB	2.43	0.45	2.4632	0.46
689	29.287	CIB	2.87	0.5	2.564	0.43
1218	29.3	CIB	2.27	0.29	2.4682	0.39

689	29.313	CIB	2.83	0.48	2.5222	0.37
1218	29.33	CIB	1.94	0.24	2.2982	0.35
689	29.334	CIB	2.7	0.35	2.3742	0.37
1218	29.35	CIB	1.75	0.37	2.2622	0.43
748	29.3511	CIB	2.65	0.42	2.41	0.46
77	29.3576	CIB	2.27	0.77	2.306	0.45
689	29.358	CIB	2.68	0.38	2.3928	0.52
1218	29.37	CIB	2.18	0.33	2.3488	0.54
1218	29.38	CIB	2.18	0.71	2.4048	0.45
1218	29.38	CIB	2.43	0.52	2.3168	0.47
689	29.384	CIB	2.55	0.29	2.3988	0.48
1218	29.4	CIB	2.24	0.52	2.45	0.47
689	29.409	CIB	2.59	0.34	2.494	0.41
1218	29.41	CIB	2.44	0.68	2.4522	0.45
574	29.4164	CIB	2.65	0.24	2.5962	0.46
1218	29.44	CIB	2.34	0.48	2.495	0.47
689	29.465	CIB	2.96	0.55	2.4238	0.42
1218	29.47	CIB	2.08	0.43	2.4498	0.45
1218	29.47	CIB	2.08	0.43	2.473	0.42
689	29.489	CIB	2.78	0.37	2.3724	0.37
1218	29.5	CIB	2.46	0.31	2.5616	0.4
1218	29.5	CIB	2.46	0.31	2.6148	0.43
689	29.511	CIB	3.03	0.57	2.6568	0.48
1218	29.53	CIB	2.35	0.61	2.5694	0.51
689	29.535	CIB	2.99	0.6	2.5644	0.58
77	29.5397	CIB	2.02	0.47	2.3984	0.6
1218	29.57	CIB	2.43	0.65	2.3684	0.6
1218	29.61	CIB	2.2	0.65	2.2178	0.57
1218	29.61	CIB	2.2	0.65	2.2612	0.56
1218	29.65	CIB	2.24	0.42	2.2185	0.56
1218	29.65	CIB	2.24	0.42	2.261	0.47
1218	29.65	CIB	0.67	2.2585	0.4	NA
574	29.69	CIB	2.37	0.17	2.179	0.37
1218	29.7	CIB	2.19	0.34	2.1223	0.42
1218	29.74	CIB	1.92	0.23	2.1618	0.44
77	29.7419	CIB	2.01	0.69	2.1618	0.51
77	29.7419	CIB	2.32	0.79	2.3058	0.56
1218	29.76	CIB	2.37	0.48	2.2864	0.57
574	29.7644	CIB	2.91	0.6	2.4544	0.53
1218	29.78	CIB	1.82	0.31	2.4184	0.45
689	29.792	CIB	2.85	0.48	2.4884	0.47
1218	29.81	CIB	2.14	0.36	2.3424	0.42
689	29.815	CIB	2.72	0.59	2.55	0.48
1218	29.84	CIB	2.18	0.34	2.4356	0.51
689	29.853	CIB	2.86	0.62	2.6016	0.51
1218	29.88	CIB	2.28	0.62	2.6056	0.47
689	29.901	CIB	2.97	0.4	2.6096	0.46
689	29.923	CIB	2.74	0.36	2.5216	0.45
77	29.9265	CIB	2.2	0.3	2.524	0.47
1218	29.93	CIB	2.42	0.58	2.476	0.47
1218	29.94	CIB	2.29	0.69	2.47	0.47
689	29.947	CIB	2.73	0.4	2.532	0.51
689	29.971	CIB	2.71	0.36	2.63	0.49
1218	29.98	CIB	2.51	2.704	0.45	NA
689	29.995	CIB	2.91	0.49	2.606	0.53
690	29.9994	CIB	2.66	0.53	2.512	0.62
1218	30.01	CIB	2.24	0.72	2.552	0.61
1218	30.01	CIB	2.24	0.72	2.31	0.76
689	30.018	CIB	2.71	0.59	2.33	0.77
526	30.0233	CIB	1.7	1.24	2.422	0.69

748	30.0233	CIB	2.76	0.56	2.478	0.62
690	30.0392	CIB	2.7	0.35	2.42	0.59
748	30.0413	CIB	2.52	0.35	2.595	0.36
1218	30.05	CIB	0.44	2.575	0.37	NA
748	30.0631	CIB	2.4	0.1	2.625	0.44
690	30.071	CIB	2.68	0.6	2.675	0.47
744	30.08	CIB	2.9	0.72	2.618	0.53
689	30.087	CIB	2.72	0.49	2.714	0.67
1218	30.09	CIB	2.39	0.73	2.552	0.59
690	30.1091	CIB	2.88	0.81	2.428	0.53
77	30.1192	CIB	1.87	0.21	2.454	0.52
1218	30.12	CIB	2.28	0.41	2.434	0.45
689	30.131	CIB	2.85	0.42	2.456	0.43
574	30.1384	CIB	2.29	0.38	2.486	0.44
744	30.1518	CIB	2.99	0.72	2.604	0.53
1218	30.16	CIB	2.02	0.29	2.606	0.53
748	30.1684	CIB	2.87	0.82	2.69	0.54
689	30.182	CIB	2.86	0.43	2.634	0.5
690	30.1948	CIB	2.71	0.42	2.642	0.5
690	30.1948	CIB	2.71	0.56	2.662	0.43
1218	30.2	CIB	2.06	0.25	2.574	0.44
689	30.23	CIB	2.97	0.48	2.586	0.44
1218	30.23	CIB	2.42	0.49	2.4662	0.41
690	30.2424	CIB	2.77	0.4	2.6022	0.5
1218	30.26	CIB	2.11	0.44	2.5582	0.51
689	30.272	CIB	2.74	0.68	2.5414	0.48
690	30.2805	CIB	2.75	0.54	2.4794	0.51
1218	30.29	CIB	2.34	0.33	2.6372	0.53
748	30.2954	CIB	2.46	0.56	2.6452	0.52
744	30.3058	CIB	2.9	0.52	2.6692	0.45
689	30.306	CIB	2.78	0.64	2.732	0.52
574	30.3148	CIB	2.87	0.18	2.652	0.53
690	30.3187	CIB	2.65	0.68	2.484	0.53
77	30.3277	CIB	2.06	0.64	2.482	0.52
1218	30.33	CIB	2.06	0.5	2.43	0.62
689	30.359	CIB	2.77	0.6	2.3466	0.67
690	30.3663	CIB	2.61	0.66	2.3812	0.73
1218	30.38	CIB	2.23	0.94	2.4158	0.82
1218	30.38	CIB	2.23	0.94	2.3084	0.88
1218	30.38	CIB	2.23	0.94	2.3544	0.96
1218	30.38	CIB	2.23	0.94	2.4098	0.84
744	30.3827	CIB	2.84	1.05	2.5312	0.73
574	30.3988	CIB	2.51	0.31	2.5486	0.63
748	30.4007	CIB	2.84	0.39	2.702	0.58
1218	30.42	CIB	2.32	0.46	2.69	0.51
690	30.4329	CIB	3	0.68	2.724	0.6
744	30.4537	CIB	2.78	0.69	2.622	0.64
689	30.454	CIB	2.68	0.79	2.692	0.68
1218	30.46	CIB	2.33	0.57	2.652	0.71
744	30.4704	CIB	2.67	0.65	2.618	0.73
744	30.4813	CIB	2.8	0.83	2.546	0.76
744	30.488	CIB	2.61	0.8	2.62	0.77
522	30.4918	CIB	2.32	0.95	2.58	0.85
744	30.4964	CIB	2.7	0.63	2.564	0.95
522	30.4983	CIB	2.47	1.05	2.578	0.93
522	30.4983	CIB	2.72	1.34	2.672	0.93
689	30.5	CIB	2.68	0.66	2.578	0.96
744	30.5039	CIB	2.79	0.97	2.536	0.83
563	30.5046	CIB	2.23	0.79	2.57	0.72
1218	30.51	CIB	2.26	0.39	2.42	0.74

744	30.5114	CIB	2.89	0.79	2.388	0.63
77	30.5167	CIB	1.93	0.77	2.438	0.67
744	30.5206	CIB	2.63	0.42	2.586	0.67
522	30.5209	CIB	2.48	0.99	2.546	0.71
690	30.5257	CIB	3	0.37	2.706	0.63
744	30.5273	CIB	2.69	0.98	2.668	0.76
748	30.5277	CIB	2.73	0.37	2.708	0.78
522	30.5306	CIB	2.44	1.07	2.606	0.89
522	30.5306	CIB	2.68	1.11	2.542	0.86
744	30.5374	CIB	2.49	0.91	2.524	0.99
522	30.5392	CIB	2.37	0.85	2.49	0.94
744	30.5449	CIB	2.64	0.99	2.492	0.82
522	30.5457	CIB	2.27	0.86	2.3802	0.74
689	30.548	CIB	2.69	0.5	2.4722	0.76
1218	30.55	CIB	1.93	0.49	2.4742	0.75
744	30.5541	CIB	2.83	0.96	2.5942	0.8
522	30.5608	CIB	2.65	0.95	2.5862	0.9
744	30.5675	CIB	2.87	1.08	2.678	1.03
522	30.5694	CIB	2.65	1.03	2.592	1.05
522	30.5759	CIB	2.39	1.14	2.616	1.09
522	30.5759	CIB	2.4	1.04	2.52	1.09
744	30.5801	CIB	2.77	1.15	2.498	1.05
522	30.5845	CIB	2.39	1.1	2.532	0.97
744	30.5885	CIB	2.54	0.82	2.606	0.97
689	30.595	CIB	2.56	0.72	2.54	0.84
744	30.5968	CIB	2.77	1.04	2.576	0.84
1218	30.6	CIB	2.44	0.54	2.594	0.82
522	30.6049	CIB	2.57	1.06	2.558	0.85
744	30.6136	CIB	2.63	0.76	2.504	0.78
522	30.6157	CIB	2.38	0.86	2.516	0.87
744	30.622	CIB	2.5	0.68	2.526	0.83
522	30.6265	CIB	2.5	0.99	2.522	0.75
744	30.6303	CIB	2.62	0.88	2.552	0.72
690	30.6309	CIB	2.61	0.34	2.59	0.72
522	30.634	CIB	2.53	0.71	2.4208	0.66
744	30.6379	CIB	2.69	0.67	2.4288	0.67
1218	30.64	CIB	1.65	0.71	2.4428	0.78
689	30.643	CIB	2.66	0.9	2.4268	0.88
744	30.6479	CIB	2.68	0.93	2.3768	0.89
522	30.648	CIB	2.45	1.2	2.56	0.97
744	30.6538	CIB	2.44	0.71	2.556	0.95
522	30.6588	CIB	2.57	1.09	2.568	0.98
744	30.6605	CIB	2.64	0.81	2.594	0.86
522	30.6685	CIB	2.74	1.1	2.52	0.76
744	30.6714	CIB	2.58	0.58	2.58	0.71
574	30.6788	CIB	2.07	0.21	2.558	0.78
744	30.6806	CIB	2.87	0.83	2.454	0.7
522	30.6825	CIB	2.53	1.18	2.35	0.78
1218	30.69	CIB	2.22	0.69	2.478	0.94
77	30.6918	CIB	2.06	1	2.426	1.01
689	30.692	CIB	2.71	0.98	2.404	0.95
522	30.6922	CIB	2.61	1.22	2.496	1
744	30.6923	CIB	2.42	0.85	2.574	0.86
744	30.6973	CIB	2.68	0.94	2.564	0.9
77	30.6981	CIB	2.45	0.3	2.536	0.82
522	30.7019	CIB	2.66	1.17	2.522	0.81
744	30.7048	CIB	2.47	0.84	2.53	0.85
77	30.7057	CIB	2.35	0.82	2.596	0.96
522	30.7094	CIB	2.72	1.12	2.6	0.89
744	30.7115	CIB	2.78	0.83	2.63	0.97

689	30.716	CIB	2.68	0.86	2.696	0.98
522	30.7191	CIB	2.62	1.22	2.714	0.95
744	30.7216	CIB	2.68	0.85	2.63	0.99
744	30.7291	CIB	2.81	0.97	2.64	1.01
522	30.732	CIB	2.36	1.05	2.642	1
744	30.7383	CIB	2.73	0.95	2.64	1.05
522	30.7396	CIB	2.63	1.19	2.578	1
522	30.7396	CIB	2.67	1.11	2.62	1.02
1218	30.74	CIB	2.5	0.7	2.64	1.03
522	30.7471	CIB	2.57	1.14	2.684	1.01
744	30.7475	CIB	2.83	0.99	2.638	0.99
744	30.7551	CIB	2.85	1.09	2.706	1.07
522	30.7568	CIB	2.44	1.04	2.768	1.05
744	30.7643	CIB	2.84	1.07	2.636	1.02
744	30.7743	CIB	2.88	1.08	2.6	1.03
1218	30.78	CIB	2.17	0.81	2.678	1.03
744	30.7802	CIB	2.67	1.13	2.652	1
744	30.7886	CIB	2.83	1.07	2.648	0.97
744	30.7969	CIB	2.71	0.93	2.746	1.01
689	30.801	CIB	2.86	0.93	2.742	0.98
744	30.8062	CIB	2.66	0.99	2.712	0.96
744	30.8221	CIB	2.65	0.96	2.69	0.98
744	30.8237	CIB	2.68	0.97	2.68	0.99
744	30.8304	CIB	2.6	1.03	2.68	0.98
744	30.838	CIB	2.81	1	2.638	1
744	30.843	CIB	2.66	0.96	2.65	0.99
522	30.8451	CIB	2.44	1.05	2.686	0.96
744	30.8455	CIB	2.74	0.91	2.72	0.97
689	30.85	CIB	2.78	0.89	2.702	1.02
744	30.8547	CIB	2.98	1.05	2.796	0.97
522	30.8548	CIB	2.57	1.19	2.804	1.01
744	30.8581	CIB	2.91	0.83	2.764	0.99
744	30.8631	CIB	2.78	1.08	2.5782	0.94
748	30.8654	CIB	2.58	0.79	2.6142	0.88
1218	30.87	CIB	2.05	0.81	2.5142	0.9
744	30.8723	CIB	2.75	0.91	2.4082	0.77
1218	30.88	CIB	2.41	2.4762	0.86	NA
574	30.8804	CIB	2.25	0.56	2.608	0.97
744	30.8815	CIB	2.92	1.18	2.466	0.98
744	30.889	CIB	2.71	1.24	2.348	0.98
77	30.894	CIB	1.82	0.99	2.452	1.11
563	30.894	CIB	2.04	0.93	2.478	1.11
744	30.8983	CIB	2.9	1.2	2.5	1.08
744	30.9058	CIB	2.79	1.19	2.678	1.14
744	30.9133	CIB	2.95	1.1	2.842	1.14
529	30.9248	CIB	2.93	1.24	2.762	1.09
744	30.9284	CIB	2.64	0.96	2.73	1.04
1218	30.94	CIB	2.5	0.97	2.628	1.01
744	30.9447	CIB	2.63	0.93	2.592	0.87
690	30.9507	CIB	2.44	0.96	2.536	0.8
748	30.9579	CIB	2.75	0.55	2.452	0.77
744	30.9626	CIB	2.36	0.59	2.45	0.76
1218	30.97	CIB	2.08	0.81	2.372	0.72
744	30.9745	CIB	2.62	0.89	2.34	0.76
1218	30.98	CIB	2.05	0.75	2.388	0.82
689	30.983	CIB	2.59	0.75	2.498	0.85
744	30.9893	CIB	2.6	0.9	2.438	0.86
744	30.9968	CIB	2.63	0.96	2.526	0.87
744	31.0101	CIB	2.32	0.95	2.51	0.88
689	31.014	CIB	2.49	0.8	2.432	0.91

744	31.0161	CIB	2.51	0.8	2.416	0.97
1218	31.02	CIB	2.21	1.05	2.426	1.04
522	31.0229	CIB	2.55	1.24	2.414	1.02
522	31.0326	CIB	2.37	1.31	2.38	1.1
744	31.0399	CIB	2.43	0.7	2.458	1.11
522	31.0433	CIB	2.34	1.22	2.406	1.08
690	31.049	CIB	2.6	1.1	2.446	1.01
522	31.0509	CIB	2.29	1.06	2.504	1.04
689	31.055	CIB	2.57	0.97	2.54	1.02
744	31.0562	CIB	2.72	0.87	2.488	0.93
522	31.0595	CIB	2.52	1.11	2.522	0.95
1218	31.06	CIB	2.34	0.66	2.516	0.96
522	31.0692	CIB	2.46	1.12	2.454	1.04
744	31.0696	CIB	2.54	1.03	2.456	1.01
522	31.0789	CIB	2.41	1.28	2.524	1.11
744	31.083	CIB	2.53	0.94	2.456	1.08
522	31.0886	CIB	2.68	1.18	2.378	1.01
1218	31.09	CIB	2.12	0.97	2.398	1.02
77	31.0924	CIB	2.15	0.69	2.398	1.01
522	31.0993	CIB	2.51	1.32	2.34	1.01
744	31.0994	CIB	2.53	0.91	2.446	1
522	31.109	CIB	2.39	1.18	2.51	1.05
744	31.1217	CIB	2.65	0.88	2.516	0.99
522	31.122	CIB	2.47	0.96	2.502	1.01
744	31.1291	CIB	2.54	1.03	2.558	0.99
522	31.1327	CIB	2.46	0.99	2.546	1.03
689	31.137	CIB	2.67	1.07	2.536	1.01
690	31.1383	CIB	2.59	1.08	2.514	1.01
744	31.144	CIB	2.42	0.87	2.534	0.95
522	31.1457	CIB	2.43	1.04	2.492	0.93
748	31.1535	CIB	2.56	0.7	2.456	0.93
522	31.1564	CIB	2.46	0.98	2.496	0.96
744	31.1603	CIB	2.41	1.07	2.446	0.97
522	31.1672	CIB	2.62	0.99	2.412	1.04
1218	31.17	CIB	2.18	1.12	2.4	1.04
744	31.1707	CIB	2.39	1.02	2.502	0.97
522	31.178	CIB	2.4	0.99	2.482	0.96
689	31.178	CIB	2.92	0.73	2.53	0.97
522	31.1898	CIB	2.52	0.92	2.566	0.94
744	31.19	CIB	2.42	1.2	2.58	0.98
522	31.1995	CIB	2.57	0.87	2.448	1.02
744	31.2049	CIB	2.47	1.19	2.426	1.04
1218	31.21	CIB	2.26	0.94	2.43	1.03
522	31.2103	CIB	2.41	0.98	2.334	1.01
744	31.2138	CIB	2.44	1.18	2.364	0.9
522	31.2189	CIB	2.09	0.74	2.448	0.93
689	31.222	CIB	2.62	0.67	2.41	0.89
690	31.2277	CIB	2.68	1.1	2.404	0.88
522	31.2286	CIB	2.22	0.75	2.474	0.93
744	31.2361	CIB	2.41	1.16	2.46	1.05
522	31.2415	CIB	2.44	0.99	2.406	1.02
744	31.248	CIB	2.55	1.27	2.504	1.03
1218	31.25	CIB	2.41	0.95	2.538	1.04
689	31.259	CIB	2.71	0.78	2.52	1.05
744	31.2644	CIB	2.58	1.22	2.484	0.97
522	31.2652	CIB	2.35	1.03	2.46	0.95
522	31.2652	CIB	2.37	0.87	2.462	1.04
522	31.2749	CIB	2.29	0.87	2.422	0.93
744	31.2778	CIB	2.72	1.21	2.46	0.92
1218	31.28	CIB	2.38	0.69	2.518	0.93

