



# LEBENSWISSENSCHAFTLICHE FAKULTÄT INSTITUT FÜR BIOLOGIE

# **MASTERARBEIT**

# ZUM ERWERB DES AKADEMISCHEN GRADES MASTER OF SCIENCE

"Körpergrößentrends in fossilen Landschildkröten aus dem Neogen"

"Body size trends in Neogene testudinid tortoises"

vorgelegt von

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## 1 Introduction

## 1.1 Body size evolution

The body size of organisms has been of interest to researchers for a long time (??). It is a universal trait, that can be easily measured and compared among different organisms (?). Furthermore, it is readily available for many animals in the fossil record which allows for comparison with extant species (?). A number of biotic and abiotic factors including habitat, resource availability, competition, climate and many more influence body size and it is linked to ecological and evolutionary processes (Blackburn and Gaston, 1994; Blueweiss et al., 1978; Smith and Lyons, 2009). Patterns of body size variation across spatial and/or temporal scales have been described for many animal groups and some have been summarised as ecological rules (?Angielczyk et al., 2015). Cope's rule describes the gradual within-lineage body size increase over time (?). According to the island rule large species become smaller on islands while small species often show an increase in body size (Foster, 1964). Bergmann's rule (Bergmann, 1848) states that animals attain larger at higher latitudes, which can be considered a special case of the temperature-size rule, which predicts an increase in body size at lower temperatures (Angilletta et al., 2004). While such patterns have been well documented (?), the underlying mechanisms might not be the same in all taxa and require further investigation (Smith and Lyons, 2009). The development of body size or any other trait over time can follow different evolutionary trajectories, that describe general trends of trait evolution. If a trait does not significantly change, it is described as stasis. If a trait does change, this change can either be directional, referred to as a generalized random walk, or non-directional, which is described as an unbiased random walk. Recently, new analytical tools have been developed, to be able to determine which evolutionary model fits the development of a trait, for example size trends, best over time (Hunt, 2006; Hunt et al., 2015). Changes in body size on the clade level can either be due to selective forces acting on the whole clade (trends) or individual species being influenced by different causes (tendencies) (Hunt, 2006). A trend can be an increase or decrease in minimum, mean or maximum size and can be caused by differing speciation and extinction rates and therefore occur independently of tendencies (Smith et al., 2016). Maximum size, for example, is usually expected to increase without being selected for (Smith et al., 2016).

#### 1.2 Maximal body size - Megafauna

Many taxa have a right-skewed body size distribution, which means that smaller body sizes are more abundant than large ones (Blackburn and Gaston, 1994; Kozlowski and Gawelczyk, 2002; Lyons and Smith, 2008). This raises the question of why organisms are a certain size, if there is an optimal body size for each organisms, why some species attain larger sizes than others and which structural, physical and physiological properties determine and limit minimum or maximum body size (Smith and Lyons, 2009). A large body size is associated with certain advantages, e. g. decreased predation risk, higher fasting endurance, higher competitive ability, all of which results in a higher fitness (?). On the other hand, there are some disadvantages to having a larger body size since usually a larger range size and more resources are needed and generation times are often longer (?). In the history of Earth, animals have again and again attained very large body sizes, although patterns of when and how often maximum body size is achieved are inconsistent across time and different animal groups (Smith et al., 2016). Some famous examples of giant forms are the large insects from the Carboniferous/Permian period, the giant non-avian dinosaurs from the Jurassic/Triassic, the giant mammals from the Quaternary or today's largest animal, the blue whale (?). Animals with a body mass exceeding 44 kg (or sometimes 10 kg (Sandom et al., 2014)) are referred to as megafauna (Barnosky, 2004; ?). It has been suggested, that large animals are more prone to extinction than smaller ones (?). Reasons for this may be that large species usually need more resources, have a larger range and longer generation times (?). During the Quaternary, a huge number of large mammals which were considered megafauna went extinct (?). A number of causes for these extinction events have been discussed, but while a meteorite and disease were dismissed as possible causes due to lack of evidence (?), two possible scenarios are still under discussion: climate change and anthropogenic influence (?). Some recent studies suggest that human influence has been the main driver of these extinctions of mammalian megafauna (Barnosky, 2004; Sandom et al., 2014; Gibbons, 2004; Schuster and Schüle, 2000).

While the mammalian megafauna as well as their extinction have been well investigated, the herpetofauna has also lost a considerable number of species during the Quaternary (Blain et al., 2016). For example, many turtle and tortoise species have gone extinct, among those quite a few large species ?. In former times, giant tortoises were abundant on the continents as well as on many islands, whereas today giant tortoises are present only on two island regions

in the tropics (?).

#### 1.3 Giant Tortoises - Testudinidae

In the fossil record two clades of terrestrial tortoises have been identified, which both contained giant forms. One is the family Meiolaniidae, which occurred exclusively in Australia and is completely extinct nowadays (?). The other is the family Testudinidae, which comprises all extant terrestrial tortoises as well as many extinct or fossil taxa (?). The testudinids included giant forms and occurred on all continents but Australia (?). Testudinidae have been known in the fossil record from the Eocene on, the earliest fossils stemming from Africa (?). Body size played an important role in the earlier times of testudinid taxonomy (?). In the beginning, all new tortoise fossils were assigned to the genus Testudo, but around the 20th century(??), tortoises were grouped into two clades based on body size. Large taxa were all assigned to the genus Geochelone, while small tortoises were assigned to Testudo. Eventually, over the past few decades, the taxonomy has been revised for many regions, based on morphological and biogeographical clues (?). In the Americas, all large tortoises are now referred to as either Hesperotestudo, Gopherus or Chelonoidis, the latter contains all extant Galapagos giant tortoises (?). In Europe, the genus Cheirogaster has been introduced but is currently being replaced by Titanochelon, although not all species have been revised accordingly yet (?). Small species still belong to Testudo, which contains the extant Testudo graeca-group (?). In Asia and Africa, the two current biodiversity hotspots for turtles and tortoises in general (), many different taxa have now been differentiated (?). In Asia, the genera Geochelone, Indotestudo and Manouria are present (). On mainland Africa there are two extant genera: Homopus and Centrochelys, the latter consisting of one species, Centrochelys sulcata, which is the largest extant continental tortoise with a carapace length of about 80 cm (). In the West Indian Islands (Madagascar, Seychelles, Aldabra etc.), there are three gerena: Astrochelys, Pyxis and the giant *Aldabrachelys* (?).

On the contintents as well as remote islands giant tortoises exceeding carapace lengths of 2 m were abundant in former times and have frequently been found in fossil deposits (?). The presence of large tortoises on islands has been explained by their ability to float (Gerlach et al., 2006; ?; Cheke et al., 2016) and to survive for months without water or food.

However, the abundance of giant tortoises on these remote islands along with their resilience and survivability without resources, made them a very attractive food item for humans, especially in the whaling industry (?). Although the exploitation of giant tortoises on islands is largely recognized, tortoises and turtles, both small and large, were also frequently eaten on the mainland (?). Tortoises are easily captured, do not need a great amount of preparation before they can be cooked and can even be kept as a "staple" since they stay alive for quite a while withoud food or water (Thompson and Withers, 2003; Thompson and Henshilwood, 2014). Intensive hunting and exploitation has been suggested to affect tortoise body size (?) since larger individuals are more easily visible and yield more meat, they are more prone to exploitation than small ones (?). This may have lead to a decreased body size within a tortoise population, where tortoise consumption is common. For this reason, tortoise body size has even been suggested as a proxy for human population size in some areas (Steele and Klein, 2005; ?; ?). To this day, turtles and tortoises are still being eaten, although many are endangered (?). Apart from anthropogenic influences, climate probably also affected tortoises (?). As ectotherms, turtles and tortoises are inherently more dependent on climate than endotherms (?). Especially large tortoises are very temperature-sensitive due to their unique physiology and morphology (??). In the fossil record, large tortoises are considered to be an indicator for mild winters in (Hibbard, 1960; ?), since they are thought to not have been able to dig themselves burrow for hibernation like modern Gopherus tortoises do (?? only in some places, I guess?)(??). Additionally, giant tortoises run a high risk of overheating and display behavioral thermoregulation to keep their body temperature below a dangerous or even lethal value (??). It has not been concluded with certainty, if anthropogenic influence or climate change or a mixture of both have caused the extinction of giant tortoises(?).

## 1.4 Body size trends in Testudinidae

The aim of this work is to identify general body size distributions in tortoises (Testudinidae) on a global scale across the last 20 million years. Further, to investigate the general evolutionary mode of body size in testudinidae. Apart from that, focusing on giant tortoises, which were abundant in former times, but are extinct nowadays apart from a few remaining populations on tropical islands, to discuss where and when they occurred in the fossil record and what the underlying reasons for the extinction of many giant forms could be. Understanding how and why giant tortoises went extinct in the past, can hold valuable information for conservation work today, since many tortoise species, especially the large forms, are endangered. In fact, two species of *Aldabrachelys* went extinct only a couple of hundred years ago (?)

#### 2 Material & Methods

#### 2.1 Data collection

I collected data on body size of fossil testudinids from the Miocene until recent times. The body size data set includes 26 fossil genera, comprising over 100 fossil species. The majority of the data was obtained from the primary literature (Table S17). To find relevant publications, I relied mostly on the references listed in the FosFarBase (Böhme and Ilg, 2003), the Paleobiology Database (http://paleobiodb.org), and the review on fossil turtles and tortoises by Rhodin et al. (2015). Furthermore, the FosFarBase provided fossil occurrences of testudinids all over the world, including their exact localities and age (Table S19). The FosFarBase (http://www.wahrestaerke.com/, last accessed 23.03.2017) contained 769 testudinid occurrences from 647 localities between the Eocene (33.9 - 56 mya) and the Holocene (Fig. 1). Of those, 641 occurrences from 534 localities were of relevant age (Miocene to Holocene). However, although the FosFarBase already contained a lot of fossil occurrences, the literature review showed that additional data not recorded in the FosFarBase was readily available in the existing literature. The final body size data set includes 376 data records from 193 localities, of which 106 localities are present in the FosFarBase.

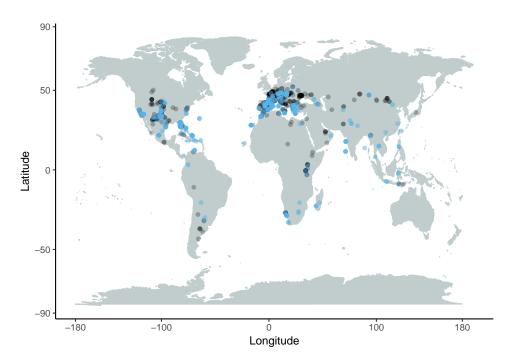


Figure 1: Map displaying all fossil occurrences of testudinids from the Eocene to the Holocene according to the FosFarBase, with color indicating whether body size data was available (blue) or not (black).

For extant testudinid taxa, I measured dry material (n = 67) from the collection of the Museum für Naturkunde zu Berlin (MfN) with an accuracy of the first decimal (unless stated otherwise) using calipers. In addition, body size data (n = 173) from the literature was included (Table S18).

### 2.2 Body size estimation

Body size is reported as straight carapace length (SCL) in mm. When SCL for fossil taxa was not available from the primary literature, it was estimated (n = 254) either from plastron length (PL) or appendicular elements (Table S17). For carapace length estimations based on plastron length, the measurements from the MFN collection material were used to calculate the ratio between SCL and PL. Since the SC/PL ratio did not show a significant difference among species (Kruskal Wallis Test, P > 0.05; SCL/PL between 0.95 - 1.47), a single general ratio (SCL/PL = 1.1) was calculated for all testudinids and hence used for the SCL estimations unless stated otherwise (Table S17). For estimations based on femora and humeri, ratios based on data provided by Hutterer et al. (1998) and Franz et al. (2001), respectively, were used. A number of publications did not state measurements but instead provided scaled figures of the fossil remains, from which either SCL directly or PL, humeri, or femora lengths for estimating SCL could be measured.

#### 2.3 Analyses

All subsequent analyses were performed with R 3.4.1 (R Core Team, 2017), including the packages dplyr (Wickham et al., 2017) to prepare the data for the analysis and ggplot2 (Wickham, 2009) to create figures. The R package vegan (Oksanen et al., 2017) was used to create randomized sample-based accumulation curves, which show the increase in individuals, species or genera per sampling unit and are therefore used to determine if sampling is sufficient or not in terms of covering diversity and richness (Thompson and Withers, 2003). Most commonly these accumulation curves are conducted at the species level, but they can also be applied to higher taxa like families and genera (Gotelli and Colwell, 2011, 2001). The accumulation curves also give information about species richness, relative abundance and diversity (Thompson and Withers, 2003). Typically a species accumulation curve shows a steep initial slope followed by gradual plateauing until converging to an asymptote, when the maximum number of species has been reached. However, this shape can be affected in several ways, for example

when a lot of rare species opposed to only a few abundant species are present or if sampling is conducted on a large geographical scale, the inflection point may be lower and the following slope towards the asymptote may be rather long or an asymptote may not be reached at all within figure margins (Gotelli and Colwell, 2011, 2001). Since the data set in this study relies on literature, references were used as a sampling unit (x-axis). Sampling accumulation curves were created both at the species and the genus level, since genera of fossil testudinids are relatively well resolved whereas determination on the species level is still obscure in some cases, because fossil species are frequently based on single individuals that are often incompletely preserved as well (Brattstrom, 1961; de Lapparent de Broin, 2001). Since genera were better sampled than species (Fig. 3, S2 (a) - (b)), all subsequent analyses were performed on the generic level. Additional sampling accumulation curves for the continents were created (Fig. S2 (c) - (i)), to check if subsequent analyses could be applied to these subgroups.

#### 2.3.1 Descriptive statistics

To explore the structure of the data set normalized histograms with density curves and boxplots of the entire data set and several subgroups (fossil vs. modern, insular vs. continental) were created. Descriptive statistics like mean, median, variance, skewness and kurtosis were calculated with the R package moments (Komsta and Novomestky, 2015) (Table S14) for the raw and log-transformed data. Data transformations are often conducted, to achieve normality. (??)

While mean, median and variance describe the location and distribution of a data set, skewness and kurtosis are referred to as 'shape statistics', which give information about symmetry (skewness) and the weight of the tails compared to the rest of the distribution, i. e. outliers will results in a higher kurtosis. However, the accuracy and suitability of these shape statistics has been debated, since sample size, extreme values and homogeneity of the data impact their results and uncertainties are higher than when mean and median are used (McNeese, 2016; Bai and Ng, 2005). Especially for small sample sizes, the histograms might provide more reliable information about the structure of the data set than skewness and kurtosis (McNeese, 2016).

The Wilcoxon Rank Sum Test (unpaired data) was used to test for differences in body size between modern and fossil taxa as well as between insular and continental taxa. To be able to compare different subgroups, a random subsample (1000 repeats) of the respective larger subgroup was taken to compare equal sample sizes. For the majority of random subsamples, the median coincided with the real median (see Appendix E), therefore subsamples were assumed

to reflect the actual sample and subsequently used for statistical comparisons. The Kruskal-Wallis test was used to test for differences among subsamples, e. g. body size per time bin and body size per continent. As post-hoc test, a multiple comparison (Siegel and Castellan, 1988) was conducted to identify which groups differed significantly from each other.

#### 2.3.2 Body size trends over time

To investigate trends in body size over time, the R package paleoTS (Hunt, 2015) was used. Data were split into time bins according to stratigraphic stages (Table 1, Fig. 2), with the exception of the two lower stages of the Miocene, which were considered as one time bin, because the last bin otherwise would have contained only 2 data records. Bins were chosen accordingly, to ensure a decent sample size in each bin and because an exact dating was not available for all localities, but often only a rough estimate of the stratigrahic stage. To prevent sampling bias and because sampling accumulation curves showed that the genus level was better sampled than the species level, the mean SCL per genus was calculated before summarising mean SCL per time bin for the timescale analysis. The paleoTS plots display the mean trait over time and can be fitted to different evolutionary models: stasis, where the trait mean fluctuates around a steady mean (no change), generalized random walk (GRW), where the trait mean increases or decreases over time (directional change) or unbiased random walk (URW), where the trait mean changes over time but not in a way where these changes accumulate and move the trait mean in a specific direction (non-directional change). Model fits are based on maximumlikelihood estimation and model support is reported as Akaike Information Criterion (AICc), with the lowest values indicating the best suited model. Additionally, Akaike weights are reported, which give the proportional support for each model. paleoTS plots and model-fitting was performed for the entire data set, continental, and insular genera subsets. The same approach was repeated for European and Eurasian genera for all data, as well as continental and insular genera separately.

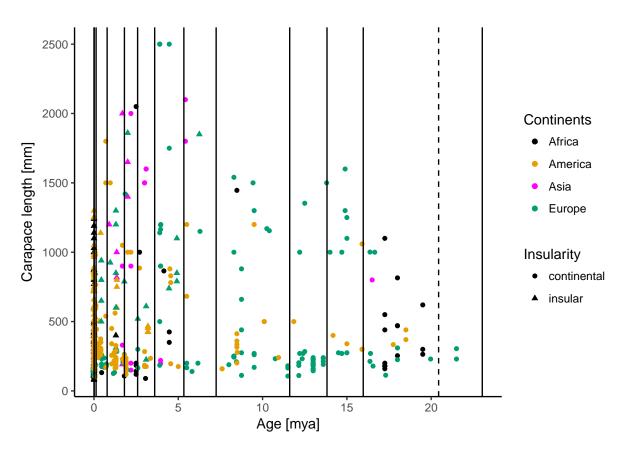


Figure 2: Scatterplot of carapace length over time, indicating insular (triangle) and continental (circles) and colour indicating continents. Straight lines indicate stratigraphic stages which were used as time bins, the dashed line indicates the border between the two stages of the Lower Miocene, which were consideres as one time bin.

Table 1: Time ranges, mean age per bin, corresponding stratigraphic stages and epochs, and respective sample sizes (on individual, species and genus level).)

Age Range [mya] Mean Age [mya]	Mean Age [mya]	Stages	Epochs	n (Individuals) n (Species) n (Genera)	n (Species)	n (Genera)
0 - 0.0117	0.00585	Modern	Modern	254	99	48
0.0117 - 0.126	0.06885	Upper Pleistocene	Upper Pleistocene	20	18	∞
0.126 - 0.781	0.45350	Middle Pleistocene	Middle Pleistocene	53	13	_
0.781 - 1.81	1.29350	Lower Pleistocene	Lower Pleistocene	22	27	42
1.81 - 2.59	2.19700	Gelasian	Lower Pleistocene	33	15	6
2.59 - 3.6	3.09400	Piacencian	Upper Pliocene	24	15	10
3.6 - 5.33	4.46600	Zanclean	Lower Pliocene	31	17	∞
5.33 - 7.25	6.28900	Messinian	Upper Miocene	12	თ	9
7.25 - 11.6	9.42700	Tortonian	Upper Miocene	46	20	<b>o</b>
11.6 - 13.8	12.71400	Serravallian	Middle Miocene	27	∞	9
13.8 - 16	14.89500	Langhian	Middle Miocene	18	4	6
16 - 23	19.50000	Burdigalian/Aquitanian	Lower Miocene	31	15	6

# 3 Results

## 3.1 Sample-based accumulation curves

The sample-based accumulation curve (SAC) on the generic level shows a relatively low intial slope and a long upward slope to the asymptote, which does not reach full saturation (Fig. 3). In contrast, the species accumulation curves, both per reference and per locality, show only a slight initial increase and, for the same number of references/sampling units, are far from reaching an asymptote (Fig. S2 (a), (b)). Accumulation curves for individual continents show that Europe reflects the trend of the overall dataset, with a long upward slope after the inflection point, whereas the other continents require further sampling (Fig. S2 (c) - (i)). For this reason, the timescale analysis was only conducted for Europe and Eurasia, but not for the other continents.

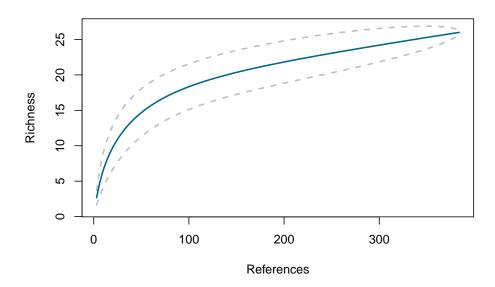


Figure 3: Sample-based accumulation curve of fossil genera per reference. Dashed lines represent the confidence inteval.

#### 3.2 Descriptive statistics

The histograms indicate that testudinid body size is not normally distributed (Fig. 4), which is supported by QQ-Plots for raw as well as log-transformed data (Fig. S3).

The body size distribution is moderately right-skewed (Table S14), with a higher frequency of

smaller body sizes. Body size ranges from a minimum of 80 mm to a maximum of 2500 mm for the entire data set. When comparing body sizes on a temporal scale, the minimum body size per stratigraphic stages excluding modern taxa ranges from 90 mm to 270 mm, while the maximum 1100 mm to 2500 mm. The highest maximum body size was observed in the fossil record from continental Europe (CL = 2500 mm).

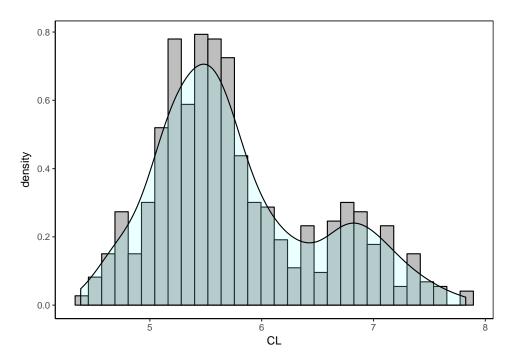


Figure 4: Body size distribution of complete data set. Bimodally distributed and right-skewed.

This pattern is also apparent when splitting the data set into fossil and modern taxa (Fig. 5 (a)). Considering insularity, body size distribution is right-skewed for continental taxa, but left-skewed for insular species, meaning larger body size is more frequent than smaller body size on islands. Insular taxa are also left-skewed when only considering fossil taxa, but modern insular taxa have a skewness close to 0, indicating a symmetric distribution (Table S14). Kurtosis suggests light tails with no/few outliers (kurtosis < 3) for insular and modern insular species, whereas continental species have a heavy tail (kurtosis > 3; Table S14).

The histograms show a bimodal distribution, wich is also apparent on most sublevels, except for modern insular species (Fig. S4 (a)). Body size distributions are similar, right-skewed and bimodal, for the four continents and reflect the overall trend (Fig. S4 (b)).

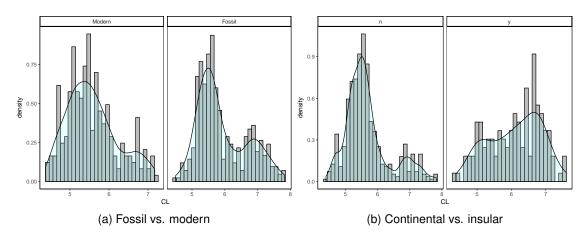


Figure 5: Histograms for fossil vs. modern and continental vs. insular data.

Mean body size differs significantly across time bins (Kruskal Wallis Test,  $\chi^2$  = 71.441, P < 0.01; Fig. 6). The multiple comparison test showed that modern median body size is smaller than body size in the Upper Pleistocene. There is no difference in body size within the Pleistocene and Pleistocene body size does not differ from body size in the Upper Miocene. Serravallian body size is smaller than Langhian body size in the Middle Miocene, but Langhian body size is not different from Lower Miocene body size.

Comparison of modern and fossil testudinids showed that modern tortoises are significantly smaller than fossil ones (Wilcoxon Rank Sum Test, W = 22318, P < 0.01; Fig. 7). Furthermore, continental testudinids are significantly smaller than insular taxa (Wilcoxon Rank Sum Test, W = 13854, P < 0.01; Fig. 7). These results can even be considered in combination: modern continental taxa are smaller than fossil continental taxa (Wilcoxon Rank Sum Test, W = 8046, P < 0.01; Fig. S5) and modern insular taxa are smaller than fossil insular taxa (Wilcoxon Rank Sum Test, W = 631.5, P < 0.01; Fig. S5))

Finally, body size differs among continents (Kruskal Wallis Test,  $\chi^2$  = 34.343, P < 0.01; Fig. 8). The multiple comparison test showed that African testudinids differ significantly from the other three continents in body size. American testudinid body size is comparable to that of Asia, but differs from those of Africa and Europe. Furthermore, Asian and European testidinids are similar in body size.

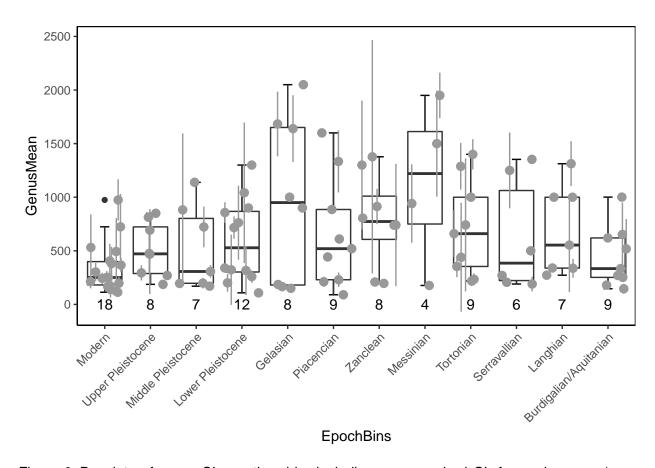


Figure 6: Boxplots of mean CL per time bin, including mean and sd CL for each genus (as pointrange).

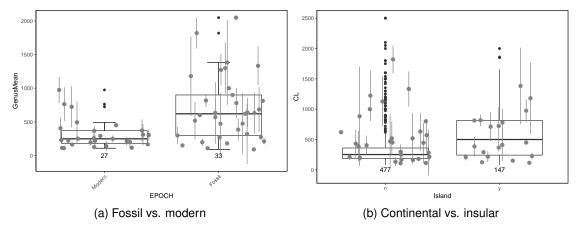


Figure 7: Boxplots of CL split into fossil vs. modern (a) and cotinental vs. insular (b)

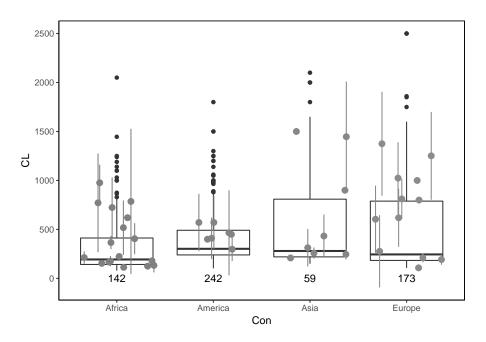


Figure 8: Boxplot: body size on different continents, genera summarised

# 3.3 paleoTS analysis

# 3.3.1 complete dataset

Fitting of the three evolutionary models favoured stasis for the entire data set, although model support was only 51 % followed by 33 % support for the unbiased random walk (Fig. 9, Table S1). When solely considering continental genera, the best-fitting model was the unbiased random walk, but again not ideally supported with 55% followed by a modest model support of 30% for generalized random walk (Fig. 10, Table 3). In contrast, insular genera are best described by stasis, which was very well supported (100%; Fig. 11, Table 4)).

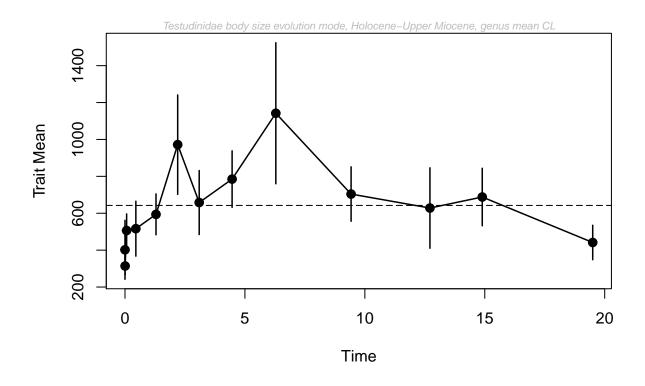


Figure 9: paleoTS plot with genus mean, all

Table 2: Model-fitting results for testudinidae, genera, all

	logL	K	AICc	Akaike.wt
GRW	-81.31790	2	167.9691	0.161
URW	-82.05721	1	166.5144	0.332
Stasis	-80.16802	2	165.6694	0.507

# 3.3.2 continental dataset (excluding insular species)

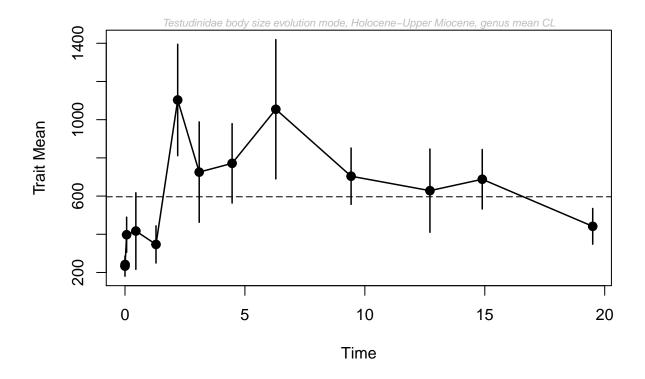


Figure 10: paleoTS plot with genus mean, continental

Table 3: Model-fitting results for testudinidae, genera, continental

	logL	K	AICc	Akaike.wt
GRW	-82.26287	2	169.8591	0.300
URW	-83.12577	1	168.6515	0.548
Stasis	-82.93984	2	171.2130	0.152

#### 3.3.3 insular dataset (excluding continental)

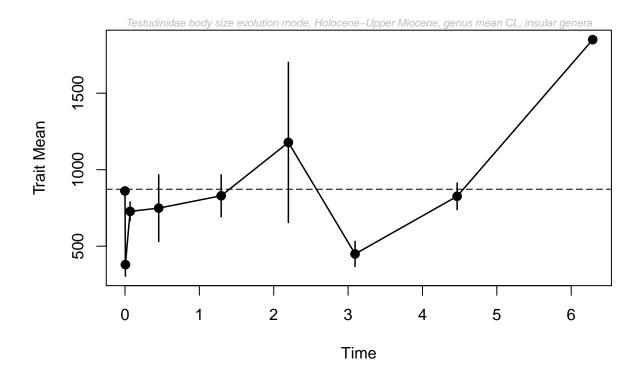


Figure 11: paleoTS plot with genus mean, insular

Table 4: Model-fitting results for testudinidae, genera, insular

	logL	K	AICc	Akaike.wt
GRW	-68.57344	2	143.5469	0
URW	-75.76576	1	154.1982	0
Stasis	-60.41581	2	127.2316	1

# 3.3.4 per continent

## 3.3.4.1 Europe, genera

When repeating the analysis for European taxa only, all three groups – complete, continental and insular data – are best described by stasis with a model support between 92-99% (Fig. 12, S8, S9; Tables 5, S6, S8).

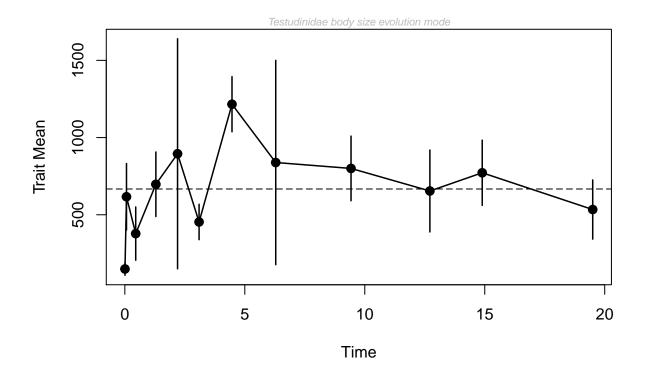


Figure 12: Genera, Europe

Table 5: Model-fitting results for testudinidae, genera, Europe

	logL	K	AICc	Akaike.wt
GRW	-84.14010	2	173.7802	0.006
URW	-85.90727	1	174.2590	0.005
Stasis	-79.01365	2	163.5273	0.990

#### 3.3.4.2 Eurasia, genera

For Eurasia, the entire data as well as continental genera are best described by the unbiased random walk, although the model support is weak again. Continental species still have a better support (78%; Fig. S10, Table S11) than all Eurasian data with only 56 % (Fig. 13, Table 6). Insular Eurasian species, however, conform to stasis again, although with lower support values (68%; Fig. S11, Table S13).

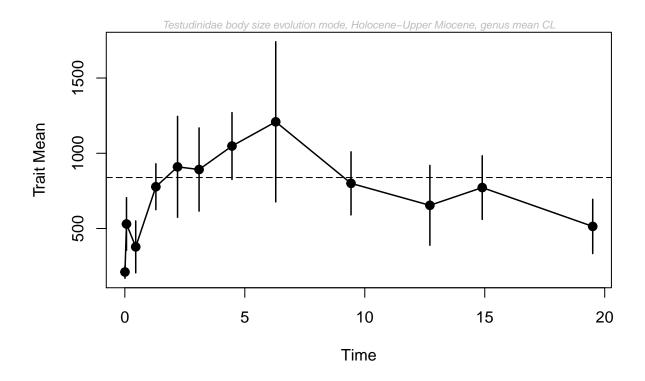


Figure 13: paleoTS, genera, Eurasia

Table 6: Model-fitting results for testudinidae, genera, Eurasia

	logL	K	AICc	Akaike.wt
GRW	-85.25195	2	175.8372	0.149
URW	-85.39072	1	173.1814	0.562
Stasis	-84.58890	2	174.5111	0.289

## 4 Discussion

#### 4.1 Data coverage

The sample-based accumulation curve shows that the body size data set covers the generic level well, but not the species level. Since there are less genera than species, it is to be expected that genera reach an asymptote earlier than species (Gotelli and Colwell, 2001). Although the accumulation curve for the entire data set does not completely plateau, considering the large area covered (Thompson and Withers, 2003) and the high number of rare genera in the dataset, it can be considered well enough sampled for our purposes (Gotelli and Colwell, 2001). Conducting the rest of the analyses on the generic level is favourable here, because many fossils cannot be identified at the species level and species that are rare in the fossil record may not reflect their actual abundance, since only a small number of individuals are actually preserved (?). According to ? 121 species of testudinidae have been recognized in the fossil record since the beginning of the Pleistocene. For 117 species, body size data could be obtained for this study, therefore it can be assumed, that the data set sufficiently resembles the actual fossil record of testudinidae on a global scale. For smaller-scale analyses, for example, on individual continents, further body size data should be collected. For insular species, the oldest fossils with body size data available stem from the Upper Miocene, which matches the colonization of islands by tortoises? (?)

#### 4.2 Distribution of testudinid body size

Distribution of testudinid body size is rather uniform across a spatial and temporal scale. The body size distribution is right-skewed on a large scale, as well as for modern, fossil and continental species, which has been reported frequently for animal body size distributions (?Kozlowski and Gawelczyk, 2002). Only insular taxa show a body size distribution that is skewed to the left, with a higher frequency of larger-bodied species. This left-skewed distribution is largely driven by fossil insular species, as modern insular species are not skewed and show a rather flat, symmetrical distribution. The bimodality of the overall body size distribution and the consistency across the continents is similar to what Lyons and Smith (2008) report for Quaternary mammals. However, since tortoise body size is only sampled well enough for Europe and Eurasia, these results have to be considered with caution. When looking at continental tortoises on a temporal scale, the second mode of large body sizes disappears for modern tortoises, which

is due to the extinction of large continental taxa, similar to what has been observed in the mammalian megafauna during the Quaternary (Lyons and Smith, 2008). For insular species the bimodal body size distribution is constant over time, which could be expected, since large insular forms are still present, in spite of their diminished diversity and abundance compared to former times (?). Whether or not these results can be considered as complying the island rule, depends on the biogeographic history of giant tortoises and whether they evolved to be large on islands or prior to island colonizations. Many authors agree that tortoises were already large when they colonized the islands (Itescu et al., 2014; Cheke et al., 2016; Gerlach et al., 2006), which would contradict the island rule, as has also been argued in a large-scale study on the intra-specific, inter-specific as well as clade level (Itescu et al., 2014). Modern tortoises are smaller-bodied than their fossil conspecifics, which coincides with earlier findings for animals in general (?) and reptiles as a clade (Smith et al., 2016).

#### 4.3 Time-scale analysis

The time scale analysis showed that overall there is no change in testudinid body size. However, if only considering continental taxa, unbiased random walk is the favoured model, which is a special case of directional evolution, where the probability of descendants being larger or smaller than their ancestors is the same. This change is most likely due to the extinction of the giant continental forms, which is also apparent in the frequency curves. For insular species, however, stasis is again the favoured evolutionary model, which is unsurprising since there still are giant forms on islands today. Also, model support is the highest for insular species, fitting only stasis. On a continental level, for Europe stasis fits best for the complete data set as well as for continental and insular species. Eurasia, however, reflects the overall trend, with body size of continental genera being best described by a unbiased random walk, although model support is weaker than for Europe. Yet, all model supports for Eurasia (complete, continental and insular) are better than for the overall data set and the continetal taxa, which suggest that Eurasia somehow drives this trend. It would be interesting to see which model fits best, if more Asian samples were being included.

In the literature, stasis is often encountered in large-scale analysis (Smith et al., 2016; Hunt, 2006, 2007; Hunt et al., 2015). On a broad scale, stasis may be favoured when evolutionary changes are too small to be noted (Hunt et al., 2015). Unbiased random walk has also been reported for several animal groups at the clade leven (Smith et al., 2016). The unbiased random

walk for continental testudinids is certainly influenced by the complete loss of giant forms in recent times. Additionally, a shift towards smaller body size has been suggested for certain tortoise species (Klein and Cruz-Uribe, 2000; Steele and Klein, 2005; Franz and Quitmyer Irvy, 2005; Speth and Tchernov, 2002).

human extirpation -> direct: hunting, indirect: habitat fragmentation (especially on continents maybe? since on islands range is smaller anyway), introduced predators (island forms had thinner shells! what about continental ones... probably too since they grew large and needed to reduce weight -> armoured animals)

- how does it fit with climate?
- how do points in time fit?
- -> Cione et al.: discuss mammal and tortoise extinction (in south america) -> the broken zig-zag
  - include shapes/geometric morphometrics -> volume/body mass?
  - paleoTS -> is designed to deal with incomplete data (FOSSIL)
- what can influence distribution: climate, selective pressures, diet, intra-specific competition (Madagascar)

reasons for extinction: -> Aldabra/Galapagos (whaling industry) -> mammal megafauna was hunted to extinction by humans

Aldabra tortoise: no evidence of size increase, probably originate from giant continental tortoises (large tortoises are able to float: bouyancy and fasting endurance)

#### 4.4 Conclusion

This study would definitely benefit from further sampling, ideally by directly measuring fossil specimens from museum collections.

beyond literature research but actual measurements of museum collections, especially on the continents other than Europe. Possibly, a nearly complete (as complete as it can be, based on fossils) dataset could be achieved, if estimates based on single scutes/shell fragments could be established.

Giant tortoises seem to occupy only a small temperature range, since they are in danger of overheating (?), but also cannot cope with cold winters (?). However, obviously appropriate climates are still available, since giant tortoises are still present in some places, which means climate alone is very unlikely to have driven the extinction, at least not on tropical islands. I would assume, that climate drove some decrease in body size (as exemplified by *Gopherus agassizi* (?) and *Chersina angulata*), although in the last example the size decrease has been labeled human-induced (since large individuals are hunted more frequently, shifting the body size distribution to the smaller scale).

#### outlook

- rerun analyses with more data
- fit more and more dynamic models (Hunt et al., 2015)

would be interesting to investigate body size trends for individual genera or even species, for this further sampling is needed. use ancestor-descendant data!

terrestrial tortoises: about 90 % of all species that occurred since beginning of Pleistocene are either extinct or endangered -> need to get a better understanding of tortoise extinction to protect them accordingly/to improve conservation efforts/to do effective conservation work

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# Appendix A Geographical and stratigraphic distribution of body size data

Body size data was available from all four continents, were testudinidae occur, and over a time period of 20 mya (Fig. S1, Table 1).

-> samples all over the world and over the whole time period with more or less equally distributed sample sizes (over time bins, continents are uneven -> see SAC)

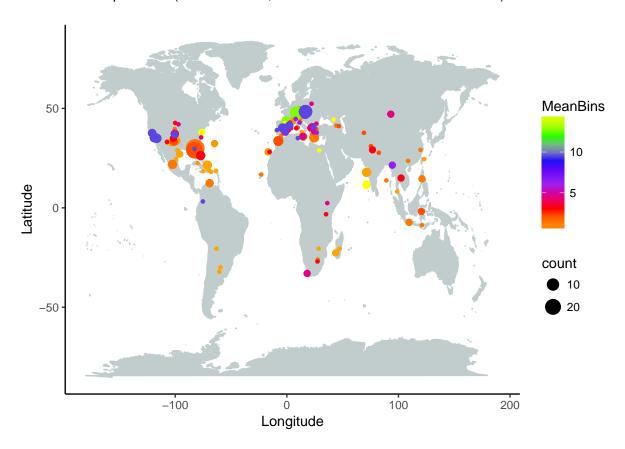


Figure S1: Map displaying all localities for which body size data for testudinids was available in the literature. Size of points denotes sample size, color denotes approximate age.

# Appendix B Sampling accumulation curves

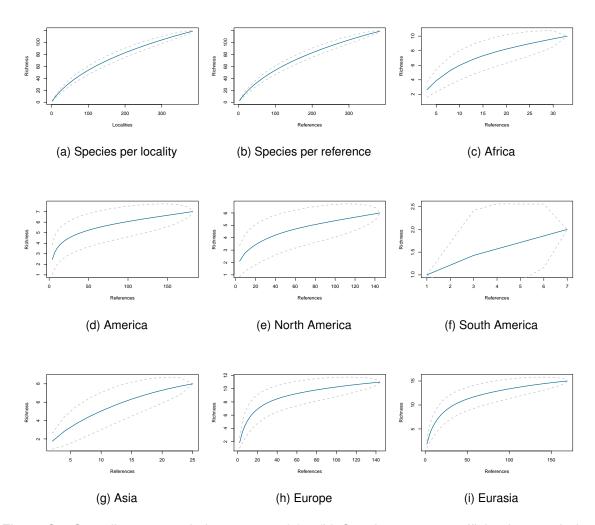


Figure S2: Sampling accumulation curves: (a) - (b) Species are not sufficiently sampled, regardless of sampling unit. (c) - (i) Sampling Accumulation Curves on generic level per continent. Only Europe (h) and Eurasia (i) are sufficiently sampled. Dashed lines represent the confidence interval.

# Appendix C Histograms

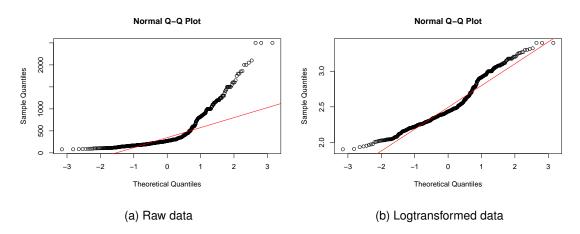


Figure S3: Visual test for normal distribution. In case of normally distributed data, the black circles should follow the red line, which is not the case for either raw data (a) nor logtransformed data (b). Therefore, data is not normally distributed.

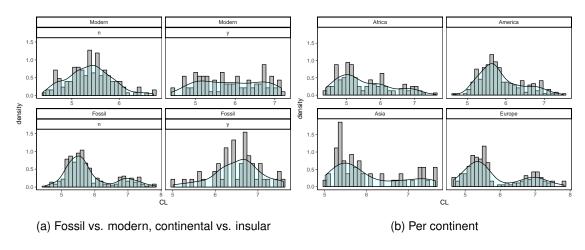


Figure S4: Histograms for several subgroups of the dataset.

# Appendix D Boxplots

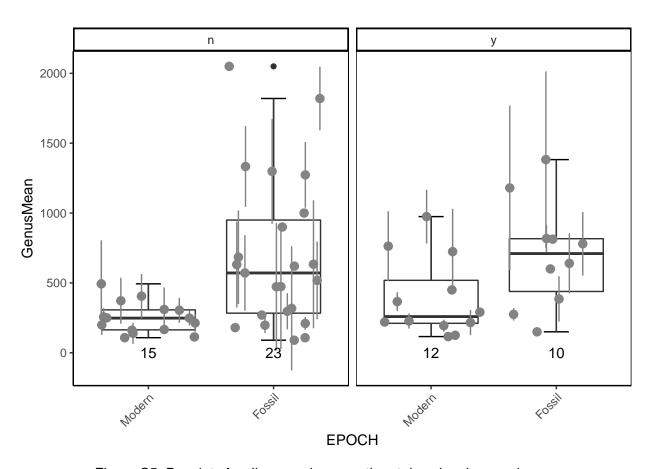


Figure S5: Boxplots fossil vs. modern, continental vs. insular species.

Wilcoxon Rank Sum Test (unpaired data):  $\mbox{modern continental < fossil continental } (\mbox{P} = 4.8532266 \times 10^{-8})$   $\mbox{modern insular < fossil insular } (\mbox{P} = 0.0018564)$ 

## Appendix E Random Sampling

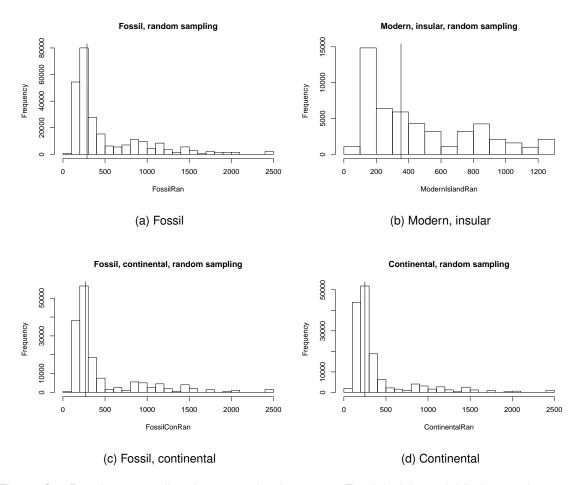


Figure S6: Random sampling for several subgroups. For (a), (c), and (d) the random sample reflects the real sample, for (b) this is not the case.

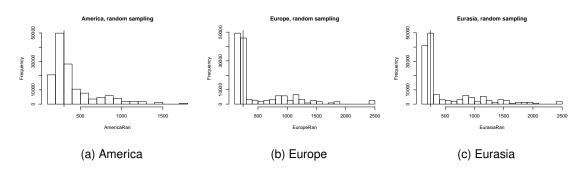


Figure S7: Random sampling for different continents. All random samples reflect the real sample.

# Appendix F paleoTS

### all (continental and insular)

Table S1: paleoTS object, all data

	idoio o ii paioo i o object, aii data					
nn	vv	mm	tt			
4	102306.64	401.9641	0.0000005			
18	42607.58	314.1859	0.0058500			
8	64620.11	506.3265	0.0688500			
7	155241.85	516.4053	0.4535000			
12	147507.20	593.8669	1.2935000			
8	580540.76	971.8850	2.1970000			
9	271043.73	658.0826	3.0940000			
8	187937.61	785.0792	4.4660000			
4	584378.85	1141.9375	6.2890000			
9	195766.19	703.9570	9.4270000			
6	285258.36	628.3020	12.7140000			
7	169914.58	687.9619	14.8950000			
9	78467.65	441.5420	19.5000000			

### continental (excluding insular species)

Table S2: paleoTS object, continental

nn	vv	mm	tt	
3	8331.753	233.1680	0.0000005	
15	13004.928	241.7917	0.0058500	
6	50619.392	397.4606	0.0688500	
5	200982.124	416.9341	0.4535000	
7	66240.066	346.8484	1.2935000	
7	595507.933	1103.1067	2.1970000	
6	414253.291	725.4156	3.0940000	

tt	mm	vv	nn
4.4660000	771.3833	259173.082	6
6.2890000	1054.4375	531455.932	4
9.4270000	703.9570	195766.185	9
12.7140000	628.3020	285258.362	6
14.8950000	687.9619	169914.577	7
19.5000000	441.5420	78467.646	9

## insular (excluding continental)

Table S3: paleoTS object, insular

	•		
tt	mm	vv	nn
0.0000005	860.9268	0.00	1
0.0058500	379.5354	68570.44	12
0.0688500	727.5938	14997.58	4
0.4535000	748.8333	142649.08	3
1.2935000	829.6744	112964.44	6
2.1970000	1178.3333	821158.33	3
3.0940000	449.4375	27058.77	4
4.4660000	826.1667	15196.06	2
6.2890000	1850.0000	0.00	1

### Europe, genera

Table S4: paleoTS object, Europe

tt	VV	nn	mm
0.00585	3338.406	2	148.8559
0.06885	138802.333	3	616.6667
0.45350	89203.953	3	377.8167
1.29350	218431.974	5	697.3717

tt	vv	nn	mm
2.19700	1110050.000	2	895.0000
3.09400	39433.333	3	453.3333
4.46600	159317.256	5	1215.8667
6.28900	875495.281	2	838.3750
9.42700	263434.389	6	800.0508
12.71400	351634.528	5	653.9625
14.89500	223154.375	5	772.0000
19.50000	183706.682	5	533.8533

### Europe, genera, continental

Table S5: paleoTs object, Europe, continental

mm	nn	VV	tt
149.5381	2	3450.8267	0.00585
187.0000	1	0.0000	0.06885
205.4750	2	198.0050	0.45350
204.9292	2	23.1767	1.29350
1420.0000	1	0.0000	2.19700
232.5000	1	0.0000	3.09400
1475.6667	3	57926.3333	4.46600
663.3750	2	473607.7812	6.28900
800.0508	6	263434.3893	9.42700
653.9625	5	351634.5281	12.71400
772.0000	5	223154.3750	14.89500
533.8533	5	183706.6821	19.50000

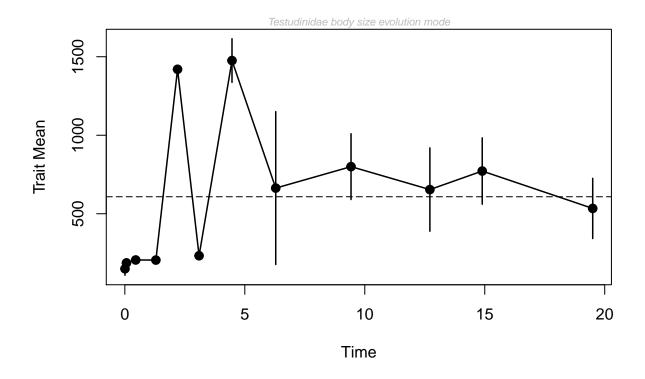


Figure S8: paleoTS, genera, Europe, continental

Table S6: Model-fitting results for testudinidae, genera, Europe, continental

	logL	K	AICc	Akaike.wt
GRW	-87.93137	2	181.3627	0.009
URW	-92.56882	1	187.5821	0.000
Stasis	-83.21073	2	171.9215	0.991

#### Europe, genera, insular

Table S7: paleoTs object, Europe, insular

mm	nn	vv	tt
187.5077	1	0.00	0.00585
831.5000	2	684.50	0.06885
722.5000	1	0.00	0.45350

mm	nn	vv	tt
835.0833	4	168423.36	1.29350
1005.0000	2	1462050.00	2.19700
451.6667	3	40558.33	3.09400
826.1667	2	15196.06	4.46600
1850.0000	1	0.00	6.28900

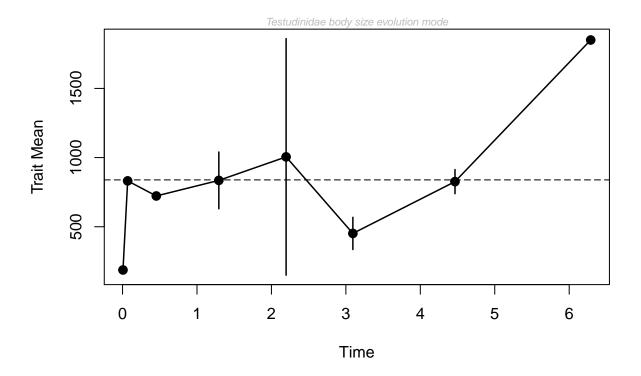


Figure S9: paleoTS, genera, Europe, insular

Table S8: Model-fitting results for testudinidae, genera, Europe, insular

	logL	K	AICc	Akaike.wt
GRW	-67.12192	2	141.2438	0.000
URW	-57.51634	1	117.8327	0.074
Stasis	-52.89638	2	112.7928	0.926

#### Eurasia, genera

Table S9: paleoTS object, Eurasia

nn	vv	mm	tt
1	0.000	137.2637	0.0000005
5	9760.467	236.8217	0.0058500
4	122579.333	530.0000	0.0688500
3	89203.953	377.8167	0.4535000
7	162641.142	777.5579	1.2935000
5	562217.222	909.6667	2.1970000
5	381770.000	892.0000	3.0940000
6	296417.219	1048.0556	4.4660000
3	849651.021	1208.9167	6.2890000
6	263434.389	800.0508	9.4270000
5	351634.528	653.9625	12.7140000
5	223154.375	772.0000	14.8950000
5	162399.349	513.8533	19.5000000

### Eurasia, genera, continental

Table S10: paleoTS object, Eurasia, continental

tt	mm	VV	nn
0.0000005	137.2637	0.000	1
0.0058500	238.0120	9654.865	5
0.0688500	228.5000	3444.500	2
0.4535000	205.4750	198.005	2
1.2935000	595.5388	191487.404	4
2.1970000	1044.5833	442006.250	4
3.0940000	1110.8333	581102.083	3
4.4660000	1159.0000	439728.667	4
6.2890000	1092.2500	788605.188	3

mm	vv	nn
800.0508	263434.389	6
653.9625	351634.528	5
772.0000	223154.375	5
513.8533	162399.349	5
	800.0508 653.9625 772.0000	800.0508 263434.389 653.9625 351634.528 772.0000 223154.375

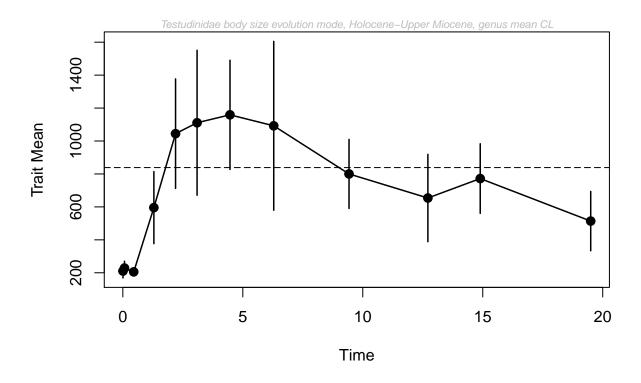


Figure S10: paleoTS, genera, Eurasia, continental

Table S11: Model-fitting results for testudinidae, genera, Eurasia, continental

	logL	K	AICc	Akaike.wt
GRW	-82.20698	2	169.7473	0.222
URW	-82.42344	1	167.2469	0.776
Stasis	-87.19538	2	179.7241	0.002