522	31.2846	CIB	2.54	0.95	2.602	1.01
744	31.2882	CIB	2.66	0.95	2.562	0.95
744	31.3001	CIB	2.71	1.24	2.588	1
522	31.3072	CIB	2.52	0.92	2.558	1.01
748	31.3157	CIB	2.51	0.96	2.476	0.92
522	31.3191	CIB	2.39	0.98	2.436	0.83
1218	31.32	CIB	2.25	0.48	2.39	0.82
690	31.3259	CIB	2.51	0.81	2.382	0.8
522	31.3277	CIB	2.29	0.89	2.354	0.67
744	31.3342	CIB	2.47	0.85	2.38	0.78
574	31.336	CIB	2.25	0.34	2.402	0.8
522	31.3363	CIB	2.38	1.01	2.414	0.79
689	31.341	CIB	2.62	0.9	2.338	0.71
744	31.3488	CIB	2.35	0.85	2.36	0.81
1218	31.35	CIB	2.09	0.46	2.404	0.76
522	31.3503	CIB	2.36	0.83	2.326	0.72
744	31.359	CIB	2.6	0.77	2.348	0.76
563	31.3616	CIB	2.23	0.7	2.398	0.82
744	31.375	CIB	2.46	1.06	2.438	0.86
1218	31.38	CIB	2.34	0.73	2.42	0.92
744	31.3895	CIB	2.56	1.03	2.59	1.04
744	31.4012	CIB	2.51	1.08	2.498	0.97
522	31.4085	CIB	3.08	1.29	2.464	0.97
1218	31.41	CIB	2	0.73	2.484	0.94
690	31.4152	CIB	2.17	0.71	2.454	0.93
744	31.4172	CIB	2.66	0.91	2.318	0.9
522	31.4182	CIB	2.36	1.02	2.412	0.95
522	31.4182	CIB	2.4	1.13	2.536	1.03
522	31.43	CIB	2.47	1	2.516	1.06
744	31.4332	CIB	2.79	1.11	2.416	1
522	31.4397	CIB	2.56	1.03	2.482	0.95
1218	31.44	CIB	1.86	0.71	2.512	0.94
689	31.443	CIB	2.73	0.89	2.432	0.93
744	31.4463	CIB	2.62	0.94	2.46	0.93
522	31.4526	CIB	2.39	1.08	2.658	0.97
744	31.4594	CIB	2.7	1.01	2.5488	0.94
744	31.4682	CIB	2.85	0.92	2.4968	0.98
1218	31.47	CIB	2.18	0.77	2.5228	1
522	31.472	CIB	2.36	1.11	2.4928	1.02
522	31.472	CIB	2.52	1.17	2.4428	0.98
522	31.4806	CIB	2.55	1.12	2.516	0.99
689	31.484	CIB	2.6	0.73	2.522	0.99
744	31.49	CIB	2.55	0.82	2.558	1
522	31.499	CIB	2.39	1.1	2.508	0.94
522	31.499	CIB	2.7	1.21	2.488	0.95
1218	31.5	CIB	2.3	0.84	2.54	1.03
744	31.5046	CIB	2.5	0.8	2.536	0.95
522	31.5097	CIB	2.81	1.18	2.504	0.86
748	31.5112	CIB	2.37	0.74	2.56	0.86
744	31.5177	CIB	2.54	0.75	2.476	0.88
689	31.529	CIB	2.58	0.84	2.346	0.8
77	31.5296	CIB	2.08	0.87	2.42	0.83
1218	31.53	CIB	2.16	0.81	2.428	0.9
744	31.5352	CIB	2.74	0.87	2.458	0.97
522	31.542	CIB	2.58	1.13	2.568	0.97
522	31.542	CIB	2.73	1.17	2.666	1.03
744	31.5468	CIB	2.63	0.89	2.5488	1.05
522	31.555	CIB	2.65	1.11	2.5488	0.96
1218	31.56	CIB	2.15	0.94	2.5288	0.95
744	31.5628	CIB	2.58	0.67	2.5168	0.99

522	31.5647	CIB	2.63	1.13	2.4608	1
689	31.566	CIB	2.57	1.09	2.544	0.97
522	31.5754	CIB	2.37	1.15	2.554	1.03
744	31.5788	CIB	2.57	0.81	2.454	1.02
522	31.5862	CIB	2.63	0.95	2.454	0.96
1218	31.59	CIB	2.13	1.11	2.46	0.9
744	31.5919	CIB	2.57	0.8	2.456	0.93
522	31.6045	CIB	2.4	0.81	2.42	0.92
522	31.6045	CIB	2.55	0.98	2.514	0.86
744	31.608	CIB	2.45	0.92	2.48	0.9
689	31.613	CIB	2.6	0.79	2.444	0.91
522	31.6153	CIB	2.4	1.01	2.502	0.87
1218	31.62	CIB	2.22	0.83	2.538	0.9
744	31.6211	CIB	2.84	0.79	2.528	0.95
522	31.6282	CIB	2.63	1.09	2.568	0.99
744	31.6313	CIB	2.55	1.05	2.604	1.02
522	31.6401	CIB	2.6	1.18	2.546	1
522	31.6497	CIB	2.4	1.01	2.525	0.91
689	31.65	CIB	2.55	0.68	2.555	0.86
1218	31.65	CIB	0.65	2.515	0.82	NA
744	31.6502	CIB	2.67	0.8	2.5375	0.82
522	31.6584	CIB	2.44	0.94	2.5475	0.83
744	31.6647	CIB	2.49	1.01	2.578	0.91
522	31.6745	CIB	2.59	0.75	2.42	0.9
744	31.6793	CIB	2.7	1.05	2.508	0.91
77	31.6814	CIB	1.88	0.73	2.476	0.89
690	31.6832	CIB	2.88	1	2.598	0.97
522	31.6842	CIB	2.33	0.94	2.578	0.86
522	31.6842	CIB	3.2	1.13	2.712	0.96
689	31.686	CIB	2.6	0.52	2.538	0.9
744	31.6982	CIB	2.55	1.21	2.528	0.81
1218	31.7	CIB	2.01	0.69	2.394	0.76
522	31.7025	CIB	2.28	0.52	2.41	0.89
522	31.7025	CIB	2.53	0.88	2.338	0.81
744	31.7099	CIB	2.68	1.15	2.432	0.81
522	31.7133	CIB	2.19	0.82	2.454	0.94
689	31.719	CIB	2.48	0.67	2.458	0.97
522	31.723	CIB	2.39	1.16	2.344	0.9
744	31.7244	CIB	2.55	1.04	2.374	0.94
1218	31.73	CIB	2.11	0.82	2.406	1.02
522	31.7348	CIB	2.34	1.03	2.374	0.97
744	31.7376	CIB	2.64	1.07	2.382	0.98
77	31.7413	CIB	2.23	0.89	2.478	0.98
522	31.7445	CIB	2.59	1.11	2.482	0.99
689	31.748	CIB	2.59	0.78	2.438	1
744	31.7536	CIB	2.36	1.09	2.482	1.02
522	31.7553	CIB	2.42	1.13	2.394	0.99
744	31.7652	CIB	2.45	0.98	2.398	1.04
1218	31.77	CIB	2.15	0.96	2.356	0.9
744	31.771	CIB	2.61	1.04	2.352	0.94
574	31.7736	CIB	2.15	0.4	2.358	0.94
690	31.7815	CIB	2.4	1.33	2.4068	0.88
744	31.7856	CIB	2.48	0.98	2.3508	0.8
1218	31.79	CIB	2.39	0.67	2.3768	0.92
689	31.791	CIB	2.33	0.63	2.3788	0.86
522	31.7919	CIB	2.28	1	2.3928	0.89
522	31.7919	CIB	2.41	1.01	2.346	0.97
744	31.7958	CIB	2.55	1.15	2.398	1.02
522	31.8038	CIB	2.16	1.07	2.43	1.03
744	31.8118	CIB	2.59	0.89	2.462	1.01

522	31.8156	CIB	2.44	1.04	2.456	1.01
744	31.8249	CIB	2.57	0.89	2.4304	0.89
522	31.8253	CIB	2.52	1.16	2.3884	0.94
1218	31.83	CIB	2.03	0.48	2.3504	0.88
522	31.835	CIB	2.38	1.11	2.3404	0.86
1218	31.84	CIB	2.25	0.75	2.2364	0.79
744	31.8438	CIB	2.52	0.8	2.336	0.86
77	31.8546	CIB	2	0.82	2.384	0.8
744	31.8613	CIB	2.53	0.84	2.492	0.83
748	31.869	CIB	2.62	0.77	2.47	0.93
689	31.872	CIB	2.79	0.93	2.584	0.93
522	31.8759	CIB	2.41	1.27	2.508	0.89
744	31.8773	CIB	2.57	0.85	2.508	0.9
1218	31.88	CIB	2.15	0.63	2.428	0.92
744	31.8832	CIB	2.62	0.81	2.384	0.86
522	31.8899	CIB	2.39	1.06	2.4	0.85
563	31.8976	CIB	2.19	0.93	2.482	0.94
744	31.8992	CIB	2.65	0.8	2.462	0.99
522	31.8996	CIB	2.56	1.1	2.3898	0.93
522	31.9061	CIB	2.52	1.08	2.5078	0.93
1218	31.91	CIB	2.03	0.75	2.5118	0.98
689	31.913	CIB	2.78	0.94	2.4818	0.95
744	31.9167	CIB	2.67	1.05	2.4318	0.93
522	31.9169	CIB	2.41	0.92	2.466	0.96
522	31.9298	CIB	2.27	1.01	2.428	0.9
1218	31.93	CIB	2.2	0.86	2.376	0.89
744	31.9312	CIB	2.59	0.68	2.402	0.86
522	31.9427	CIB	2.41	1	2.428	0.8
744	31.9429	CIB	2.54	0.73	2.412	0.8
744	31.9545	CIB	2.4	0.74	2.408	0.85
522	31.96	CIB	2.12	0.83	2.4075	0.82
689	31.96	CIB	2.57	0.96	2.32	0.79
1218	31.96	CIB	0.85	2.2825	0.84	NA
574	31.9628	CIB	2.19	0.56	2.3525	0.88
522	31.9675	CIB	2.25	0.98	2.3675	0.84
522	31.9761	CIB	2.4	1.03	2.376	0.88
744	31.9836	CIB	2.63	0.77	2.35	0.95
522	31.9837	CIB	2.41	1.04	2.428	0.98
1218	31.99	CIB	2.06	0.92	2.476	0.9
522	31.9933	CIB	2.64	1.14	2.5	0.92
689	31.995	CIB	2.64	0.61	2.51	0.94
744	31.9997	CIB	2.75	0.88	2.578	0.98
522	31.9998	CIB	2.46	1.13	2.472	0.9
522	32.0074	CIB	2.4	1.12	2.464	0.97
1218	32.01	CIB	2.11	0.77	2.398	0.99
744	32.0113	CIB	2.6	0.97	2.458	0.94
522	32.016	CIB	2.42	0.94	2.466	0.89
744	32.0288	CIB	2.76	0.91	2.558	0.93
522	32.0289	CIB	2.44	0.88	2.568	0.9
689	32.03	CIB	2.57	0.96	2.588	0.9
748	32.0312	CIB	2.65	0.81	2.552	0.92
522	32.0375	CIB	2.52	0.94	2.512	0.89
744	32.0448	CIB	2.58	1	2.368	0.88
77	32.0499	CIB	2.24	0.75	2.254	NA
1218	32.05	CIB	1.85	2.262	0.87	NA
522	32.0612	CIB	2.08	0.81	2.224	0.94
744	32.071	CIB	2.56	0.91	2.244	1.06
563	32.0763	CIB	2.39	1.29	2.43	0.97
522	32.0774	CIB	2.34	1.21	2.476	1
689	32.079	CIB	2.78	0.65	2.362	1

522	32.0914	CIB	2.31	0.94	2.382	0.92
1218	32.1	CIB	1.99	0.91	2.394	0.9
744	32.1016	CIB	2.49	0.91	2.36	1
522	32.1054	CIB	2.4	1.1	2.412	0.99
522	32.1108	CIB	2.61	1.12	2.538	1.04
744	32.1161	CIB	2.57	0.91	2.6	1.04
522	32.1215	CIB	2.62	1.15	2.664	1.06
689	32.132	CIB	2.8	0.94	2.672	1.03
522	32.1323	CIB	2.72	1.17	2.53	1
744	32.1351	CIB	2.65	0.98	2.55	1.01
1218	32.14	CIB	1.86	0.76	2.478	1.05
744	32.1453	CIB	2.72	1.19	2.454	1.06
522	32.1495	CIB	2.44	1.13	2.448	1.11
522	32.1495	CIB	2.6	1.25	2.624	1.17
522	32.1581	CIB	2.62	1.22	2.634	1.09
744	32.1613	CIB	2.74	1.06	2.714	1.05
522	32.1657	CIB	2.77	0.77	2.722	0.92
744	32.1744	CIB	2.84	0.94	2.596	0.81
689	32.179	CIB	2.64	0.59	2.544	0.83
1218	32.18	CIB	1.99	0.7	2.552	0.87
522	32.1851	CIB	2.48	1.13	2.532	0.85
744	32.1889	CIB	2.81	1.01	2.498	0.95
744	32.202	CIB	2.74	0.81	2.654	1.02
522	32.2055	CIB	2.47	1.09	2.524	0.99
744	32.2079	CIB	2.77	1.06	2.462	1.01
1218	32.21	CIB	1.83	2.424	1.11	NA
522	32.2152	CIB	2.5	1.09	2.456	NA
522	32.2152	CIB	2.55	1.18	2.38	1.12
744	32.2224	CIB	2.63	1.09	2.504	1.04
522	32.2249	CIB	2.39	1.11	2.508	1.02
689	32.226	CIB	2.45	0.73	2.512	1.01
748	32.2268	CIB	2.52	1.01	2.352	0.93
744	32.2326	CIB	2.57	1.1	2.406	0.96
77	32.2339	CIB	1.83	0.71	2.442	1.05
522	32.2357	CIB	2.66	1.27	2.468	1.1
744	32.2486	CIB	2.63	1.15	2.4006	1.03
522	32.2497	CIB	2.65	1.28	2.3926	1.01
1218	32.25	CIB	2.23	0.72	2.4246	1.03
563	32.255	CIB	1.79	0.63	2.4446	1
522	32.2583	CIB	2.82	1.35	2.4706	0.95
689	32.261	CIB	2.73	1	2.542	1.05
744	32.2618	CIB	2.78	1.03	2.72	1.15
522	32.2669	CIB	2.59	1.24	2.72	1.02
522	32.2745	CIB	2.68	1.14	2.718	1.06
744	32.2778	CIB	2.82	0.71	2.696	1.07
522	32.2842	CIB	2.72	1.17	2.718	1.06
744	32.2909	CIB	2.67	1.09	2.654	0.98
522	32.2917	CIB	2.7	1.19	2.62	1.05
1218	32.3	CIB	2.36	0.74	2.584	1.08
689	32.302	CIB	2.65	1.05	2.582	1.04
522	32.3036	CIB	2.54	1.31	2.574	1.04
744	32.3069	CIB	2.66	0.89	2.634	1.13
522	32.3122	CIB	2.66	1.23	2.52	1.08
744	32.32	CIB	2.66	1.17	2.53	1.04
77	32.3233	CIB	2.08	0.8	2.432	1.05
744	32.3331	CIB	2.59	1.12	2.46	1.02
574	32.3371	CIB	2.17	0.94	2.374	0.97
689	32.338	CIB	2.8	1.09	2.482	1.02
1218	32.34	CIB	2.23	0.92	2.502	1.01
744	32.3418	CIB	2.62	1.05	2.582	1.04

744	32.3579	CIB	2.69	1.05	2.568	1.04
522	32.3585	CIB	2.57	1.07	2.66	1.11
744	32.368	CIB	2.73	1.09	2.604	1.11
522	32.3682	CIB	2.69	1.27	2.608	1.08
1218	32.37	CIB	2.34	1.06	2.652	1.07
744	32.3782	CIB	2.71	0.9	2.63	1.05
689	32.385	CIB	2.79	1.02	2.592	1.03
744	32.3913	CIB	2.62	1.01	2.668	1.05
522	32.3919	CIB	2.5	1.15	2.58	1.07
522	32.3919	CIB	2.72	1.18	2.562	1.13
1218	32.4	CIB	2.27	0.98	2.57	1.14
522	32.4048	CIB	2.7	1.32	2.606	1.19
744	32.4074	CIB	2.66	1.09	2.5194	1.14
522	32.4145	CIB	2.68	1.38	2.5814	1.15
1218	32.42	CIB	2.29	0.94	2.4394	1.04
744	32.4205	CIB	2.58	1.04	2.3274	1.03
77	32.4316	CIB	1.99	0.76	2.3254	0.97
563	32.4336	CIB	2.1	1.05	2.386	0.95
522	32.435	CIB	2.67	1.05	2.3236	0.92
744	32.4365	CIB	2.59	0.87	2.4316	0.96
1218	32.44	CIB	2.27	0.89	2.3496	0.9
522	32.4447	CIB	2.53	0.96	2.3576	0.9
574	32.4483	CIB	1.69	0.71	2.3756	0.96
744	32.4525	CIB	2.71	1.05	2.4	0.99
522	32.4533	CIB	2.68	1.2	2.3675	0.96
522	32.4651	CIB	2.39	1.05	2.6225	1.02
1218	32.47	CIB	0.77	2.595	0.99	NA
744	32.4816	CIB	2.71	1.05	2.5195	0.91
689	32.483	CIB	2.6	0.89	2.602	0.92
1218	32.49	CIB	2.38	0.77	2.4476	0.96
744	32.4976	CIB	2.72	1.1	2.4456	0.96
522	32.5028	CIB	1.83	0.97	2.2996	0.95
744	32.5093	CIB	2.7	1.09	2.388	0.98
77	32.5161	CIB	1.87	0.84	2.338	0.98
748	32.5177	CIB	2.82	0.91	2.417	0.94
522	32.519	CIB	2.47	1.09	2.405	0.93
1218	32.52	CIB	2.22	0.75	2.571	0.93
689	32.532	CIB	2.64	1.05	2.555	0.94
744	32.5384	CIB	2.7	0.87	2.5176	0.87
744	32.553	CIB	2.74	0.95	2.4466	0.84
1218	32.56	CIB	2.28	0.74	2.4006	0.85
77	32.5614	CIB	1.87	0.58	2.3866	0.91
522	32.5664	CIB	2.41	1.11	2.3686	0.9
522	32.5664	CIB	2.63	1.17	2.406	0.95
689	32.567	CIB	2.65	0.91	2.522	0.98
744	32.5705	CIB	2.47	0.98	2.616	1.01
744	32.5821	CIB	2.45	0.71	2.602	0.97
748	32.5845	CIB	2.88	1.28	2.5178	0.94
744	32.5981	CIB	2.56	0.95	2.5318	0.94
1218	32.6	CIB	2.23	0.79	2.5318	1.03
689	32.608	CIB	2.54	0.99	2.5198	1
522	32.6095	CIB	2.45	1.16	2.4558	1.07
744	32.6112	CIB	2.82	1.13	2.492	1.11
563	32.6123	CIB	2.24	1.29	2.544	1.15
744	32.6185	CIB	2.41	0.99	2.5196	1.15
529	32.6212	CIB	2.8	1.2	2.4676	1.19
1218	32.63	CIB	2.33	1.13	2.5376	1.14
522	32.6332	CIB	2.56	1.33	2.6056	1.16
744	32.6389	CIB	2.59	1.04	2.5736	1.15
689	32.639	CIB	2.75	1.1	2.612	1.19

744	32.6447	CIB	2.64	1.13	2.62	1.15
522	32.6525	CIB	2.52	1.37	2.614	1.17
744	32.6593	CIB	2.6	1.09	2.564	1.17
522	32.6644	CIB	2.56	1.17	2.5225	1.16
744	32.6695	CIB	2.5	1.1	2.5705	1.12
1218	32.67	CIB	2.43	1.06	2.6065	1.16
529	32.6748	CIB	2.76	1.2	2.5925	1.13
522	32.6762	CIB	2.78	1.25	2.6745	1.07
744	32.684	CIB	2.49	1.04	2.812	1.02
689	32.69	CIB	2.91	0.82	2.794	0.97
522	32.6967	CIB	3.12	0.77	2.62	1.07
744	32.6986	CIB	2.67	0.98	2.5588	1.06
563	32.7016	CIB	1.91	1.72	2.5328	1.08
1218	32.71	CIB	2.18	0.99	2.4108	1.14
689	32.712	CIB	2.78	0.94	2.3608	1.16
744	32.7146	CIB	2.51	1.09	2.3448	0.96
744	32.7161	CIB	2.42	1.06	2.424	0.76
574	32.7179	CIB	1.83	0.72	2.3734	0.76
529	32.7284	CIB	2.58	0.01	2.4094	0.7
1218	32.73	CIB	2.53	0.94	2.5234	0.7
689	32.745	CIB	2.69	0.79	2.6874	0.77
748	32.7467	CIB	2.99	1.04	2.637	0.95
744	32.7482	CIB	2.65	1.07	2.4296	0.89
1218	32.75	CIB	2.33	0.94	2.4036	0.95
77	32.7504	CIB	1.49	0.6	2.2673	0.93
744	32.7571	CIB	2.56	1.09	2.2053	0.9
1218	32.77	CIB	2.31	0.96	2.2596	0.96
744	32.772	CIB	2.34	0.93	2.5136	1.08
522	32.7721	CIB	2.6	1.23	2.4567	1.03
744	32.7854	CIB	2.76	1.18	2.5691	1.01
1218	32.79	CIB	2.28	0.84	2.6311	1.05
689	32.792	CIB	2.87	0.89	2.5852	1.03
744	32.8017	CIB	2.65	1.12	2.5732	1.03
1218	32.81	CIB	2.37	1.12	2.7161	1.15
744	32.8106	CIB	2.7	1.19	2.6481	1.19
689	32.825	CIB	2.99	1.41	2.6421	1.21
744	32.8314	CIB	2.53	1.09	2.79	1.08
522	32.8335	CIB	2.62	1.25	2.772	1.07
522	32.8335	CIB	3.11	0.44	2.632	1.01
522	32.8357	CIB	2.61	1.17	2.682	1.02
1218	32.84	CIB	2.29	1.1	2.678	0.96
689	32.841	CIB	2.78	1.12	2.626	1.09
744	32.8463	CIB	2.6	0.96	2.682	1.07
744	32.8537	CIB	2.85	1.11	2.816	0.99
522	32.855	CIB	2.89	1.07	2.77	1.02
522	32.855	CIB	2.96	0.71	2.798	1.06
522	32.8572	CIB	2.55	1.27	2.6733	1
744	32.8582	CIB	2.74	1.13	2.5406	0.95
1218	32.86	CIB	2.23	0.82	2.4866	1.06
1218	32.86	CIB	2.23	0.82	2.5306	1.04
529	32.8704	CIB	2.69	1.27	2.5006	1.03
689	32.874	CIB	2.77	1.15	2.5573	1.06
744	32.876	CIB	2.59	1.1	2.636	1.2
1218	32.88	CIB	2.51	0.95	2.564	1.16
563	32.8803	CIB	2.62	1.54	2.494	1.11
744	32.8909	CIB	2.33	1.05	2.516	1.09
1218	32.9	CIB	2.42	0.9	2.566	1.12
744	32.9073	CIB	2.7	1	2.544	1.07
689	32.911	CIB	2.76	1.1	2.59	1.14
522	32.9132	CIB	2.51	1.3	2.566	1.15

522	32.9132	CIB	2.56	1.39	2.556	1.13
1218	32.92	CIB	2.3	0.98	2.46	1.14
744	32.9206	CIB	2.65	0.89	2.514	1.11
1218	32.93	CIB	2.28	2.538	1.04	NA
522	32.9315	CIB	2.78	1.19	2.478	0.96
744	32.9355	CIB	2.68	1.09	2.388	0.98
77	32.9394	CIB	2	0.66	2.422	1.01
1218	32.94	CIB	2.2	0.98	2.454	1.03
522	32.9401	CIB	2.45	1.15	2.49	1.04
748	32.9423	CIB	2.94	1.25	2.606	1.17
689	32.945	CIB	2.86	1.17	2.646	1.21
744	32.9504	CIB	2.58	1.29	2.586	1.16
522	32.9509	CIB	2.4	1.19	2.582	1.16
574	32.9515	CIB	2.15	0.9	2.42	1.12
744	32.9652	CIB	2.92	1.24	2.482	1.08
1218	32.97	CIB	2.05	1	2.6	1.13
689	32.974	CIB	2.89	1.08	2.706	1.21
689	32.976	CIB	2.99	1.41	2.704	1.21
522	32.9768	CIB	2.68	1.3	2.812	1.23
744	32.9801	CIB	2.91	1.27	2.78	1.28
744	32.9965	CIB	2.59	1.1	2.678	1.17
522	32.9983	CIB	2.73	1.32	2.58	1.12
744	33.0099	CIB	2.48	0.88	2.556	1.17
1218	33.01	CIB	2.19	1.03	2.584	1.16
522	33.0198	CIB	2.79	1.5	2.582	1.16
689	33.021	CIB	2.73	1.07	2.624	1.28
744	33.0232	CIB	2.72	1.34	2.642	1.27
522	33.0263	CIB	2.69	1.44	2.676	1.24
1218	33.03	CIB	2.28	1.01	2.656	1.34
744	33.0322	CIB	2.96	1.36	2.584	1.34
522	33.0328	CIB	2.63	1.54	2.564	1.34
522	33.0403	CIB	2.36	1.37	2.662	1.41
522	33.0457	CIB	2.59	1.42	2.704	1.43
744	33.0485	CIB	2.77	1.37	2.72	1.41
689	33.052	CIB	3.17	1.43	2.862	1.43
744	33.0553	CIB	2.71	1.44	2.89	1.42
563	33.0585	CIB	3.07	1.5	2.882	1.44
744	33.0587	CIB	2.73	1.37	2.672	1.36
522	33.0594	CIB	2.73	1.45	2.698	1.35
1218	33.06	CIB	2.12	1.03	2.638	1.33
744	33.064	CIB	2.84	1.39	2.618	1.33
522	33.0654	CIB	2.77	1.42	2.662	1.31
522	33.0713	CIB	2.63	1.36	2.802	1.4
744	33.072	CIB	2.95	1.34	2.776	1.44
522	33.0739	CIB	2.82	1.51	2.82	1.45
522	33.0781	CIB	2.71	1.59	2.866	1.46
744	33.08	CIB	2.99	1.47	2.814	1.48
744	33.0854	CIB	2.86	1.4	2.798	1.51
522	33.0875	CIB	2.69	1.44	2.82	1.41
522	33.0875	CIB	2.74	1.64	2.77	1.4
1218	33.09	CIB	1.08	2.75	1.38	NA
744	33.0927	CIB	2.79	1.46	2.82	1.36
689	33.094	CIB	2.78	1.27	2.68	1.25
744	33.0987	CIB	2.97	1.37	2.752	1.31
1218	33.1	CIB	2.18	1.09	2.748	1.31
744	33.106	CIB	3.04	1.38	2.72	1.37
522	33.1097	CIB	2.77	1.46	2.728	1.34
522	33.1114	CIB	2.64	1.54	2.74	1.36
744	33.114	CIB	3.01	1.24	2.712	1.36
1218	33.12	CIB	2.24	1.17	2.774	1.36

744	33.1207	CIB	2.9	1.37	2.79	1.33
744	33.1254	CIB	3.08	1.5	2.8	1.37
744	33.13	CIB	2.72	1.38	2.954	1.4
689	33.131	CIB	3.06	1.41	2.978	1.41
689	33.133	CIB	3.01	1.32	2.798	1.36
744	33.1387	CIB	3.02	1.46	2.7	1.31
1218	33.14	CIB	2.18	1.23	2.702	1.28
563	33.1435	CIB	2.23	1.13	2.686	1.29
744	33.1441	CIB	3.07	1.26	2.678	1.27
744	33.1567	CIB	2.93	1.36	2.718	1.24
744	33.1654	CIB	2.98	1.36	2.838	1.27
1218	33.17	CIB	2.38	1.09	2.814	1.24
744	33.1727	CIB	2.83	1.26	2.832	1.22
689	33.18	CIB	2.95	1.13	2.84	1.2
744	33.1814	CIB	3.02	1.25	2.848	1.25
744	33.1861	CIB	3.02	1.25	2.756	1.29
77	33.1876	CIB	2.42	1.38	2.806	1.29
1218	33.19	CIB	2.37	1.45	2.804	1.28
522	33.195	CIB	3.2	1.11	2.782	1.38
744	33.1974	CIB	3.01	1.23	2.886	1.34
522	33.2035	CIB	2.91	1.71	3.006	1.32
748	33.2046	CIB	2.94	1.21	2.922	1.32
744	33.2054	CIB	2.97	1.36	2.858	1.37
744	33.2108	CIB	2.78	1.07	2.854	1.31
522	33.2121	CIB	2.69	1.49	2.866	1.33
744	33.2148	CIB	2.89	1.41	2.812	1.3
744	33.2188	CIB	3	1.32	2.822	1.34
689	33.221	CIB	2.7	1.22	2.842	1.3
744	33.2261	CIB	2.83	1.26	2.764	1.3
744	33.2321	CIB	2.79	1.29	2.778	1.35
574	33.234	CIB	2.5	1.4	2.816	1.37
522	33.2351	CIB	3.07	1.59	2.766	1.39
744	33.2395	CIB	2.89	1.32	2.798	1.39
1218	33.24	CIB	2.58	1.35	2.878	1.35
744	33.2475	CIB	2.95	1.3	2.84	1.3
744	33.2521	CIB	2.9	1.19	2.828	1.36
689	33.256	CIB	2.88	1.32	2.898	1.33
522	33.2581	CIB	2.83	1.62	2.774	1.33
744	33.2595	CIB	2.93	1.22	2.75	1.36
1218	33.26	CIB	2.33	1.32	2.758	1.33
744	33.2648	CIB	2.78	1.32	2.736	1.24
744	33.2722	CIB	2.92	1.18	2.778	1.3
744	33.2808	CIB	2.72	1.16	2.858	1.29
689	33.285	CIB	3.14	1.5	2.834	1.27
744	33.2855	CIB	2.73	1.29	2.75	1.29
744	33.2888	CIB	2.66	1.2	2.83	1.36
1218	33.29	CIB	2.5	1.31	2.804	1.38
689	33.297	CIB	3.12	1.48	2.832	1.38
522	33.3016	CIB	3.01	1.61	2.89	1.49
689	33.303	CIB	2.87	1.32	2.81	1.47
522	33.3127	CIB	2.95	1.75	2.764	1.42
563	33.3135	CIB	2.1	1.18	2.658	1.38
744	33.3188	CIB	2.89	1.26	2.46	1.28
1218	33.32	CIB	2.48	2.414	1.16	NA
77	33.3236	CIB	1.88	0.93	2.542	1.19
744	33.3262	CIB	2.72	1.28	2.52	1.26
744	33.3315	CIB	2.74	1.3	2.584	1.3
522	33.3374	CIB	2.78	1.52	2.668	1.4
744	33.3382	CIB	2.8	1.46	2.708	1.49
1218	33.34	CIB	2.3	1.43	2.722	1.5

748	33.3406	CIB	2.92	1.76	2.762	1.55
744	33.3429	CIB	2.81	1.34	2.834	1.62
522	33.3451	CIB	2.98	1.74	2.8882	1.61
522	33.3451	CIB	3.16	1.82	2.8442	1.52
1218	33.35	CIB	2.57	1.41	2.8302	1.61
744	33.3522	CIB	2.7	1.31	2.8102	1.5
522	33.3537	CIB	2.74	1.78	2.6482	1.39
744	33.3595	CIB	2.88	1.18	2.674	1.43
1218	33.36	CIB	2.35	1.25	2.682	1.45
522	33.3681	CIB	2.7	1.64	2.6287	1.39
744	33.3689	CIB	2.74	1.38	2.6067	1.45
1218	33.37	CIB	2.47	1.49	2.7467	1.52
744	33.3742	CIB	2.77	1.49	2.7447	1.48
689	33.379	CIB	3.05	1.58	2.8147	1.58
744	33.3802	CIB	2.69	1.46	2.902	1.56
522	33.3826	CIB	3.09	1.86	2.809	1.53
744	33.3856	CIB	2.91	1.43	2.735	1.51
1218	33.39	CIB	2.31	1.34	2.803	1.62
744	33.3916	CIB	2.68	1.48	2.737	1.51
522	33.392	CIB	3.03	1.97	2.739	1.51
744	33.3976	CIB	2.76	1.33	2.826	1.54
563	33.3985	CIB	2.92	1.44	2.7581	1.51
744	33.4056	CIB	2.74	1.46	2.7141	1.36
1218	33.41	CIB	2.34	1.35	2.7741	1.41
744	33.4116	CIB	2.81	1.23	2.7621	1.38
689	33.412	CIB	3.06	1.58	2.7101	1.38
744	33.4142	CIB	2.86	1.27	2.81	1.41
574	33.4156	CIB	2.48	1.48	2.898	1.51
744	33.4209	CIB	2.84	1.47	2.864	1.48
748	33.4216	CIB	3.25	1.75	2.84	1.52
744	33.4256	CIB	2.89	1.41	2.928	1.57
522	33.4296	CIB	2.74	1.5	2.8585	1.53
522	33.4296	CIB	2.92	1.73	2.8025	1.49
1218	33.43	CIB	2.49	1.27	2.8545	1.55
744	33.4323	CIB	2.97	1.56	2.9125	1.58
748	33.4383	CIB	3.15	1.68	2.8945	1.55
744	33.4389	CIB	3.03	1.64	2.966	1.58
522	33.4432	CIB	2.83	1.6	2.8472	1.55
744	33.4436	CIB	2.85	1.41	2.8312	1.54
1218	33.45	CIB	2.38	1.44	2.8552	1.5
522	33.4517	CIB	3.07	1.59	2.8792	1.51
689	33.452	CIB	3.15	1.47	2.8712	1.54
744	33.4523	CIB	2.95	1.63	2.962	1.55
744	33.4583	CIB	2.81	1.56	2.934	1.57
744	33.4656	CIB	2.83	1.52	2.8391	1.57
522	33.4688	CIB	2.93	1.65	2.8271	1.56
1218	33.47	CIB	2.68	1.5	2.8391	1.58
744	33.4716	CIB	2.89	1.59	2.7411	1.5
744	33.4803	CIB	2.87	1.65	2.7591	1.48
563	33.4835	CIB	2.34	1.12	2.762	1.44
689	33.485	CIB	2.69	1.28	2.7197	1.37
744	33.485	CIB	3.02	1.54	2.6917	1.42
1218	33.49	CIB	2.54	1.53	2.8457	1.48
522	33.4918	CIB	3.01	1.37	2.6977	1.35
744	33.4923	CIB	2.97	1.66	2.7497	1.37
77	33.4968	CIB	2.28	0.93	2.568	1.25
744	33.497	CIB	2.95	1.38	2.558	1.23
574	33.5	CIB	1.63	0.89	2.574	1.17
748	33.5051	CIB	2.96	1.27	2.728	1.27
748	33.5075	CIB	3.05	1.4	2.6624	1.3

744	33.5076	CIB	3.05	1.39	2.9024	1.36
1218	33.51	CIB	2.62	1.56	2.9224	1.42
689	33.513	CIB	2.83	1.16	2.8905	1.45
522	33.5191	CIB	3.06	1.6	2.8754	1.4
1218	33.52	CIB	1.56	2.875	1.33	NA
744	33.525	CIB	2.99	1.14	2.955	1.37
522	33.5277	CIB	2.62	1.19	2.8625	1.32
748	33.5314	CIB	3.15	1.35	2.778	1.2
744	33.5317	CIB	2.69	1.35	2.7	1.17
563	33.5345	CIB	2.44	0.97	2.6781	1.23
744	33.5383	CIB	2.6	1	2.5301	1.21
1218	33.54	CIB	2.51	1.5	2.4661	1.18
744	33.5442	CIB	2.41	1.22	2.4661	1.22
522	33.5461	CIB	2.37	1.21	2.3961	1.25
689	33.548	CIB	2.44	1.18	2.398	1.23
522	33.5522	CIB	2.25	1.15	2.38	1.2
522	33.5522	CIB	2.52	1.37	2.396	1.2
748	33.5576	CIB	2.32	1.08	2.4128	1.3
744	33.558	CIB	2.45	1.23	2.4168	1.28
1218	33.56	CIB	2.52	1.67	2.3928	1.21
563	33.564	CIB	2.27	1.03	2.4048	1.21
744	33.5667	CIB	2.4	1.02	2.3908	1.17
522	33.5676	CIB	2.38	1.07	2.3575	1.11
522	33.5676	CIB	2.38	1.05	1.17	NA
1218	33.57	CIB	1.4	2.355	1.2	NA
522	33.5769	CIB	2.27	1.32	2.445	1.22
689	33.578	CIB	2.39	1.18	2.4792	1.31
689	33.581	CIB	2.74	1.17	2.3514	1.17
1218	33.59	CIB	2.52	1.49	2.3414	1.13
748	33.5981	CIB	1.84	0.71	2.3174	1.18
522	33.6015	CIB	2.22	1.08	2.2864	1.27
522	33.6015	CIB	2.27	1.43	2.225	1.17
1218	33.61	CIB	2.58	1.64	2.265	1.23
689	33.611	CIB	2.21	0.97	2.299	1.26
522	33.6138	CIB	2.04	1.02	2.239	1.13
522	33.623	CIB	2.39	1.26	2.21	1.12
748	33.6291	CIB	1.97	0.77	2.21	1.17
1218	33.63	CIB	2.44	1.56	2.226	1.23
522	33.6307	CIB	2.21	1.24	2.2	1.18
522	33.6377	CIB	2.12	1.31	2.252	1.28
689	33.639	CIB	2.26	1.02	2.12	1.15
522	33.6446	CIB	2.23	1.27	2.16	1.13
748	33.6455	CIB	1.78	0.92	2.2438	1.12
689	33.647	CIB	2.41	2.2378	1.17	NA
1218	33.65	CIB	2.54	1.25	2.1958	1.1
522	33.66	CIB	2.23	1.24	2.2518	1.19
689	33.662	CIB	2.02	0.98	2.2018	1.22
744	33.6642	CIB	2.06	1.29	2.1472	1.18
522	33.6692	CIB	2.16	1.35	2.1392	1.13
1218	33.67	CIB	2.27	1.05	2.1312	1.16
748	33.6763	CIB	2.19	0.97	2.1672	1.11
744	33.6767	CIB	1.98	1.16	2.1272	1.04
522	33.6815	CIB	2.24	1.02	2.091	1.09
744	33.6867	CIB	1.96	0.98	2.165	1.15
1218	33.69	CIB	2.08	1.33	2.179	1.12
522	33.6915	CIB	2.56	1.27	2.0958	1.13
744	33.6967	CIB	2.05	1.01	2.1298	1.11
1218	33.7	CIB	1.82	1.08	2.1108	1.02
689	33.702	CIB	2.13	0.87	1.9638	0.99
748	33.7094	CIB	1.99	0.86	1.9438	1.01