### Eurasia, genera, insular

Table S12: paleoTS object, Eurasia, insular

tt	mm	vv	nn
0.0000005	137.2637	0.000	1
0.0058500	271.4596	5668.485	4
0.0688500	644.3333	105436.333	3
0.4535000	722.5000	0.000	1
1.2935000	882.0356	105684.077	6
2.1970000	953.6667	652233.889	5
3.0940000	891.0000	383430.000	5
4.4660000	620.4444	134562.926	3
6.2890000	1900.0000	5000.000	2
19.5000000	800.0000	0.000	1

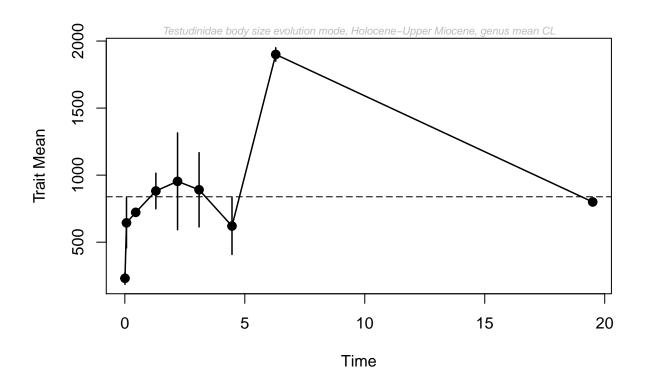


Figure S11: paleoTS, genera, Eurasia, insular

Table S13: Model-fitting results for testudinidae, genera, Eurasia, insular

	logL	K	AICc	Akaike.wt
GRW	-69.56419	2	145.1284	0.193
URW	-71.67437	1	145.9202	0.130
Stasis	-68.31026	2	142.6205	0.677

# Appendix G Tables

Table S14: General statistics of body size data: all, per time bin, insular and continental, per continent (all referring to CL: min, max, variance, mean, logmean, median, logmedian, skewness, logskewness, kurosis, logkurtosis

		,,										
nCL	min	max	var	mean	logm	med	logmed	skew	logsk	kurt	logku	Variable
616	80.00	2500	164537.80	437.2	2.5	270.5	2.4	2.14	69.0	8.00	2.73	all
253	80.00	1300	67485.50	330.3	2.4	242.0	2.4	1.83	0.58	5.87	2.69	Modern
49	102.44	1250	99.06969	445.9	2.6	334.7	2.5	1.20	0.24	3.61	2.56	Upper Pleistocene
53	132.00	1800	97910.83	387.1	2.5	292.9	2.5	3.03	1.52	12.24	5.55	Middle Pleistocene
22	107.80	2000	161948.82	463.5	2.5	263.0	2.4	1.74	0.73	5.76	2.40	Lower Pleistocene
31	118.90	2050	411224.51	555.2	2.5	194.9	2.3	1.31	0.93	3.12	2.11	Gelasian
21	90.00	1600	270535.82	610.6	2.6	428.0	2.6	1.00	0.14	2.50	1.99	Piacencian
26	176.00	2500	476162.71	955.2	2.9	857.5	2.9	1.1	-0.40	3.56	2.30	Zanclean
10	140.00	2100	602611.21	948.9	2.8	916.0	2.9	0.26	-0.22	1.49	1.29	Messinian
45	107.00 1540	1540	175470.12	462.7	2.5	250.0	2.4	1.49	0.81	3.74	2.54	Tortonian
27	111.00 1500	1500	126060.40	337.7	2.4	220.0	2.3	2.49	1.77	7.77	5.30	Serravallian
<del>1</del>	270.00	1600	230451.33	747.9	2.8	700.0	2.8	0.30	0.03	1.55	1.18	Langhian
30	113.00	1100	76288.76	406.8	2.5	302.4	2.5	1.27	0.45	3.45	2.26	Burdigalian/Aquitanian
253	80.00	1300	67485.50	330.3	2.4	242.0	2.4	1.83	0.58	5.87	2.69	Modern
363	90.00	2500	219004.66	511.7	2.6	285.6	2.5	1.83	0.68	6.11	2.42	Fossil
469	81.00	2500	157808.79	392.9	2.5	250.0	2.4	2.65	1.07	10.57	3.74	continental
147	80.00	2000	160834.35	578.5	2.6	500.0	2.7	1.02	-0.27	3.95	2.05	insular

Table S14 – continued from previous page

kurt logku Variable	modern-con	modern-ins	fossil-con	fossil-ins	Africa	America	Asia	Europe
logku	2.98	1.77	2.96	3.18	2.48	2.91	2.24	2.34
kurt	8.09	2.47	7.25	4.02	7.97	6.79	3.61	6.30
logsk	0.29	0.01	96.0	-0.40	0.68	0.75	0.85	0.81
skew	1.92	0.82	2.11	1.1	2.10	1.92	1.43	1.86
med logmed skew logsk	2.3	2.5	2.4	2.9	2.3	2.5	2.4	2.4
	221.0	353.0	270.0	750.0	193.5	302.2	280.0	245.0
logm	2.3	2.6	2.5	2.8	2.4	2.5	2.6	2.5
mean logm	244.0	471.5	467.9	780.0	347.7	415.0	585.5	491.2
var	17009.02	118641.09	212116.79	180825.40	112417.26	82209.71	323123.20	254222.84
min max	830	1300	2500	2000	2050	1800	2100	2500
min	81.00	80.00	90.00	150.00	80.00	102.44	150.00	107.00
nCL	157	96	312	21	142	242	29	173

Table S15: Overview over genera (modern and fossil) per time bin, with sample sizes and mean CL.

EpochBins	Genus	n	meanCL
Modern	Aldabrachelys	12	974.5833
Modern	Astrochelys	14	366.2143
Modern	Centrochelys	3	493.3333
Modern	Chelonoidis	45	531.5178
Modern	Chersina	15	176.2667
Modern	Cylindraspis	5	724.0000
Modern	Geochelone	8	252.1250
Modern	Gopherus	23	302.4839
Modern	Hesperotestudo	1	250.0000
Modern	Homopus	7	139.2857
Modern	Indotestudo	16	242.9875
Modern	Kinixys	15	213.0667
Modern	Malacochersus	2	166.5000
Modern	Manouria	9	380.7778
Modern	Psammobates	17	113.4118
Modern	Pyxis	16	124.1875
Modern	Stigmochelys	6	405.3333
Modern	Testudo	39	197.5436
Upper Pleistocene	Centrochelys	1	850.0000
Upper Pleistocene	Chelonoidis	11	693.1818
Upper Pleistocene	Eurotestudo	1	187.0000
Upper Pleistocene	gen.	1	813.0000
Upper Pleistocene	Geochelone	2	475.0000
Upper Pleistocene	Gopherus	22	294.1545
Upper Pleistocene	Hesperotestudo	10	468.2760
Upper Pleistocene	Indotestudo	1	270.0000
Middle Pleistocene	Centrochelys	4	722.5000
Middle Pleistocene	Chelonoidis	1	1139.0000

Table S15 – continued from previous page

	•	•	
EpochBins	Genus	n	meanCL
Middle Pleistocene	Eurotestudo	4	195.5250
Middle Pleistocene	Geochelone	1	170.0000
Middle Pleistocene	Gopherus	33	307.0721
Middle Pleistocene	Hesperotestudo	5	882.0000
Middle Pleistocene	Testudo	5	198.7400
Lower Pleistocene	Centrochelys	4	762.5000
Lower Pleistocene	Cheirogaster	2	857.0000
Lower Pleistocene	Chelonoidis	3	716.6667
Lower Pleistocene	Eurotestudo	4	201.5250
Lower Pleistocene	gen.	1	900.0000
Lower Pleistocene	Geochelone	1	340.0000
Lower Pleistocene	Gopherus	13	316.8077
Lower Pleistocene	Hesperotestudo	16	323.0562
Lower Pleistocene	Megalochelys	5	1041.8800
Lower Pleistocene	Psammobates	1	107.8000
Lower Pleistocene	Testudo	6	259.1667
Lower Pleistocene	Titanochelon	1	1300.0000
Gelasian	Centrochelys	1	2050.0000
Gelasian	Eurotestudo	1	150.0000
Gelasian	Gopherus	15	185.7467
Gelasian	Hesperotestudo	2	1000.0000
Gelasian	Manouria	1	900.0000
Gelasian	Megalochelys	3	1683.3333
Gelasian	Testudo	6	166.0000
Gelasian	Titanochelon	2	1640.0000
Piacencian	Aldabrachelys	3	1333.3333
Piacencian	Centrochelys	1	610.0000
Piacencian	Chelonoidis	4	442.7500
Piacencian	Gopherus	1	885.5000

Table S15 – continued from previous page

EpochBins	Genus	n	meanCL
Piacencian	Hesperotestudo	5	211.1600
Piacencian	Homopus	1	90.0000
Piacencian	Megalochelys	2	1600.0000
Piacencian	Testudo	3	230.0000
Piacencian	Titanochelon	1	520.0000
Zanclean	Caudochelys	2	805.5000
Zanclean	Centrochelys	3	913.3333
Zanclean	Cheirogaster	1	739.0000
Zanclean	Ergilemys	2	209.0000
Zanclean	Geochelone	6	741.0000
Zanclean	Hesperotestudo	1	195.8000
Zanclean	Testudo	5	1377.0000
Zanclean	Titanochelon	6	1300.0000
Messinian	Hesperotestudo	2	941.0000
Messinian	Megalochelys	2	1950.0000
Messinian	Testudo	4	176.7500
Messinian	Titanochelon	2	1500.0000
Tortonian	"Hadrianus"	1	1000.0000
Tortonian	Cheirogaster	3	1288.3333
Tortonian	gen.	3	660.0000
Tortonian	Geochelone	3	741.3333
Tortonian	Gopherus	6	354.0000
Tortonian	Hesperotestudo	4	439.9750
Tortonian	Paleotestudo	3	233.6667
Tortonian	Testudo	20	218.3050
Tortonian	Titanochelon	2	1400.0000
Serravallian	Cheirogaster	2	1250.0000
Serravallian	gen.	1	270.0000
Serravallian	Gopherus	1	500.0000

Table S15 – continued from previous page

EpochBins	Genus	n	meanCL
Serravallian	Paleotestudo	19	206.5789
Serravallian	Testudo	3	190.2333
Serravallian	Titanochelon	1	1353.0000
Langhian	Caudochelys	1	339.9000
Langhian	Chelonoidis	3	553.3333
Langhian	Ergilemys	1	1000.0000
Langhian	gen.	1	1000.0000
Langhian	Paleotestudo	2	272.5000
Langhian	Testudo	2	337.5000
Langhian	Titanochelon	4	1312.5000
Burdigalian/Aquitanian	Caudochelys	1	334.0000
Burdigalian/Aquitanian	gen.	1	270.0000
Burdigalian/Aquitanian	Geochelone	4	652.5000
Burdigalian/Aquitanian	Impregnochelys	1	620.0000
Burdigalian/Aquitanian	Mesocherus	5	180.0000
Burdigalian/Aquitanian	Namibchersus	9	518.1111
Burdigalian/Aquitanian	Paleotestudo	2	146.1500
Burdigalian/Aquitanian	Testudo	6	252.1167
Burdigalian/Aquitanian	Titanochelon	1	1001.0000

Table S16: General overview over genera, with sample sizes and mean CL.

Genus	n	meanCL
"Hadrianus"	1	1000.0000
Aldabrachelys	15	1046.3333
Astrochelys	14	366.2143
Caudochelys	4	571.2250
Centrochelys	17	804.1176
Cheirogaster	8	1102.2500
Chelonoidis	67	571.0940

Table S16 – continued from previous page

Genus	n	meanCL
Chersina	15	176.2667
Cylindraspis	5	724.0000
Ergilemys	3	472.6667
Eurotestudo	10	192.5200
gen.	8	654.1250
Geochelone	25	510.2800
Gopherus	114	298.0361
Hesperotestudo	46	465.3296
Homopus	8	133.1250
Impregnochelys	1	620.0000
Indotestudo	17	244.5765
Kinixys	15	213.0667
Malacochersus	2	166.5000
Manouria	10	432.7000
Megalochelys	12	1446.6167
Mesocherus	5	180.0000
Namibchersus	9	518.1111
Paleotestudo	26	210.1269
Psammobates	18	113.1000
Pyxis	16	124.1875
Stigmochelys	6	405.3333
Testudo	99	269.2465
Titanochelon	20	1315.2000

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Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Astrochelys	Astrochelys radiata	395.00	Ε	Modern	0.000001	λ	Africa
Kinixys	Kinixys belliana	162.00	Ε	Modern	0.000001	C	Africa
Psammobates	Psammobates geometricus	107.00	Ε	Modern	0.000001	L	Africa
Kinixys	Kinixys belliana	157.00	Ε	Modern	0.000001	C	Africa
Aldabrachelys	Aldabrachelys gigantea	870.00	Ε	Modern	0.000001	>	Africa
Kinixys	Kinixys belliana	174.00	Ε	Modern	0.000001	C	Africa
Stigmochelys	Stigmochelys pardalis	345.00	Ε	Modern	0.000001	C	Africa
Psammobates	Psammobates geometricus	92.00	Ε	Modern	0.000001	C	Africa
Chersina	Chersina angulata	179.30	Ε	Modern	0.000001	C	Africa
Chersina	Chersina angulata	170.00	Ε	Modern	0.000001	C	Africa
Testudo	Testudo kleinmanni	144.00	Ε	Modern	0.000001	C	Africa
Malacochersus	Malacochersus tornieri	153.00	Ε	Modern	0.000001	C	Africa
Psammobates	Psammobates oculifer	119.00	Ε	Modern	0.000001	C	Africa
Kinixys	Kinixys homeana	193.00	Ε	Modern	0.000001	C	Africa
Cylindraspis	Cylindraspis vosmaeri	500.00	Ε	Modern	0.000001	>	Africa
Homopus	Homopus aerolatus	88.00	Ε	Modern	0.000001	C	Africa
Stigmochelys	Stigmochelys pardalis	405.00	Ε	Modern	0.000001	C	Africa
Chersina	Chersina angulata	162.00	Ε	Modern	0.000001	C	Africa

Table S17 – continued from previous page

Genus	Taxon	CL	CL estimated	EpochBins	Age	Age Island	Con
Kinixys	Kinixys belliana	180.00	Ε	Modern	0.000001	C	Africa
Astrochelys	Astrochelys radiata	285.00	Ε	Modern	0.000001	>	Africa
Kinixys	Kinixys erosa	400.00	Ε	Modern	0.000001	C	Africa
Astrochelys	Astrochelys radiata	242.00	Ε	Modern	0.000001	>	Africa
Aldabrachelys	Aldabrachelys gigantea	810.00	Ε	Modern	0.000001	>	Africa
Pyxis	Pyxis planicauda	126.00	Ε	Modern	0.000001	>	Africa
Cylindraspis	Cylindraspis indica	00.009	Ε	Modern	0.000001	>	Africa
Psammobates	Psammobates tentorius	111.00	Ε	Modern	0.000001	_	Africa
Kinixys	Kinixys erosa	164.00	Ε	Modern	0.000001	С	Africa
Kinixys	Kinixys erosa	271.00	Ε	Modern	0.000001	_	Africa
Indotestudo	Indotestudo travancorica	224.00	Ε	Modern	0.000001	С	Africa
Psammobates	Psammobates oculifer	101.00	Ε	Modern	0.000001	C	Africa
Homopus	Homopus signatus	94.00	Ε	Modern	0.000001	_	Africa
Kinixys	Kinixys belliana	194.00	Ε	Modern	0.000001	С	Africa
Kinixys	Kinixys belliana	230.00	Ε	Modern	0.000001	С	Africa
Stigmochelys	Stigmochelys pardalis	720.00	Ε	Modern	0.000001	_	Africa
Kinixys	Kinixys homeana	223.00	E	Modern	0.000001	_	Africa
Kinixys	Kinixys lobatsiana	200.00	Ε	Modern	0.000001	_	Africa

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Kinixys	Kinixys natalensis	160.00	Ε	Modern	0.000001	C	Africa
Chersina	Chersina angulata	202.00	E	Modern	0.000001	⊑	Africa
Chersina	Chersina angulata	351.00	E	Modern	0.000001	>	Africa
Homopus	Homopus femoralis	168.00	E	Modern	0.000001	⊑	Africa
Centrochelys	Centrochelys sulcata	215.00	E	Modern	0.000001	⊆	Africa
Astrochelys	Astrochelys yniphora	307.00	Ε	Modern	0.000001	>	Africa
Chersina	Chersina angulata	181.00	E	Modern	0.000001	⊆	Africa
Psammobates	Psammobates tentorius	145.00	٤	Modern	0.000001	⊑	Africa
Stigmochelys	Stigmochelys pardalis	315.00	E	Modern	0.000001	⊑	Africa
Pyxis	Pyxis planicauda	160.00	Ε	Modern	0.000001	>	Africa
Psammobates	Psammobates antiquorum	107.80	E	Lower Pleistocene	1.800000	⊑	Africa
Stigmochelys	Stigmochelys pardalis	350.00	E	Modern	0.000001	⊑	Africa
Aldabrachelys	Aldabrachelys abrupta	1000.00	шо	Modern	0.002000	>	Africa
Chersina	Chersina angulata	181.90	Ε	Modern	0.000001	>	Africa
Psammobates	Psammobates tentorius	116.00	E	Modern	0.000001	>	Africa
Astrochelys	Astrochelys yniphora	415.00	Ε	Modern	0.000001	>	Africa
Aldabrachelys	Aldabrachelys gigantea	770.00	Ε	Modern	0.000001	>	Africa
Chersina	Chersina angulata	160.00	Ε	Modern	0.000001	_	Africa

Table S17 – continued from previous page

Genus	Taxon	딩	estimated	EpochBins	Age	Island	Con
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Chersina	Chersina angulata	148.00	Ε	Modern	0.000001	_	Africa
Aldabrachelys	Aldabrachelys gigantea	720.00	Ε	Modern	0.000001	>	Africa
Astrochelys	Astrochelys yniphora	426.00	Ε	Modern	0.000001	>	Africa
Astrochelys	Astrochelys radiata	334.00	Ε	Modern	0.000001	>	Africa
Centrochelys	Centrochelys sulcata	830.00	Ε	Modern	0.000001	C	Africa
Pyxis	Pyxis arachnoides	144.00	Ε	Modern	0.000001	>	Africa
Pyxis	Pyxis arachnoides	86.00	Ε	Modern	0.000001	>	Africa
Pyxis	Pyxis arachnoides	154.00	Ε	Modern	0.000001	>	Africa
Pyxis	Pyxis arachnoides	110.00	Ε	Modern	0.000001	>	Africa
Namibchersus	Namibchersus namaquensis	254.00	Ε	Burdigalian/Aquitanian	18.000000	C	Africa
Pyxis	Pyxis planicauda	132.00	Ε	Modern	0.000001	>	Africa
Homopus	Homopus boulengeri	110.00	Ε	Modern	0.000001	_	Africa
Pyxis	Pyxis planicauda	134.00	Ε	Modern	0.000001	>	Africa
Pyxis	Pyxis planicauda	120.00	Ε	Modern	0.000001	>	Africa
Homopus	Homopus solus	109.00	Ε	Modern	0.000001	C	Africa
Centrochelys	Centrochelys sulcata	435.00	٤	Modern	0.000001	_	Africa
Pyxis	Pyxis arachnoides	110.00	E	Modern	0.000001	>	Africa
Pyxis	Pyxis arachnoides	80.00	Ε	Modern	0.000001	>	Africa

Table S17 - continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Astrochelys	Astrochelys radiata	305.00	Ε	Modern	0.000001	>	Africa
Stigmochelys	Stigmochelys pardalis	297.00	Ε	Modern	0.000001	<b>L</b>	Africa
Namibchersus	Namibchersus aff. namaquensis	1100.00	шо	Burdigalian/Aquitanian	17.250000	L	Africa
Aldabrachelys	Aldabrachelys gigantea	875.00	Ε	Modern	0.000001	>	Africa
Namibchersus	Namibchersus aff. namaquensis	550.00	шо	Burdigalian/Aquitanian	17.250000	C	Africa
Chersina	Chersina angulata	166.40	Ε	Modern	0.000001	_	Africa
Chersina	Chersina angulata	171.60	٤	Modern	0.000001	>	Africa
Chersina	Chersina angulata	136.00	٤	Modern	0.000001	_	Africa
Geochelone	Geochelone stromeri	425.00	E	Zanclean	4.466000	_	Africa
Testudo	Testudo sp.	184.00	mf	Gelasian	2.500000	_	Africa
Geochelone	Geochelone stromeri	350.00	E	Zanclean	4.466000	_	Africa
Namibchersus	Namibchersus namaquensis	264.00	٤	Burdigalian/Aquitanian	19.500000	C	Africa
Pyxis	Pyxis arachnoides	150.00	٤	Modern	0.000001	>	Africa
Psammobates	Psammobates oculifer	103.00	E	Modern	0.000001	_	Africa
Psammobates	Psammobates oculifer	105.00	Ε	Modern	0.000001	C	Africa
Psammobates	Psammobates geometricus	118.00	Ε	Modern	0.000001	_	Africa
Psammobates	Psammobates geometricus	105.00	E	Modern	0.000001	_	Africa
Testudo	Testudo oughlamensis	120.00	ОШ	Gelasian	2.500000	⊑	Africa

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Astrochelys	Astrochelys radiata	355.00	٤	Modern	0.000001	γ	Africa
Aldabrachelys	Aldabrachelys gigantea	800.00	Ε	Modern	0.000001	>	Africa
Namibchersus	Namibchersus aff. namaquensis	440.00	шо	Burdigalian/Aquitanian	17.250000	⊑	Africa
Chersina	Chersina angulata	153.50	Ε	Modern	0.000001	⊑	Africa
Cylindraspis	Cylindraspis triserrata	1100.00	٤	Modern	0.000001	>	Africa
Astrochelys	Astrochelys yniphora	486.00	٤	Modern	0.000001	>	Africa
Chersina	Chersina angulata	161.30	٤	Modern	0.000001	>	Africa
Aldabrachelys	"Aldabrachelys" laetoliensis	1000.00	шо	Piacencian	2.703000	⊆	Africa
Geochelone	Geochelone sp.	1446.00	eh	Tortonian	8.476000	⊑	Africa
Kinixys	Kinixys sp.	268.00	ef	Modern	0.009500	⊆	Africa
Aldabrachelys	Aldabrachelys grandidieri	1240.00	Ε	Modern	0.001500	>	Africa
Testudo	Testudo aff. kenitrensis	142.00	m	Gelasian	2.500000	⊑	Africa
Testudo	Testudo sp.	200.00	mf	Gelasian	2.500000	⊑	Africa
Aldabrachelys	Aldabrachelys gigantea	1190.00	٤	Modern	0.000001	>	Africa
Psammobates	Psammobates tentorius	95.00	Ε	Modern	0.000001	⊑	Africa
Psammobates	Psammobates tentorius	81.00	Ε	Modern	0.000001	⊑	Africa
Pyxis	Pyxis planicauda	114.00	Ε	Modern	0.000001	>	Africa
Mesocherus	Mesocherus orangeus	160.00	ОШ	Burdigalian/Aquitanian	17.250000	L	Africa

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Pyxis	Pyxis planicauda	148.00	Ε	Modern	0.000001	>	Africa
Psammobates	Psammobates oculifer	111.00	Ε	Modern	0.000001	C	Africa
Geochelone	Geochelone crassa	865.00	mf	Zanclean	4.145000	L	Africa
Pyxis	Pyxis arachnoides	111.00	Ε	Modern	0.000001	>	Africa
Impregnochelys	Impregnochelys pachytectis	620.00	Ε	Burdigalian/Aquitanian	19.500000	_	Africa
Mesocherus	Mesocherus orangeus	200.00	шо	Burdigalian/Aquitanian	17.250000	_	Africa
Namibchersus	Namibchersus namaquensis	815.00	Ε	Burdigalian/Aquitanian	18.000000	_	Africa
Chersina	Chersina angulata	120.00	Ε	Modern	0.000001	_	Africa
Namibchersus	Namibchersus namaquensis	300.00	Ε	Burdigalian/Aquitanian	19.500000	_	Africa
Aldabrachelys	Aldabrachelys gigantea	1140.00	Ε	Modern	0.000001	>	Africa
Astrochelys	Astrochelys radiata	400.00	Ε	Modern	0.000001	>	Africa
Aldabrachelys	Aldabrachelys grandidieri	1250.00	шо	Modern	0.001500	>	Africa
Astrochelys	Astrochelys yniphora	446.00	Ε	Modern	0.000001	>	Africa
Cylindraspis	Cylindraspis peltastes	420.00	Ε	Modern	0.000001	>	Africa
Psammobates	Psammobates geometricus	165.00	Ε	Modern	0.000001	_	Africa
Mesocherus	Mesocherus orangeus	180.00	шо	Burdigalian/Aquitanian	17.250000	_	Africa
Psammobates	Psammobates oculifer	147.00	Ε	Modern	0.000001	_	Africa
Cylindraspis	Cylindraspis inepta	1000.00	Ε	Modern	0.000001	>	Africa

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	ומטום כו		continued from previous page	vious page			
Genus	Taxon	C	estimated	EpochBins	Age	Island	Con
Centrochelys	Centrochelys atlantica	400.00	ОШ	Lower Pleistocene	1.300000	>	Africa
Aldabrachelys	Aldabrachelys gigantea	1030.00	E	Modern	0.000001	>	Africa
Homopus	Homopus aerolatus	300.00	E	Modern	0.000001	C	Africa
Psammobates	Psammobates oculifer	107.00	E	Modern	0.000001	C	Africa
Namibchersus	Namibchersus namaquensis	470.00	E	Burdigalian/Aquitanian	18.000000	C	Africa
Astrochelys	Astrochelys yniphora	370.00	E	Modern	0.000001	>	Africa
Centrochelys	Centrochelys marocana	2050.00	шо	Gelasian	2.500000	_	Africa
Kinixys	Kinixys spekii	220.00	Ε	Modern	0.000001	C	Africa
Homopus	Homopus fenestratus	90.00	шо	Piacencian	3.056500	_	Africa
Malacochersus	Malacochersus tornieri	180.00	Ε	Modern	0.000001	C	Africa
Homopus	Homopus signatus	106.00	Ε	Modern	0.000001	_	Africa
Mesocherus	Mesocherus orangeus	180.00	шо	Burdigalian/Aquitanian	17.250000	C	Africa
Testudo	Testudo kenitrensis	132.00	шо	Middle Pleistocene	0.453500	_	Africa
Mesocherus	Mesocherus orangeus	180.00	шо	Burdigalian/Aquitanian	17.250000	C	Africa
Astrochelys	Astrochelys yniphora	361.00	Ε	Modern	0.000001	>	Africa
Namibchersus	Namibchersus namaquensis	470.00	Ε	Burdigalian/Aquitanian	18.000000	_	Africa
Geochelone	Geochelone elegans	208.00	E	Modern	0.000001	_	Asia
Geochelone	Geochelone elegans	245.00	Ε	Modern	0.000001	C	Asia