1218	33.71	CIB	1.83	1.15	1.961	0.98
1218	33.71	CIB	1.95	1.11	1.875	0.92
744	33.7105	CIB	1.91	0.89	1.843	0.95
744	33.718	CIB	1.7	0.6	1.904	0.97
689	33.722	CIB	1.83	0.99	1.88	0.9
522	33.7239	CIB	2.13	1.25	1.8565	0.94
689	33.729	CIB	1.83	0.77	1.9005	0.99
1218	33.73	CIB	1.79	1.09	1.9245	1.01
744	33.733	CIB	1.92	0.84	1.7925	0.87
522	33.7393	CIB	1.95	1.1	1.8125	0.88
574	33.746	CIB	1.47	0.57	1.874	0.9
744	33.7467	CIB	1.93	0.81	1.914	0.93
522	33.747	CIB	2.1	1.16	1.8542	0.9
522	33.747	CIB	2.12	0.99	1.9422	0.96
1218	33.75	CIB	1.65	0.98	2.0042	1.05
689	33.753	CIB	1.91	0.87	1.9722	1
522	33.7546	CIB	2.24	1.26	1.9462	1.03
744	33.7592	CIB	1.94	0.88	2.01	1.05
522	33.7616	CIB	1.99	1.16	1.9938	1.04
522	33.7685	CIB	1.97	1.06	1.9698	1
1218	33.77	CIB	1.83	0.84	1.9978	1.08
689	33.772	CIB	2.12	1.08	1.9998	1
522	33.7724	CIB	2.08	1.26	1.8758	0.96
744	33.7742	CIB	2	0.76	1.9364	1.03
77	33.7769	CIB	1.35	0.84	1.8224	0.93
1218	33.78	CIB	2.13	1.23	1.7984	0.79
574	33.788	CIB	1.55	0.58	1.7824	0.85
744	33.7892	CIB	1.96	0.53	1.8924	0.88
522	33.7893	CIB	1.92	1.09	1.88	0.84
689	33.792	CIB	1.9	0.99	1.938	0.91
522	33.7962	CIB	2.07	1.01	1.892	0.93
1218	33.8	CIB	1.84	0.93	1.898	0.89
744	33.8017	CIB	1.73	0.62	1.898	0.89
522	33.8039	CIB	1.95	0.9	1.9004	0.9
689	33.809	CIB	1.9	0.99	1.8944	0.84
1218	33.81	CIB	2.08	1.07	1.9464	0.94
744	33.8104	CIB	1.81	0.63	1.8964	0.85
689	33.816	CIB	1.99	1.09	1.8844	0.84
744	33.8242	CIB	1.7	0.49	1.864	0.83
748	33.8249	CIB	1.84	0.91	1.912	0.88
522	33.827	CIB	1.98	1.01	1.8918	0.86
522	33.827	CIB	2.05	0.92	1.9258	0.96
1218	33.83	CIB	1.89	0.98	1.9158	0.96
689	33.836	CIB	1.87	0.98	1.8778	0.94
744	33.8367	CIB	1.79	0.9	1.8098	0.9
744	33.8467	CIB	1.79	0.9	1.704	0.84
689	33.847	CIB	1.71	0.74	1.69	0.8
77	33.855	CIB	1.36	0.69	1.778	0.85
522	33.8555	CIB	1.8	0.77	1.792	0.9
522	33.8555	CIB	2.23	1.16	1.872	0.96
744	33.8604	CIB	1.86	1.13	1.968	1
522	33.8624	CIB	2.11	1.05	1.994	1.01
689	33.864	CIB	1.84	0.88	1.951	1.01
522	33.8693	CIB	1.93	0.84	1.913	0.98
1218	33.87	CIB	2.02	1.13	1.881	0.98
744	33.8742	CIB	1.67	0.98	1.8626	1.05
522	33.8763	CIB	1.95	1.05	1.8686	1.06
1218	33.88	CIB	1.75	1.24	1.8196	1.03
522	33.8809	CIB	1.96	0.92	1.8576	1.02
744	33.8854	CIB	1.77	0.94	1.8096	0.98

522	33.8878	CIB	1.86	0.97	1.868	0.93
744	33.8967	CIB	1.71	0.85	1.876	0.84
689	33.9	CIB	2.04	0.98	1.868	0.79
522	33.9009	CIB	2	0.47	1.834	0.68
744	33.9042	CIB	1.73	0.7	1.848	0.64
522	33.9078	CIB	1.69	0.4	1.686	0.65
522	33.9078	CIB	1.78	0.65	1.69	0.66
77	33.9149	CIB	1.23	1.04	1.674	0.67
522	33.9217	CIB	2.02	0.53	1.704	0.77
744	33.9217	CIB	1.65	0.73	1.708	0.79
689	33.924	CIB	1.84	0.88	1.846	0.74
744	33.9354	CIB	1.8	0.79	1.804	0.79
748	33.9404	CIB	1.92	0.76	1.808	0.79
689	33.943	CIB	1.81	0.78	1.834	0.73
744	33.9467	CIB	1.67	0.73	1.8	0.58
522	33.9494	CIB	1.97	0.6	1.758	0.55
522	33.9555	CIB	1.63	0.01	1.752	0.58
522	33.9555	CIB	1.71	0.64	1.792	0.58
744	33.9604	CIB	1.78	0.94	1.758	0.66
689	33.961	CIB	1.87	0.71	1.768	0.85
744	33.9754	CIB	1.8	1.02	1.794	0.86
744	33.9854	CIB	1.68	0.94	1.808	0.9
689	33.986	CIB	1.84	0.7	1.78	0.96
689	33.986	CIB	1.85	1.15	1.816	0.93
744	33.9979	CIB	1.73	0.98	1.728	0.94
689	34.002	CIB	1.98	0.86	1.78	0.92
77	34.0044	CIB	1.24	1.01	1.734	0.88
748	34.005	CIB	2.1	0.58	1.732	0.86
744	34.0104	CIB	1.62	0.95	1.662	0.87
522	34.014	CIB	1.72	0.92	1.79	0.87
744	34.0141	CIB	1.63	0.9	1.684	0.93
748	34.0274	CIB	1.88	1.02	1.806	0.98
744	34.0279	CIB	1.57	0.86	1.802	0.95
689	34.041	CIB	2.23	1.18	1.834	0.9
744	34.0441	CIB	1.7	0.81	1.78	0.88
689	34.047	CIB	1.79	0.61	1.844	0.94
744	34.0516	CIB	1.61	0.92	1.704	0.82
748	34.0576	CIB	1.89	1.17	1.7	0.85
744	34.0604	CIB	1.53	0.61	1.71	0.93
744	34.0716	CIB	1.68	0.93	1.744	0.95
689	34.073	CIB	1.84	1.02	1.726	0.88
744	34.0854	CIB	1.78	1.02	1.778	0.94
689	34.095	CIB	1.8	0.8	1.832	0.98
744	34.0966	CIB	1.79	0.94	1.72	0.99
522	34.0979	CIB	1.95	1.14	1.79	1.02
77	34.1014	CIB	1.28	1.06	2.014	1.17
522	34.1064	CIB	2.13	1.15	2.02	1.2
522	34.1064	CIB	2.92	1.56	2.008	1.14
744	34.1104	CIB	1.82	1.1	2.108	1.13
689	34.114	CIB	1.89	0.85	2.01	1.1
744	34.1216	CIB	1.78	0.99	1.758	0.98
522	34.1302	CIB	1.64	0.99	1.774	0.95
522	34.1302	CIB	1.66	0.97	1.778	0.99
689	34.132	CIB	1.9	0.95	1.814	1
744	34.1354	CIB	1.91	1.07	1.844	1.01
522	34.1472	CIB	1.96	1.01	1.912	1.01
744	34.1491	CIB	1.79	1.03	1.874	0.98
689	34.152	CIB	2	0.97	1.828	0.96
522	34.1618	CIB	1.71	0.8	1.6239	0.83
744	34.1629	CIB	1.68	0.97	1.6559	0.82

1218	34.17	CIB	0.94	0.36	1.6139	0.82
689	34.172	CIB	1.95	1	1.6579	0.84
744	34.1754	CIB	1.79	0.95	1.6939	0.85
522	34.1841	CIB	1.93	0.92	1.886	0.96
744	34.1854	CIB	1.86	1	1.854	0.93
689	34.189	CIB	1.9	0.92	1.85	0.91
744	34.1991	CIB	1.79	0.85	1.852	0.92
744	34.2103	CIB	1.77	0.86	1.804	0.9
689	34.218	CIB	1.94	0.97	1.768	0.88
522	34.2187	CIB	1.62	0.88	1.6902	0.9
522	34.2187	CIB	1.72	0.84	1.6802	0.93
1218	34.22	CIB	1.4	0.95	1.6422	0.95
744	34.2216	CIB	1.72	1.01	1.6922	0.97
522	34.2311	CIB	1.75	1.05	1.7122	1
744	34.2353	CIB	1.87	0.99	1.824	1.01
522	34.2388	CIB	1.82	0.98	1.834	1.01
689	34.244	CIB	1.96	1.04	1.86	1.01
744	34.2491	CIB	1.77	0.97	1.862	1.04
744	34.2603	CIB	1.88	1.09	1.84	1.02
689	34.265	CIB	1.88	1.13	1.78	0.96
744	34.2778	CIB	1.71	0.88	1.78	0.96
522	34.2803	CIB	1.66	0.72	1.786	0.95
522	34.2803	CIB	1.77	0.99	1.764	0.93
689	34.285	CIB	1.91	1.05	1.776	0.97
522	34.288	CIB	1.77	1	1.76	0.99
522	34.2942	CIB	1.77	1.07	1.5613	0.88
744	34.2966	CIB	1.58	0.86	1.5493	0.9
1218	34.3	CIB	0.78	0.44	1.5933	0.95
689	34.302	CIB	1.85	1.15	1.5953	0.95
689	34.302	CIB	1.99	1.23	1.5929	0.92
744	34.3103	CIB	1.78	1.05	1.8016	1.05
1218	34.32	CIB	1.57	0.72	1.7796	1.03
522	34.3219	CIB	1.82	1.09	1.7796	1.03
744	34.3228	CIB	1.74	1.04	1.8336	1.1
689	34.325	CIB	1.99	1.23	1.916	1.21
689	34.325	CIB	2.05	1.42	1.962	1.28
689	34.328	CIB	1.98	1.29	1.956	1.2
689	34.328	CIB	2.05	1.42	1.928	1.12
522	34.3304	CIB	1.71	0.63	1.866	1.03
522	34.3304	CIB	1.85	0.86	1.836	0.94
744	34.3353	CIB	1.74	0.96	1.79	0.93
522	34.3381	CIB	1.83	0.81	1.844	1.06
689	34.347	CIB	1.82	1.39	1.82	1.07
689	34.347	CIB	1.98	1.29	1.884	1.16
744	34.3491	CIB	1.73	0.9	1.876	1.2
689	34.36	CIB	2.06	1.39	1.854	1.12
744	34.3603	CIB	1.79	1.02	1.752	1.04
522	34.3635	CIB	1.71	0.98	1.738	1.09
522	34.3688	CIB	1.47	0.93	1.674	1.04
748	34.3709	CIB	1.66	1.15	1.654	1
744	34.3728	CIB	1.74	1.1	1.644	0.98
574	34.378	CIB	1.69	0.83	1.714	1.07
522	34.3835	CIB	1.66	0.89	1.754	1.11
689	34.385	CIB	1.82	1.39	1.758	1.08
689	34.385	CIB	1.86	1.35	1.75	1.1
744	34.3891	CIB	1.76	0.94	1.6986	1.08
744	34.3991	CIB	1.65	0.94	1.6946	1.07
1218	34.4	CIB	1.4	0.76	1.6946	1.07
689	34.408	CIB	1.8	1.36	1.6766	1.07
689	34.408	CIB	1.86	1.35	1.7026	1.08

744	34.4091	CIB	1.67	0.95	1.72	1.12
744	34.4141	CIB	1.78	0.99	1.71	1.04
522	34.4212	CIB	1.49	0.94	1.68	0.98
522	34.4212	CIB	1.75	0.98	1.682	1
744	34.4265	CIB	1.71	1.06	1.6237	1
522	34.4289	CIB	1.68	1.02	1.6817	0.98
1218	34.43	CIB	1.49	1.6917	1.08	NA
744	34.4353	CIB	1.78	0.86	1.7277	1.18
689	34.436	CIB	1.8	1.36	1.7537	1.19
689	34.436	CIB	1.89	1.47	1.814	1.24
744	34.4465	CIB	1.81	1.08	1.836	1.36
689	34.456	CIB	1.79	1.41	1.836	1.28
689	34.456	CIB	1.89	1.47	1.816	1.19
744	34.4603	CIB	1.8	0.97	1.812	1.26
744	34.4728	CIB	1.79	1.02	1.728	1.2
689	34.473	CIB	1.79	1.41	1.6875	1.05
748	34.4789	CIB	1.37	1.12	1.705	1.04
1218	34.48	CIB	0.72	1.68	1.02	NA
744	34.484	CIB	1.87	0.93	1.69	1.01
744	34.499	CIB	1.69	0.92	1.785	0.97
689	34.5	CIB	1.83	1.36	1.794	1.1
744	34.5103	CIB	1.75	0.91	1.792	1.2
689	34.518	CIB	1.83	1.36	1.802	1.21
689	34.518	CIB	1.86	1.45	1.7025	1.07
744	34.524	CIB	1.74	0.99	1.6945	1.04
1218	34.53	CIB	1.33	0.66	1.7385	0.98
744	34.5353	CIB	1.71	0.72	1.6965	0.88
574	34.5431	CIB	2.05	1.06	1.6905	0.88
744	34.549	CIB	1.65	0.97	1.778	0.99
744	34.5603	CIB	1.71	0.98	1.808	1.14
689	34.564	CIB	1.77	1.23	1.6818	1.16
689	34.564	CIB	1.86	1.45	1.6578	1.22
1218	34.57	CIB	1.42	1.6738	1.23	NA
748	34.5734	CIB	1.53	1.21	1.6738	1.23
744	34.574	CIB	1.79	1.01	1.6698	1.19
689	34.58	CIB	1.77	1.23	1.732	1.16
689	34.58	CIB	1.84	1.29	1.764	1.08
744	34.5853	CIB	1.73	1.06	1.728	1.11
744	34.5965	CIB	1.69	0.82	1.742	1.13
689	34.607	CIB	1.61	1.17	1.6838	1.01
689	34.607	CIB	1.84	1.29	1.6818	1
1218	34.61	CIB	1.55	0.73	1.6818	1.03
744	34.6103	CIB	1.72	1.01	1.6818	1.07
744	34.624	CIB	1.69	0.97	1.6358	1.05
689	34.626	CIB	1.61	1.36	1.682	1.14
689	34.626	CIB	1.61	1.17	1.63	1.16
744	34.6353	CIB	1.78	1.17	1.614	1.24
748	34.6436	CIB	1.46	1.14	1.62	1.23
689	34.648	CIB	1.61	1.36	1.638	1.17
689	34.648	CIB	1.64	1.32	1.652	1.16
744	34.649	CIB	1.7	0.86	1.702	1.12
744	34.654	CIB	1.85	1.12	1.708	1.11
744	34.6714	CIB	1.71	0.92	1.716	1.13
689	34.672	CIB	1.64	1.32	1.668	1.18
689	34.672	CIB	1.68	1.44	1.668	1.19
748	34.6828	CIB	1.46	1.1	1.654	1.21
744	34.6844	CIB	1.85	1.17	1.662	1.24
689	34.686	CIB	1.64	1.04	1.656	1.22
689	34.686	CIB	1.68	1.44	1.738	1.18
689	34.702	CIB	1.65	1.33	1.7	1.2

744	34.7081	CIB	1.87	0.94	1.718	1.13
689	34.722	CIB	1.66	1.25	1.744	1.01
744	34.7234	CIB	1.73	0.7	1.742	0.99
744	34.7317	CIB	1.81	0.84	1.726	0.99
689	34.735	CIB	1.64	1.23	1.742	0.99
744	34.7436	CIB	1.79	0.91	1.748	1.01
689	34.752	CIB	1.74	1.26	1.788	1.06
744	34.7554	CIB	1.76	0.83	1.7363	0.97
744	34.7661	CIB	2.01	1.06	1.7523	0.94
1218	34.77	CIB	1.38	0.77	1.7023	0.93
744	34.7732	CIB	1.87	0.78	1.7103	1
689	34.781	CIB	1.49	1.22	1.6623	0.97
689	34.781	CIB	1.8	1.18	1.742	1.03
744	34.7862	CIB	1.77	0.91	1.7	1.07
744	34.7968	CIB	1.78	1.04	1.748	1.01
748	34.803	CIB	1.66	1.01	1.72	1.01
744	34.8099	CIB	1.73	0.93	1.74	1.04
689	34.81	CIB	1.66	1.18	1.734	1.04
744	34.8205	CIB	1.87	1.04	1.74	1.08
744	34.83	CIB	1.75	1.03	1.762	1.08
689	34.833	CIB	1.69	1.2	1.78	1.05
744	34.8371	CIB	1.84	0.96	1.708	1.05
689	34.856	CIB	1.75	1.01	1.72	1.09
689	34.885	CIB	1.51	1.05	1.706	1.11
748	34.8853	CIB	1.81	1.24	1.666	1.13
689	34.901	CIB	1.62	1.29	1.664	1.14
689	34.901	CIB	1.64	1.04	1.672	1.15
689	34.908	CIB	1.74	1.07	1.65	1.16
689	34.926	CIB	1.55	1.11	1.6266	1.12
689	34.952	CIB	1.7	1.27	1.6286	1.13
1218	34.97	CIB	1.5	1.6046	1.19	NA
689	34.979	CIB	1.65	1.08	1.5986	1.19
689	34.983	CIB	1.62	1.29	1.5586	1.15
689	35.001	CIB	1.52	1.13	1.626	1.17
689	35.026	CIB	1.5	1.09	1.66	1.21
689	35.048	CIB	1.84	1.26	1.662	1.17
689	35.075	CIB	1.82	1.27	1.6826	1.09
689	35.093	CIB	1.63	1.08	1.7366	1.07
1218	35.11	CIB	1.62	0.75	1.7106	1.07
689	35.145	CIB	1.77	1	1.6606	1.09
689	35.165	CIB	1.71	1.23	1.7206	1.08
748	35.1811	CIB	1.57	1.38	1.754	1.14
689	35.197	CIB	1.93	1.06	1.764	1.12
689	35.215	CIB	1.79	1.02	1.796	1.04
689	35.236	CIB	1.82	0.89	1.87	0.91
689	35.263	CIB	1.87	0.85	1.858	0.89
689	35.277	CIB	1.94	0.75	1.8	0.83
689	35.294	CIB	1.87	0.94	1.772	0.8
1218	35.3	CIB	1.5	0.71	1.692	0.77
1218	35.3	CIB	1.68	0.76	1.62	0.79
1218	35.32	CIB	1.47	0.71	1.608	0.76
1218	35.32	CIB	1.58	0.82	1.688	0.79
689	35.322	CIB	1.81	0.8	1.656	0.76
689	35.346	CIB	1.9	0.84	1.724	0.73
1218	35.38	CIB	1.52	0.63	1.752	0.7
689	35.386	CIB	1.81	0.56	1.684	0.71
689	35.406	CIB	1.72	0.69	1.63	0.64
1218	35.41	CIB	1.47	0.83	1.694	0.65
689	35.428	CIB	1.63	0.51	1.642	0.75
689	35.447	CIB	1.84	0.68	1.646	0.71

1218	35.46	CIB	1.55	1.03	1.722	0.68
689	35.491	CIB	1.74	0.5	1.746	0.71
689	35.514	CIB	1.85	0.69	1.732	0.73
689	35.537	CIB	1.75	0.67	1.778	0.65
689	35.554	CIB	1.77	0.74	1.804	0.81
689	35.574	CIB	1.78	0.64	1.772	0.78
748	35.5862	CIB	1.87	1.29	1.758	0.78
689	35.597	CIB	1.69	0.56	1.792	0.76
689	35.615	CIB	1.68	0.67	1.712	0.82
689	35.682	CIB	1.94	0.62	1.698	0.73
757	35.7512	CIB	1.38	0.94	1.768	0.7
748	35.7617	CIB	1.8	0.85	1.822	0.64
689	35.798	CIB	2.04	0.44	1.822	0.61
689	35.816	CIB	1.95	0.33	1.902	0.69
689	35.821	CIB	1.94	0.47	1.936	0.66
748	35.8306	CIB	1.78	1.34	1.846	0.79
689	35.838	CIB	1.97	0.73	1.826	0.87
1218	35.86	CIB	1.59	1.07	1.808	0.97
689	35.882	CIB	1.85	0.76	1.816	0.87
689	35.906	CIB	1.85	0.93	1.944	0.98
689	35.931	CIB	1.82	0.84	1.982	0.93
690	35.9413	CIB	2.61	1.31	1.946	0.91
689	35.95	CIB	1.78	0.82	1.908	0.88
689	35.97	CIB	1.67	0.67	1.896	0.85
689	35.996	CIB	1.66	0.75	1.94	0.88
689	36.044	CIB	1.76	0.68	1.85	0.9
690	36.0495	CIB	2.83	1.5	1.87	0.91
1218	36.05	CIB	1.33	1.904	0.91	NA
689	36.069	CIB	1.77	0.72	1.918	0.94
689	36.09	CIB	1.83	0.72	1.718	0.75
689	36.115	CIB	1.83	0.81	1.738	0.8
689	36.135	CIB	1.83	0.73	1.6944	0.87
1218	36.14	CIB	1.43	1.04	1.6764	0.86
1218	36.14	CIB	1.55	1.06	1.6624	0.84
689	36.159	CIB	1.74	0.68	1.6424	0.82
689	36.174	CIB	1.76	0.69	1.6584	0.77
689	36.218	CIB	1.73	0.65	1.664	0.79
1218	36.23	CIB	1.51	1.698	0.92	NA
1218	36.23	CIB	1.58	1.13	1.712	0.94
748	36.2357	CIB	1.91	1.2	1.676	1.02
689	36.241	CIB	1.83	0.76	1.722	0.97
690	36.2658	CIB	1.55	0.99	1.786	0.91
689	36.266	CIB	1.74	0.78	1.75	0.82
689	36.282	CIB	1.9	0.84	1.738	0.79
689	36.307	CIB	1.73	0.75	1.748	0.8
689	36.333	CIB	1.77	0.58	1.672	0.73
1218	36.34	CIB	1.6	1.06	1.614	0.75
690	36.374	NUT	1.36	0.42	1.616	0.74
1218	36.4	CIB	1.61	0.92	1.566	0.83
689	36.45	CIB	1.74	0.74	1.5575	0.73
690	36.49	CIB	1.52	0.99	1.6875	0.81
1218	36.49	CIB	0.58	1.74	0.79	NA
748	36.5058	CIB	1.88	0.84	1.7175	0.76
690	36.6067	CIB	1.82	0.79	1.735	0.69
689	36.672	CIB	1.65	0.59	1.758	0.7
1218	36.69	CIB	1.59	0.63	1.724	0.78
689	36.715	CIB	1.85	0.67	1.714	0.76
748	36.738	CIB	1.71	1.21	1.666	0.81
689	36.752	CIB	1.77	0.72	1.714	0.82
690	36.7712	CIB	1.41	0.82	1.668	0.84

689	36.788	CIB	1.83	0.66	1.698	0.77
1218	36.81	CIB	1.62	0.79	1.688	0.72
748	36.8312	CIB	1.86	0.85	1.764	0.65
689	36.833	CIB	1.72	0.5	1.732	0.64
689	36.929	CIB	1.79	0.47	1.738	0.66
689	36.966	CIB	1.67	0.58	1.698	0.6
757	36.9827	CIB	1.65	0.89	1.6846	0.63
689	37.009	CIB	1.66	0.56	1.6226	0.66
1218	37.03	CIB	1.65	0.64	1.6546	0.64
689	37.04	CIB	1.48	0.64	1.6766	0.62
689	37.075	CIB	1.83	0.48	1.6926	0.65
1218	37.09	CIB	1.76	0.77	1.71	0.67
689	37.124	CIB	1.74	0.72	1.682	0.61
689	37.146	CIB	1.74	0.73	1.63	0.64
690	37.1961	NUT	1.34	0.35	1.594	0.73
1218	37.28	CIB	1.57	1.598	0.74	NA
690	37.4085	CIB	1.58	1.1	1.556	0.69
689	37.42	CIB	1.76	0.76	1.634	0.78
757	37.4423	CIB	1.53	0.55	1.654	0.81
689	37.444	CIB	1.73	0.72	1.704	0.78
865	37.4815	CIB	1.67	0.92	1.658	0.73
1218	37.49	CIB	1.83	0.95	1.668	0.71
1218	37.56	CIB	1.53	0.5	1.574	0.72
1218	37.63	CIB	1.58	0.47	1.502	0.76
865	37.6571	CIB	1.26	0.77	1.476	0.72
690	37.6918	CIB	1.31	1.12	1.482	0.76
689	37.739	CIB	1.7	0.74	1.502	0.82
1218	37.74	CIB	1.56	0.68	1.586	0.82
689	37.771	CIB	1.68	0.78	1.654	0.77
689	37.812	CIB	1.68	0.77	1.656	0.79
865	37.8327	CIB	1.65	0.88	1.68	0.82
689	37.851	CIB	1.71	0.86	1.6725	0.83
1218	37.87	CIB	0.79	1.6275	0.79	NA
757	37.9254	CIB	1.65	0.83	1.615	0.76
1218	37.97	CIB	1.5	0.58	1.53	0.66
689	37.986	CIB	1.6	0.73	1.534	0.59
865	38.0083	CIB	1.55	0.46	1.542	0.57
865	38.0083	NUT	1.37	0.35	1.526	0.56
689	38.031	CIB	1.61	0.69	1.528	0.59
689	38.064	CIB	1.58	0.61	1.57	0.66
1218	38.09	CIB	1.53	0.82	1.524	0.68
1218	38.09	CIB	1.58	0.73	1.518	0.67
690	38.1027	NUT	1.32	0.57	1.522	0.68
689	38.106	CIB	1.58	0.62	1.566	0.75
689	38.145	CIB	1.6	0.68	1.536	0.59
757	38.1687	CIB	1.75	1.15	1.57	0.55
865	38.1839	CIB	1.49	0.39	1.4768	0.67
865	38.1839	NUT	1.43	-0.08	1.5248	0.6
1218	38.21	CIB	1.35	0.87	1.3968	0.65
757	38.2534	CIB	1.36	1.02	1.4168	0.78
748	38.2846	CIB	1.35	1.04	1.3808	0.83
689	38.289	CIB	1.53	0.59	1.3896	0.8
1218	38.33	CIB	1.31	0.65	1.3976	0.74
1218	38.33	CIB	1.4	0.71	1.4036	0.66
1218	38.34	CIB	1.4	0.72	1.3956	0.67
689	38.348	CIB	1.38	0.61	1.3906	0.65
689	38.424	CIB	1.49	0.67	1.445	0.63
1218	38.44	CIB	1.28	0.54	1.467	0.73
1218	38.44	CIB	1.67	1.503	0.73	NA
748	38.4552	CIB	1.51	1.12	1.533	0.74

1218	38.46	CIB	1.56	0.6	1.642	0.8
689	38.48	CIB	1.64	0.7	1.622	0.75
1218	38.51	CIB	1.83	0.76	1.594	0.61
689	38.549	CIB	1.57	0.55	1.574	0.59
1218	38.58	CIB	1.37	0.45	1.5302	0.57
689	38.615	CIB	1.46	0.5	1.4222	0.45
1218	38.64	CIB	1.42	0.61	1.4052	0.43
865	38.6733	NUT	1.29	0.13	1.3952	0.46
1218	38.69	CIB	1.49	0.45	1.4312	0.54
1218	38.74	CIB	1.32	0.59	1.449	0.56
748	38.7459	CIB	1.64	0.91	1.501	0.78
689	38.784	CIB	1.51	0.7	1.496	0.86
757	38.7848	CIB	1.55	1.27	1.548	0.91
1218	38.79	CIB	1.46	0.81	1.462	0.9
1218	38.79	CIB	1.58	0.85	1.412	0.86
690	38.8029	CIB	1.21	0.85	1.378	0.75
1218	38.86	CIB	1.26	0.53	1.38	0.72
689	38.919	CIB	1.38	0.7	1.33	0.67
689	38.975	CIB	1.47	0.68	1.374	0.66
1218	39.01	CIB	1.33	0.59	1.428	0.7
689	39.044	CIB	1.43	0.8	1.392	0.69
689	39.107	CIB	1.53	0.74	1.366	0.68
1218	39.11	CIB	1.2	0.65	1.386	0.7
1218	39.11	CIB	1.34	0.61	1.386	0.73
1218	39.14	CIB	1.43	0.68	1.318	0.73
527	39.1749	NUT	1.43	0.96	1.362	0.73
1218	39.24	CIB	1.19	0.73	1.328	0.76
689	39.275	CIB	1.42	0.67	1.2834	0.79
1218	39.28	CIB	1.17	0.75	1.2654	0.77
1218	39.29	CIB	1.21	0.82	1.2794	0.77
748	39.2925	CIB	1.34	0.9	1.1954	0.77
1218	39.31	CIB	1.26	0.7	1.2714	0.77
865	39.3232	CIB	1	0.7	1.382	0.8
689	39.338	CIB	1.55	0.71	1.335	0.79
757	39.3664	CIB	1.76	0.98	1.355	0.77
1218	39.37	CIB	1.1	0.86	1.397	0.8
689	39.414	CIB	1.36	0.59	1.299	0.85
748	39.4235	CIB	1.21	0.86	1.255	0.89
1218	39.43	CIB	1.06	0.96	1.286	0.84
757	39.4512	CIB	1.54	1.19	1.262	0.86
689	39.47	CIB	1.26	0.59	1.258	0.8
690	39.5057	CIB	1.24	0.69	1.278	0.76
689	39.539	CIB	1.19	0.59	1.248	0.64
1218	39.59	CIB	1.16	0.72	1.228	0.63
689	39.605	CIB	1.39	0.59	1.246	0.65
1218	39.66	CIB	1.16	0.56	1.274	0.76
748	39.665	CIB	1.33	0.78	1.248	0.63
1218	39.73	CIB	1.33	1.15	1.208	0.7
865	39.7565	NUT	1.03	0.07	1.182	0.75
689	39.77	CIB	1.19	0.94	1.238	0.83
1218	39.78	CIB	1.03	0.79	1.248	0.8
757	39.8116	CIB	1.61	1.18	1.208	1.03
689	39.832	CIB	1.38	1.03	1.268	1.09
1218	39.85	CIB	0.83	1.22	1.312	1.13
757	39.8935	CIB	1.49	1.25	1.236	1.11
689	39.905	CIB	1.25	0.99	1.186	1.14
689	39.964	CIB	1.23	1.05	1.274	1.13
748	40.0099	CIB	1.13	1.19	1.25	1.1
689	40.03	CIB	1.27	1.17	1.266	1.14
689	40.103	CIB	1.37	1.12	1.24	1.09

689	40.162	CIB	1.33	1.16	1.254	1.04
690	40.1859	CIB	1.1	0.81	1.23	1
689	40.189	CIB	1.2	0.93	1.284	1.03
689	40.245	CIB	1.15	0.99	1.182	0.99
757	40.2535	CIB	1.64	1.25	1.194	1.02
1218	40.28	CIB	0.82	0.98	1.138	0.98
689	40.311	CIB	1.16	0.93	1.208	1.04
1218	40.32	CIB	0.92	0.74	1.144	1.06
757	40.3446	CIB	1.5	1.31	1.1164	1.01
689	40.36	CIB	1.32	1.33	1.0684	0.97
1218	40.37	CIB	0.68	0.74	1.0584	1.08
1218	40.4	CIB	0.92	0.72	0.9104	1.02
748	40.4124	CIB	0.87	1.29	0.9324	1.02
1218	40.43	CIB	0.76	1.03	1.09	NA
689	40.492	CIB	1.43	1.32	1.096	1.1
690	40.4942	CIB	1.17	1.03	1.146	1.02
1218	40.52	CIB	1.25	0.77	1.264	0.97
689	40.558	CIB	1.12	0.96	1.268	0.94
1218	40.59	CIB	1.35	0.75	1.2925	0.93
689	40.624	CIB	1.45	1.17	1.2975	1
1218	40.68	CIB	0.98	1.3445	0.92	NA
689	40.69	CIB	1.27	1.12	1.3353	0.87
1218	40.71	CIB	1.31	0.56	1.2428	0.66
1218	40.72	CIB	1.31	0.52	1.2582	0.57
865	40.7314	CIB	1.32	0.5	1.3046	0.76
865	40.7314	NUT	1.08	0.13	1.3102	0.64
757	40.7415	CIB	1.53	1.47	1.322	0.72
689	40.756	CIB	1.28	1.19	1.3825	0.77
1218	40.76	CIB	1.4	0.33	1.3825	0.77
1218	40.77	CIB	0.38	1.3575	0.57	NA
1218	40.79	CIB	1.32	0.48	1.42	0.43
1218	40.81	CIB	1.43	0.45	1.4267	0.44
1218	40.81	CIB	1.53	0.5	1.3125	0.58
1218	40.81	CIB	0.38	1.3563	0.68	NA
689	40.822	CIB	0.97	1.09	1.3857	0.8
748	40.823	CIB	1.5	0.98	1.3754	0.78
748	40.8298	CIB	1.55	1.04	1.3981	0.79
1218	40.83	CIB	1.49	0.42	1.5019	0.66
1218	40.83	CIB	1.49	0.42	1.5007	0.54
1218	40.83	CIB	1.49	0.42	1.489	0.42
1218	40.83	CIB	1.49	0.42	1.3952	0.59
1218	40.83	CIB	1.49	0.42	1.4276	0.72
757	40.8325	CIB	1.02	1.28	1.4357	0.84
748	40.8366	CIB	1.65	1.04	1.3979	0.83
748	40.8435	CIB	1.53	1.02	1.3601	0.82
1218	40.85	CIB	1.3	0.37	1.4397	0.72
1218	40.85	CIB	1.3	0.37	1.3902	0.7
748	40.8503	CIB	1.42	0.81	1.379	0.68
748	40.8571	CIB	1.4	0.94	1.4137	0.75
748	40.8639	CIB	1.47	0.93	1.4369	0.86
748	40.8707	CIB	1.47	0.72	1.4294	0.87
748	40.8775	CIB	1.42	0.89	1.3285	0.74
748	40.8843	CIB	1.38	0.86	1.2538	0.6
1218	40.89	CIB	0.9	0.29	1.2453	0.65
1218	40.89	CIB	1.1	0.25	1.1921	0.73
748	40.8911	CIB	1.43	0.98	1.2	0.76
690	40.8976	CIB	1.15	1.27	1.2874	0.91
748	40.898	CIB	1.42	1.04	1.2854	0.91
748	40.9048	CIB	1.34	1.04	1.2643	0.93
1218	40.91	CIB	1.09	0.21	1.2998	0.85

748	40.9116	CIB	1.33	1.08	1.2817	0.87
748	40.9184	CIB	1.33	0.86	1.2503	0.89
748	40.9252	CIB	1.33	1.19	1.2808	1.06
748	40.932	CIB	1.18	1.09	1.2429	0.91
748	40.9388	CIB	1.24	1.07	1.2217	0.81
1218	40.94	CIB	1.14	0.34	1.2274	0.81
1218	40.94	CIB	0.37	1.2794	0.85	NA
748	40.9456	CIB	1.35	1.2	1.2978	0.85
748	40.9525	CIB	1.39	1.28	1.3442	1.01
748	40.9593	CIB	1.32	1.07	1.3319	1.13
748	40.9661	CIB	1.32	1.12	1.3531	1.09
748	40.9729	CIB	1.28	0.98	1.3038	1.07
748	40.9797	CIB	1.46	1.01	1.2963	1.08
689	40.98	CIB	1.14	1.15	1.2459	0.92
748	40.9865	CIB	1.28	1.14	1.2034	0.79
1218	40.99	CIB	1.07	0.32	1.1797	0.83
1218	40.99	CIB	1.07	0.32	1.1952	0.84
748	40.994	CIB	1.34	1.24	1.196	0.85
748	40.9995	CIB	1.22	1.16	1.2661	0.97
748	41.0049	CIB	1.28	1.21	1.3428	1.14
748	41.0104	CIB	1.42	0.94	1.33	1.16
748	41.0158	CIB	1.45	1.12	1.3624	1.19
748	41.0213	CIB	1.28	1.35	1.3359	1.01
748	41.0267	CIB	1.38	1.33	1.3319	1.08
1218	41.03	CIB	1.15	0.32	1.3307	1.12
748	41.0322	CIB	1.4	1.27	1.3255	0.92
748	41.0376	CIB	1.45	1.32	1.3197	0.91
1218	41.04	CIB	1.25	0.38	1.3479	1.08
748	41.0431	CIB	1.35	1.24	1.3521	0.99
748	41.0485	CIB	1.29	1.2	1.2766	0.95
748	41.054	CIB	1.42	0.79	1.2959	1.06
689	41.056	CIB	1.07	1.13	1.2657	1
748	41.0594	CIB	1.35	0.9	1.2529	0.85
748	41.0649	CIB	1.2	0.95	1.2382	0.93
1218	41.07	CIB	1.23	0.49	1.2382	0.78
748	41.0703	CIB	1.35	1.18	1.2225	0.83
1218	41.09	CIB	1.07	0.39	1.2172	0.87
748	41.0962	CIB	1.27	1.12	1.1758	1
748	41.1016	CIB	1.17	1.17	1.1512	1.03
748	41.1022	CIB	1.02	1.17	1.1712	1.04
748	41.1071	CIB	1.22	1.3	1.1603	1.03
1218	41.11	CIB	1.17	0.43	1.1387	1.02
748	41.1125	CIB	1.21	1.08	1.1547	1
748	41.118	CIB	1.06	1.11	1.0931	0.95
689	41.119	CIB	1.1	1.07	1.0903	1.1
748	41.1234	CIB	0.92	1.09	1.0696	0.97
748	41.1289	CIB	1.16	1.17	1.0949	0.99
1218	41.13	CIB	1.11	0.4	1.0816	0.98
748	41.1343	CIB	1.19	1.2	1.148	0.99
748	41.1398	CIB	1.03	1.06	1.1728	0.88
748	41.1452	CIB	1.25	1.13	1.2108	0.91
1218	41.15	CIB	1.28	0.61	1.2027	0.88
1218	41.15	CIB	1.3	0.58	1.2379	0.94
748	41.1507	CIB	1.15	1.04	1.2131	0.97
748	41.1561	CIB	1.21	1.36	1.1671	1.08
748	41.1616	CIB	1.12	1.27	1.1611	1.2
748	41.167	CIB	1.05	1.14	1.2049	1.1
1218	41.17	CIB	1.27	1.2024	1.08	NA
1218	41.17	CIB	1.37	0.63	1.2462	1.12
748	41.1725	CIB	1.2	1.28	1.2754	1.13