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Geochelone	Geochelone elegans	221.00	Ε	Modern	0.000001	_	Asia
Geochelone	Geochelone elegans	220.00	E	Modern	0.000001	>	Asia
Geochelone	Geochelone elegans	221.00	Ε	Modern	0.000001	С	Asia
Geochelone	Geochelone platynota	222.00	E	Modern	0.000001	ᄆ	Asia
Indotestudo	Indotestudo forstenii	202.00	Ε	Modern	0.000001	>	Asia
Megalochelys	Megalochelys sondaari	1000.00	Э	Lower Pleistocene	1.350000	>	Asia
Indotestudo	Indotestudo forstenii	309.00	E	Modern	0.000001	>	Asia
Megalochelys	Megalochelys atlas	1650.00	шо	Gelasian	2.000000	>	Asia
Indotestudo	Indotestudo forstenii	199.00	Ε	Modern	0.000001	>	Asia
Indotestudo	Indotestudo elongata	244.20	E	Modern	0.000001	C	Asia
Indotestudo	Indotestudo travancorica	244.20	E	Modern	0.000001	C	Asia
Testudo	Testudo graeca	300.00	Ε	Modern	0.000001	C	Asia
Manouria	Manouria impressa	165.00	Ε	Modern	0.000001	C	Asia
Indotestudo	Indotestudo elongata	276.00	Ε	Modern	0.000001	C	Asia
Indotestudo	Indotestudo elongata	235.00	Ε	Modern	0.000001	C	Asia
Indotestudo	Indotestudo elongata	208.00	E	Modern	0.000001	C	Asia
Indotestudo	Indotestudo elongata	166.00	Ε	Modern	0.000001	<b>C</b>	Asia
Manouria	Manouria impressa	350.00	٤	Modern	0.000001	C	Asia

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Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Testudo	Testudo graeca	250.00	Ε	Modern	0.000001	_	Asia
Testudo	Testudo graeca	280.00	E	Modern	0.000001	>	Asia
Manouria	Manouria emys	212.00	E	Modern	0.000001	П	Asia
Manouria	Manouria emys	445.00	E	Modern	0.000001	ᄆ	Asia
Manouria	Manouria emys	330.00	Ε	Modern	0.000001	ᄆ	Asia
Megalochelys	Megalochelys atlas	2000.00	шо	Gelasian	2.190500	ᄆ	Asia
Testudo	Testudo changshanesis	330.00	шо	Lower Pleistocene	1.684500	C	Asia
Indotestudo	Indotestudo forstenii	200.50	E	Modern	0.000001	>	Asia
Testudo	Testudo horsfieldii	280.00	Ε	Modern	0.000001	C	Asia
Megalochelys	Megalochelys sondaari	818.00	o e	Lower Pleistocene	1.350000	>	Asia
Indotestudo	Indotestudo travancorica	249.70	E	Modern	0.000001	C	Asia
Manouria	Manouria punjabiensis	900.006	шо	Gelasian	2.190500	C	Asia
Megalochelys	Megalochelys sp.	1200.00	ev	Lower Pleistocene	0.90000	>	Asia
Indotestudo	Indotestudo elongata	270.00	E	Upper Pleistocene	0.037000	C	Asia
Ergilemys	Ergilemys oskarkuhni	220.00	E	Zanclean	3.950000	C	Asia
Megalochelys	Megalochelys atlas	1600.00	ОШ	Piacencian	3.094000	<u>c</u>	Asia
Geochelone	Geochelone platynota	300.00	Ε	Modern	0.000001	C	Asia
Aldabrachelys	Aldabrachelys ? sp.	1500.00	o E	Piacencian	3.000000	<b>L</b>	Asia

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Genus	Taxon	디	estimated	EpochBins	Age	Island	Con
Indotestudo	Indotestudo travancorica	219.60	Ε	Modern	0.000001	C	Asia
Megalochelys	Megalochelys sp.	191.40	٤	Lower Pleistocene	1.684500	>	Asia
Manouria	Manouria oyamai	450.00	шо	Modern	0.011000	>	Asia
Indotestudo	Indotestudo elongata	219.60	٤	Modern	0.000001	_	Asia
Megalochelys	Megalochelys atlas	1800.00	Ε	Messinian	5.423000	_	Asia
Testudo	Testudo transcaucasia	150.00	шо	Gelasian	2.190500	_	Asia
Megalochelys	Megalochelys atlas	1600.00	шо	Piacencian	3.094000	_	Asia
Manouria	Manouria emys	00.009	٤	Modern	0.000001	_	Asia
Indotestudo	Indotestudo travancorica	331.00	Ε	Modern	0.000001	_	Asia
Geochelone	Geochelone sp.	800.00	ev	Burdigalian/Aquitanian	16.500000	_	Asia
Manouria	Manouria impressa	275.00	Ε	Modern	0.00001	_	Asia
Indotestudo	Indotestudo elongata	360.00	Ε	Modern	0.000001	_	Asia
Manouria	Manouria emys	00.009	Ε	Modern	0.00001	_	Asia
Ergilemys	Ergilemys oskarkuhni	198.00	٤	Zanclean	3.950000	_	Asia
Megalochelys	Megalochelys sp.	2000.00	Ε	Lower Pleistocene	1.684500	>	Asia
Megalochelys	Megalochelys atlas	1400.00	шо	Gelasian	2.000000	>	Asia
Geochelone	Geochelone elegans	380.00	Ε	Modern	0.000001	_	Asia
gen.	gen. indet.	900.00	шо	Lower Pleistocene	1.684500	_	Asia

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Testudo	Testudo ranovi	200.00	шо	Gelasian	2.190500	u	Asia
Aldabrachelys	Aldabrachelys ? sp.	1500.00	шо	Piacencian	3.000000	⊑	Asia
Megalochelys	Megalochelys atlas	2100.00	шо	Messinian	5.423000	⊑	Asia
Chelonoidis	Chelonoidis sp.	550.00	٤	Modern	0.001000	>	America
Gopherus	Gopherus morafkai	299.00	E	Modern	0.000001	⊑	America
Hesperotestudo	Hesperotestudo bermudae	500.00	E	Middle Pleistocene	0.310000	>	America
Chelonoidis	Chelonoidis monensis	500.00	٤	Upper Pleistocene	0.064500	>	America
Chelonoidis	Chelonoidis alburyorum	453.00	Ε	Piacencian	3.201500	>	America
Chelonoidis	Chelonoidis marcanoi	614.00	eh	Upper Pleistocene	0.0690.0	>	America
Chelonoidis	Chelonoidis marcanoi	767.00	eh	Upper Pleistocene	0.0690.0	>	America
Gopherus	Gopherus flavomarginatus	450.00	Ε	Lower Pleistocene	1.050000	_	America
Chelonoidis	Chelonoidis alburyorum	428.00	Ε	Piacencian	3.201500	>	America
Chelonoidis	Chelonoidis marcanoi	778.00	eh	Upper Pleistocene	0.0690.0	>	America
Chelonoidis	Chelonoidis sombrerensis	990.00	Ε	Upper Pleistocene	0.0690.0	>	America
Geochelone	Geochelone sp.	340.00	ОШ	Lower Pleistocene	1.050000	_	America
Hesperotestudo	Hesperotestudo sp.	1500.00	шо	Lower Pleistocene	0.966000	<b>_</b>	America
Gopherus	Gopherus flavomarginatus	400.00	Ε	Modern	0.000001	<b>_</b>	America
Chelonoidis	Chelonoidis alburyorum	466.00	Ε	Piacencian	3.201500	>	America

Table S17 - continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Chelonoidis	Chelonoidis sp.	00.009	шо	Upper Pleistocene	0.0690.0	y	America
Chelonoidis	Chelonoidis sp.	400.00	шо	Upper Pleistocene	0.0690.0	>	America
Gopherus	Gopherus berlandieri	195.00	E	Lower Pleistocene	1.050000	_	America
Chelonoidis	Chelonoidis sp.	440.00	шо	Modern	0.001000	>	America
Chelonoidis	Chelonoidis marcanoi	530.00	eh	Upper Pleistocene	0.0690.0	>	America
Chelonoidis	Chelonoidis cubensis	1139.00	ef	Middle Pleistocene	0.393500	>	America
Chelonoidis	Chelonoidis sp.	800.00	шо	Lower Pleistocene	1.357000	>	America
Gopherus	Gopherus berlandieri	240.00	E	Modern	0.000001	_	America
Chelonoidis	Chelonoidis sp.	00.099	шо	Modern	0.001000	>	America
Chelonoidis	Chelonoidis sp.	512.00	шо	Modern	0.001000	>	America
Chelonoidis	Chelonoidis sp.	854.00	шо	Modern	0.001000	>	America
Chelonoidis	Chelonoidis sp.	750.00	шо	Lower Pleistocene	1.357000	>	America
Chelonoidis	Chelonoidis alburyorum	424.00	E	Piacencian	3.201500	>	America
Chelonoidis	Chelonoidis sp.	550.00	шо	Modern	0.001000	>	America
Gopherus	Gopherus donlaloi	580.00	шо	Modern	0.000175	_	America
Hesperotestudo	Hesperotestudo bermudae	270.00	Ε	Middle Pleistocene	0.310000	>	America
Gopherus	Gopherus berlandieri	256.30	Ε	Lower Pleistocene	1.050000	_	America
Chelonoidis	Chelonoidis sp.	00.009	ОШ	Lower Pleistocene	1.357000	>	America

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Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Ergilemys	Ergilemys sp.	1000.00	Е	Langhian	14.000000	u	Europe
Testudo	Testudo graeca	195.00	mf	Lower Pleistocene	1.770000	_	Europe
Eurotestudo	Eurotestudo aff. hermanni	194.70	mf	Middle Pleistocene	0.740000	C	Europe
Centrochelys	Centrochelys burchardi	940.00	шо	Middle Pleistocene	0.435000	>	Europe
Titanochelon	Titanochelon bacharidisi	1164.00	E	Zanclean	3.950000	_	Europe
Paleotestudo	Paleotestudo antiqua	159.50	E	Serravallian	13.000000	_	Europe
Testudo	Testudo horsfieldii	111.00	Ε	Modern	0.000001	_	Europe
Testudo	Testudo marginata	210.00	Ε	Lower Pleistocene	1.720000	_	Europe
Testudo	Testudo graeca	178.20	Ε	Modern	0.000001	_	Europe
Testudo	Testudo graeca	200.00	mf	Messinian	5.500000	_	Europe
Testudo	Testudo lunellensis	260.70	mf	Middle Pleistocene	0.450000	_	Europe
Testudo	Testudo sp.	500.00	шо	Zanclean	3.900000	_	Europe
Testudo	Testudo sp.	200.00	mf	Messinian	6.165000	_	Europe
Testudo	Testudo hermanni	143.50	E	Modern	0.000001	>	Europe
Pyxis	Pyxis arachnoides	108.00	Ε	Modern	0.000001	_	Europe
Eurotestudo	Eurotestudo hermanni	237.60	mf	Middle Pleistocene	0.600000	_	Europe
Testudo	Testudo marginata	246.00	٤	Modern	0.000001	_	Europe
Paleotestudo	Paleotestudo sp.	179.30	٤	Burdigalian/Aquitanian	16.550000	<b>C</b>	Europe

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Centrochelys	Centrochelys burchardi	500.00	шо	Middle Pleistocene	0.435000	y	Europe
Testudo	Testudo graeca	167.00	Ε	Messinian	5.500000	_	Europe
Testudo	Testudo marginata	290.00	Ε	Modern	0.000001	C	Europe
Paleotestudo	Paleotestudo antiqua	191.00	mf	Serravallian	13.600000	_	Europe
Testudo	Testudo hermanni	130.00	Ε	Modern	0.000001	C	Europe
Testudo	Testudo hermanni	138.50	Ε	Modern	0.000001	_	Europe
Testudo	Testudo kalksburgensis	230.00	٤	Burdigalian/Aquitanian	19.965000	_	Europe
Testudo	Testudo marginata	250.00	Ε	Modern	0.000001	>	Europe
Testudo	Testudo marginata	242.50	Ε	Modern	0.000001	>	Europe
Cheirogaster	Cheirogaster sp.	925.00	eĮ	Lower Pleistocene	0.965000	>	Europe
Testudo	Testudo marginata	246.00	Ε	Modern	0.000001	_	Europe
Testudo	Testudo horsfieldii	123.00	Ε	Modern	0.000001	_	Europe
Testudo	Testudo marginata	246.70	٤	Modern	0.000001	_	Europe
Testudo	Testudo marginata	241.70	Ε	Modern	0.000001	_	Europe
Testudo	Testudo hermanni	195.00	Ε	Modern	0.000001	>	Europe
Testudo	Testudo hermanni	250.00	٤	Modern	0.000001	C	Europe
Paleotestudo	Paleotestudo antiqua	203.00	Ε	Serravallian	12.150000	C	Europe
Testudo	Testudo horsfieldii	114.00	E	Modern	0.000001	C	Europe

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Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Testudo	Testudo horsfieldii	132.00	Е	Modern	0.000001	Ц	Europe
Centrochelys	Centrochelys robusta	1200.00	ev	Lower Pleistocene	1.300000	>	Europe
Testudo	Testudo hermanni	183.30	E	Modern	0.000001	>	Europe
Testudo	Testudo hermanni	196.00	E	Modern	0.000001	C	Europe
Testudo	Testudo hermanni	176.90	E	Modern	0.000001	L	Europe
Titanochelon	Titanochelon bacharidisi	900.00	шо	Zanclean	3.950000	C	Europe
gen.	gen. indet.	1000.00	шо	Langhian	14.700000	_	Europe
gen.	gen. indet.	270.00	шо	Serravallian	12.200000	C	Europe
Paleotestudo	Paleotestudo cf. antiqua	113.00	m	Burdigalian/Aquitanian	17.300000	_	Europe
Testudo	Testudo graeca	194.60	E	Modern	0.000001	C	Europe
Testudo	Testudo lunellensis	231.00	ev	Middle Pleistocene	0.453500	_	Europe
Testudo	Testudo lunellensis	176.00	шо	Middle Pleistocene	0.453500	C	Europe
Testudo	Testudo hermanni	168.30	E	Modern	0.000001	>	Europe
Testudo	Testudo sp.	2500.00	mf	Zanclean	3.900000	_	Europe
Testudo	Testudo burgenlandica	275.00	٤	Tortonian	8.750000	_	Europe
Testudo	Testudo kalksburgensis	275.00	Ε	Langhian	14.500000	_	Europe
Titanochelon	Titanochelon bolivari	1150.00	Ε	Messinian	6.289000	_	Europe
Paleotestudo	Paleotestudo cf. sp.	270.00	ОШ	Langhian	14.700000	C	Europe

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Genus	Taxon	占	estimated	EpochBins	Age	Island	Con
gen.	gen. indet.	880.00	E	Tortonian	8.750000		Europe
Eurotestudo	Eurotestudo globosa	263.00	Ε	Lower Pleistocene	1.800000	_	Europe
Paleotestudo	Paleotestudo antiqua	195.00	mf	Serravallian	13.000000	_	Europe
Testudo	Testudo sp.	1200.00	mf	Zanclean	3.960000	C	Europe
Centrochelys	Centrochelys burchardi	650.00	шо	Middle Pleistocene	0.435000	>	Europe
Centrochelys	Centrochelys robusta	850.00	ev	Lower Pleistocene	1.300000	>	Europe
Testudo	Testudo catalaunica	232.00	Ε	Serravallian	12.350000	L	Europe
Geochelone	Geochelone sp.	1000.00	Ε	Burdigalian/Aquitanian	16.650000	L	Europe
Geochelone	Geochelone s. I.	1750.00	шо	Zanclean	4.466000	L	Europe
Eurotestudo	Eurotestudo hermanni	170.50	mf	Middle Pleistocene	0.600000	L	Europe
Testudo	Testudo hermanni	160.00	Ε	Modern	0.000001	>	Europe
Testudo	Testudo hermanni	157.00	Ε	Modern	0.000001	>	Europe
gen.	gen. indet.	270.00	шо	Burdigalian/Aquitanian	16.400000	C	Europe
Testudo	Testudo hermanni	161.00	Ε	Modern	0.000001	C	Europe
Testudo	Testudo marginata	242.50	Ε	Modern	0.000001	>	Europe
Centrochelys	Centrochelys robusta	1100.00	шо	Zanclean	4.917000	>	Europe
Testudo	Testudo rectogularis	213.00	ОШ	Burdigalian/Aquitanian	16.370000	C	Europe
Testudo	Testudo kalksburgensis	225.00	шо	Burdigalian/Aquitanian	18.000000	C	Europe

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Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Testudo	Testudo marginata	400.00	Ε	Modern	0.000001	_	Europe
Testudo	Testudo brevitesta	300.00	mf	Piacencian	2.600000	ᄓ	Europe
Testudo	Testudo sp.	232.10	Ε	Tortonian	10.750000	C	Europe
Testudo	Testudo horsfieldii	136.00	Ε	Modern	0.000001	ᄓ	Europe
Titanochelon	Titanochelon cf. bolivari	1300.00	ΘΛ	Langhian	14.895000	C	Europe
Testudo	Testudo marginata	290.00	Ε	Lower Pleistocene	1.300000	>	Europe
Testudo	Testudo hermanni	147.00	Ε	Modern	0.000001	C	Europe
Eurotestudo	Eurotestudo hermanni	187.00	mf	Upper Pleistocene	0.110500	C	Europe
Eurotestudo	Eurotestudo aff. hermanni	179.30	mf	Middle Pleistocene	0.740000	C	Europe
Titanochelon	Titanochelon cf. perpiniana	1001.00	шо	Burdigalian/Aquitanian	16.370000	C	Europe
Testudo	Testudo sp.	245.00	Ε	Tortonian	8.300000	C	Europe
Testudo	Testudo amiatae	140.00	шо	Messinian	5.815000	C	Europe
Cheirogaster	Cheirogaster cf. gymnesica	789.00	шо	Lower Pleistocene	1.800000	>	Europe
Eurotestudo	Eurotestudo hermanni	126.00	m	Lower Pleistocene	1.150000	C	Europe
Paleotestudo	Paleotestudo antiqua	283.80	mf	Serravallian	12.500000	C	Europe
Cheirogaster	Cheirogaster sp.	1000.00	шо	Serravallian	12.200000	C	Europe
Paleotestudo	Paleotestudo cf. sp.	270.00	шо	Serravallian	12.400000	C	Europe
Paleotestudo	Paleotestudo antiqua	240.00	mf	Serravallian	13.600000	C	Europe

Table S17 - continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Paleotestudo	Paleotestudo antiqua	195.00	٤	Serravallian	13.000000	<b>_</b>	Europe
Titanochelon	Titanochelon bolivari	1353.00	шо	Serravallian	12.500000	L	Europe
Testudo	Testudo hermanni	154.00	E	Modern	0.000001	L	Europe
Centrochelys (	Centrochelys robusta	00.009	ev	Lower Pleistocene	1.300000	>	Europe
Paleotestudo	Paleotestudo antiqua	185.00	mf	Serravallian	13.000000	C	Europe
Titanochelon	Titanochelon schafferi	2500.00	шо	Zanclean	4.466000	C	Europe
Testudo	Testudo promarginata	310.00	mf	Burdigalian/Aquitanian	18.000000	C	Europe
Paleotestudo	Paleotestudo antiqua	206.00	mf	Serravallian	13.000000	C	Europe
Testudo	Testudo steinheimensis	227.70	mf	Serravallian	13.000000	C	Europe
Paleotestudo	Paleotestudo antiqua	234.00	mf	Serravallian	13.600000	C	Europe
Centrochelys (	Centrochelys robusta	850.00	шо	Upper Pleistocene	0.066000	>	Europe
Testudo	Testudo promarginata	230.00	mf	Burdigalian/Aquitanian	21.500000	C	Europe
Titanochelon	Titanochelon sp.	1420.00	шо	Gelasian	1.850000	C	Europe
Paleotestudo	Paleotestudo antiqua	240.00	Ε	Serravallian	13.000000	C	Europe
Titanochelon	Titanochelon aff. schafferi	1860.00	Ε	Gelasian	2.000000	>	Europe
Testudo	Testudo hermanni	200.00	E	Modern	0.000001	>	Europe
Testudo	Testudo steinheimensis	111.00	Ε	Serravallian	12.150000	_	Europe
Titanochelon	Titanochelon perpiniana	1140.00	E	Zanclean	3.900000	C	Europe

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Testudo	Testudo cf. graeca	185.00	Ε	Zanclean	3.900000	۵	Europe
Paleotestudo	Paleotestudo antiqua	145.00	mf	Serravallian	13.000000	С	Europe
Cheirogaster	Cheirogaster sp.	1170.00	Ε	Tortonian	10.250000	C	Europe
Testudo	Testudo cf. promarginata	250.00	Ε	Tortonian	8.300000	С	Europe
Titanochelon	Titanochelon bolivari	1100.00	шо	Langhian	15.000000	C	Europe
Centrochelys	Centrochelys robusta	790.00	eĮ	Zanclean	4.917000	>	Europe
Titanochelon	Titanochelon cf. bolivari	1600.00	eĮ	Langhian	14.895000	_	Europe
Eurotestudo	Testudo hermanni	133.10	mf	Lower Pleistocene	1.220000	_	Europe
Testudo	Testudo hermanni	176.60	Ε	Modern	0.000001	>	Europe
Testudo	Testudo s. s.	189.00	Ε	Tortonian	8.000000	_	Europe
Centrochelys	Centrochelys robusta	850.00	шо	Zanclean	4.917000	>	Europe
Testudo	Testudo lunellensis	194.00	mf	Middle Pleistocene	0.450000	_	Europe
Testudo	Testudo hermanni	173.00	Ε	Modern	0.000001	>	Europe
Paleotestudo	Paleotestudo antiqua	229.00	mf	Serravallian	13.000000	_	Europe
Cheirogaster	Cheirogaster sp.	1500.00	Φ	Serravallian	13.800000	_	Europe
Testudo	Testudo catalaunica	181.00	Ε	Tortonian	11.500000	_	Europe
gen.	gen. indet.	813.00	ef	Upper Pleistocene	0.012500	>	Europe
Titanochelon	Titanochelon cf. bolivari	1500.00	mf	Tortonian	9.433000	С	Europe

Table S17 - continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Testudo	Testudo sp.	245.00	Ε	Tortonian	8.300000	C	Europe
Paleotestudo	Paleotestudo antiqua	213.00	mf	Serravallian	13.600000	L	Europe
Testudo	Testudo sp.	2500.00	mf	Zanclean	3.900000	L	Europe
Paleotestudo	Paleotestudo antiqua	180.00	Ε	Serravallian	13.000000	C	Europe
Paleotestudo	Paleotestudo sp.	270.00	mf	Tortonian	9.500000	C	Europe
Testudo	Testudo hermanni	220.00	mf	Lower Pleistocene	1.300000	C	Europe
Paleotestudo	Paleotestudo sp.	170.00	mf	Tortonian	9.500000	C	Europe
Paleotestudo	Paleotestudo antiqua	183.70	Ε	Serravallian	12.150000	C	Europe
Testudo	Testudo sp.	245.00	Ε	Tortonian	8.300000	C	Europe
Eurotestudo	Eurotestudo cf. hermanni	150.00	шо	Gelasian	2.000000	>	Europe
Cheirogaster	Cheirogaster gymnesica	739.00	ef	Zanclean	4.450000	>	Europe
Titanochelon	Titanochelon bolivari	1300.00	mf	Tortonian	9.500000	C	Europe
Testudo	Testudo graeca	210.00	mf	Tortonian	8.450000	C	Europe
Cheirogaster	Cheirogaster richardi	1155.00	шо	Tortonian	10.400000	C	Europe
Paleotestudo	Paleotestudo antiqua	275.00	m	Langhian	15.000000	C	Europe
Testudo	Testudo cf. promarginata	250.00	E	Tortonian	8.300000	_	Europe
Titanochelon	Titanochelon bacharidisi	900.006	шо	Zanclean	3.950000	_	Europe
Titanochelon	Titanochelon bacharidisi	1196.00	Ε	Zanclean	3.950000	C	Europe

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Paleotestudo	Paleotestudo antiqua	152.00	Ε	Serravallian	13.000000	<b>C</b>	Europe
Cheirogaster	Cheirogaster sp.	1540.00	eĮ	Tortonian	8.300000	C	Europe
Testudo	Testudo sp.	245.00	E	Tortonian	8.300000	L	Europe
Paleotestudo	Paleotestudo antiqua	220.00	mf	Serravallian	13.000000	C	Europe
gen.	gen. indet.	00.099	E	Tortonian	8.750000	_	Europe
Testudo	Testudo pecorinii	225.00	Ε	Piacencian	3.094000	>	Europe
Testudo	Testudo catalaunica	107.00	Ε	Tortonian	11.500000	_	Europe
Titanochelon	Titanochelon schafferi	1850.00	E	Messinian	6.250000	>	Europe
Testudo	Testudo catalaunica	175.00	Ε	Tortonian	11.500000	_	Europe
Titanochelon	Titanochelon sp.	520.00	шо	Piacencian	2.600000	>	Europe
Testudo	Testudo promarginata	304.70	mf	Burdigalian/Aquitanian	21.500000	C	Europe
Titanochelon	Titanochelon gymnesica	1300.00	ef	Lower Pleistocene	1.300000	>	Europe
Testudo	Testudo burgenlandica	112.00	Ε	Tortonian	8.750000	_	Europe
Centrochelys	Centrochelys vulcanica	610.00	шо	Piacencian	3.094000	>	Europe
Testudo	Testudo brevitesta	165.00	m	Piacencian	2.600000	_	Europe
Testudo	Testudo sp.	245.00	٤	Tortonian	8.300000	_	Europe
gen.	gen. indet.	440.00	Ε	Tortonian	8.750000	_	Europe
Testudo	Testudo sp.	245.00	٤	Tortonian	8.300000	_	Europe

Table S17 - continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Eurotestudo	Eurotestudo hermanni	284.00	m L	Lower Pleistocene	1.350000	_	Europe
Testudo	Testudo hermanni	145.90	E	Modern	0.000001	>	Europe
Testudo	Testudo cf. promarginata	250.00	Ε	Tortonian	8.300000	C	Europe
Testudo	Testudo cf. promarginata	250.00	E	Tortonian	8.300000	ᄓ	Europe
Testudo	Testudo marginata	310.00	E	Lower Pleistocene	1.300000	>	Europe
Testudo	Testudo cf. promarginata	250.00	Ε	Tortonian	8.300000	C	Europe
Paleotestudo	Paleotestudo sp.	261.00	mf	Tortonian	9.500000	C	Europe
Testudo	Testudo catalaunica	165.00	E	Tortonian	11.500000	C	Europe
"Hadrianus"	"Hadrianus sp."	1000.00	Ε	Tortonian	8.300000	C	Europe
Titanochelon	Titanochelon bolivari	1250.00	шо	Langhian	15.000000	C	Europe
Centrochelys	Centrochelys burchardi	800.008	٤	Middle Pleistocene	0.435000	>	Europe
Gopherus	Gopherus polyphemus	217.90	шо	Lower Pleistocene	1.200000	C	America
Gopherus	Gopherus polyphemus	238.90	Ε	Modern	0.000001	C	America
Gopherus	Gopherus polyphemus	102.44	шо	Upper Pleistocene	0.0690.0	C	America
Gopherus	Gopherus polyphemus	327.60	шо	Upper Pleistocene	0.0690.0	C	America
Hesperotestudo	Hesperotestudo crassiscutata	284.90	٤	Upper Pleistocene	0.0690.0	C	America
Gopherus	Gopherus polyphemus	276.60	ОШ	Lower Pleistocene	1.200000	_	America
Gopherus	Gopherus praecedens	360.00	шо	Upper Pleistocene	0.0690.0	_	America