748	41.1779	CIB	1.34	1.43	1.2074	1.11
748	41.1834	CIB	1.2	1.2	1.1786	1.23
689	41.185	CIB	0.93	0.99	1.1392	1.09
748	41.1888	CIB	1.23	1.24	1.1587	1.12
1218	41.19	CIB	1	0.59	1.2069	1.2
748	41.1984	CIB	1.44	1.56	1.3027	1.31
748	41.2031	CIB	1.44	1.61	1.2855	1.22
748	41.2093	CIB	1.41	1.57	1.3579	1.41
1218	41.21	CIB	1.14	0.77	1.2996	1.25
748	41.2154	CIB	1.36	1.53	1.2723	1.24
1218	41.22	CIB	1.15	0.77	1.274	1.23
748	41.2202	CIB	1.3	1.56	1.323	1.36
748	41.2256	CIB	1.42	1.52	1.3218	1.36
748	41.2277	CIB	1.38	1.39	1.3245	1.46
748	41.2283	CIB	1.36	1.58	1.3584	1.43
748	41.229	CIB	1.16	1.26	1.3299	1.36
757	41.2294	CIB	1.47	1.38	1.305	1.22
748	41.2297	CIB	1.28	1.21	1.3032	1.15
1218	41.23	CIB	1.26	0.65	1.2723	1.19
748	41.2304	CIB	1.35	1.26	1.1852	1.21
748	41.2331	CIB	1.01	1.45	1.1419	1.23
748	41.2379	CIB	1.03	1.49	1.1166	1.38
748	41.2433	CIB	1.06	1.29	1.0392	1.34
748	41.2488	CIB	1.13	1.41	1.0303	1.33
689	41.251	CIB	0.96	1.04	1.0194	1.31
748	41.2542	CIB	0.96	1.42	0.99766	1.15
748	41.2597	CIB	0.98	1.39	0.98262	1.14
1218	41.26	CIB	0.95	0.49	0.99643	1.21
748	41.2651	CIB	1.06	1.39	1.0466	1.24
748	41.2706	CIB	1.03	1.35	1.0827	1.09
748	41.276	CIB	1.22	1.59	1.1663	1.15
1218	41.28	CIB	1.16	0.63	1.1987	1.19
1218	41.28	CIB	1.37	0.81	1.2267	1.21
748	41.2815	CIB	1.22	1.58	1.251	1.2
748	41.2869	CIB	1.17	1.43	1.2226	1.35
748	41.2924	CIB	1.34	1.55	1.1874	1.27
748	41.2978	CIB	1.02	1.35	1.1609	1.24
1218	41.3	CIB	1.19	0.45	1.1539	1.24
748	41.3033	CIB	1.09	1.4	1.1008	1.2
748	41.3087	CIB	1.13	1.44	1.0572	1.12
748	41.3142	CIB	1.07	1.36	1.0248	1.29
689	41.317	CIB	0.8	0.95	1.0252	1.13
748	41.3196	CIB	1.03	1.33	1.0163	0.95
1218	41.32	CIB	1.09	0.56	1.006	0.94
1218	41.32	CIB	1.09	0.56	1.0616	1.04
757	41.3205	CIB	1.02	1.32	1.0647	1.04
748	41.3251	CIB	1.08	1.45	1.0767	1.06
748	41.3346	CIB	1.04	1.32	1.1007	1.08
1218	41.34	CIB	1.15	0.64	1.1177	1.07
1218	41.34	CIB	1.21	0.66	1.1173	1.07
748	41.3401	CIB	1.11	1.29	1.0801	1.03
748	41.3455	CIB	1.08	1.43	1.0584	1.17
748	41.351	CIB	0.86	1.13	1.0244	1.15
748	41.3564	CIB	1.04	1.32	1.0134	1.02
1218	41.36	CIB	1.04	0.57	0.9689	0.98
1218	41.36	CIB	1.05	0.66	1.0149	1.02
748	41.3619	CIB	0.85	1.19	1.004	1.04
748	41.3673	CIB	1.09	1.37	1.0129	1.17
748	41.3728	CIB	0.99	1.4	1.0129	1.1
748	41.3782	CIB	1.08	1.24	0.90435	1.03

865	41.3813	NUT	1.05	0.27	0.80756	0.93
748	41.3837	CIB	0.31	0.88	0.81412	0.75
748	41.3891	CIB	0.6	0.88	0.7217	0.68
1218	41.39	CIB	1.02	0.49	0.61685	0.8
748	41.3946	CIB	0.62	0.86	0.6663	0.8
748	41.3973	CIB	0.53	0.88	0.61119	0.73
748	41.3986	CIB	0.56	0.89	0.46228	0.73
748	41.4	CIB	0.33	0.55	0.42581	0.73
748	41.407	CIB	0.28	0.48	0.57466	0.66
748	41.4141	CIB	0.44	0.83	0.59098	0.69
1218	41.42	CIB	1.27	0.52	0.63566	0.8
748	41.4211	CIB	0.64	1.05	0.71219	0.93
748	41.4282	CIB	0.55	1.11	0.78029	1.05
748	41.4352	CIB	0.66	1.16	0.68931	1.19
748	41.4475	CIB	0.78	1.4	0.67837	1.2
748	41.4545	CIB	0.82	1.26	0.68659	1.16
748	41.4616	CIB	0.59	1.06	0.69435	1.17
748	41.4686	CIB	0.59	0.92	0.67622	1.11
748	41.4748	CIB	0.7	1.23	0.61514	1.03
689	41.481	CIB	0.69	1.07	0.73607	1.01
748	41.4827	CIB	0.51	0.87	0.95531	1.03
690	41.485	CIB	1.19	0.95	0.98405	1.05
690	41.485	CIB	1.69	1.02	0.9895	1.05
748	41.4897	CIB	0.84	1.35	1.1988	0.97
748	41.4968	CIB	0.72	1.04	1.2048	0.88
1218	41.5	CIB	1.56	0.48	0.9887	0.93
748	41.5019	CIB	1.22	0.49	0.94569	0.86
748	41.5038	CIB	0.61	1.27	0.91291	0.85
748	41.5109	CIB	0.63	1	0.73245	0.96
748	41.5179	CIB	0.55	1.02	0.71845	1.01
748	41.5249	CIB	0.65	1.01	0.71362	0.99
748	41.5314	CIB	1.15	0.75	0.74276	1
748	41.532	CIB	0.59	1.18	0.73587	1.01
748	41.539	CIB	0.77	1.04	0.64914	0.95
748	41.546	CIB	0.52	1.08	0.56537	1.02
689	41.551	CIB	0.22	0.69	0.59503	1.05
748	41.5531	CIB	0.73	1.09	0.57875	1.04
748	41.5601	CIB	0.73	1.33	0.60796	0.94
748	41.5672	CIB	0.69	0.99	0.72887	1.04
1218	41.57	CIB	0.67	0.58	0.73696	1.06
748	41.5795	CIB	0.82	1.21	0.77476	1.04
748	41.5865	CIB	0.77	1.16	0.81556	1.09
748	41.5935	CIB	0.92	1.26	0.84613	1.22
748	41.6006	CIB	0.89	1.2	0.79722	1.17
748	41.6076	CIB	0.82	1.25	0.79723	1.15
689	41.613	CIB	0.58	0.96	0.77961	1.14
748	41.6147	CIB	0.77	1.06	0.76245	1.1
748	41.6217	CIB	0.83	1.21	0.87088	1.02
748	41.6287	CIB	0.81	1.01	0.92814	1.06
748	41.6318	CIB	1.36	0.86	0.92112	1.08
748	41.6358	CIB	0.87	1.18	0.91968	1.05
748	41.6428	CIB	0.74	1.16	0.93808	0.98
748	41.6499	CIB	0.83	1.06	0.83386	1.02
690	41.6507	NUT	0.9	0.63	0.83268	1.01
748	41.6569	CIB	0.84	1.07	0.86139	0.99
748	41.6639	CIB	0.86	1.14	0.88991	1.01
748	41.671	CIB	0.88	1.05	0.91055	1.15
748	41.678	CIB	0.97	1.18	0.95531	1.19
748	41.685	CIB	1	1.3	0.88922	1.15
748	41.6921	CIB	1.06	1.3	0.90946	1.2

689	41.696	CIB	0.53	0.94	0.92886	1.21
748	41.6991	CIB	0.98	1.27	0.93314	1.18
748	41.7114	CIB	1.07	1.26	0.93813	1.17
748	41.7185	CIB	1.02	1.11	1.0009	1.18
748	41.7255	CIB	1.09	1.24	0.99145	1.16
748	41.7326	CIB	0.84	1.03	0.96658	1.13
748	41.7396	CIB	0.93	1.16	1.0237	1.09
748	41.7466	CIB	0.94	1.13	1.0213	1.09
748	41.7528	CIB	1.31	0.87	1.0785	0.91
748	41.7537	CIB	1.08	1.26	1.0678	0.9
865	41.7582	NUT	1.13	0.14	1.0693	0.89
748	41.7607	CIB	0.88	1.1	0.99582	0.94
748	41.7677	CIB	0.95	1.09	0.98063	0.87
748	41.7748	CIB	0.94	1.12	0.93857	1.07
689	41.781	CIB	1	0.92	0.93437	1.06
748	41.7818	CIB	0.92	1.13	0.94606	1.05
748	41.7889	CIB	0.86	1.02	0.94698	1.04
748	41.7959	CIB	1.01	1.07	0.95283	1.07
748	41.8029	CIB	0.95	1.08	0.96496	1.08
748	41.81	CIB	1.03	1.06	1.0153	1.12
748	41.817	CIB	0.98	1.15	1.0035	1.12
748	41.824	CIB	1.11	1.26	1.0241	1.13
748	41.8311	CIB	0.95	1.02	1.0004	1.11
748	41.8434	CIB	1.05	1.15	1.0091	1.09
748	41.8504	CIB	0.91	0.98	0.9931	1.04
748	41.8575	CIB	1.02	1.03	1.0012	1.05
748	41.8645	CIB	1.03	1	0.99164	1.03
689	41.865	CIB	0.99	1.1	1.0241	1.01
748	41.8716	CIB	1	1.04	1.031	1.01
748	41.8786	CIB	1.07	0.88	1.0382	1.02
748	41.8856	CIB	1.06	1.04	1.0545	1
748	41.8927	CIB	1.07	1.02	1.0814	1.01
748	41.8997	CIB	1.07	1.01	1.0899	1.04
748	41.9067	CIB	1.14	1.11	1.1131	1.04
748	41.9138	CIB	1.12	1.04	1.1536	1.07
748	41.9208	CIB	1.17	1	1.1799	1.09
748	41.9279	CIB	1.27	1.17	1.1849	1.09
748	41.9349	CIB	1.2	1.14	1.2173	1.1
748	41.9419	CIB	1.16	1.11	1.2316	1.11
748	41.949	CIB	1.28	1.06	1.239	1.09
748	41.956	CIB	1.25	1.06	1.1444	0.96
748	41.963	CIB	1.31	1.09	1.1666	0.96
748	41.9743	CIB	0.73	0.47	1.1636	0.98
748	41.9754	CIB	1.27	1.13	1.1735	0.99
748	41.9824	CIB	1.26	1.13	1.1399	0.99
748	41.9894	CIB	1.3	1.15	1.2375	1.11
748	41.9965	CIB	1.14	1.07	1.2265	1.09
748	42.0148	CIB	1.22	1.04	1.0978	0.89
748	42.0741	CIB	1.22	1.07	1.1216	0.86
748	42.0746	CIB	0.62	0.13	1.1515	0.8
748	42.0778	CIB	1.41	0.96	1.18	0.77
748	42.1041	CIB	1.29	0.81	1.1918	0.72
748	42.1072	CIB	1.36	0.88	1.3225	0.85
748	42.1144	CIB	1.28	0.8	1.3186	0.83
748	42.1246	CIB	1.27	0.81	1.3077	0.87
748	42.1349	CIB	1.4	0.85	1.3224	0.86
748	42.1369	CIB	1.23	0.99	1.3527	0.9
748	42.1451	CIB	1.43	0.87	1.3569	0.89
748	42.1554	CIB	1.43	0.97	1.3612	0.87
748	42.1656	CIB	1.29	0.75	1.3918	0.83

748	42.1759	CIB	1.42	0.77	1.331	0.87
748	42.1861	CIB	1.39	0.78	1.2153	0.77
690	42.1905	CIB	1.13	1.1	1.2183	0.77
748	42.1957	CIB	0.85	0.44	1.247	0.86
748	42.1964	CIB	1.31	0.77	1.2223	0.85
757	42.1989	CIB	1.56	1.2	1.2664	0.81
748	42.2066	CIB	1.26	0.75	1.3689	0.91
748	42.2169	CIB	1.35	0.89	1.3828	0.96
748	42.2271	CIB	1.36	0.95	1.3419	0.92
748	42.2374	CIB	1.38	1.01	1.3487	0.95
748	42.2476	CIB	1.36	0.99	1.3173	0.93
748	42.2579	CIB	1.3	0.92	1.2868	0.89
748	42.2681	CIB	1.19	0.76	1.153	0.71
748	42.2784	CIB	1.21	0.77	1.1245	0.68
1218	42.28	CIB	0.71	0.09	0.9713	0.51
748	42.2886	CIB	1.21	0.86	0.98555	0.52
1218	42.29	CIB	0.53	0.05	0.98455	0.53
748	42.2907	CIB	1.26	0.85	1.0831	0.68
748	42.2989	CIB	1.2	0.81	1.0886	0.77
748	42.3091	CIB	1.2	0.81	1.2334	0.92
757	42.317	CIB	1.24	1.33	1.2279	0.93
748	42.3194	CIB	1.25	0.79	1.201	0.93
748	42.3296	CIB	1.24	0.89	1.169	0.89
689	42.33	CIB	1.07	0.81	1.1518	0.78
748	42.3399	CIB	1.04	0.62	1.1576	0.81
748	42.345	CIB	1.15	0.81	1.1325	0.78
748	42.3501	CIB	1.28	0.92	1.1452	0.78
748	42.3604	CIB	1.11	0.74	1.1515	0.79
748	42.3706	CIB	1.13	0.82	1.147	0.78
748	42.3809	CIB	1.07	0.63	1.1059	0.77
748	42.3911	CIB	1.13	0.78	1.1384	0.75
748	42.4014	CIB	1.08	0.88	1.1157	0.73
748	42.4116	CIB	1.28	0.65	1.149	0.7
748	42.4171	CIB	1.02	0.69	1.0647	0.67
748	42.4219	CIB	1.24	0.53	1.0742	0.66
1218	42.43	CIB	0.71	0.62	1.0317	0.68
748	42.4321	CIB	1.12	0.81	1.0267	0.65
748	42.4424	CIB	1.06	0.74	0.95018	0.67
748	42.4444	CIB	0.99	0.58	1.0279	0.71
748	42.4526	CIB	0.86	0.59	0.95715	0.63
748	42.4629	CIB	1.1	0.83	0.97291	0.55
748	42.4731	CIB	0.77	0.41	0.94472	0.51
748	42.4834	CIB	1.14	0.31	0.96536	0.5
748	42.4936	CIB	0.85	0.39	0.95172	0.47
748	42.4987	CIB	0.96	0.56	1.0204	0.49
748	42.5039	CIB	1.03	0.66	1.007	0.57
748	42.5141	CIB	1.11	0.51	1.0863	0.71
748	42.5244	CIB	1.07	0.76	1.0962	0.71
690	42.5278	CIB	1.25	1.06	1.1002	0.72
748	42.5346	CIB	1.01	0.57	1.0545	0.71
748	42.5449	CIB	1.05	0.73	1.0345	0.64
748	42.5551	CIB	0.89	0.44	0.97742	0.59
748	42.5654	CIB	0.97	0.41	0.95512	0.59
748	42.5685	CIB	0.96	0.78	0.95675	0.59
1218	42.57	CIB	0.9	0.59	0.96694	0.63
748	42.5756	CIB	1.06	0.75	0.95336	0.67
748	42.5859	CIB	0.94	0.65	0.92408	0.65
748	42.5961	CIB	0.91	0.6	0.91428	0.68
748	42.5982	CIB	0.82	0.67	0.92714	0.61
1218	42.6	CIB	0.85	0.73	0.97007	0.63

748	42.6064	CIB	1.12	0.38	0.98905	0.61
748	42.6166	CIB	1.15	0.77	0.99739	0.5
748	42.6269	CIB	1	0.51	1.0532	0.46
865	42.6303	CIB	1.13	0.51	1.0389	0.5
865	42.6303	NUT	0.86	0.13	1.0421	0.5
748	42.6371	CIB	1.07	0.59	1.0296	0.49
748	42.6474	CIB	1.13	0.74	1.0476	0.65
748	42.6576	CIB	0.96	0.49	1.0484	0.65
689	42.661	CIB	0.95	0.9	1.0364	0.65
748	42.6679	CIB	1.13	0.51	0.92138	0.64
748	42.6781	CIB	1.01	0.61	0.95413	0.67
690	42.6864	NUT	0.56	0.7	0.98599	0.6
748	42.6884	CIB	1.12	0.61	0.91733	0.62
748	42.6986	CIB	1.11	0.55	0.93133	0.62
1218	42.7	CIB	0.79	0.62	1.0153	0.64
748	42.7089	CIB	1.08	0.63	1.0197	0.63
1218	42.71	CIB	0.98	0.8	0.99146	0.63
748	42.7191	CIB	1.14	0.56	1.1153	0.75
748	42.7222	CIB	0.97	0.56	1.1121	0.75
757	42.7275	CIB	1.41	1.2	1.1152	0.71
748	42.7294	CIB	1.06	0.63	1.0763	0.72
748	42.7396	CIB	1	0.61	1.0905	0.75
748	42.7499	CIB	0.95	0.63	1.0085	0.69
748	42.7519	CIB	1.04	0.7	0.98703	0.68
689	42.758	CIB	1	0.87	0.83593	0.57
748	42.7601	CIB	0.95	0.59	0.9426	0.53
690	42.7603	CIB	1.48	0.42	0.94187	0.47
690	42.7603	NUT	0.24	0.07	0.90292	0.49
748	42.7704	CIB	0.84	0.48	0.98709	0.62
748	42.7806	CIB	1.19	0.81	1.1551	0.8
757	42.7849	CIB	1.18	1.32	1.0349	0.81
689	42.79	CIB	1.08	0.95	1.0648	0.77
748	42.7909	CIB	0.88	0.49	1.0208	0.73
748	42.8011	CIB	0.99	0.3	0.98806	0.61
748	42.8114	CIB	0.97	0.6	0.99006	0.6
748	42.8216	CIB	1.02	0.69	1.0291	0.64
689	42.822	CIB	1.09	0.92	1.0312	0.7
748	42.8319	CIB	1.07	0.69	0.89027	0.6
748	42.8421	CIB	1	0.58	0.89506	0.63
690	42.8423	NUT	0.27	0.12	0.88099	0.58
1218	42.85	CIB	1.04	0.83	0.85755	0.54
748	42.8524	CIB	1.02	0.69	0.89267	0.56
748	42.8626	CIB	0.96	0.49	1.0542	0.67
748	42.8729	CIB	1.18	0.69	1.0565	0.62
748	42.8831	CIB	1.08	0.64	1.0164	0.57
748	42.9036	CIB	1.05	0.6	1.029	0.6
748	42.9057	CIB	0.82	0.43	0.98128	0.57
527	42.9178	NUT	1.02	0.66	1.0063	0.56
748	42.9241	CIB	0.94	0.5	1.0091	0.62
748	42.9446	CIB	1.2	0.63	1.0722	0.68
748	42.96	CIB	1.07	0.89	1.0847	0.7
748	42.9651	CIB	1.13	0.71	1.1105	0.76
748	42.9856	CIB	1.08	0.76	1.084	0.77
690	42.99	NUT	0.36	0.31	0.92358	0.68
1218	42.99	CIB	1.07	0.81	0.94292	0.66
1218	42.99	CIB	1.07	0.69	0.92164	0.67
748	43.0062	CIB	1.03	0.79	0.90298	0.66
748	43.0164	CIB	1.09	0.8	0.88098	0.59
748	43.0267	CIB	0.96	0.72	1.041	0.65
865	43.0275	CIB	1.16	0.61	1.0866	0.6