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Gopherus	Gopherus polyphemus	278.00	ОШ	Upper Pleistocene	0.069000	۵	America
Gopherus	Gopherus sp.	236.70	шо	Gelasian	1.900000	C	America
Gopherus	Gopherus polyphemus	273.24	шо	Upper Pleistocene	0.0690.0	C	America
Gopherus	Gopherus polyphemus	302.40	шо	Upper Pleistocene	0.0690.0	C	America
Gopherus	Gopherus polyphemus	268.80	E	Modern	0.000001	>	America
Hesperotestudo	Hesperotestudo crassiscutata	425.00	шо	Upper Pleistocene	0.012000	C	America
Gopherus	Gopherus polyphemus	334.70	шо	Upper Pleistocene	0.0690.0	C	America
Gopherus	Gopherus polyphemus	300.00	E	Modern	0.000001	>	America
Gopherus	Gopherus polyphemus	350.00	шо	Upper Pleistocene	0.0690.0	C	America
Gopherus	Gopherus polyphemus	258.30	шо	Upper Pleistocene	0.0690.0	_	America
Hesperotestudo	Hesperotestudo crassiscutata	180.40	Ε	Upper Pleistocene	0.069000	_	America
Gopherus	Gopherus flavomarginatus	371.00	Ε	Modern	0.000001	_	America
Gopherus	Gopherus polyphemus	284.90	шо	Upper Pleistocene	0.0690.0	C	America
Hesperotestudo	Hesperotestudo crassiscutata	188.00	шо	Upper Pleistocene	0.012000	C	America
Gopherus	Gopherus ? sp.	500.00	E	Serravallian	11.850000	C	America
Hesperotestudo	Hesperotestudo crassiscutata	168.00	Ε	Lower Pleistocene	1.300000	_	America
Gopherus	Gopherus agassizii	400.00	Ε	Modern	0.000001	_	America
Hesperotestudo	Hesperotestudo orthopygia	1200.00	ОШ	Messinian	5.500000	C	America

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Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Gopherus	Gopherus polyphemus	353.30	ОШ	Middle Pleistocene	0.400000	۵	America
Gopherus	Gopherus sp.	202.80	шо	Lower Pleistocene	1.800000	_	America
Gopherus	Gopherus polyphemus	387.00	E	Modern	0.000001	_	America
Gopherus	Gopherus polyphemus	279.94	шо	Upper Pleistocene	0.0690.0	드	America
Gopherus	Gopherus sp.	224.10	шо	Lower Pleistocene	1.800000	_	America
Gopherus	Gopherus polyphemus	268.90	шо	Lower Pleistocene	1.200000	_	America
Hesperotestudo	Hesperotestudo sp.	639.00	٤	Upper Pleistocene	0.060000	_	America
Gopherus	Gopherus flavomarginatus	281.00	Ε	Modern	0.000001	_	America
Gopherus	Gopherus polyphemus	252.56	шо	Upper Pleistocene	0.0690.0	_	America
Gopherus	Gopherus polyphemus	293.00	шо	Middle Pleistocene	0.400000	_	America
Gopherus	Gopherus polyphemus	155.50	ОШ	Upper Pleistocene	0.069000	_	America
Gopherus	Gopherus polyphemus	260.50	шо	Middle Pleistocene	0.400000	_	America
Gopherus	Gopherus polyphemus	256.44	шо	Middle Pleistocene	0.250000	_	America
Hesperotestudo	Hesperotestudo sp.	1000.00	шо	Gelasian	2.000000	_	America
Geochelone	Geochelone sp.	350.00	eĮ	Upper Pleistocene	0.069000	_	America
Gopherus	Gopherus sp.	181.00	шо	Gelasian	1.900000	_	America
Geochelone	Geochelone sp.	00.009	шо	Upper Pleistocene	0.012500	>	America
Gopherus	Gopherus polyphemus	303.00	Ε	Modern	0.000001	>	America

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Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Gopherus	Gopherus polyphemus	342.00	Е	Modern	0.000001	u	America
Gopherus	Gopherus sp.	256.08	Ε	Modern	0.000001	⊑	America
Gopherus	Gopherus sp.	180.90	шо	Gelasian	1.900000	⊑	America
Hesperotestudo	Hesperotestudo incisa	232.76	Ε	Upper Pleistocene	0.0690.0	⊑	America
Gopherus	Gopherus sp.	181.00	шо	Gelasian	1.900000	⊑	America
Geochelone	Geochelone tedwhitei	440.00	Ε	Burdigalian/Aquitanian	18.500000	⊆	America
Gopherus	Gopherus polyphemus	239.80	шо	Middle Pleistocene	0.250000	⊆	America
Hesperotestudo	Hesperotestudo sp.	974.00	də	Upper Pleistocene	0.060000	⊆	America
Gopherus	Gopherus polyphemus	260.11	шо	Upper Pleistocene	0.0690.0	⊆	America
Gopherus	Gopherus sp.	204.40	шо	Gelasian	1.900000	_	America
Hesperotestudo	Hesperotestudo crassiscutata	192.00	Ε	Lower Pleistocene	1.300000	⊆	America
Gopherus	Gopherus sp.	194.90	шо	Gelasian	1.900000	⊆	America
Gopherus	Gopherus polyphemus	391.90	шо	Upper Pleistocene	0.0690.0	<b>_</b>	America
Gopherus	Gopherus sp.	259.50	шо	Lower Pleistocene	1.800000	⊆	America
Geochelone	Geochelone sp.	170.00	mf	Middle Pleistocene	0.700000	⊆	America
Gopherus	Gopherus sp.	230.10	шо	Lower Pleistocene	1.800000	_	America
Hesperotestudo	Hesperotestudo incisa	224.00	E	Lower Pleistocene	1.300000	<b>_</b>	America
Hesperotestudo	Hesperotestudo equicomes	340.00	ev	Middle Pleistocene	0.300000	L	America

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Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Hesperotestudo	Hesperotestudo incisa	228.00	Ε	Lower Pleistocene	1.300000	C	America
Gopherus	Gopherus flavomarginatus	303.00	E	Modern	0.000001	⊑	America
Testudo	Testudo sp.	400.00	шо	Langhian	14.181000	⊑	America
Gopherus	Gopherus pertenuis	1050.00	шо	Lower Pleistocene	1.684500	⊑	America
Hesperotestudo	Hesperotestudo incisa	231.00	E	Lower Pleistocene	1.300000	⊑	America
Hesperotestudo	Hesperotestudo crassiscutata	327.00	Ε	Lower Pleistocene	1.300000	⊏	America
Hesperotestudo	Hesperotestudo incisa	241.00	E	Lower Pleistocene	1.300000	⊏	America
Hesperotestudo	Hesperotestudo incisa	250.00	Φ	Modern	0.007500	⊏	America
Gopherus	Gopherus polyphemus	352.00	ОШ	Upper Pleistocene	0.012000	_	America
Hesperotestudo	Hesperotestudo johnstoni	235.00	E	Piacencian	3.350000	<b>_</b>	America
Gopherus	Gopherus polyphemus	274.30	шо	Middle Pleistocene	0.250000	<b>_</b>	America
Gopherus	Gopherus flavomarginatus	222.00	Ε	Modern	0.000001	⊏	America
Gopherus	Gopherus sp.	241.90	шо	Lower Pleistocene	1.800000	⊏	America
Gopherus	Gopherus sp.	216.37	Ε	Modern	0.000001	⊏	America
Hesperotestudo	Hesperotestudo sp.	1200.00	ev	Tortonian	9.500000	_	America
Gopherus	Gopherus polyphemus	257.80	ОШ	Middle Pleistocene	0.250000	<b>_</b>	America
Hesperotestudo	Hesperotestudo crassiscutata	282.70	Ε	Upper Pleistocene	0.0690.0	<b>_</b>	America
Hesperotestudo	Hesperotestudo campester	1000.00	ОШ	Gelasian	2.190500	드	America

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Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Hesperotestudo	Hesperotestudo incisa	216.00	Ε	Lower Pleistocene	1.300000	۵	America
Hesperotestudo	Hesperotestudo mlynarskii	203.50	Ε	Lower Pleistocene	1.250000	_	America
Geochelone	Geochelone sp.	880.00	Ε	Zanclean	4.500000	_	America
Gopherus	Gopherus polyphemus	431.48	шо	Upper Pleistocene	0.0690.0	_	America
Gopherus	Gopherus polyphemus	308.00	٤	Modern	0.000001	_	America
Gopherus	Gopherus mohavetus	315.00	Ε	Tortonian	8.476000	_	America
Gopherus	Gopherus sp.	264.11	٤	Modern	0.000001	_	America
Gopherus	Gopherus sp.	118.90	шо	Gelasian	1.900000	_	America
Gopherus	Gopherus polyphemus	337.30	шо	Middle Pleistocene	0.250000	C	America
Gopherus	Gopherus sp.	163.50	шо	Gelasian	1.900000	_	America
Caudochelys	Caudochelys rexroadensis	830.00	٤	Zanclean	4.550000	_	America
Hesperotestudo	Hesperotestudo riggsi	159.50	шо	Tortonian	7.600000	_	America
Gopherus	Gopherus polyphemus	306.00	шо	Middle Pleistocene	0.250000	C	America
Hesperotestudo	Hesperotestudo crassiscutata	561.00	E	Lower Pleistocene	1.250000	_	America
Geochelone	Geochelone sp.	176.00	Φ	Zanclean	5.000000	C	America
Gopherus	Gopherus sp.	218.80	шо	Gelasian	1.900000	_	America
Gopherus	Gopherus agassizi	252.00	E	Upper Pleistocene	0.025500	_	America
Hesperotestudo	Hesperotestudo crassiscutata	180.00	٤	Lower Pleistocene	1.300000	<b>C</b>	America

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Genus	Taxon	CL	estimated	EpochBins	Age	Island	Con
Caudochelys	Caudochelys williamsi	334.00	E	Burdigalian/Aquitanian	17.750000	۵	America
Hesperotestudo	Hesperotestudo incisa	290.40	Ε	Lower Pleistocene	1.300000	L	America
Gopherus	Gopherus sp.	245.40	шо	Lower Pleistocene	1.800000	L	America
Gopherus	Gopherus polyphemus	301.97	шо	Upper Pleistocene	0.0690.0	ᄓ	America
Hesperotestudo	Hesperotestudo incisa	212.00	E	Lower Pleistocene	1.300000	C	America
Gopherus	Gopherus sp.	188.30	шо	Gelasian	1.900000	C	America
Hesperotestudo	Hesperotestudo crassiscutata	1250.00	ev	Upper Pleistocene	0.012000	C	America
Gopherus	Gopherus polyphemus	350.83	шо	Middle Pleistocene	0.400000	C	America
Hesperotestudo	Hesperotestudo riggsi	176.00	E	Piacencian	3.000000	C	America
Gopherus	Gopherus polyphemus	304.70	шо	Middle Pleistocene	0.400000	C	America
Gopherus	Gopherus sp.	143.90	шо	Gelasian	1.900000	C	America
Hesperotestudo	Hesperotestudo sp.	176.00	mf	Piacencian	3.100000	C	America
Gopherus	Gopherus polyphemus	260.51	шо	Middle Pleistocene	0.400000	C	America
Gopherus	Gopherus sp.	241.56	Ε	Modern	0.000001	C	America
Hesperotestudo	Hesperotestudo orthopygia	682.00	шо	Messinian	5.500000	C	America
Hesperotestudo	Hesperotestudo wilsoni	226.00	Ε	Upper Pleistocene	0.018000	_	America
Gopherus	Gopherus sp.	211.31	E	Modern	0.000001	_	America
Gopherus	Gopherus polyphemus	304.20	ОШ	Upper Pleistocene	0.0690.0	<b>_</b>	America

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Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Hesperotestudo	Hesperotestudo oelrichi	283.80	Ε	Piacencian	3.000000	۵	America
Gopherus	Gopherus laticaudatus	375.00	шо	Middle Pleistocene	0.396350	С	America
Gopherus	Gopherus mohavetus	334.50	Ε	Tortonian	8.476000	C	America
Hesperotestudo	Hesperotestudo riggsi	159.50	ОШ	Tortonian	7.600000	C	America
Caudochelys	Caudochelys rexroadensis	781.00	Ε	Zanclean	4.550000	_	America
Gopherus	Gopherus polyphemus	267.00	шо	Middle Pleistocene	0.250000	_	America
Gopherus	Gopherus polyphemus	295.90	шо	Middle Pleistocene	0.400000	С	America
Hesperotestudo	Hesperotestudo riggsi	195.80	Ε	Zanclean	4.550000	_	America
Gopherus	Gopherus polyphemus	324.00	шо	Upper Pleistocene	0.0690.0	С	America
Gopherus	Gopherus sp.	182.30	шо	Gelasian	1.900000	_	America
Gopherus	Gopherus polyphemus	294.16	шо	Upper Pleistocene	0.0690.0	_	America
Hesperotestudo	Hesperotestudo alleni	240.90	Ε	Tortonian	10.950000	_	America
Gopherus	Gopherus polyphemus	283.41	шо	Middle Pleistocene	0.250000	_	America
Gopherus	Gopherus polyphemus	272.48	шо	Middle Pleistocene	0.250000	С	America
Hesperotestudo	Hesperotestudo riggsi	185.00	Ε	Piacencian	3.000000	_	America
Geochelone	Geochelone tedwhitei	370.00	Ε	Burdigalian/Aquitanian	18.500000	_	America
Gopherus	Gopherus ? sp.	500.00	Ε	Tortonian	10.100000	_	America
Gopherus	Gopherus sp.	209.60	o W	Gelasian	1.900000	С	America

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Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Gopherus	Gopherus polyphemus	308.20	шо	Middle Pleistocene	0.400000	u	America
Gopherus	Gopherus polyphemus	314.60	шо	Middle Pleistocene	0.250000	⊑	America
Gopherus	Gopherus sp.	193.30	шо	Gelasian	1.900000	⊑	America
Gopherus	Gopherus sp.	188.70	шо	Gelasian	1.900000	⊑	America
Gopherus	Gopherus polyphemus	302.40	шо	Middle Pleistocene	0.250000	⊑	America
Gopherus	Gopherus polyphemus	292.00	шо	Middle Pleistocene	0.250000	⊏	America
Gopherus	Gopherus polyphemus	306.00	шо	Middle Pleistocene	0.250000	_	America
Hesperotestudo	Hesperotestudo turgida	230.00	шо	Lower Pleistocene	1.684500	⊏	America
Gopherus	Gopherus polyphemus	272.57	шо	Middle Pleistocene	0.400000	⊏	America
Gopherus	Gopherus polyphemus	322.63	шо	Middle Pleistocene	0.250000	⊏	America
Gopherus	Gopherus flavomarginatus	278.00	Ε	Modern	0.000001	_	America
Geochelone	Geochelone sp.	500.00	E	Tortonian	10.100000	⊏	America
Caudochelys	Caudochelys ducateli	339.90	E	Langhian	15.000000	⊑	America
Gopherus	Gopherus polyphemus	292.94	шо	Middle Pleistocene	0.250000	⊏	America
Gopherus	Gopherus polyphemus	348.70	шо	Middle Pleistocene	0.400000	_	America
Hesperotestudo	Hesperotestudo sp.	1500.00	то	Middle Pleistocene	0.700000	<b>_</b>	America
Gopherus	Gopherus polyphemus	285.20	шо	Middle Pleistocene	0.250000	<b>_</b>	America
Gopherus	Gopherus mohavetus	412.50	Ε	Tortonian	8.476000	드	America

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Hesperotestudo	Hesperotestudo sp.	1800.00	шо	Middle Pleistocene	0.700000	u	America
Gopherus	Gopherus polyphemus	285.60	шо	Middle Pleistocene	0.400000	_	America
Gopherus	Gopherus canyonensis	885.50	E	Piacencian	2.700000	_	America
Gopherus	Gopherus polyphemus	253.70	шо	Middle Pleistocene	0.250000	C	America
Gopherus	Gopherus polyphemus	293.57	шо	Middle Pleistocene	0.400000	_	America
Gopherus	Gopherus mohavetus	202.00	E	Tortonian	8.476000	_	America
Gopherus	Gopherus mohavetus	360.00	E	Tortonian	8.476000	_	America
Gopherus	Gopherus agassizi	445.00	шо	Middle Pleistocene	0.156000	_	America
Gopherus	Gopherus polyphemus	539.00	mf	Middle Pleistocene	0.700000	_	America
Gopherus	Gopherus polyphemus	283.00	ОШ	Middle Pleistocene	0.250000	_	America
Hesperotestudo	Hesperotestudo mlynarskii	165.00	Ε	Lower Pleistocene	1.250000	_	America
Gopherus	Gopherus flavomarginatus	246.00	Ε	Modern	0.000001	_	America
Chelonoidis	Chelonoidis chilensis	169.00	E	Modern	0.000001	_	America
Chelonoidis	Chelonoidis carbonaria	296.50	E	Modern	0.000001	_	America
Chelonoidis	Chelonoidis carbonaria	242.00	Ε	Modern	0.000001	_	America
Chelonoidis	Chelonoidis chilensis	200.00	Ε	Modern	0.000001	<b>_</b>	America
Chelonoidis	Chelonoidis carbonaria	253.00	Ε	Modern	0.000001	<b>C</b>	America
Chelonoidis	Chelonoidis denticulata	333.40	Ε	Modern	0.000001	⊏	America

Table S17 - continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Chelonoidis	Chelonoidis carbonaria	247.00	Ε	Modern	0.000001	C	America
Chelonoidis	Chelonoidis chilensis	186.00	E	Modern	0.000001	⊑	America
Chelonoidis	Chelonoidis chilensis	157.00	E	Modern	0.000001	⊑	America
Chelonoidis	Chelonoidis sp.	1000.00	шо	Upper Pleistocene	0.0690.0	⊑	America
Chelonoidis	Chelonoidis carbonaria	333.40	E	Modern	0.000001	⊑	America
Chelonoidis	Chelonoidis nigra	745.70	E	Modern	0.000001	>	America
Chelonoidis	Chelonoidis carbonaria	290.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis sp.	300.008	шо	Langhian	15.900000	⊏	America
Chelonoidis	Chelonoidis denticulata	365.00	Ε	Modern	0.000001	⊏	America
Chelonoidis	Chelonoidis chilensis	183.00	E	Modern	0.000001	<b>_</b>	America
Chelonoidis	Chelonoidis denticulata	317.00	E	Modern	0.000001	_	America
Chelonoidis	Chelonoidis chilensis	169.00	Ε	Modern	0.000001	<b>_</b>	America
Chelonoidis	Chelonoidis hoodensis	813.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis phantastica	860.00	E	Modern	0.000001	>	America
Chelonoidis	Chelonoidis lutzae	830.00	Ε	Upper Pleistocene	0.038500	⊏	America
Chelonoidis	Chelonoidis nigra	1300.00	E	Modern	0.000001	>	America
Chelonoidis	Chelonoidis becki	1050.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis nigra	595.00	٤	Modern	0.000001	>	America

Table S17 – continued from previous page

Genus	Taxon	CL	estimated	EpochBins	Age	Age Island	Con
Chelonoidis	Chelonoidis sp.	300.00	ОШ	Langhian	15.900000	_	America
Chelonoidis	Chelonoidis chilensis	450.00	Ε	Modern	0.000001	C	America
Chelonoidis	Chelonoidis darwini	965.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis nigra	731.30	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis denticulata	616.00	Ε	Upper Pleistocene	0.120000	C	America
Chelonoidis	Chelonoidis duncanensis	840.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis denticulata	820.00	Ε	Modern	0.000001	_	America
Chelonoidis	Chelonoidis abingdonii	980.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis sp.	1060.00	ec	Langhian	15.900000	С	America
Chelonoidis	Chelonoidis nigra	588.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis carbonaria	189.00	Ε	Modern	0.000001	С	America
Chelonoidis	Chelonoidis chathamensis	890.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis chilensis	222.00	Ε	Modern	0.000001	С	America
Chelonoidis	Chelonoidis carbonaria	593.00	Ε	Modern	0.000001	_	America
Chelonoidis	Chelonoidis denticulata	333.00	Ε	Modern	0.000001	С	America
Chelonoidis	Chelonoidis nigra	610.00	Ε	Modern	0.000001	>	America
Chelonoidis	Chelonoidis vicina	1250.00	E	Modern	0.000001	>	America
Chelonoidis	Chelonoidis nigra	717.00	Ε	Modern	0.000001	>	America

Table S17 – continued from previous page

Genus	Taxon	CL	CL estimated EpochBins	EpochBins	Age	Age Island Con	Con
Geochelone	Geochelone hesterna	278.00 m	Ε	Tortonian	8.500000	<b>C</b>	America
Chelonoidis	Chelonoidis denticulata	377.00 m	Ε	Modern	0.000001	⊑	America
Chelonoidis	Chelonoidis denticulata	466.00	Ε	Modern	0.000001	⊑	America
Chelonoidis	Chelonoidis carbonaria	226.00 m	Ε	Modern	0.000001 n	C	America

Genus	Taxon	CollNr	SCL	CCL	SCW	CCW	S	7	ΡW	estimated	Island	Con	Reference
Kinixys	Kinixys belliana	ZMB 37388	162.0	16.20	22.5	15.5	21.5	164.0	12.6	Е	ے	Africa	freshly measured (MFN collection)
Aldabrachelys	Aldabrachelys gigantea	ZMB 51996	770.0	77.00	106.0	52.0	112.0	ΑN	N A	Ε	>	Africa	freshly measured (MFN collection)
Astrochelys	Astrochelys yniphora	1	426.0	42.60	NA	Ą	Ν	ΑN	ΑN	Е	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Centrochelys	Centrochelys sulcata	ZMB 63203	215.0	21.50	29.5	16.5	27.0	214.0	14.8	Ε	_	Africa	freshly measured (MFN collection)
Malacochersus	Malacochersus tornieri	ZMB 63174	153.0	15.30	17.0	10.5	14.0	149.0	9.8	Ε	_	Africa	freshly measured (MFN collection)
Astrochelys	Astrochelys radiata	ı	395.0	39.50	NA	Ą	N A	ΑN	Ν Α	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Pyxis	Pyxis arachnoides	ZMB 37616	110.0	11.00	15.0	8.0	14.0	75.0	9.7	Ε	>	Africa	freshly measured (MFN collection)
Kinixys	Kinixys homeana	ZMB 17747	193.0	19.30	25.0	14.0	21.0	175.0	11.8	Ε	_	Africa	freshly measured (MFN collection)
Aldabrachelys	Aldabrachelys gigantea	ZMB 47494	870.0	87.00	116.0	57.0	110.0	ΑN	N A	Ε	>	Africa	freshly measured (MFN collection)
Psammobates	Psammobates tentorius	ZMB 28782	111.0	11.10	15.0	8.5	14.0	95.0	6.7	Е	ㅁ	Africa	freshly measured (MFN collection)
Psammobates	Psammobates oculifer	ZMB 25439	119.0	11.90	17.0	9.0	14.5	0.66	8.4	Е	ㅁ	Africa	freshly measured (MFN collection)
Psammobates	Psammobates oculifer	ZMB 37472	107.0	10.70	15.0	8.4	13.5	106.0	œ	E	_	Africa	freshly measured (MFN collection)
Astrochelys	Astrochelys yniphora	ı	307.0	30.70	NA	Ϋ́	N A	ΑN	NA	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Homopus	Homopus aerolatus	ZMB 229	88.0	8.80	10.5	6.9	9.0	78.0	6.1	E	_	Africa	freshly measured (MFN collection)
Homopus	Homopus signatus	ZMB 63173	94.0	9.40	12.5	7.7	11.0	82.0	5.6	E	_	Africa	freshly measured (MFN collection)
Kinixys	Kinixys belliana	ZMB 63191	194.0	19.40	25.5	12.5	19.0	173.0	12	E	_	Africa	freshly measured (MFN collection)
Astrochelys	Astrochelys radiata	1	285.0	28.50	NA	Ϋ́	N A	Ν	ΑN	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Kinixys	Kinixys belliana	ZMB 63192	174.0	17.40	24.5	11.5	20.5	143.0	1.1	Е	ㅁ	Africa	freshly measured (MFN collection)
Kinixys	Kinixys belliana	ZMB 63193	157.0	15.70	21.0	6.6	16.5	141.0	9.4	E	۵	Africa	freshly measured (MFN collection)
Aldabrachelys	Aldabrachelys gigantea	ZMB 37545	810.0	81.00	110.0	52.0	N A	Ν	ΑĀ	Ε	>	Africa	freshly measured (MFN collection)
Chersina	Chersina angulata	ZMB 49400	162.0	16.20	21.5	10.9	17.5	170.0	9.2	Ε	۵	Africa	freshly measured (MFN collection)
Chersina	Chersina angulata	ZMB 63181	170.0	17.00	23.0	11.4	19.0	169.0	10	Ε	۵	Africa	freshly measured (MFN collection)
Chersina	Chersina angulata	ZMB 63183	120.0	12.00	17.0	9.8	15.5	118.0	7.3	E	_	Africa	freshly measured (MFN collection)
Chersina	Chersina angulata	ZMB 63182	136.0	13.60	18.0	6.6	16.0	138.0	œ	Е	ㅁ	Africa	freshly measured (MFN collection)
Kinixys	Kinixys erosa	ZMB 63190	164.0	16.40	21.0	11.2	16.5	163.0	10.6	E	_	Africa	freshly measured (MFN collection)
Centrochelys	Centrochelys sulcata	ZMB 37387	435.0	43.50	54.0	29.9	53.0	405.0	29.1	Ε	c	Africa	freshly measured (MFN collection)