865	43.0275	NUT	0.96	0.34	1.0051	0.64
748	43.0308	CIB	0.85	0.75	1.1143	0.6
757	43.0352	CIB	1.5	0.59	1.1144	0.66
748	43.0369	CIB	1.1	0.7	1.1048	0.71
748	43.0472	CIB	0.96	0.66	1.1231	0.71
748	43.0574	CIB	1.11	0.85	0.87908	0.61
748	43.0595	CIB	0.94	0.75	0.86167	0.62
690	43.0639	NUT	0.28	0.11	0.85208	0.63
748	43.0677	CIB	1.02	0.73	0.86135	0.63
748	43.0779	CIB	0.91	0.73	0.91522	0.74
748	43.0882	CIB	1.16	0.83	1.0636	0.86
757	43.0926	CIB	1.21	1.28	1.0348	0.83
748	43.0984	CIB	1.02	0.72	1.0683	0.85
748	43.1138	CIB	0.87	0.58	0.99319	0.78
689	43.114	CIB	1.08	0.85	0.87719	0.58
748	43.124	CIB	0.78	0.49	0.86478	0.57
690	43.1377	CIB	0.63	0.24	0.88661	0.59
689	43.139	CIB	0.96	0.68	0.82061	0.56
689	43.18	CIB	0.98	0.67	0.862	0.66
690	43.2198	CIB	0.75	0.72	0.938	0.78
689	43.261	CIB	0.99	0.97	0.804	0.86
689	43.293	CIB	1.01	0.86	0.9	0.96
690	43.2936	CIB	0.29	1.06	0.944	0.99
757	43.3223	CIB	1.46	1.2	0.952	0.96
689	43.324	CIB	0.97	0.88	0.936	0.93
689	43.356	CIB	1.03	0.8	1.084	0.95
690	43.3675	CIB	0.93	0.71	0.94	0.75
757	43.3691	CIB	1.03	1.14	0.94	0.65
865	43.4129	CIB	0.97	0.38	0.872	0.66
865	43.4129	NUT	0.74	0.2	0.918	0.66
689	43.422	CIB	0.92	0.89	0.84	0.59
690	43.4495	CIB	0.7	0.68	0.88	0.72
689	43.503	CIB	0.87	0.81	0.86	0.78
689	43.536	CIB	0.94	0.84	0.95	0.86
689	43.566	CIB	0.87	0.68	0.954	0.89
757	43.5726	CIB	1.37	1.29	0.944	0.85
690	43.5972	CIB	0.72	0.85	1.086	0.94
689	43.599	CIB	0.82	0.58	1.142	0.97
757	43.6186	CIB	1.65	1.32	1.098	0.9
689	43.625	CIB	1.15	0.8	1.092	0.92
689	43.665	CIB	1.15	0.94	1.16	0.97
690	43.6793	CIB	0.69	0.98	0.888	0.83
689	43.746	CIB	1.16	0.83	0.896	0.83
690	43.7531	NUT	0.29	0.6	0.834	0.73
689	43.778	CIB	1.19	0.81	0.964	0.81
689	43.809	CIB	0.84	0.45	0.834	0.82
757	43.822	CIB	1.34	1.35	0.95	0.82
690	43.8352	CIB	0.51	0.88	0.908	0.83
689	43.841	CIB	0.87	0.62	0.958	0.99
689	43.867	CIB	0.98	0.85	0.87	0.72
757	43.8689	CIB	1.09	1.25	0.97	0.69
865	43.8882	NUT	0.9	0	0.964	0.69
689	43.908	CIB	1.01	0.75	0.964	0.68
689	43.988	CIB	0.84	0.58	1.036	0.7
689	44.021	CIB	0.98	0.82	1.078	0.82
757	44.2351	CIB	1.45	1.35	1.06	0.69
689	44.263	CIB	1.11	0.58	1.102	0.79
865	44.2855	NUT	0.92	0.13	1.122	0.76
757	44.2866	CIB	1.05	1.09	1.022	0.58
689	44.294	CIB	1.08	0.66	1.004	0.6

689	44.326	CIB	0.95	0.46	1.032	0.72
689	44.352	CIB	1.02	0.66	1.08	0.75
689	44.393	CIB	1.06	0.71	1.04	0.62
757	44.5198	CIB	1.29	1.27	1.07	0.77
865	44.5622	NUT	0.88	-0.01	1.07	0.71
757	44.5713	CIB	1.1	1.2	1.066	0.66
689	44.661	CIB	1.02	0.4	1.01	0.51
689	44.69	CIB	1.04	0.45	0.992	0.72
689	44.723	CIB	1.01	0.51	1.026	0.7
527	44.7763	NUT	0.79	1.02	0.99	0.85
757	44.8044	CIB	1.27	1.1	1.024	1.02
757	44.8559	CIB	0.84	1.16	0.936	1.09
757	45.0891	CIB	1.21	1.29	1.018	1.14
527	45.135	NUT	0.57	0.86	0.93	1.03
757	45.1406	CIB	1.2	1.3	0.914	0.96
527	45.223	NUT	0.83	0.56	0.814	0.71
527	45.2614	NUT	0.76	0.77	0.92	0.64
865	45.2699	CIB	1.1	0.52	0.824	0.65
865	45.2699	NUT	0.71	0.04	0.804	0.53
690	45.3569	CIB	0.62	0.77	0.884	0.77
757	45.4253	CIB	0.93	1.17	0.846	0.87
757	45.71	CIB	1.06	1.33	0.782	0.94
527	45.9057	NUT	0.52	0.57	0.76	0.91
527	45.9619	NUT	0.78	0.84	0.682	0.77
527	46.0386	NUT	0.51	0.62	0.62	0.65
527	46.0948	NUT	0.54	0.48	0.662	0.65
757	46.1276	CIB	0.75	0.73	0.58	0.62
527	46.1707	NUT	0.73	0.6	0.6	0.59
527	46.2306	NUT	0.37	0.66	0.664	0.64
527	46.3385	NUT	0.61	0.47	0.562	0.63
527	46.3862	NUT	0.86	0.76	0.55	0.53
865	46.4094	NUT	0.24	0.67	0.62	0.63
865	46.4094	NUT	0.67	0.08	0.616	0.65
757	46.4209	CIB	0.72	1.18	0.59	0.59
527	46.4645	NUT	0.59	0.55	0.636	0.55
527	46.5419	NUT	0.73	0.47	0.628	0.74
527	46.648	NUT	0.47	0.49	0.602	0.64
757	46.7224	CIB	0.63	0.99	0.67	0.68
527	46.7392	NUT	0.59	0.69	0.574	0.63
738	46.8196	NUT	0.93	0.75	0.596	0.72
527	46.8484	NUT	0.25	0.24	0.518	0.6
690	46.8692	CIB	0.58	0.91	0.49	0.7
527	46.9158	NUT	0.24	0.43	0.398	0.72
757	47.0239	CIB	0.45	1.17	0.442	0.75
690	47.0477	CIB	0.47	0.87	0.396	0.72
527	47.0695	NUT	0.47	0.38	0.398	0.7
690	47.2262	CIB	0.35	0.73	0.378	0.67
527	47.2461	NUT	0.25	0.33	0.376	0.69
757	47.372	CIB	0.35	1.04	0.356	0.8
690	47.4048	CIB	0.46	0.99	0.288	0.66
527	47.4127	NUT	0.37	0.89	0.294	0.71
865	47.4957	NUT	0.01	0.03	0.328	0.72
527	47.497	NUT	0.28	0.6	0.274	0.72
690	47.5833	CIB	0.52	1.08	0.298	0.79
527	47.7212	NUT	0.19	1.02	0.372	0.99
757	47.7221	CIB	0.49	1.24	0.364	1.01
690	47.7618	CIB	0.38	1.02	0.272	0.92
527	47.8064	NUT	0.24	0.7	0.266	0.91
527	47.8907	NUT	0.06	0.64	0.228	0.88
527	47.8907	NUT	0.16	0.97	0.244	0.89

690	47.9217	CIB	0.3	1.07	0.3	0.98
757	48.0047	CIB	0.46	1.06	0.382	1.12
690	48.0431	CIB	0.52	1.17	0.296	1.03
757	48.2428	CIB	0.47	1.32	0.292	1.06
690	48.4006	NUT	-0.27	0.55	0.222	1.04
757	48.4809	CIB	0.28	1.22	0.082	0.94
690	48.5288	CIB	0.11	0.92	0.026	0.92
738	48.576	NUT	-0.18	0.7	0.036	0.97
690	48.6232	CIB	0.19	1.21	0.052	0.97
738	48.6435	NUT	-0.22	0.81	0.02	0.96
757	48.719	CIB	0.36	1.22	0.114	1.09
690	48.7379	CIB	-0.05	0.85	0.034	1
757	48.7979	CIB	0.29	1.38	0.1	0.98
738	48.8593	NUT	-0.21	0.74	0.008	0.86
690	48.8661	CIB	0.11	0.73	0.076	0.91
865	48.8783	CIB	0.29	1.1	0.102	0.95
865	48.8783	NUT	-0.1	0.59	0.002	0.82
690	49.0547	CIB	-0.08	0.95	0.138	1.04
757	49.0762	CIB	0.29	1.38	0.262	1.22
690	49.4072	CIB	0.29	1.19	0.16	1.15
757	49.4219	CIB	0.52	1.49	0.114	1.12
738	49.4365	NUT	-0.22	0.74	0.012	1.05
690	49.603	NUT	-0.31	0.8	0.038	1.1
738	49.6196	NUT	-0.22	1.02	-0.034	1.05
757	49.656	CIB	0.42	1.46	-0.076	1.08
757	49.7859	CIB	0.16	1.24	0.062	1.06
738	49.8762	NUT	-0.43	0.89	0.158	1.11
577	49.9142	NUT	0.38	0.68	0.072	1.03
757	49.9159	CIB	0.26	1.27	0.042	1.01
757	50.1063	CIB	-0.01	1.08	0.088	1
757	50.2362	CIB	0.01	1.14	-0.004	1.04
738	50.2487	NUT	-0.2	0.81	-0.07	0.9
757	50.3662	CIB	-0.08	0.91	-0.078	0.89
577	50.38	NUT	-0.07	0.55	-0.17	0.68
757	50.4962	CIB	-0.05	1.02	-0.184	0.57
738	50.5549	NUT	-0.45	0.13	-0.27	0.52
738	50.5549	NUT	-0.27	0.26	-0.278	0.53
738	50.5881	NUT	-0.51	0.63	-0.164	0.48
865	50.8475	CIB	0.52	0.78	-0.124	0.7
865	50.8475	NUT	-0.11	0.62	-0.128	0.58
577	50.89	NUT	-0.27	0.63	-0.066	0.71
757	51.0762	CIB	-0.25	0.82	-0.066	0.58
757	51.2553	CIB	-0.22	0.7	-0.236	0.55
865	51.266	NUT	-0.11	-0.02	-0.246	0.43
738	51.3466	NUT	-0.33	0.62	-0.264	0.38
738	51.3808	NUT	-0.32	0.03	-0.202	0.36
757	51.4344	CIB	-0.34	0.56	-0.212	0.46
690	51.5748	CIB	0.09	0.62	-0.13	0.45
757	51.6133	CIB	-0.16	0.48	-0.006	0.53
527	51.7319	NUT	0.08	0.57	0.14	0.51
690	51.9092	CIB	0.3	0.41	0.08	0.39
690	51.9092	CIB	0.39	0.48	0.01	0.24
577	51.9872	NUT	-0.21	0	0.008	0.18
865	52.049	CIB	0.07	0.25	-0.112	0.11
865	52.049	NUT	-0.51	-0.25	-0.074	0.1
865	52.175	CIB	0.2	0.5	-0.01	0.13
865	52.175	NUT	-0.11	0.04	-0.116	0.08
577	52.3683	NUT	-0.23	-0.15	-0.012	0.13
865	52.3865	CIB	0.06	0.25	-0.008	-0.01
865	52.3865	NUT	0.02	-0.01	0.01	0.08

865	52.4225	CIB	0.11	0.03	0.03	0.11
865	52.4225	NUT	0	-0.17	0.06	0.05
865	52.5125	NUT	0.11	0.17	0.094	0.19
213	52.5285	NUT	-0.13	0.25	0.02	0.39
690	52.5307	CIB	0.38	0.68	-0.046	0.33
738	52.5307	NUT	-0.37	0.83	-0.12	0.29
577	52.5813	NUT	-0.22	-0.27	-0.106	0.3
690	52.6036	NUT	-0.26	-0.06	-0.222	0.18
690	52.6632	NUT	-0.06	0.3	-0.174	0.06
738	52.6632	NUT	-0.2	0.09	-0.114	0.1
738	52.6632	NUT	-0.13	0.22	-0.084	0.15
213	52.71	NUT	0.08	-0.06	-0.068	0.1
690	52.7229	NUT	-0.11	0.19	-0.134	-0.07
865	52.724	NUT	0.02	0.04	-0.162	-0.17
738	52.7484	NUT	-0.53	-0.72	-0.226	-0.25
738	52.7484	NUT	-0.27	-0.3	-0.184	-0.23
577	52.7801	NUT	-0.24	-0.44	-0.176	-0.24
690	52.791	NUT	0.1	0.26	-0.012	-0.02
865	52.85	CIB	0.29	0.39	0.122	0.24
865	52.85	NUT	0.06	0	0.118	0.12
690	52.8675	CIB	0.38	0.4	0.208	0.32
213	52.9095	NUT	-0.22	0.15	0.286	0.4
690	52.9344	CIB	0.53	0.65	0.094	0.23
752	52.9943	NUT	0.45	0.128	0.32	NA
215	53.0063	NUT	-0.67	-0.3	0.144	0.24
690	53.0109	CIB	0.55	0.78	0.038	0.08
738	53.0588	NUT	-0.14	-0.19	-0.092	0.01
738	53.0588	NUT	0	0.03	0.14	0.21
213	53.0639	NUT	-0.2	-0.27	-0.024	0.12
690	53.0874	CIB	0.49	0.7	0.004	0.13
215	53.1202	NUT	-0.27	0.32	0.052	0.22
865	53.1582	CIB	0.24	0.49	0.03	0.3
865	53.1582	NUT	0	-0.15	0.11	0.37
690	53.1639	CIB	0.09	0.51	0.026	0.3
213	53.2403	NUT	0.09	0.35	0.116	0.48
215	53.3129	NUT	-0.29	0.29	0.098	0.49
690	53.3155	CIB	0.45	0.78	0.156	0.54
213	53.3925	NUT	0.15	0.53	0.134	0.43
690	53.4029	CIB	0.38	0.75	0.19	0.38
577	53.477	NUT	-0.02	-0.19	0.17	0.42
577	53.477	NUT	-0.01	0.03	0.196	0.43
690	53.5668	CIB	0.35	0.99	0.2	0.42
213	53.5711	NUT	0.28	0.55	0.258	0.59
527	53.6144	NUT	0.4	0.72	0.302	0.67
690	53.6542	NUT	0.27	0.64	0.236	0.48
527	53.6677	NUT	0.21	0.44	0.162	0.51
738	53.687	NUT	0.02	0.06	0.172	0.46
213	53.721	NUT	-0.09	0.69	0.204	0.53
752	53.7304	NUT	0.45	0.194	NA	NA
690	53.7307	CIB	0.43	0.91	0.238	0.65
527	53.742	NUT	0.16	0.44	0.31	0.72
527	53.7748	NUT	0.24	0.57	0.26	0.7
690	53.818	NUT	0.27	0.95	0.232	0.7
527	53.8763	NUT	0.2	0.65	0.258	0.65
527	53.925	NUT	0.29	0.87	0.318	0.66
865	53.9388	CIB	0.54	0.63	0.434	0.82
865	53.9388	NUT	0.29	0.22	0.368	0.71
690	53.971	CIB	0.52	1.17	0.454	0.81
690	53.971	CIB	0.53	1.23	0.444	0.97
527	53.9835	NUT	0.39	0.8	0.43	1.06

690	54.0038	CIB	0.24	1.01	0.334	0.93
690	54.0365	CIB	0.47	1.08	0.258	0.85
215	54.066	NUT	0.04	0.52	0.256	0.89
690	54.0693	CIB	0.15	0.86	0.282	0.92
690	54.1021	NUT	0.38	1	0.176	0.79
690	54.1348	CIB	0.37	1.15	0.286	0.91
213	54.162	NUT	-0.06	0.43	0.27	0.82
690	54.1676	CIB	0.59	1.12	0.208	0.8
577	54.1977	NUT	0.07	0.42	0.19	0.8
690	54.2004	CIB	0.07	0.87	0.276	0.95
690	54.2332	CIB	0.28	1.17	0.166	0.85
690	54.2332	CIB	0.37	1.17	0.186	0.98
215	54.2422	NUT	0.04	0.61	0.248	1.02
690	54.2659	CIB	0.17	1.08	0.196	0.95
690	54.2659	CIB	0.38	1.06	0.11	0.88
690	54.2987	NUT	0.02	0.83	0.242	0.88
690	54.3205	NUT	-0.06	0.81	0.268	0.87
213	54.3296	NUT	0.7	0.6	0.268	0.83
690	54.3861	NUT	0.3	1.05	0.358	0.87
865	54.3989	CIB	0.38	0.85	0.378	0.86
527	54.4132	NUT	0.47	1.03	0.258	0.96
215	54.4184	NUT	0.04	0.78	0.15	0.87
690	54.4344	NUT	0.1	1.07	0.156	1.07
213	54.4994	NUT	-0.24	0.63	0.124	1.02
690	54.5194	NUT	0.41	1.82	0.13	1.12
527	54.5573	NUT	0.31	0.82	0.178	1.06
690	54.6034	NUT	0.07	1.26	0.316	1.17
527	54.6381	NUT	0.34	0.76	0.304	0.92
752	54.6603	NUT	0.45	0.348	1.06	NA
213	54.6736	NUT	0.35	0.85	0.36	0.91
690	54.6879	NUT	0.53	1.36	0.346	0.99
527	54.6978	NUT	0.13	0.65	0.326	0.99
865	54.747	CIB	0.35	1.01	0.252	1.02
865	54.747	NUT	0.27	1.09	0.238	1
215	54.7685	NUT	-0.09	0.89	0.258	0.96
690	54.7747	NUT	0.6	1.45	0.302	1.08
527	54.7892	NUT	0.16	0.35	0.254	1.12
384	54.81	GAVNUT	0.49	1.72	0.272	1
690	54.8118	NUT	0.11	1.17	0.214	0.83
527	54.8173	NUT	0	0.29	0.116	1.07
213	54.8236	NUT	0.31	0.6	0.082	0.81
690	54.831	NUT	-0.33	1.58	0.18	0.75
865	54.8329	CIB	0.6	0.89	0.122	1.05
865	54.8329	NUT	0.32	0.39	0.144	0.84
215	54.8355	NUT	-0.18	0.72	0.196	0.9
690	54.8546	NUT	0.2	1.67	0.088	0.79
215	54.8661	NUT	0.04	0.84	-0.084	0.76
527	54.8841	NUT	-0.22	-0.18	-0.064	0.73
690	54.8963	NUT	-0.26	0.77	-0.168	0.58
690	54.9161	NUT	-0.08	0.54	-0.356	0.21
215	54.9178	NUT	-0.32	0.92	-0.376	0.24
527	54.9368	NUT	-0.9	-0.98	-0.338	0.24
690	54.9397	NUT	-0.32	-0.03	-0.296	0.36
215	54.9471	NUT	-0.07	0.76	-0.206	0.4
215	54.9471	NUT	0.13	1.12	-0.214	0.45
215	54.9471	NUT	0.13	1.12	-0.138	0.47
690	54.9808	NUT	-0.94	-0.7	-0.038	0.29
865	54.9969	CIB	0.06	0.04	-0.244	-0.12
865	54.9969	CIB	0.43	-0.12	-0.168	0.03
527	55	NUT	-0.9	-0.92	-0.004	0.27

690	55	NUT	0.51	1.85	0.01	0.49
215	55.002	NUT	-0.12	0.51	-0.134	0.71
527	55.0095	NUT	0.13	1.12	0.072	1.14
527	55.0158	NUT	-0.29	1	0.064	1.02
527	55.0221	NUT	0.13	1.23	0.132	1.15
690	55.0244	NUT	0.47	1.25	0.152	1.2
527	55.0247	NUT	0.22	1.13	0.342	1.26
527	55.0263	NUT	0.23	1.4	0.406	1.27
865	55.028	CIB	0.66	1.28	0.396	1.31
752	55.0296	NUT	0.45	0.418	1.13	NA
527	55.0405	NUT	0.42	1.42	0.478	1.14
738	55.0634	NUT	0.33	0.4	0.422	1.15
690	55.0731	NUT	0.53	1.47	0.408	1.16
527	55.0736	NUT	0.38	1.3	0.34	1.11
527	55.0789	NUT	0.38	1.22	0.372	1.33
527	55.0842	NUT	0.08	1.15	0.346	1.26
690	55.092	NUT	0.49	1.51	0.328	1.25
215	55.0952	NUT	0.4	1.12	0.27	1.19
527	55.0978	NUT	0.29	1.25	0.398	1.26
865	55.1081	CIB	0.72	1.47	0.372	1.25
865	55.1081	NUT	0.09	0.93	0.344	1.2
215	55.1191	NUT	0.22	1.23	0.404	1.25
527	55.1226	NUT	0.54	1.36	0.46	1.42
752	55.1588	NUT	0.45	0.306	1.32	NA
690	55.1621	NUT	0.37	1.61	0.322	1.28
215	55.1716	NUT	-0.05	1.09	0.316	1.36
215	55.1716	NUT	0.3	1.04	0.328	1.39
527	55.1767	NUT	0.51	1.71	0.28	1.29
690	55.1853	NUT	0.51	1.51	0.38	1.34
577	55.2009	NUT	0.13	1.08	0.378	1.55
690	55.2225	NUT	0.45	0.266	1.36	NA
690	55.2475	NUT	0.29	1.89	0.254	1.3
215	55.3046	NUT	-0.05	0.94	0.3	1.32
690	55.3389	NUT	0.45	0.266	1.33	NA
215	55.3413	NUT	0.36	1.13	0.35	1.2
215	55.3969	NUT	0.28	1.37	0.522	1.38
865	55.4083	CIB	0.81	1.69	0.566	1.66
865	55.4083	NUT	0.71	1.34	0.526	1.45
527	55.4166	NUT	0.47	1.71	0.6	1.73
690	55.4304	NUT	0.56	2.18	0.622	1.94
752	55.4361	NUT	0.45	0.542	1.93	NA
690	55.4676	NUT	0.82	2.16	0.502	1.72
527	55.5202	NUT	0.41	1.65	0.572	1.79
738	55.5222	NUT	0.27	0.9	0.586	1.81
690	55.5224	NUT	0.91	2.43	0.452	1.67
690	55.587	NUT	0.52	1.89	0.478	1.81
215	55.6002	NUT	0.15	1.49	0.524	2.01
690	55.6132	NUT	0.54	2.33	0.408	1.86
690	55.6424	CIB	0.5	1.9	0.342	1.81
690	55.697	NUT	0.33	1.69	0.39	1.92
215	55.751	NUT	0.19	1.62	0.374	1.87
690	55.7516	NUT	0.39	2.06	0.408	1.79
690	55.7961	NUT	0.46	2.08	0.414	1.84
577	55.8549	NUT	0.67	1.48	0.456	1.92
690	55.8662	NUT	0.36	1.95	0.388	1.88
690	55.8827	CIB	0.4	2.03	0.402	1.85
215	55.8979	NUT	0.05	1.84	0.368	1.96
527	55.9241	NUT	0.53	1.94	0.428	2.06
384	55.97	GAVNUT	0.5	2.06	0.464	2
690	56.0255	CIB	0.66	2.41	0.534	2.09

865	56.0558	NUT	0.58	1.77	0.532	2.09
690	56.0878	CIB	0.4	2.25	0.524	2.16
527	56.131	NUT	0.52	1.97	0.53	2.16
690	56.159	CIB	0.46	2.41	0.56	2.21
527	56.2184	NUT	0.69	2.4	0.57	2.2
690	56.2302	CIB	0.73	2.02	0.508	2.17
752	56.2575	NUT	0.45	0.49	2.08	NA
215	56.2648	NUT	0.21	1.84	0.44	1.84
690	56.3014	CIB	0.37	2.06	0.424	1.86
577	56.3038	NUT	0.44	1.44	0.456	1.9
690	56.3726	CIB	0.65	2.08	0.442	1.97
384	56.4	GAVNUT	0.61	2.09	0.524	2.06
215	56.434	NUT	0.14	2.17	0.532	2.15
690	56.4349	CIB	0.78	2.51	0.472	2.12
738	56.4794	NUT	0.48	1.9	0.492	2.22
738	56.4794	NUT	0.35	1.95	0.544	2.25
690	56.5061	CIB	0.71	2.59	0.544	2.2
215	56.6044	NUT	0.4	2.28	0.582	2.3
384	56.61	GAVNUT	0.78	2.28	0.602	2.39
384	56.64	GAVNUT	0.67	2.41	0.628	2.46
752	56.6615	NUT	0.45	0.664	2.35	NA
690	56.7137	CIB	0.84	2.88	0.626	2.25
577	56.7686	NUT	0.58	1.83	0.636	2.24
577	56.7686	NUT	0.59	1.89	0.656	2.24
384	56.87	GAVNUT	0.72	2.37	0.682	2.25
527	56.8704	NUT	0.55	2.22	0.724	2.28
690	56.9124	CIB	0.97	2.96	0.738	2.35
527	56.9919	NUT	0.79	1.96	0.762	2.43
384	57	GAVNUT	0.66	2.24	0.848	2.37
690	57.0184	CIB	0.84	2.78	0.788	2.24
527	57.0813	NUT	0.98	1.91	0.776	2.21
384	57.09	GAVNUT	0.67	2.3	0.77	2.27
384	57.11	GAVNUT	0.73	1.8	0.744	2.08
690	57.1244	CIB	0.63	2.58	0.734	2.06
527	57.1717	NUT	0.71	1.81	0.704	1.96
384	57.18	GAVNUT	0.93	1.83	0.662	2.04
215	57.2008	NUT	0.52	1.8	0.63	2.01
738	57.2039	NUT	0.52	2.16	0.604	2.18
738	57.2039	NUT	0.47	2.43	0.558	2.21
690	57.2304	CIB	0.58	2.66	0.666	2.28
577	57.2503	NUT	0.7	1.98	0.734	2.32
527	57.2742	NUT	1.06	2.17	0.788	2.22
384	57.3	GAVNUT	0.86	2.38	0.82	2.23
384	57.32	GAVNUT	0.74	1.92	0.842	2.29
690	57.3231	CIB	0.74	2.71	0.766	2.23
384	57.38	GAVNUT	0.81	2.29	0.77	2.13
215	57.3856	NUT	0.68	1.87	0.768	2.13
384	57.43	GAVNUT	0.88	1.88	0.8	1.97
384	57.5	GAVNUT	0.73	1.92	0.806	2.07
215	57.5668	NUT	0.9	1.89	0.792	2.19
690	57.5748	CIB	0.84	2.8	0.706	2.13
690	57.6675	NUT	0.61	2.48	0.796	2.33
215	57.7456	NUT	0.45	1.56	0.766	2.26
690	57.7735	CIB	1.18	2.9	0.784	2.11
577	57.7828	NUT	0.75	1.54	0.878	2
527	57.8086	NUT	0.93	2.09	0.92	2.17
527	57.8307	NUT	1.08	1.9	0.774	1.99
690	57.9029	NUT	0.66	2.44	0.786	2.05
752	57.9076	NUT	0.45	0.77	2.06	NA
384	57.91	GAVNUT	0.81	1.76	0.752	2.29

527	57.9465	NUT	0.85	2.15	0.734	2.24
690	57.9617	CIB	0.99	2.8	0.852	2.14
690	58.0132	NUT	0.57	2.24	0.774	2.15
527	58.0792	NUT	1.04	1.75	0.79	2.22
215	58.114	NUT	0.42	1.79	0.79	2.03
690	58.1308	CIB	0.93	2.54	0.878	1.91
690	58.1896	NUT	0.99	1.85	0.82	1.84
527	58.216	NUT	1.01	1.61	0.938	2.03
384	58.23	GAVNUT	0.75	1.39	0.94	1.79
690	58.2854	CIB	1.01	2.75	0.944	1.7
527	58.3529	NUT	0.94	1.34	0.95	1.88
527	58.3529	NUT	1.01	1.42	1.05	1.93
690	58.4032	CIB	1.04	2.51	1.064	1.87
527	58.4924	NUT	1.25	1.65	1.042	2.02
690	58.521	CIB	1.08	2.45	1.03	2.02
577	58.5544	NUT	0.83	2.05	1.034	1.81
527	58.6224	NUT	0.95	1.44	0.886	1.96
527	58.6224	NUT	1.06	1.47	0.826	1.93
690	58.6388	CIB	0.51	2.38	0.858	1.95
690	58.6388	CIB	0.78	2.29	0.892	2.13
690	58.7419	CIB	0.99	2.18	0.872	2.16
690	58.7419	CIB	1.12	2.34	0.97	2
527	58.7537	NUT	0.96	1.59	1.036	1.85
527	58.7537	NUT	1	1.61	0.994	1.72
527	58.7537	NUT	1.11	1.55	0.96	1.69
384	58.8	GAVNUT	0.78	1.49	0.964	1.71
690	58.8745	CIB	0.95	2.23	0.954	1.71
527	58.9056	NUT	0.98	1.66	0.906	1.74
738	59.0512	NUT	0.95	1.64	0.936	1.89
738	59.0512	NUT	0.87	1.66	0.726	1.63
690	59.0954	CIB	0.93	2.27	0.666	1.54
738	59.1543	NUT	-0.1	0.91	0.616	1.4
384	59.16	GAVNUT	0.68	1.24	0.696	1.6
384	59.19	GAVNUT	0.7	0.93	0.644	1.37
690	59.2132	CIB	1.27	2.63	0.878	1.49
384	59.48	GAVNUT	0.67	1.15	0.858	1.44
577	59.5686	NUT	1.07	1.48	0.852	1.47
738	59.5962	NUT	0.58	0.99	0.748	1.15
738	59.5962	NUT	0.67	1.08	0.74	1.1
384	59.73	GAVNUT	0.75	1.05	0.72	1.1
384	59.76	GAVNUT	0.63	0.92	0.73	1.09
577	60.1808	NUT	0.97	1.46	0.69	1.02
384	60.19	GAVNUT	0.63	0.95	0.652	0.95
384	60.23	GAVNUT	0.47	0.72	0.616	0.94
738	60.4357	NUT	0.56	0.68	0.384	0.71
738	60.4357	NUT	0.45	0.91	0.4	0.71
865	60.534	NUT	-0.19	0.27	0.406	0.69
384	60.61	GAVNUT	0.71	0.98	0.482	0.79
384	60.65	GAVNUT	0.5	0.61	0.476	0.81
577	60.6698	NUT	0.94	1.2	0.632	0.88
738	60.686	NUT	0.42	0.98	0.618	0.91
384	60.79	GAVNUT	0.59	0.64	0.658	0.95
738	60.9364	NUT	0.64	1.1	0.566	0.85
384	60.98	GAVNUT	0.7	0.82	0.616	0.85
738	61.0101	NUT	0.48	0.71	0.6	0.89
384	61.03	GAVNUT	0.67	0.98	0.672	1.01
738	61.0542	NUT	0.51	0.85	0.646	1.03
527	61.1603	NUT	1	1.68	0.686	1.04
738	61.1721	NUT	0.57	0.91	0.596	1.01
577	61.1878	NUT	0.68	0.79	0.596	1.05

738	61.2752	NUT	0.22	0.82	0.47	0.91
384	61.39	GAVNUT	0.51	1.03	0.556	0.93
384	61.43	GAVNUT	0.37	0.99	0.548	0.97
527	61.4504	NUT	1	1.02	0.618	0.96
738	61.5108	NUT	0.64	0.98	0.67	0.92
738	61.6404	NUT	0.57	0.8	0.644	0.87
577	61.6455	ARA	0.77	0.81	0.494	0.82
738	61.687	NUT	0.24	0.76	0.546	0.83
738	61.7336	NUT	0.25	0.77	0.524	0.9
527	61.9215	NUT	0.9	1.02	0.568	1.01
738	61.9355	NUT	0.46	1.14	0.596	1.07
527	62.0177	NUT	0.99	1.37	0.622	1.17
384	62.25	GAVNUT	0.38	1.05	0.61	1.14
384	62.3	GAVNUT	0.38	1.26	0.672	1.12
577	62.3317	ARA	0.84	0.9	0.544	1.1
577	62.3844	ARA	0.77	1.04	0.592	1.06
384	62.55	GAVNUT	0.35	1.27	0.7	0.98
577	62.775	ARA	0.62	0.82	0.822	1.08
577	63.06	ARA	0.92	0.88	0.81	1.21
527	63.2832	NUT	1.45	1.41	0.892	1.13
527	63.3284	NUT	0.71	1.65	0.958	1.21
577	63.345	ARA	0.76	0.88	0.918	1.25
527	63.3821	NUT	0.95	1.21	0.826	1.21
527	63.4015	NUT	0.72	1.11	0.83	1.12
527	63.4344	NUT	0.99	1.22	0.796	1.07
527	63.4836	NUT	0.73	1.19	0.668	1.04
577	63.535	ARA	0.59	0.61	0.586	1.08
384	63.66	GAVNUT	0.31	1.06	0.456	1.1
384	63.97	GAVNUT	0.31	1.32	0.552	1.12
384	63.97	GAVNUT	0.34	1.3	0.652	1.24
527	63.9986	NUT	1.21	1.32	0.662	1.29
577	64.0534	ARA	1.09	1.2	0.694	1.35
384	64.17	GAVNUT	0.36	1.31	0.684	1.38
384	64.18	GAVNUT	0.47	1.63	0.536	1.45
384	64.22	GAVNUT	0.29	1.42	0.49	1.45
384	64.3	GAVNUT	0.47	1.7	0.638	1.45
577	64.3243	ARA	0.86	1.19	0.602	1.44
527	64.4106	NUT	1.1	1.3	0.744	1.42
738	64.4226	NUT	0.29	1.61	0.676	1.36
527	64.4644	NUT	1	1.3	0.696	1.38
738	64.6294	NUT	0.13	1.4	0.546	1.47
527	64.7954	NUT	0.96	1.31	0.516	1.43
384	64.86	GAVNUT	0.35	1.72	0.41	1.49
738	64.9013	NUT	0.14	1.44	0.614	1.6
384	65.01	GAVNUT	0.47	1.6	0.634	1.72
577	65.0518	ARA	1.15	1.95	0.814	1.77
577	65.0674	ARA	1.06	1.88	1.012	1.84
577	65.0894	ARA	1.25	1.99	1.134	1.87
577	65.0959	ARA	1.13	1.79	1.08	1.81
577	65.1023	ARA	1.08	1.73	1.034	1.75
577	65.1114	ARA	0.88	1.64	0.928	1.68
577	65.1153	ARA	0.83	1.6	0.712	1.64
577	65.1192	ARA	0.72	1.65	0.702	1.59
738	65.1438	NUT	0.05	1.56	0.724	1.53
577	65.1684	ARA	1.03	1.51	0.628	1.38
577	65.1943	ARA	0.99	1.34	0.584	1.4
577	65.2332	ARA	0.35	0.85	0.736	1.32
384	65.24	GAVNUT	0.5	1.74	0.73	1.3
577	65.272	ARA	0.81	1.18	0.682	1.4
527	65.3864	NUT	1	1.39	0.774	1.59

384	65.6	GAVNUT	0.75	1.84	0.964	1.53
384	65.6	GAVNUT	0.81	1.78	0.77	1.72
577	65.7554	ARA	1.45	1.45	0.76	1.76
738	65.7625	NUT	-0.16	2.13	0.882	1.67
527	65.8006	NUT	0.95	1.61	0.884	1.68
577	65.8482	ARA	1.36	1.38	0.728	1.82
384	65.94	GAVNUT	0.82	1.82	0.972	1.83
384	66.11	GAVNUT	0.67	2.18	0.97	1.91
527	66.1101	NUT	1.06	2.16	0.912	2.04
527	66.1543	NUT	0.94	2.03	1.014	2.08
527	66.1802	NUT	1.07	2.01	1.094	2
527	66.1924	NUT	1.33	2.01	1.046	1.98
527	66.2061	NUT	1.07	1.79	1.15	2.03
384	66.21	GAVNUT	0.82	2.06	1.21	2.01
527	66.2183	NUT	1.46	2.26	1.164	1.96
527	66.229	NUT	1.37	1.94	1.298	2.04
527	66.2504	NUT	1.1	1.75	1.4	1.99
527	66.2641	NUT	1.74	2.17	1.1	1.84
527	66.2763	NUT	1.33	1.85	1.026	1.86
738	66.2961	NUT	-0.04	1.5	1.01	1.85
527	66.3037	NUT	1	2.03	0.786	1.82
527	66.3159	NUT	1.02	1.7	0.78	1.69
384	66.38	GAVNUT	0.62	2.01	1.05	1.65
577	67.0073	ARA	1.3	1.23	1.122	1.52
577	67.2391	ARA	1.31	1.3	NA	NA
577	67.5173	ARA	1.36	1.35	NA	NA