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Genus	Taxon	CollNr	SCL	CCL	SCW	CCW	СН	PL	ΡW	estimated	Island	Con	Reference
Indotestudo	Indotestudo travancorica	ZMB 37717	224.0	22.40	28.0	15.2	23.0	200.0	15.4	Ε	_	Africa	freshly measured (MFN collection)
Stigmochelys	Stigmochelys pardalis	ZMB 37344	405.0	40.50	55.0	27.0	50.5	350.0	24.3	Ε	L	Africa	freshly measured (MFN collection)
Stigmochelys	Stigmochelys pardalis	ZMB 63235	315.0	31.50	43.5	23.4	39.0	298.0	22.1	Ε	L	Africa	freshly measured (MFN collection)
Stigmochelys	Stigmochelys pardalis	ZMB 37495	297.0	29.70	41.5	21.4	36.0	271.0	19.2	Ε	L	Africa	freshly measured (MFN collection)
Stigmochelys	Stigmochelys pardalis	ZMB 42400	345.0	34.50	46.5	24.0	40.0	285.0	21.3	Ε	u	Africa	freshly measured (MFN collection)
Stigmochelys	Stigmochelys pardalis	ZMB 63232	350.0	35.00	46.0	23.9	45.0	303.0	21.1	Ε	u	Africa	freshly measured (MFN collection)
Psammobates	Psammobates geometricus	ZMB 192	92.0	9.20	13.5	7.1	13.0	0.89	6.3	Ε	u	Africa	freshly measured (MFN collection)
Chersina	Chersina angulata	1	181.9	18.19	Ν	Ϋ́	NA	NA	ΑĀ	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Aldabrachelys	Aldabrachelys gigantea	ZMB 47443	800.0	80.00	105.0	51.5	105.0	NA	NA	Ε	>	Africa	freshly measured (MFN collection)
Astrochelys	Astrochelys yniphora	1	415.0	41.50	Ν	Ϋ́	NA	NA	A A	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Astrochelys	Astrochelys yniphora	ı	370.0	37.00	Ν	Α̈́	N	N	Ą	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Aldabrachelys	Aldabrachelys gigantea	ZMB 51995	1030.0	103.00	138.0	Α̈́	N	N	Ą	Ε	>	Africa	freshly measured (MFN collection)
Aldabrachelys	Aldabrachelys gigantea	ZMB ???	720.0	72.00	105.5	25.0	117.0	N	Α̈́	E	>	Africa	freshly measured (MFN collection)
Cylindraspis	Cylindraspis triserrata	ı	1100.0	110.00	Ν A	N A	N	N	Α̈́	E	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Cylindraspis	Cylindraspis vosmaeri	ı	500.0	20.00	N	N A	N A	N	¥ V	E	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Astrochelys	Astrochelys radiata	ı	334.0	33.40	N	N A	N A	N	¥ V	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Astrochelys	Astrochelys radiata	ı	305.0	30.50	Ν V	N A	N	N	Α̈́	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Centrochelys	Centrochelys sulcata	ı	830.0	83.00	Ν	Α̈́	N	N	Α̈́	Ε	L	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Psammobates	Psammobates geometricus	ZMB 186	105.0	10.50	13.5	7.4	13.0	0.06	6.9	Ε	L	Africa	freshly measured (MFN collection)
Astrochelys	Astrochelys radiata	1	242.0	24.20	Ν A	N N	Ϋ́	Ν Α	ΑĀ	Ε	^	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Psammobates	Psammobates tentorius	ZMB 37627	116.0	11.60	15.0	9.4	14.5	117.0	8.9	Ε	^	Africa	freshly measured (MFN collection)
Psammobates	Psammobates tentorius	ZMB 50571	95.0	9.50	12.0	7.3	12.0	79.0	7	E	۵	Africa	freshly measured (MFN collection)
Psammobates	Psammobates tentorius	ZMB 14766	81.0	8.10	10.5	8.9	10.0	0.79	5.9	E	L	Africa	freshly measured (MFN collection)
Pyxis	Pyxis planicauda	ı	114.0	11.40	Ν	Ϋ́	N	NA	Ą	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Pyxis	Pyxis planicauda	ı	134.0	13.40	Ν	Ϋ́	N	NA	Ą	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Pyxis	Pyxis planicauda	ı	120.0	12.00	Ϋ́	Ϋ́	N	NA	A	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Psammobates	Psammobates oculifer	ZMB 16399	111.0	11.10	16.0	8.8	14.0	108.0	7.9	Ε	L	Africa	freshly measured (MFN collection)

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Genus	Taxon	CollNr	SCL	CCL	SCW	CCW	동	긥	PW	estimated	Island	Con	Reference
Psammobates	Psammobates oculifer	ZMB 14772	101.0	10.10	15.0	8.0	14.0	98.0	7.3	E		Africa	freshly measured (MFN collection)
Psammobates	Psammobates oculifer	ZMB 24261	103.0	10.30	14.0	8.2	13.5	100.0	7.8	E	<b>_</b>	Africa	freshly measured (MFN collection)
Psammobates	Psammobates oculifer	ZMB 37623	105.0	10.50	14.5	7.9	13.5	93.0	7.4	Ε	_	Africa	freshly measured (MFN collection)
Kinixys	Kinixys belliana	ZMB 37489	180.0	18.00	24.0	12.0	20.5	176.0	11.8	Ε	_	Africa	freshly measured (MFN collection)
Pyxis	Pyxis planicauda	1	160.0	16.00	Ν	Ϋ́	NA	ΑN	ΑĀ	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Psammobates	Psammobates geometricus	ZMB 50568	107.0	10.70	15.0	7.9	14.5	79.0	7.3	Ε	_	Africa	freshly measured (MFN collection)
Aldabrachelys	Aldabrachelys gigantea	1	875.0	87.50	Ν	Ϋ́	N A	ΑN	ΑĀ	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Aldabrachelys	Aldabrachelys gigantea	1	1190.0	119.00	Ν	Ϋ́	N A	ΑN	ΑĀ	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata	1	202.0	20.20	Ν	Ϋ́	NA	ΑN	Ą	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata	1	351.0	35.10	Ϋ́	Ϋ́	N A	ΑN	ΑŽ	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Astrochelys	Astrochelys yniphora	1	446.0	44.60	Ϋ́	Ą	N A	ΑN	A	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata	ZMB 37393	160.0	16.00	20.0	10.0	17.5	158.0	9.5	Ε	_	Africa	freshly measured (MFN collection)
Kinixys	Kinixys erosa	ZMB 50198	271.0	27.10	31.5	18.5	26.0	231.0	15.9	Ε	<b>_</b>	Africa	freshly measured (MFN collection)
Chersina	Chersina angulata	ZMB 37392	181.0	18.10	22.5	11.6	19.0	177.0	9.7	Ε	_	Africa	freshly measured (MFN collection)
Psammobates	Psammobates oculifer	1	147.0	14.70	Ν	Ä	N A	Ν	A	Ε	c	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Psammobates	Psammobates tentorius	1	145.0	14.50	Ν	Ä	N A	Ν	A	Ε	c	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Pyxis	Pyxis arachnoides	1	150.0	15.00	Ϋ́	Ä	N A	ΑN	¥ Y	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Psammobates	Psammobates geometricus	ZMB 185	118.0	11.80	18.0	9.1	16.5	112.0	8.2	Ε	_	Africa	freshly measured (MFN collection)
Stigmochelys	Stigmochelys pardalis	1	720.0	72.00	Ν	Ä	N A	ΑN	A A	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata	1	179.3	17.93	Ν	Ä	NA	Ν	Ā	Ε	c	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Astrochelys	Astrochelys radiata	1	355.0	35.50	Ϋ́	Ä	N A	ΑN	A	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Pyxis	Pyxis planicauda	1	126.0	12.60	Ν	Ä	N A	Ν	A	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Testudo	Testudo kleinmanni	1	144.0	14.40	Ν	Ä	N A	Ν	A	Ε	c	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Cylindraspis	Cylindraspis indica	1	0.009	00.09	Ν	Ä	N A	Ν	Ā	E	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Astrochelys	Astrochelys yniphora	1	361.0	36.10	Ν	Ä	N A	Ν	Ā	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Astrochelys	Astrochelys yniphora	1	486.0	48.60	Ν	Ä	N A	Ν	Ā	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Pyxis	Pyxis planicauda	•	148.0	14.80	Ϋ́	Ϋ́	N A	Ϋ́	ΑĀ	Ε	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the

Table S18 – continued from previous page

Genus	Taxon	CollNr	SCL	CCL	SCW	CCW	끙	Ч	ΡW	estimated	Island	Con	Reference
Pyxis	Pyxis arachnoides		111.0	11.10	NA	AA	NA	NA	ΑŽ	ш	×	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Pyxis	Pyxis arachnoides	1	110.0	11.00	Ϋ́	Ϋ́	N	Ν	Ą	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Pyxis	Pyxis arachnoides	1	80.0	8.00	Ϋ́	Ϋ́	NA	Ν	ΑĀ	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Kinixys	Kinixys lobatsiana	1	200.0	20.00	Ϋ́	¥	N	Ν	ΑĀ	E	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Pyxis	Pyxis arachnoides	1	86.0	8.60	Ϋ́	¥	N	Ν	ΑĀ	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Pyxis	Pyxis arachnoides	1	154.0	15.40	Ϋ́	Ϋ́	NA	Ν	ΑĀ	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Kinixys	Kinixys homeana	1	223.0	22.30	Ϋ́	Ϋ́	NA	Ν	ΑĀ	E	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Homopus	Homopus femoralis	1	168.0	16.80	Ϋ́	Ϋ́	NA	Ν	ΑĀ	E	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Pyxis	Pyxis planicauda	1	132.0	13.20	Ϋ́	Ϋ́	NA	Ν	ΑĀ	E	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Homopus	Homopus aerolatus	ı	300.0	30.00	Ϋ́	Α̈́	N A	ΑN	Α A	E	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Homopus	Homopus boulengeri	ı	110.0	11.00	Ϋ́	¥	N A	ΑN	ΑĀ	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Kinixys	Kinixys erosa	ı	400.0	40.00	Ϋ́	¥	N A	ΑN	ΑĀ	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata	ZMB 37479	148.0	14.80	20.0	10.1	17.0	142.0	9.5	Ε	_	Africa	freshly measured (MFN collection)
Psammobates	Psammobates geometricus	ı	165.0	16.50	Ϋ́	Α̈́	N A	ΑN	ΑĀ	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Homopus	Homopus solus	ı	109.0	10.90	Ν	Ä	N A	ΑN	A A	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Malacochersus	Malacochersus tornieri	ı	180.0	18.00	Ν	Ä	N A	ΑN	A A	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata	ı	153.5	15.35	Ν	Ä	N A	ΑN	A A	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Pyxis	Pyxis arachnoides	ı	144.0	14.40	Ν	Ą	N A	ΑN	Α A	٤	>	Africa	Pedrono, M., & Smith, L. L. (2013). Overview of the
Kinixys	Kinixys belliana	ı	230.0	23.00	Ν	¥ Y	N A	Α	Α̈́	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Aldabrachelys	Aldabrachelys gigantea	ı	1140.0	114.00	Ν	Α̈́	N A	ΑN	Α̈́	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Astrochelys	Astrochelys radiata	1	400.0	40.00	Ν	Α̈́	N A	Ν	Ą	٤	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata		166.4	16.64	Ν	Α̈́	N A	Ν	A A	٤	<b>_</b>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata	1	171.6	17.16	Ν	Ą	N A	ΑN	A A	٤	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Cylindraspis	Cylindraspis peltastes	ı	420.0	42.00	Ν	Ą	N A	ΑN	Α A	٤	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chersina	Chersina angulata	ı	161.3	16.13	Ϋ́	Ϋ́	N A	ΑN	ΑĀ	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Homopus	Homopus signatus	ı	106.0	10.60	Ϋ́	Α̈́	N A	ΑN	ΑŽ	E	⊑ □	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Kinixys	Kinixys spekii		220.0	22.00	Ν	Ϋ́	Y Y	A	A A	Ε	_	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,

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Genus	Taxon	CollNr	SCL	CCL	SCW	CCW	СН	PL	ΡW	estimated	Island	Con	Reference
Cylindraspis	Cylindraspis inepta	•	1000.0	100.00	Ν Α	Ϋ́	A A	N A	Ą	Ε	>	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Kinixys	Kinixys natalensis	ı	160.0	16.00	Ν Α	NA	ΑΝ	NA	Ą	E	۵	Africa	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Geochelone	Geochelone elegans	ZMB 63222	208.0	20.80	29.5	14.6	28.5	199.0	13.3	E	п	Asia	freshly measured (MFN collection)
Geochelone	Geochelone elegans	ZMB 37523	245.0	24.50	32.0	16.6	32.0	228.0	14.6	E	п	Asia	freshly measured (MFN collection)
Geochelone	Geochelone elegans	ZMB 63220	221.0	22.10	32.0	16.0	31.0	179.0	13.5	E	п	Asia	freshly measured (MFN collection)
Geochelone	Geochelone elegans	ZMB 63221	220.0	22.00	31.0	15.4	27.0	209.0	4	Ε	>	Asia	freshly measured (MFN collection)
Geochelone	Geochelone elegans	ZMB 63218	221.0	22.10	31.5	15.1	30.0	203.0	13.7	E	п	Asia	freshly measured (MFN collection)
Geochelone	Geochelone platynota	ZMB 6096	222.0	22.20	29.5	15.1	27.0	NA	MA	E	п	Asia	freshly measured (MFN collection)
Manouria	Manouria emys	1	0.009	00.09	Ν Α	N	¥.	NA	Α̈́	E	п	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo forstenii	1	202.0	20.20	Ν Α	N	¥.	NA	Α̈́	E	>	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo travancorica	ı	249.7	24.97	Ν Α	Ä	A A	N A	Α̈́	Ε	ч	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo forstenii	ı	309.0	30.90	Ν Α	Ä	A A	N A	Α̈́	Ε	>	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo elongata	ı	360.0	36.00	Ν	Ä	A A	N A	Α̈́	Ε	С	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo forstenii	ı	199.0	19.90	Ν Α	N	ΑΝ	NA	Α̈́	E	>	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo elongata	1	244.2	24.42	Ν Α	N	A A	NA	Α̈́	E	С	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo travancorica	1	244.2	24.42	Ν	Ä	¥ N	N A	Ą	E	С	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Manouria	Manouria impressa	ZMB 63172	165.0	16.50	20.0	12.9	18.0	157.0	10.5	E	۵	Asia	freshly measured (MFN collection)
Indotestudo	Indotestudo elongata	ZMB 50492	276.0	27.60	33.0	19.4	28.5	246.0	17.1	Ε	С	Asia	freshly measured (MFN collection)
Indotestudo	Indotestudo elongata	ZMB 63175	235.0	23.50	30.5	16.0	29.5	202.0	14.4	Ε	ч	Asia	freshly measured (MFN collection)
Indotestudo	Indotestudo elongata	ZMB 4174	208.0	20.80	26.0	13.4	20.0	180.0	11.6	Ε	С	Asia	freshly measured (MFN collection)
Indotestudo	Indotestudo elongata	ZMB 6106	166.0	16.60	21.0	11.3	18.0	151.0	11.3	Ε	С	Asia	freshly measured (MFN collection)
Manouria	Manouria emys	1	0.009	00.09	N	Ϋ́	A A	N A	¥.	٤	_	Asia	Karl, H., & Staesche, U. (2007). Fossile Riesen-Lar
Testudo	Testudo graeca	ı	250.0	25.00	Ν	N A	A A	N A	Ą	E	۵	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo graeca	ı	280.0	28.00	Ν Α	Ä	A A	N A	Α̈́	Ε	>	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Manouria	Manouria emys	ZMB 49049	212.0	21.20	26.5	16.5	25.0	NA	Ą	E	п	Asia	freshly measured (MFN collection)
Manouria	Manouria emys	ZMB 37350	445.0	44.50	52.0	32.0	20.0	455.0	29.8	E	ч	Asia	freshly measured (MFN collection)
Manouria	Manouria emys	ZMB 37342	330.0	33.00	40.5	26.7	37.0	330.0	23.4	Ε	п	Asia	freshly measured (MFN collection)

Table S18 – continued from previous page

Genus	Taxon	CollNr	SCL	CCL	SCW	CCW	СН	PL	PW	estimated	Island	Con	Reference
Indotestudo	Indotestudo travancorica	ı	331.0	33.10	ΑN	Ą	A A	ΝΑ	Α̈́	Ε	۵	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo travancorica	1	219.6	21.96	NA	A	Ą	NA	ΑĀ	E	_	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Indotestudo	Indotestudo forstenii	1	200.5	20.05	NA	NA	Ą	N	ΑĀ	E	>	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo horsfieldii	1	280.0	28.00	NA	N	Ϋ́	N	ΑĀ	E	_	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Manouria	Manouria impressa	1	350.0	35.00	NA	N	Ą	N	ΑĀ	E	_	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Geochelone	Geochelone elegans	1	380.0	38.00	NA	N	Ą	NA	ΑĀ	E	_	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Manouria	Manouria impressa	1	275.0	27.50	NA	N	Ą	Ν	ΑĀ	E	_	Asia	Karl, H., & Staesche, U. (2007). Fossile Riesen-Lar
Indotestudo	Indotestudo elongata	1	219.6	21.96	NA	N	Ą	NA	ΑĀ	E	_	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Geochelone	Geochelone platynota	1	300.0	30.00	NA	NA	Ą	N	ΑĀ	E	_	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo graeca	1	300.0	30.00	NA	NA	Ą	N	ΑĀ	E	_	Asia	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus flavomarginatus	1	400.0	40.00	NA	N	Ϋ́	N	ΑĀ	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus morafkai	1	299.0	29.90	N	A	Ą	Ν	Ą	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus berlandieri	1	240.0	24.00	NA	Ϋ́	A A	N A	ΑĀ	Ε	c	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo horsfieldii	ZMB 63259	111.0	11.10	14.0	10.0	15.0	108.0	9.5	E	_	Europe	freshly measured (MFN collection)
Pyxis	Pyxis arachnoides	ZMB 37615	108.0	10.80	15.0	7.9	13.0	0.96	7.1	E	_	Europe	freshly measured (MFN collection)
Testudo	Testudo marginata	1	241.7	24.17	N	Ϋ́	A A	ΑΝ	Α A	Ε	c	Europe	Willemsen, R. E., & Hailey, A. (2003). Sexual dimor
Testudo	Testudo horsfieldii	ZMB 63258	123.0	12.30	14.5	10.9	15.0	121.0	9.8	Ε	_	Europe	freshly measured (MFN collection)
Testudo	Testudo hermanni	1	183.3	18.33	N	¥	¥ A	N A	Α̈́	Ε	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	1	176.9	17.69	N	¥	¥ A	N A	Α̈́	Ε	_	Europe	Willemsen, R. E., & Hailey, A. (2003). Sexual dimor
Testudo	Testudo horsfieldii	ZMB 63257	114.0	11.40	14.5	10.2	14.0	110.0	6.6	Ε	c	Europe	freshly measured (MFN collection)
Testudo	Testudo marginata	1	246.7	24.67	N A	Ϋ́	A A	Α	A A	٤	c	Europe	Willemsen, R. E., & Hailey, A. (2003). Sexual dimor
Testudo	Testudo hermanni	1	196.0	19.60	N	Ϋ́	A A	ΑΝ	Α A	Ε	c	Europe	Willemsen, R. E., & Hailey, A. (2003). Sexual dimor
Testudo	Testudo hermanni	1	143.5	14.35	N	Ϋ́	A A	ΑΝ	Α A	Ε	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo graeca	1	194.6	19.46	N	¥	A A	Α	A A	٤	_	Europe	Willemsen, R. E., & Hailey, A. (2003). Sexual dimor
Testudo	Testudo hermanni	1	200.0	20.00	NA	Ä	Ą	Ν	ΑĀ	Ε	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	1	250.0	25.00	NA	Ä	Ą	Ν	ΑĀ	Ε	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo marginata	ī	246.0	24.60	Ϋ́	Ϋ́	Ϋ́	Ϋ́	Ϋ́	Ε	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,

Table S18 – continued from previous page

Genus	Taxon	CollNr	SCL	CCL	SCW	CCW	CH	Ъ	PW	estimated	Island	Con	Reference
Testudo	Testudo marginata	•	242.5	24.25	NA	NA	NA	NA	N A	E	λ	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo marginata	ı	246.0	24.60	NA	NA	N A	Ν	Ą	Ε	Ц	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	ı	147.0	14.70	N	N A	N A	Ν	Α̈́	Ε	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo marginata	ı	290.0	29.00	N	Ϋ́	N A	Ν	Ą	E	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo marginata	1	250.0	25.00	N	N A	N A	Ν	¥	Ε	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	ı	145.9	14.59	NA	N	N A	Ν	Α̈́	Ε	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo graeca	ı	178.2	17.82	NA	N	N A	Ν	Α̈́	Ε	_	Europe	Willemsen, R. E., & Hailey, A. (2003). Sexual dimor
Testudo	Testudo marginata	ı	400.0	40.00	NA	N	N A	Ν	Α̈́	Ε	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo horsfieldii	ZMB 63255	136.0	13.60	18.0	13.0	16.5	129.0	12.2	Ε	С	Europe	freshly measured (MFN collection)
Testudo	Testudo horsfieldii	ZMB 63256	132.0	13.20	17.0	12.4	17.0	133.0	11.3	Ε	С	Europe	freshly measured (MFN collection)
Testudo	Testudo hermanni	ı	168.3	16.83	N	Ϋ́	N A	Ν	¥	Ε	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	1	160.0	16.00	N	N A	N A	Ν	¥	Ε	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	ı	154.0	15.40	N	N A	N A	Ν	¥	Ε	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	1	138.5	13.85	N	Ϋ́	N A	Α	Ā	E	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	1	173.0	17.30	N	Α	Ν	Α	Ā	E	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo marginata	1	242.5	24.25	N	Α	Ν	Α	Ā	E	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	1	195.0	19.50	N	Α	Ν	Α	Ā	E	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	ı	157.0	15.70	N	Ϋ́	N A	Ν	Α̈́	E	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	ı	176.6	17.66	N	Ϋ́	N A	Ν	Α̈́	E	>	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	ı	130.0	13.00	N	N A	N A	Ν	¥	Ε	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Testudo	Testudo hermanni	ı	161.0	16.10	N	Ϋ́	N A	Ν	Α̈́	Ε	_	Europe	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus polyphemus	1	300.0	30.00	N	Ϋ́	N A	Ν	Α̈́	Ε	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus sp.	MVZ 210020	N	N A	N	Ϋ́	N A	219.6	Α̈́	Ε	_	America	Biewer J., Sankey J., Hutchison H., Garber D., 2016
Gopherus	Gopherus sp.	MVZ 210003	Ν	N A	N	Ϋ́	N A	192.1	Α̈́	E	_	America	Biewer J., Sankey J., Hutchison H., Garber D., 2016
Gopherus	Gopherus polyphemus	1	268.8	26.88	N	N A	N A	Ν	¥	Ε	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus sp.	MVZ 120004	Ν	N	N	N A	N A	196.7	¥	Ε	L	America	Biewer J., Sankey J., Hutchison H., Garber D., 2016
Gopherus	Gopherus sp.	MVZ 210009	NA	N	NA	N A	NA	232.8	¥	Ε	u	America	Biewer J., Sankey J., Hutchison H., Garber D., 2016

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Genus	Taxon	CollNr	SCL	CCL	SCW	CCW	СН	PL	ΡW	estimated	Island	Con	Reference
Gopherus	Gopherus sp.	MVZ 210010	N A	Ν	A A	A A	Ϋ́	240.1	A A	Ε	۵	America	Biewer J., Sankey J., Hutchison H., Garber D., 2016
Gopherus	Gopherus agassizii	1	400.0	40.00	NA	N A	A	NA	N A	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus flavomarginatus	KU 39415	303.0	30.30	NA	23.2	A	NA	N A	E	_	America	Legler, 1959
Gopherus	Gopherus polyphemus	ı	308.0	30.80	N	N A	Ą	N A	Ą	Ε	c	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus polyphemus	1	303.0	30.30	NA	ΑN	A	NA	N A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus polyphemus	1	387.0	38.70	NA	Ϋ́	A	NA	N A	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus polyphemus	1	342.0	34.20	NA	Ϋ́	A	NA	N A	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus flavomarginatus	USNM 61253	222.0	22.20	NA	16.6	A	212.0	N A	E	_	America	Legler, 1959
Gopherus	Gopherus flavomarginatus	USNM 61254	371.0	37.10	NA	29.2	A	358.0	N A	E	_	America	Legler, 1959
Gopherus	Gopherus polyphemus	1	238.9	23.89	NA	N A	A	NA	N A	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Gopherus	Gopherus flavomarginatus	92609 WNSN	246.0	24.60	NA	21.2	A	252.0	Ą	Ε	_	America	Legler, 1959
Gopherus	Gopherus flavomarginatus	IU 42953	281.0	28.10	NA	22.0	A	NA	Ą	Ε	_	America	Legler, 1959
Gopherus	Gopherus flavomarginatus	IU 42954	278.0	27.80	NA	21.4	Ä	NA	A A	Ε	c	America	Legler, 1959
Chelonoidis	Chelonoidis nigra	USNM 51069	588.0	58.80	68.3	44.5	A	906.0	A A	Ε	>	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis nigra	USNM1 102904	610.0	61.00	67.5	44.4	Ä	515.0	N A	Ε	>	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis carbonaria	ı	593.0	59.30	NA	N A	Ä	N A	N A	Ε	c	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis abingdonii	1	0.086	98.00	NA	N A	A	NA	N A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis denticulata	ı	333.4	33.34	NA	N A	A	NA	Ą	Ε	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis chilensis	UF33604	169.0	16.90	21.5	13.2	A	161.0	A A	E	_	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis chilensis	UF33618	186.0	18.60	25.0	14.7	A	169.0	N A	E	_	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis nigra	ı	717.0	71.70	NA	¥	A	NA	A A	Ε	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis chilensis	UF33617	169.0	16.90	22.8	14.6	Ä	162.0	N A	Ε	c	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis carbonaria	UF27384	242.0	24.20	31.7	15.5	A	219.0	N A	E	_	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis carbonaria	UF33597	253.0	25.30	31.7	15.3	A	215.0	A A	E	_	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis nigra	USNM1 222494	595.0	59.50	0.89	43.6	A	533.0	A A	E	>	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis carbonaria	ı	333.4	33.34	NA	¥	A	NA	A A	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis carbonaria	UF5259	226.0	22.60	28.7	12.9	N A	198.0	Α	٤	_	America	Franz, R., & Franz, S. E. (2009). A new fossil land t

Table S18 – continued from previous page

Chelonoidis Chelonoidis Chelonoidis	:												
Chelonoidis Chelonoidis Chelonoidis	Chelonoidis becki	ı	1050.0	105.00	Ν	N A	Ϋ́	ΝΑ	N A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis denticulata	UF33661	333.0	33.30	38.0	21.4	ΑΝ	305.0	A	E	L	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis denticulata	UF61931	317.0	31.70	41.2	18.5	NA AN	291.0	N A	E	L	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
	Chelonoidis denticulata	UF33670	365.0	36.50	47.0	22.0	ΨV	326.0	A	E	L	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis chilensis	UF33603	183.0	18.30	23.4	14.5	ν Α	166.0	A	E	L	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis nigra	ı	731.3	73.13	Ϋ́	NA	ΑŽ	NA	A A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis chilensis	ı	200.0	20.00	Ν	NA	Ϋ́	NA	A	E	L	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis carbonaria	UF48278	247.0	24.70	33.9	15.5	N A	214.0	A	E	L	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis carbonaria	ı	296.5	29.65	Ν	NA	Ϋ́	NA	A	E	L	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis carbonaria	ı	290.0	29.00	Ν	NA	ΑN	NA	A	Ш	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis carbonaria	UF33596	189.0	18.90	24.7	12.1	A A	174.0	A	E	_	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis nigra	ı	745.7	74.57	Ϋ́	NA	Ϋ́	NA	A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis chathamensis	ı	0.068	89.00	Ϋ́	NA	ΑŽ	NA	A A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis denticulata	UF19242	466.0	46.60	29.7	26.5	NA V	410.0	Ā	E	c	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis denticulata	UF23231	377.0	37.70	47.1	23.8	N A	334.0	Ā	E	<b>-</b>	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis denticulata	ı	820.0	82.00	Ν	NA	ΑĀ	NA	N A	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis duncanensis	ı	840.0	84.00	Ν	NA	Ϋ́	NA	A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis chilensis	ı	222.0	22.20	Ϋ́	NA	Ϋ́	NA	A	E	_	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis chilensis	UF33600	157.0	15.70	20.8	11.9	A A	145.0	ΑĀ	E	_	America	Franz, R., & Franz, S. E. (2009). A new fossil land t
Chelonoidis	Chelonoidis phantastica	1	860.0	86.00	Ν	NA	ΑĀ	N A	N A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis vicina	1	1250.0	125.00	NA	NA	N A	Ν	Ą	E	×	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis hoodensis	1	813.0	81.30	Ν	NA	N A	N A	Ā	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis nigra	1	1300.0	130.00	Ν	NA	N A	N A	Ā	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis darwini	1	965.0	96.50	Ϋ́	NA	Ϋ́	NA	A	E	>	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,
Chelonoidis	Chelonoidis chilensis	ı	450.0	45.00	Ν	NA	Ϋ́	NA	A	E	L	America	Itescu, Y., Karraker, N. E., Raia, P., Pritchard, P. C.,

Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Kabyle 2 km N, Yambol Region	Bulgaria	42.54720	26.48430	0.0020	Testudo	Testudo sp.	Linnaeus, 1758
El Harhoura 2 (Temara)	Morocco	33.95220	-6.92590	0.0050	Testudo	Testudo graeca	Linnaeus, 1758
El Harhoura 2 (Temara)	Morocco	33.95220	-6.92590	0.0050	Testudo	Testudo sp.	Linnaeus, 1758
Guenfouda Cave (Ghar Zebouj, ??????), Jerada Province	Morocco	34.43300	-2.00000	0.0060	Testudo	Testudo sp.	Linnaeus, 1758
Zebbug and Gahr Dalam Cave deposits	Malta	35.88970	14.44250	0.0660	Testudo	Testudo graeca	Linnaeus, 1758
Rancho La Brea, California	USA	34.05220	-118.24300	0.0240	Gopherus	Gopherus ? sp.	Rafinesque, 1832
Blackwater Loc. No. 1, Roosevelt County, New Mexico	NSA	34.00000	-103.50000	0.0110	Hesperotstudo	Hesperotestudo cf. wilsoni	(Milstead, 1956)
Pendejo Cave, Rough Canyon on Fort Bliss land, 21 km east of Orogrande, Otero County, New Mexico	USA	32.41670	-105.91670	0.0350	Gopherus	Gopherus agassizi	(Cooper, 1861)
Robledo Cave, west side of the Robledo Mountains, Doña Ana County, New Mexico	NSA	33.00000	-106.50000	0.0110	Gopherus	Gopherus agassizi	(Cooper, 1861)
Schulze Cave Fauna, Edwards County, Texas	USA	30.30000	-99.90000	0.0150	Hesperotestudo	Hesperotestudo cf. wilsoni	(Milstead, 1956)
Arredondo IIA, Alachua County, Florida	USA	29.60000	-82.40000	0.0690	Hesperotestudo	Hesperotestudo incisa	(Hay, 1916)
Orange Lake 2 miles south, Marion County, Florida	USA	29.40000	-82.20000	0.0690	Geochelone	Geochelone sp.	Fitzinger, 1835
Pecos River near Melena and Acme, 10-15 km NE Roswell, Chaves County, New Mexico	NSA	33.47000	-104.53000	0.1560	Gopherus	Gopherus agassizi	(Cooper, 1861)
Reddick IA+B, Marion County, Florida	NSA	29.10000	-82.30000	0.0690	Gopherus	Gopherus polyphemus	(Daudin, 1803)
Reddick IA+B, Marion County, Florida	USA	29.10000	-82.30000	0.0690	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)
Friesenhahn Cave, Bexar County, Texas	USA	29.00000	-98.00000	0.0180	Hesperotestudo	Hesperotestudo wilsoni	(Milstead, 1956)
Clear Creek Local Fauna, Denton County, Texas	USA	33.20000	-97.10000	0.0280	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Ingleside Local Fauna, San Patricio County, Texas	USA	27.00000	-96.00000	0.0600	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Kénitra, Guilloux quarry, near Rabat	Morocco	34.30000	-6.60000	0.4535	Testudo	Testudo kenitrensis	Gmira, 1993
Cova de Gràcia, Park Güell, Barcelona	Spain	41.41360	2.15280	0.4535	Testudo	Testudo lunellensis	Almera &Bofill, 1903
Rock-Cavities, Gibraltar Peninsula	England	36.12030	-5.34190	0.9650	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Caverna de Gràcia, Güell park, Barcelona	Spain	41.40000	2.15000	0.4500	Testudo	Testudo lunellensis	Almera &Bofill, 1903
Cragin Quarry Local Fauna, Meade County, Kansas	USA	37.22420	-100.41760	0.3000	Hesperotestudo	Hesperotestudo equicomes	(Hay, 1917)
Saint-Estève-Janson, l'Escale Cave (Bouches du Rhône)	France	43.68330	5.38330	0.6000	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Soave, Zoppega 2 cave, Verona	Italy	45.42000	11.25000	0.7400	Eurotestudo	Eurotestudo aff. hermanni	(Gmelin, 1789)
Leisey Shell Pit 1A, Hillsborough County, Florida	USA	27.70000	-82.50000	1.2500	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)
Leisey Shell Pit 1A, Hillsborough County, Florida	USA	27.70000	-82.50000	1.2500	Hesperotestudo	Hesperotestudo mlynarskii	(Auffenberg, 1998)
Leisey Shell Pit 2, Hillsborough County, Florida	USA	27.70000	-82.50000	1.2500	Hesperotestudo	Hesperotestudo mlynarskii	(Auffenberg, 1998)
Sima del Elefante TE14, Sierra de Atapuerca, Burgos	Spain	42.33000	-3.51000	1.2200	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Monte Tuttavista VII mustelide, Sardinia	Italy	40.38330	9.70000	2.0000	Eurotestudo	Eurotestudo cf. hermanni	(Gmelin, 1789)
Dmanisi	Georgia	41.32000	44.35000	1.7700	Testudo	Testudo graeca	Linnaeus, 1758
White Rock local fauna, Republic County, Kansas	USA	39.90000	-97.70000	2.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
Capo Mannu near San Vero Milis, base of D4 dune, Sardinia	Italy	40.04090	8.38450	2.1970	Testudo	Testudo pecorinii	Delfino, 2008 (p.123-126, figs.5-6)
Lesbos Island, F-Site	Greece	39.50000	26.50000	2.0000	Titanochelon	Titanochelon aff. schafferi	(Szalai, 1931)
Ahl al Oughlam (near Casablanca)	Morocco	33.59310	-7.61640	2.5000	Testudo	Testudo aff. kenitrensis	Gmira, 1993
Ahi al Oughlam (near Casablanca)	Morocco	33.59310	-7.61640	2.5000	Testudo	Testudo sp.	Linnaeus, 1758

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Cova de Ca Na Reia, Eivissa, Ibiza	Spain	38.90910	1.42670	2.6000	Titanochelon	Titanochelon cf. gymneisucs	(Bate, 1914)
Sabertooth Cave, Lecanto 2A, Citrus County, Florida	NSA	28.80000	-82.20000	0.0690	Gopherus	Gopherus polyphemus	(Daudin, 1803)
Stazione Ferroviaria, Comiso (RG), Sicily	Italy	36.93330	14.60000	0.4130	gen.	gen. Indet.	Gray, 1825
Contrada Annunziata, Ragusa (RG), Sicily	Italy	36.91670	14.73330	0.4135	Testudo	Testudo sp.	Linnaeus, 1758
Contrada Castellazzo, Vittoria (RG), Sicily	Italy	36.95000	14.53330	0.4135	gen.	gen. Indet.	Gray, 1825
Qesem Cave ~12 km east of Tel Aviv, western slopes Samaria hills	Israel	32.11000	34.98000	0.3100	Testudo	Testudo graeca	Linnaeus, 1758
Caverna de Gràcia, Güell park, Barcelona	Spain	41.40000	2.15000	0.4500	Eurotestudo	Eurotestudo globosa	(Portis, 1890)
Caverna de Gràcia, Güell park, Barcelona	Spain	41.40000	2.15000	0.4500	Eurotestudo	Eurotestudo pyrenaica	(Depéret & Connezan, 1890)
Sima del Elefante TE18+TE19, Sierra de Atapuerca, Burgos	Spain	42.33000	-3.51000	0.2500	Testudo	Testudo sp.	Linnaeus, 1758
Sima del Elefante TE11, Sierra de Atapuerca, Burgos	Spain	42.33000	-3.51000	1.2200	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Sima del Elefante TE12, Sierra de Atapuerca, Burgos	Spain	42.33000	-3.51000	1.2200	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Sima del Elefante TE13, Sierra de Atapuerca, Burgos	Spain	42.33000	-3.51000	1.2200	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Sima del Elefante TE9, Sierra de Atapuerca, Burgos	Spain	42.33000	-3.51000	1.2200	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Pirro Nord (Cava dell'Erba, Cava Pirro); Apricena, Apulia Italy	Italy	41.80190	15.38470	1.5000	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Ahl al Oughlam (near Casablanca)	Morocco	33.59310	-7.61640	2.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Lewisville Site, Denton County, Texas	NSA	33.00000	-97.00000	0.0280	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Libertador San Martín north bank Ensenada stream, 15 km E Diamante, Entre Rios Province	Argentina	-32.08760	-60.48630	0.1200	Chelonoidis	Chelonoidis denticulata	Linnaeus 1766 (p. 325)
Šandalja near Pula	Croatia	44.86830	13.84800	0.0685	Testudo	Testudo graeca	Boulenger, 1891
Valle de Fontechevade, Charente	France	45.68070	0.48000	0.8250	Testudo	Testudo graeca	Linnaeus, 1758
Bate Cave, Rethymnon	Greece	35.36470	24.47140	0.0685	Testudo	Testudo marginata	Schoepff, 1792
Süttö Upper Pleistocene strata, Gerecse Mountains	Hungary	47.75000	18.45000	0.0685	Testudo	Testudo graeca	Linnaeus, 1758
Caprine, Rome	Italy	41.90000	12.48330	0.3550	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Monsummano	Italy	43.86670	10.81670	0.8250	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Palombara Marcellina, Rome	Italy	41.90000	12.48330	0.3550	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Sternatia, Lecce	Italy	40.38330	18.18330	0.0685	Testudo	Testudo sp.	Linnaeus, 1758
Tarquina, Rome	Italy	41.90000	12.48330	0.3550	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Torre del Pagliaccetto, Rome	Italy	41.90000	12.48330	0.0685	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
El Harhoura 1 (Temara)	Morocco	33.95000	-6.93330	0.1050	Testudo	Testudo graeca	Linnaeus, 1758
Crevene Stijena Cave, Petrovica	Serbia	43.11280	19.33030	0.0685	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Crevene Stijena Cave, Petrovica	Serbia	43.11280	19.33030	0.0685	Testudo	Testudo graeca	Linnaeus, 1758
Crevene Stijena Cave, Petrovica	Serbia	43.11280	19.33030	0.0685	Testudo	Testudo sp.	Linnaeus, 1758
Cueva del Boquete de Zafarraya, Sierra de Alhama, Málaga	Spain	36.96670	-4.13330	0.0685	Testudo	Testudo sp.	Linnaeus, 1758
Cueva Horá (Darro, Granada)	Spain	37.35000	-3.30000	0.0685	Eurotestudo	Eurotestudo cf. hermanni	(Gmelin, 1789)
Brown Sand Wedge Local Fauna, Roosevelt County, New Mexico	NSA	34.00000	-103.50000	0900'0	Hesperotestudo	Hesperotestudo wilsoni	(Milstead, 1956)
Domebo Local Fauna, Caddo County, Oklahoma	NSA	36.00000	-100.00000	0.0110	Hesperotestudo	Hesperotestudo wilsoni	(Milstead, 1956)
Arredondo IIA, Alachua County, Florida	NSA	29.60000	-82.40000	0.0690	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)
Melbourne, Brevard County, Florida	USA	28.10000	-80.60000	0.0690	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)

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Table

Ann Accounty, New Mexico         USA         31.78000         -105 96000         0.0151         Capherus           Ana County, New Mexico         USA         31.78000         -106.5000         0.0215         Capherus           Ana County, New Mexico         USA         31.8000         -106.4000         0.026         Capherus           Ana County, New Mexico         USA         31.8000         -108.4000         0.075         Gapherus           Ana County, New Mexico         USA         32.0000         -108.4000         0.077         Gapherus           Ana County, New Mexico         USA         32.0000         -104.0000         0.025         Capherus           Ana County, New Mexico         USA         32.0000         -104.0000         0.025         Capherus           N. Eddy County, New Mexico         USA         32.0000         -104.0000         0.025         Capherus           N. Eddy County, New Mexico         USA         32.0000         -104.0000         0.025         Capherus           N. Eddy County, New Mexico         USA         32.0000         -104.0000         0.025         Capherus           New Sac         USA         32.0000         -104.0000         0.025         Capherus           New Sac         USA			70000					;	
Common Decide (Country, Decide Anna Country, Devia Mexico)         USA         27,0000         40,0000         Conference         Components           and, Indiant Peer Country, Devia Manaco         USA         27,0000         40,0000         0.0569         Heapments           and, Indiant Peer Country, Devia Manaco         USA         27,0000         40,0000         0.0569         Heapments           and, Indian Peer Country, Devia Manaco         USA         27,0000         40,0000         0.0569         Heapments           broad Lies Wildering Health Devia Manaco         USA         28,0000         45,0000         0.0509         Heapments           broad Control Manaco         USA         45,0000         45,0000         0.0509         Heapments           broad Control Manaco         USA         45,0000         45,0000         0.055	Salt Creek, 4.7 mi S and 5.7 mi. W Orla, Reeves County, Texas	NSA	31.78000	-103.99000	0.0130	Gopherus	Gopherus cf. sp.	Rafinesque, 1832	
LSA         Z 5,0000         \$10,4000         Code         Caphenes           and h Indian Rhew County Fordish Rhew County Rhodish         USA         27,6000         \$10,4000         Code         Caphenes           and h Indian Rhew County Rhodish         18,4         27,6000         180,000         Code         Emperation           and h Indian Rhew County Rhodish         18,4         38,5000         18,6000         Code         Emperation           broad bill a Street Int. Gibraltur Peninsula         18,6         38,7000         48,5439         Code         Emperation           broad bill a Street Int. Gibraltur Peninsula         18,6         38,7000         48,5000         Code         Emperation           broad bill a Street Int. Gibraltur Peninsula         18,6         38,7000         48,5000         Code         Emperation           broad bill a Street Int. Gibraltur Peninsula         18,6         38,7000         48,5000         60,000         Emperation           broad bill a Street Int. Count, New Mexico         18,6         38,7000         48,5000         60,000         Emperation           broad bill a Street Int. Count, New Mexico         18,6         38,7000         48,1000         60,000         Emperation           broad bill a Street Int. Count, New Mexico         18,0	Shelter Cave (LACM 1010, UTEP 30), Doña Ana County, New Mexico	USA	33.00000	-106.50000	0.0215	Gopherus	Gopherus agassizi	(Cooper, 1861)	
List         27 60000         List         27 60000         List         Piccopora         List         List <td>Vero Beach, Indian River County, Florida</td> <td>USA</td> <td>27.60000</td> <td>-80.40000</td> <td>0.0560</td> <td>Gopherus</td> <td>Gopherus polyphemus</td> <td>(Daudin, 1803)</td> <td></td>	Vero Beach, Indian River County, Florida	USA	27.60000	-80.40000	0.0560	Gopherus	Gopherus polyphemus	(Daudin, 1803)	
15 Amont State Broad and the Waterooth In Holds of county, New Mexico         USA         31 60000         61 4000         01 717         Geochelone of county, New Mexico         15 6000         63 4109         01 200         Enrollended of county, New Mexico         15 6000         63 4109         01 200         Enrollended of County, New Mexico         15 6000         63 5000         63 5000         63 5000         17 91 00         01 200         Enrollended of County, New Mexico         15 6000         17 91 00         01 200         Enrollended of County, New Mexico         15 6000         17 91 00         01 200         Enrollended of County, New Mexico         15 6000         17 91 00         01 200         Enrollended of County, New Mexico         15 6000         17 91 00         01 200         Enrollended of County, New Mexico         15 6000         17 91 00         01 200         Enrollended of County, New Mexico         15 6000         17 91 00         01 200         Enrollended of County, New Mexico         15 6000         17 91 00         01 200         Enrollended of County, New Mexico         15 6000         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00         17 91 00	Vero Beach, Indian River County, Florida	USA	27.60000	-80.40000	0.0560	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)	
s come uit, Gibraltar Peninsula         England         35 10000         54.1380         0.0200         Emotestulo           o clobeleia, Drimant         Penugai         35 6.000         45.1389         0.0200         Emotestulo           o clobeleia, Drimant         Penugai         35 6.000         45.000         0.0200         Emotestulo           o clobeleia, Drimant         Penugai         35 5.000         45 0.000         0.0200         Emotestulo           o portugai         Emotestulo         VIRA         35 3000         45 0.000         0.0200         Emotestulo           o portugai         Emotestulo         USA         32 0.000         144 0.000         0.0255         Deprivation           on commission         Britande         Lick Allono         0.0200         144 0.000         0.0255         Deprivation           on comparity Emotestula Marcino         Lick Allono         0.0200         144 0.000         0.0255         Deprivation           on comparity Emotestula         Deprivation         0.0200         144 0.000         0.0255         Deprivation           on comparity Emotestula         Deprivation         0.0200         144 0.000         0.0255         Deprivation           on comparity Emotestula         Depotestula         0.02	U-Bar Cave Late Wiskonsin, Hidalgo County, New Mexico	USA	31.60000	-108.40000	0.0175	Geochelone	Geochelone cf. sp.	Rafinesque, 1832	
Phytogail         Spenotor         48.14380         0.2000         Teatudo           Specianeli, Fornar         Descoural, Fornar         38.50000         48.14380         0.2000         Teatudo           Specianeli, Evonar         Descoural, Fornar         USA         38.5000         48.50000         0.0200         Heappencestudo           Specianeli, Evonar         Descoural, Fornar         USA         38.5000         48.65000         0.0200         Heappencestudo           Specianeli, Evonar         Descoural, Fornar, New Mexico         USA         38.5000         140.0000         0.0200         Heappencestudo           Anno Caren Midacorani, Hediago County, New Mexico         USA         31.6000         140.0000         0.0250         Heappencestudo           Anno All Caren Midacorani, Hediago County, New Mexico         USA         33.6000         19.8000         10.0250         Heappencestudo           Anno All Caren Midacorani, Hediago County, Teas         Descounty, Teas         10.0000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000         19.8000	Gorham's cave IIIb, Gibrattar Peninsula	England	36.12030	-5.34190	0.0200	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
Pertugal P	Gruta do Caldeirão, Tomar	Portugal	39.60070	-8.41380	0.0200	Testudo	Testudo sp.	Linnaeus, 1758	
year Local Fauna, Harrie County, Thoras         USA         29,00000         -85,0000         -85,0000         -85,0000         -85,0000         -85,000	Gruta do Escoural, Évora	Portugal	38.57000	-7.91000	0.0200	Eurotestudo	Eurotestudo cf. hermanni	(Gmelin, 1789)	
VP Peccary Cave, Cawford Courty, Indiana         USA         38.33000         -86.55000         10.70         Hespendestudo           ont Cannel Mazza Dy Cave (UTEP S), Eddy County, New Mexico         USA         32.00000         -104.0000         0.0255         Hespendestudo           Are Mid Wissorshin, Hidago County, New Mexico         USA         31.60000         -104.0000         0.0375         Hespendestudo           Are Mid Wissorshin, Hidago County, New Mexico         USA         32.0000         -108.4000         0.0375         Eurorestudo           Are Mid Wissorshin, Hidago County, New Mexico         USA         32.0000         -108.4000         0.0375         Eurorestudo           Are Save Mid Wissorshin, Hidago County, Toxas         Listand Marking Tox.         108.4000         -5.14000         0.0375         Eurorestudo           A Faul Save Arrabida         Professor         USA         32.0000         -9.14000         0.0375         Eurorestudo           A Faul Save Arrabida         Professor         USA         32.0000         -9.14000         0.0350         Eurorestudo           A Faul Save Arrabida         Professor         USA         32.0000         -9.14000         0.0350         Eurorestudo           A Faul Save Arrabida         Professor         Los Arrabida         Los Arrabida	Sims Bayou Local Fauna, Harris County, Texas	USA	29.00000	-95.00000	0.0200	Hesperotestudo	Hesperotestudo sp.	Williams, 1950	
oth Carnel Maze, Dry Cave (UTEP 5), Eddy County, New Mexico  USA  22,00000  USA  22,00000  USA  23,00000  USA  24,00000  USA  25,00000  USA  26,01726  USA  26,01726  USA  26,01726  USA  26,01726  USA  26,01726  USA  26,01726  USA  27,00000  USA  26,01726  USA  27,00000  USA  27,00000  USA  27,00000  USA  26,01726  USA  26,01726  USA  27,00000  USA  26,01726  USA  27,00000  USA  26,01726  USA  26,01726  USA  27,00000  USA  26,01726  USA  27,00000  USA  27,00000  USA  26,01726  USA  27,00000  USA  26,01726  USA  27,00000  USA  26,01726  USA  27,00000  USA  28,01730  USA  USA  USA  USA  USA  USA  USA  US	Megenity Peccary Cave, Crawford County, Indiana	USA	38.33000	-86.55000	0.0370	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)	
oth Carnel Maze, Dy Cave (UTEP 5), Eddy County, New Mexico  USA  31,60000  18,0000  18,0000  18,0000  18,0000  18,0000  18,00000  18,0000  18,0000  18,0000  18,0000  18,0000  18,0000  18,00000  18,0000  18,0000  18,0000  18,0000  18,0000  18,0000  18,00000  18,0000  18,0000  18,0000  18,0000  18,0000  18,0000  18,00000  18,0000  18,0000  18,0000  18,0000  18,0000  18,0000  18,000000  18,00000  18,00000  18,00000  18,00000  18,00000  18,00000  18,00000  18,000000	Sabertooth Camel Maze, Dry Cave (UTEP 5), Eddy County, New Mexico	USA	32.00000	-104.00000	0.0255	Gopherus	Gopherus agassizi	(Cooper, 1861)	
State Mid Wiskonsin, Hidalgo County, New Mexico         USA         31 80000         -108 4000         0.0315         Emperation           For and Countherial. Bornhabraral         England         38,13610         -5,14800         0.0375         Emresation           For act Countherial. Bornhabraral         USA         32,70000         -5,34800         0.0375         Emresation           H. Dalles County, Teass         Portugal         38,56800         -5,14800         0.0395         Emresation           I and Local Faurus, Foad County, Teass         LOSA         32,0000         -96,0000         0.0395         Emresation           Annoble County, Teass         Losa County, Teass         LOSA         34,0000         -96,0000         0.0590         Emresation           Annoble County, Teass         Losa County, Teass         Losa County, Teass         Losa County, Teass         County, Teas	Sabertooth Camel Maze, Dry Cave (UTEP 5), Eddy County, New Mexico	NSA	32.00000	-104.00000	0.0255	Hesperotestudo	Hesperotestudo wilsoni	(Milstead, 1956)	
by Lotugal         S93 951         9.1953         C9.77         Eurotestudo           1st Care IV, Ghorliar Peninsula         England         39.3051         -9.1953         0.0275         Eurotestudo           1h, Dalas County, Texas         Portugal         35.2000         -9.14800         0.0330         Eurotestudo           1h Dalas County, Texas         USA         32.7000         -9.14800         0.0330         Eurotestudo           1h Caralitra Erra, Arrigate Texa, San Patricio County, Texas         USA         34.0000         -99.0000         0.0550         Hesperotestudo           And Enura, Foard County, Texas         USA         34.0000         -99.0000         0.0550         Hesperotestudo         1.0000         O.0550         Hesperotestudo           And Enura, Foard County, Texas         USA         34.0000         -99.0000         0.0550         Hesperotestudo         1.0000         O.0550         Hesperotestudo           And Enura, Foard County, Texas         December         1.3000         -99.0000         0.0550         Hesperotestudo         1.0000         O.0550         O.0550         Hesperotestudo           And Enura, Entra	U-Bar Cave Mid Wiskonsin, Hidalgo County, New Mexico	USA	31.60000	-108.40000	0.0315	Geochelone	Geochelone cf. sp.	Rafinesque, 1832	
18 cannel of Carmin Section County, Towas         England         38,12040         -5,34200         0.0330         Eurorestudo           14, Dallas County, Towas         18, Dallas County, Towas         Portugal         38,70000         -96,70000         0.0290         Hepperorestudo           14, Dallas County, Towas         18, Dallas County, Towas         USA         32,0000         -9,14800         0.0390         Hepperorestudo           18 control county, Towas         USA         34,0000         -99,00000         0.0550         Hepperorestudo           18 control county, Towas         USA         34,0000         -99,00000         0.0550         Hepperorestudo           18 control county, Towas         USA         34,0000         -99,0000         0.0550         Hepperorestudo           18 control county, Towas         USA         34,0000         -99,0000         0.0550         Hepperorestudo           20 control county, Towas         Local Faura, Foard County, Towas         18,000         -9,0000         0.0550         Hepperorestudo           20 control county, Towas         Parm Sile mear Fillmore, Mondomery County, Illinois         USA         25,0000         0.100         Hepperorestudo           20 control county         Locape KZZ, Sicily         Associant Mondomery County, Illinois         Markind	Gruta Nova da Columbeira, Bombarral	Portugal	39.30510	-9.19530	0.0275	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
High controls         USA         32,70000         -96,70000         0.0290         Hesperotestudo           High controls         Figureira Barva, Arräbida         Portugal         38,6880         -91,4800         0.0390         Eurotestudo           If the Vanishing Prod, Dy Cave (UTEP 26, 27), Eddy County, New Mexico         USA         32,00000         -99,00000         0.0350         Eurotestudo           Barch Local Fauna, Foad County, Texas         USA         34,00000         -99,00000         0.0550         Gopherus           Barch Local Fauna, Foad County, Texas         USA         27,0000         -99,00000         0.0550         Gopherus           Barch Local Fauna, Foad County, Texas         USA         27,0000         -96,0000         0.0550         Gopherus           Barch Local Fauna, Foad County, Texas         USA         27,0000         -98,0000         0.0550         Gopherus           Jeb Camino Secteur Central, Pinila del Valle, Madrid         USA         28,91730         -89,2800         0.0100         Hesperotestudo           Jeb Camino Secteur Nord, Pinila del Valle, Madrid         Spain         40,92540         -38,0630         0.1500         Eurotestudo           Jeb Camino Secteur Nord, Pinila del Valle, Madrid         Madrid         Madrid         40,92540         -38,0630         0	Gorham's cave IV, Gibraltar Peninsula	England	36.12040	-5.34200	0.0330	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
Portugal         S9.56800         -9.14800         0.0305         Eurotestudo           If the Vanishing Floor, Dry Cave (UTEP 26, 27), Eddy County, New Mexico         USA         32.00000         -104.0000         0.0355         Gopherus           Fanch Local Fauna, Foard County, Texas         USA         32.00000         -0.0550         Geochelone         -0.0000         0.0550         Geochelone           Ranch Local Fauna, Foard County, Texas         USA         27.00000         -99.00000         0.0550         Geochelone         -0.0000         0.0550         Geochelone         -0.0000         Gopherus         -0.0000         0.0550         Geochelone         -0.0000         0.0000	Moore Pit, Dallas County, Texas	USA	32.70000	-96.70000	0.0290	Hesperotestudo	Hesperotestudo sp.	Williams, 1950	
Interval of the Vanishing Floor, Dry Cave (UTEP 26, 27), Eddy County, New Mexico         USA         32,00000         -104,0000         0.0335         Gopherus           Ranch Local Fauna, Foard County, Texas         USA         34,0000         -99,0000         0.0550         Hesperotestudo           Ranch Local Fauna, San Patricio County, Texas         USA         34,0000         -99,0000         0.0550         Hesperotestudo           e Local Fauna, San Patricio County, Texas         USA         27,0000         -99,0000         0.0550         Hesperotestudo           b Famorit, Local Fauna, San Patricio County, Texas         USA         27,0000         -99,0000         0.0550         Hesperotestudo           b Famorit, Local Fauna, San Patricio County, Texas         USA         27,0000         -99,0000         0.0100         Hesperotestudo           b Cach Famorit, San Patricio County, Texas         USA         28,9170         -19,000         Hesperotestudo         0.100         Hesperotestudo           b Cach Famirico Secteur Nord, Pinilla del Valle, Madrid         Spain         28,9170         -38,0530         0.1100         Hesperotestudo           b Capo KZZ, Sicily         La Capo KZZ, Sicily         La Capo KZZ, Sicily         -38,0530         0.1200         0.1200         0.1200           d Cave, Gibratlar Peninsula         La	Gruta da Figueira Brava, Arrábida	Portugal	38.56800	-9.14800	0.0300	Eurotestudo	Eurotestudo cf. hermanni	(Gmelin, 1789)	
Banch Local Fauna, Foard County, Texas         USA         34,00000         -99,00000         0.0550         Geochelone           Ranch Local Fauna, Foard County, Texas         USA         34,00000         -99,00000         0.0550         Hesperotestudo           E Local Fauna, San Patricio County, Texas         USA         27,00000         -96,00000         0.0560         Gopheus           E Local Fauna, San Patricio County, Texas         USA         27,00000         -96,00000         0.0560         Gopheus           D Arm Sile, near Fillmore, Montgomery County, Illinois         USA         39,13000         -89,28000         0.1105         Eurotestudo           D Acam Sile, near Fillmore, Montgomery County, Illinois         USA         28,1730         -89,2800         0.100         Hesperotestudo           D Acam Sile, near Fillmore, Montgomery County, Illinois         USA         28,91730         -89,2800         0.100         Hesperotestudo           D Acam Sile, near Fillmore, Madrid         Secteur Central, Pinilla del Valle, Madrid         Spain         40,9254         -3,8053         0.090         0.100         Hesperotestudo           D Acam Camino Secteur Central, Pinilla del Valle, Madrid         Acam Camino Secteur Nord, Pinilla del Valle, Madrid         Acam Camino Secteur Nord, Pinilla del Valle, Madrid         Acam Camino Secteur Nord, Pinilla del Valle, Madrid	Room of the Vanishing Floor, Dry Cave (UTEP 26, 27), Eddy County, New Mexico	NSA	32.00000	-104.00000	0.0335	Gopherus	Gopherus agassizi	(Cooper, 1861)	
Banch Local Fauna, Foard County, Texas         USA         34,00000         0.0550         Hespenotestudo           e Local Fauna, Foard County, Texas         USA         27,0000         -96,0000         0.0560         Gopherus           e Local Fauna, San Patricio County, Texas         USA         27,0000         -96,000         0.0500         Gopherus           b Fam Site, near Fillmore, Montgomery County, Illmois         USA         39,1300         -98,2800         0.100         Hesperotestudo           2cest, Florida         USA         28,1736         -18609         0.100         Hesperotestudo         1.000           2cest, Florida         USA         28,1730         -82,1426         0.100         Hesperotestudo           2cest, Florida         USA         28,9173         -82,1426         0.100         Hesperotestudo           2cest, Florida         USA         Spain         40,92540         -3,80630         0.100         Hesperotestudo           2cest, Florida         Discapino Secteur Central, Pinilla del Valle, Madrid         Haly         38,2000         0.120         Hesperotestudo           2cest, Callon Del Campino Secteur Nord, Pinilla del Valle, Madrid         Perutugal         12,3000         0.120         12,000           2cest, Callo Del Campino Secteur Nord, Pinilla del Vall	Easley Ranch Local Fauna, Foard County, Texas	NSA	34.00000	-99.00000	0.0550	Geochelone	Geochelone sp.	Fitzinger, 1835	
LOSA         USA         27,00000         -96,0000         0.0600         Gopherus           Spain         41,2736         1,96090         0.1105         Eurotestudo           Ad Farm Site, near Fillmore, Montgomery County, Illinois         USA         39,1300         -99,2800         0.100         Hespenotestudo           Josek, Florida         USA         26,91730         -82,14260         0.100         Hespenotestudo           Josek, Florida         USA         26,91730         -82,14260         0.100         Hespenotestudo           Josek, Florida         USA         26,91730         -82,14260         0.100         Hespenotestudo           Josek, Florida         USA         -82,14260         0.100         Hespenotestudo         D.100           Jose Cambria         Belanila del Valle, Madrid         Portugal         38,2000         12,7500         0.1500         Eurotestudo           Jac, Coimbra         Lo Capo KZZ, Sicily         Bernand         40,9254         -3,80630         0.1500         Eurotestudo           Atambua area, Timor         Atambua area, Timor         Atambua area, Timor         11,40000         0.130         12,1000         0.1500         12,1000         12,1000         12,1000         12,1000         12,1000         12,100	Easley Ranch Local Fauna, Foard County, Texas	NSA	34.00000	-99.00000	0.0550	Hesperotestudo	Hesperotestudo sp.	Williams, 1950	
Spain         Spain         41.27360         1.96090         0.1105         Eurotestudo           Az Farm Site, near Fillmore, Montgomery County, Illinois         USA         39.13000         492.8000         0.100         Hesperotestudo           Azek, Florida         USA         26.91730         492.14260         0.1000         Hesperotestudo           Jed Camino Secteur Central, Pinilla del Valle, Madrid         Spain         40.92540         -3.80630         0.0910         Eurotestudo           Jel Camino Secteur Central, Pinilla del Valle, Madrid         Again         40.92540         -3.80630         0.0910         Eurotestudo           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Again         40.92540         -3.80630         0.0910         Eurotestudo           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Portugal         40.92540         -3.80630         0.0910         Eurotestudo           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Portugal         -3.80630         0.0910         Eurotestudo           Jel Capie Marcia         Portugal         -3.80630         0.1000         1.1000         Hasyan           Adambua area, Timor         Agaicusa, Sicily         -4.87360         -5.3490         0.120         1.1000         1.1000         1.1000 <t< td=""><td>Ingleside Local Fauna, San Patricio County, Texas</td><td>NSA</td><td>27.00000</td><td>-96.00000</td><td>0.0600</td><td>Gopherus</td><td>Gopherus sp.</td><td>Rafinesque, 1832</td><td></td></t<>	Ingleside Local Fauna, San Patricio County, Texas	NSA	27.00000	-96.00000	0.0600	Gopherus	Gopherus sp.	Rafinesque, 1832	
OSA         99.28000         0.1000         Hesperotestudo           Dreak, Florida         USA         26.91730         -82.14260         0.1000         Hesperotestudo           Ale Camino Secteur Central, Pinilla del Valle, Madrid         Spain         40.92540         -3.80630         0.0910         Eurotestudo           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Spain         40.92540         -3.80630         0.0910         Eurotestudo           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Agricola         -3.80630         0.0920         Eurotestudo         1           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Agricola         -3.80630         0.0920         Eurotestudo         1           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Agricola         -4.45210         0.1500         Eurotestudo         1           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Agricola         -4.45210         0.1500         Eurotestudo         1           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Agricola         -4.45210         0.1200         Eurotestudo         1           Jel Cave, Siciador Siciador Sirándo         Agricola         -4.487360         -4.487360         -4.487360         0.435         Eurotestudo         1	Cova del Rinoceront, eastern Garraf Massif, Can'Aymerich quarry, Castelldelfs	Spain	41.27360	1.96090	0.1105	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
OSA         26.91730         -82.14260         0.1000         Hesperotestudo           Jeel Camino Sacteur Central, Pinilla del Valle, Madrid         Spain         40.92540         -38.0630         0.0910         Eurotestudo           Jel Camino Sacteur Central, Pinilla del Valle, Madrid         Spain         40.92540         -3.80630         0.0910         Eurotestudo           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Bortugal         40.92540         -3.80630         0.0920         Eurotestudo           Jel Camino Secteur Nord, Pinilla del Valle, Madrid         Agricola         12.75000         0.1500         Eurotestudo         1           La Capo KZ2, Sicily         Agricola         12.77600         1.2700         0.1500         Eurotestudo         1           da. Coimbra         Agrambua area, Timor         Agrambua area, Timor         Agrambua area, Timor         1.27000         1.249000         0.4535         Geochelone           All Renosa, Potenza         Agrambua area, Timor         Agrambua area, Timor         1.27600         0.435         Eurotestudo         1           All Renosa, Potenza         Agrambua area, Sicily         Agrambua area, Eddy County, New Mexico         1.25000         0.435         Eurotestudo         1           Bernaria, Eddy County, New Mexico         USA	Hopwood Farm Site, near Fillmore, Montgomery County, Illinois	NSA	39.13000	-89.28000	0.1000	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)	
bel Camino Secteur Central, Pinila del Valle, Madrid         Spain         40.92540         -3.80630         0.0910         Eurotestudo           bel Camino Secteur Nord, Pinila del Valle, Madrid         laty         3820000         12.75000         0.1500         Eurotestudo           b Lo Capo KZ2, Sicily         Laty         38.20000         12.75000         0.1500         Eurotestudo           da, Coimbra         Fordand         40.37810         -5.34190         0.1200         Eurotestudo           rd Cave, Gibraltar Peninsula         Indonesia         -5.1000         124.9000         0.4535         Geochelone           Atambua area, Timor         Atambua area, Timor         Croatia         44.87360         15.27690         0.4135         Testudo           sil Venosa, Potenza         Bilo Cave, Sircausa, Sicily         18.30000         0.435         Eurotestudo         118           sil Visogliano (TS)         Italy         37.06670         13.65000         0.4135         Eurotestudo           sil Visogliano (TS)         Eraura, Eddy County, New Mexico         USA         32.40000         0.04500         Goobherus	Peace Creek, Florida	NSA	26.91730	-82.14260	0.1000	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)	
Jean Camino Secteur Nord, Pinila del Valle, Madrid         Spain         40.92540         -3.80630         0.0920         Eurotestudo           Je Capo KZ2, Sicily         b Lo Capo KZ2, Sicily         12.7500         12.7500         0.1500         Eurotestudo           da, Coimbra         Brochante         40.37810         -8.45210         0.1200         Testudo           da, Coimbra         Final Loan         -8.4190         0.1200         Testudo         1.249000         0.4535         Geochelone           Atambua area, Timor         Atambua area, Timor         Croatia         44.87360         15.27690         0.4135         Testudo           sil Venosa, Potenza         Italy         40.63330         15.80000         0.4355         Eurotestudo           sil Visogliano (TS)         Italy         45.78000         13.65000         0.4135         Eurotestudo           sil Visogliano (TS)         Italy         45.78000         10.400000         0.2900         Gopherus           se Fauna, Eddy County, New Mexico         USA         32.40000         10.450000         0.2900         Gopherus	Cueva del Camino Secteur Central, Pinilla del Valle, Madrid	Spain	40.92540	-3.80630	0.0910	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
Litaly         38.20000         12.75000         0.1500         Eurotestudo           da, Coimbra         Portugal         40.37810         -8.45210         0.1200         Testudo           ad, Coimbra         Adambua area, Timor         England         36.12030         -5.34190         0.1200         Testudo           Atambua area, Timor         Indonesia         -9.10000         124.3000         0.4535         Geochelone           Atambua area, Timor         Croatia         44.87360         15.27690         0.4135         Testudo           Atambua area, Timor         Italy         40.63330         15.80000         0.4355         Geochelone           Atambua area, Siriy         Italy         44.87360         15.30000         0.4135         Testudo           Atambua Area, Siriy         Italy         37.06670         15.30000         0.4135         Eurotestudo           Atambua Area, Eddy County, New Mexico         USA         32.0000         -104.00000         0.290         Gopherus           Afambua, Eddy County, New Mexico         USA         32.40000         -104.50000         0.2900         Gopherus	Cueva del Camino Secteur Nord, Pinilla del Valle, Madrid	Spain	40.92540	-3.80630	0.0920	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
da, Coimbra         Portugal         40.37810         -8.45210         0.1200         Testudo           rd Cave, Gibraltar Peninsula         England         36.12030         -5.34190         0.1200         Eurotestudo           Atambua area, Timor         Indonesia         -9.10000         124.9000         0.4535         Geochelone           Si Venosa, Potenza         Croatia         44.87360         15.27690         0.4135         Testudo           sil Venosa, Potenza         Italy         37.06670         15.30000         0.4135         Eurotestudo           sil Visogliano (TS)         Italy         37.06670         15.30000         0.4135         Eurotestudo           er Canyon Cave, Eddy County, New Mexico         USA         32.0000         -104,00000         0.2900         Gopherus           e Fauna, Eddy County, New Mexico         USA         32.40000         -104,50000         0.2900         Gopherus	San Vito Lo Capo K22, Sicily	Italy	38.20000	12.75000	0.1500	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
rd Cave, Gibraltar Peninsula         England         36.12030         -5.34190         0.1200         Eurotestudo           Atambua area, Timor         Indonesia         -9.10000         124.90000         0.4535         Geochelone           Ji Venosa, Potenza         Croatia         44.87360         15.27690         0.4135         Testudo           Ji Venosa, Potenza         Italy         40.63330         15.80000         0.4135         Eurotestudo           Ji Visogliano (TS)         Italy         37.06670         15.30000         0.4135         Eurotestudo           Ji Visogliano (TS)         Italy         45.78000         13.65000         0.4135         Eurotestudo           Ji Visogliano (TS)         Italy         45.78000         10.40000         0.290         Gopherus           Ji Visogliano (TS)         Italy         32.00000         -104,00000         0.290         Gopherus	Mealhada, Coimbra	Portugal	40.37810	-8.45210	0.1200	Testudo	Testudo sp.	Linnaeus, 1758	
Atambua area, Timor     Indonesia     -9.10000     124.90000     0.4535     Geochelone       Ii Venosa, Potenza     Croatia     44.87360     15.27690     0.4135     Testudo       Ii Venosa, Potenza     Italy     40.63330     15.80000     0.4135     Eurotestudo       Ii Visogliano (TS)     Italy     37.06670     15.30000     0.4135     Eurotestudo       Ii Visogliano (TS)     Italy     45.78000     13.65000     0.4135     Eurotestudo       In Santo Canyon Cave, Eddy County, New Mexico     USA     32.00000     -104,00000     0.2900     Gopherus       In Santo Cave, Eddy County, New Mexico     USA     32.40000     -104,50000     0.2900     Gopherus	Vanguard Cave, Gibraltar Peninsula	England	36.12030	-5.34190	0.1200	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
Li Venosa, Potenza         Croatia         44.87360         15.27690         0.4135         Testudo           Ji Venosa, Potenza         Italy         40.63330         15.80000         0.8835         Eurotestudo           Ji Visogliano (Ts)         Italy         37.06670         15.3000         0.4135         Eurotestudo           Ji Visogliano (Ts)         Italy         45.78000         13.85000         0.4135         Eurotestudo           er Canyon Cave, Eddy County, New Mexico         USA         32.00000         -104,0000         0.2900         Gopherus           ne Fauna, Eddy County, New Mexico         USA         32.4000         -104,5000         0.2900         Gopherus	Raebia, Atambua area, Timor	Indonesia	-9.10000	124.90000	0.4535	Geochelone	Geochelone sp.	Fitzinger, 1835	
Italy         40.63330         15.80000         0.8835         Eurotestudo           Italy         37.06670         15.30000         0.4135         Eurotestudo           Italy         45.78000         13.65000         0.4500         Eurotestudo           USA         32.00000         -104.0000         0.290         Gopherus           USA         32.4000         -104.5000         0.290         Gopherus	Marjan	Croatia	44.87360	15.27690	0.4135	Testudo	Testudo sp.	Linnaeus, 1758	
Italy       37.06670       15.30000       0.4135       Eurotestudo         Italy       45.78000       13.65000       0.4500       Eurotestudo         USA       32.00000       -104.00000       0.290       Gopherus         USA       32.40000       -104.50000       0.2900       Gopherus	Loreto di Venosa, Potenza	Italy	40.63330	15.80000	0.8835	Eurotestudo	Eurotestudo cf. hermanni	(Gmelin, 1789)	
ltaly 45.78000 13.65000 0.4500 Eurotestudo 1 USA 32.00000 -104.00000 0.2090 Gopherus 0 USA 32.40000 -104.50000 0.2900 Gopherus 0	Spinagallo Cave, Siracusa, Sicily	Italy	37.06670	15.30000	0.4135	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
USA 32.00000 -104,00000 0.2990 Gopherus USA 32.40000 -104,50000 0.2900 Gopherus	Riparo di Visogliano (TS)	Italy	45.78000	13.65000	0.4500	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)	
USA 32.40000 -104.50000 0.2900 Gopherus	Slaughter Canyon Cave, Eddy County, New Mexico	NSA	32.00000	-104.00000	0.2090	Gopherus	Gopherus agassizi	(Cooper, 1861)	
	Dry Cave Fauna, Eddy County, New Mexico	NSA	32.40000	-104.50000	0.2900	Gopherus	Gopherus agassizi	(Cooper, 1861)	
Dry Cave Fauna, Eddy County, New Mexico Hesperotestudo Hesperotestudo Hesperotestudo Wilsoni	Dry Cave Fauna, Eddy County, New Mexico	NSA	32.40000	-104.50000	0.2900	Hesperotestudo	Hesperotestudo wilsoni	(Milstead, 1956)	

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Control March Matter County Character         Character County Character								
France   4,386350   4,13530   6,2200   Gaphierus   Gaphierus gap   Caphierus	Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
LSA         37,00000         -100,00000         0,3000         Capherus         Copherus sp.           USA         37,00000         -100,00000         0,3000         Gapherus         Gopherus sp.           USA         36,00000         -100,00000         0,3000         Hespenciastudo         Hespenciastudo permanni           USA         36,00000         -100,00000         0,400         Hespenciastudo         Hespenciastudo permanni           USA         37,00000         -100,00000         0,400         Hespenciastudo         Hespenciastudo permanni           USA         37,0000         -100,00000         0,400         Hespenciastudo         Herpenciastudo permanni           USA         37,0000         -100,0000         0,400         Hespenciastudo         Herpenciastudo permanni         Herpenciastudo         Herpenciastudo per	Lunel-Viel, Mas des Caves (Hérault)	France	43.68330	4.13330	0.3200	Eurotestudo	Eurotestudo aff. hermanni	(Gmelin, 1789)
USA         37,00000         -10,000000         0,3000         Gophreus Sp.         Gophreus Sp.           USA         37,00000         -10,000000         0,3000         Gophreus Gp.         Gophreus Sp.           USA         37,00000         -10,000000         0,3000         Gophreus Gp.         Gophreus Sp.           USA         37,00000         -10,000000         0,3000         Gophreus Gp.         Gophreus Gp.           USA         36,00000         -10,000000         0,3000         Gophreus Gp.         Gp.           USA         36,00000         -10,000000         0,3000         Gophreus Gp.         Brunclestudo permarril           USA         37,00000         -10,000000         0,4000         Hespenchestudo permarril         Hespenchestudo permarril           USA         37,0000         -10,000000         0,4000         Hespenchestudo permarril         Hespen	Butler Spring XI Ranch (KU Locality 7), Meade County, Kansas	USA	37.00000	-100.00000	0.3000	Gopherus	Gopherus sp.	Rafinesque, 1832
15A         37,00000         6,3000         Gacchelone Gacchelone sp.           16A         37,00000         1,000000         0,3000         Gachelus         Gachelus sp.           16A         37,36820         11,26670         0,5800         Gachelus Gachelone sp.           18Ay         37,36820         12,36670         0,5800         Gachelus Gachel	Butler Spring XI Ranch (UM-K2-62), Meade County, Kansas	USA	37.00000	-100.00000	0.3000	Gopherus	Gopherus sp.	Rafinesque, 1832
USA   35,00000   0,3000   0,3000   0,3000   0,3000   0,3000   0,3000   0,3000   0,3000   0,3000   0,3000   0,3000   0,3000   0,30000   0,3000   0	Butler Spring XI Ranch (UM-K3-59), Meade County, Kansas	USA	37.00000	-100.00000	0.3000	Geochelone	Geochelone sp.	Fitzinger, 1835
Lish	Butler Spring XI Ranch (UM-K3-59), Meade County, Kansas	USA	37.00000	-100.00000	0.3000	Gopherus	Gopherus sp.	Rafinesque, 1832
Part	Nye Sink Local Fauna, Beaver County, Oklahoma	USA	36.00000	-100.00000	0.3000	Gopherus	Gopherus sp.	Rafinesque, 1832
1974   1970	Alcamo travertini (TP)	Italy	37.98330	12.96670	0.5900	gen.	gen. Indet.	Gray, 1825
USA         40,00000         98,00000         0,4000         Hespendestude         Hespendestude spanners           USA         36,00000         -100,00000         0,4000         Hespendestude         Hespendestude spanners           USA         37,00000         -100,00000         0,4000         Hespendestude         Hespendestude spanners           USA         37,00000         -100,00000         0,6000         Gopheus         Gopheus           USA         37,00000         1,100,0000         Gopheus         Eurotestude os. gh Permanni           Inilaly         41,45000         1,100,0000         Gopheus         Eurotestude os. gh Permanni           Inilaly         41,45000         1,100,0000         Gopheus         Eurotestude os. gh Permanni           Cuba         23,8000         33,8000         11,700         Eurotestude os. gh Permanni           Cuba         23,8000         12,1000         1,700         Hespendestude os. gh Permanni           Cuba         23,8000         12,1000         1,700         Hespendestude os. gh Permanni           Cuba         23,8000         12,1000         1,300         Hespendestude os. gh Permanni           Cuba         23,8000         12,1000         1,300         Golessochelye         Gopheus <td>Grotta Marasà (PA)</td> <td>Italy</td> <td>38.00000</td> <td>13.00000</td> <td>0.5900</td> <td>Eurotestudo</td> <td>Eurotestudo hermanni</td> <td>(Gmelin, 1789)</td>	Grotta Marasà (PA)	Italy	38.00000	13.00000	0.5900	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
USA         36 00000         100 00000         0.4000         Hespendestudo         Hespendestudo sp.           USA         37 00000         1.00 00000         0.4000         Hespendestudo         Hespendestudo sp.           USA         37 00000         1.00 00000         0.6000         Hespendestudo         Hespendestudo sp.           USA         37 00000         1.00 00000         0.6000         Hespendestudo sp.         p. hermanni           Inaly         41.45000         1.56670         1.170         Eurotestudo ex. gr. hermanni           USA         32 00000         15.56670         1.700         Hespendestudo permanni           Ouba         22.34000         19.5000         1.700         Hespendestudo permanni           Ouba         22.34000         19.2000         Hespendestudo permanni           Ouba         22.34000         12.10000         1.3000         Hespendestudo permanni           Indonesia         44.16300         12.10000         1.2000         Hespendestudo permanni           USA         27.0000         12.10000         1.2000         Hespendestudo permanni           USA         27.0000         12.500         Hespendestudo permanni         Hespendestudo permanni           USA         27.0000         <	Angus Local Fauna (UNSM No-101), Nuckolls County, Nebraska	USA	40.0000	-98.00000	0.4000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
USA   38,0000   38,0000   0,4000   Hesperchesturd   Hesperchesturd sp.	Berends Local Biota, Beaver County, Oklahoma	NSA	36.00000	-100.00000	0.4000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
USA   37,00000   100,00000   0,00000   Hosperorisativo sp.   Hos	Kanopolis Local Fauna, Ellsworth County, Kansas	USA	38.00000	-98.00000	0.4000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Italy	Arkalon Local Fauna, Seward County, Kansas	USA	37.00000	-100.00000	0.6000	Gopherus	Gopherus	Rafinesque, 1832
Italy	Arkalon Local Fauna, Seward County, Kansas	USA	37.00000	-100.00000	0.6000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Teads         14.14500         15.56670         1.1700         Eurotestudo         Eurotestudo bermanni           Teads         USA         33.80000         -99.50000         0.7000         Eurotestudo         Eurotestudo bermanni           Teads         USA         33.80000         -99.50000         0.7000         Hesperotestudo         Eurotestudo bermanni           Cuba         22.34000         27.917000         1.3005         Testudo cubensis         Perspectostudo cubensis           Indonesia         -8.7000         1.21.0000         1.3005         Testudo cubensis         Perspectostudo cubensis           Indonesia         -8.7000         1.21.0000         1.3015         Testudo cubensis         Perspectostudo cubensis           Indonesia         -8.7000         1.21.0097         1.3005         Gobrelone         Geochelone go, Cubensis           Indonesia         -8.6006         121.0097         1.3005         Gobrelone         Geochelone go, Cubensis           Indonesia         -8.7000         -8.50000         1.2000         Colossochelys         Colossochelys sp.           USA         -8.70000         -8.250000         1.2500         Hesperotestudo crassisculata           USA         USA         33.0000         1.06.5000         1.3500	Cava Dell'Erba Apricena, Foggia	Italy	41.45000	15.56670	1.1700	Eurotestudo	Eurotestudo ex. gr. hermanni	(Gmelin, 1789)
Texas         USA         12.452.00         0.7000         Eurotestudo Permanmi           Texas         USA         33.80000         -99.50000         0.7000         Hesperotestudo Sp.           Cuba         21.95000         -73.17000         1.3000         Testudo cubensis         1           Cuba         22.34000         -80.40000         1.3005         Testudo cubensis         1           Indonesia         -8.70000         121.10000         1.3005         Geochelone         Geochelone sp.           Italy         -8.8906         121.10000         1.3015         Testudo cubensis         1           Italy         -8.8906         121.10000         1.3005         Geochelone         Geochelone sp.           USA         -8.8906         121.0997         1.200         Caborsochelys         Geochelone sp.           USA         27.7000         -82.5000         1.250         Hesperotestudo crassisculata         1.250           USA         27.7000         -82.5000         1.250         Hesperotestudo crassisculata         1.250           USA         27.7000         -82.5000         1.250         Hesperotestudo crassisculata         1.250           Aspain         1.7500         -1.550         1.4000 <td< td=""><td>Cava Pirro Apricena, Foggia</td><td>Italy</td><td>41.45000</td><td>15.56670</td><td>1.1700</td><td>Eurotestudo</td><td>Eurotestudo ex. gr. hermanni</td><td>(Gmelin, 1789)</td></td<>	Cava Pirro Apricena, Foggia	Italy	41.45000	15.56670	1.1700	Eurotestudo	Eurotestudo ex. gr. hermanni	(Gmelin, 1789)
Texas         USA         33 80000         -99 50000         0.7000         Hesperotestudo sp.           Cuba         21,36000         -79 1,700         1,300         Testudo cubensis         1           Cuba         22,4400         -80 4,0000         1,300         Geochelone         Testudo cubensis           Indonesia         22,4400         -81,50000         1,300         Geochelone         Geochelone go.           Indonesia         -8,70000         12,10000         1,300         Geochelone         Geochelone go.           Indonesia         -8,80000         12,10000         1,300         Geochelone go.         Testudo cubensis           Indonesia         -8,80000         12,600         Colossochely         Colossochely         Geochelone go.           USA         27,70000         -82,50000         1,250         Hesperotestudo crassiscuata         Usadochely sp.           USA         27,70000         -82,50000         1,250         Hesperotestudo crassiscuata         Usadochely sp.           USA         27,70000         -82,50000         1,250         Hesperotestudo polymens sp.         Hesperotestudo polymens sp.           USA         33,0000         -106,5000         1,350         Gopherus sp.         Gopherus sp.	Valdemino Cave, 20-24 (Borgio Verezzi, Liguria)	Italy	44.16330	12.45230	0.7000	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Cuba         21.95000         -79.17000         1.3000         Fetudo cubensis           Cuba         22.34000         -80.4000         1.3005         Fetudo cubensis           Indonesia         -87.0000         121.1000         1.3005         Geochelone sp.           Cuba         -87.0000         121.1000         1.3015         Fetudo cubensis           Indonesia         -87.0000         -81.5000         12.10997         1.3015         Fetudo cubensis           Ilaly         121.0997         1.200         Colossochelys sp.         Indonesia         1.2100 cubensis           Ilay         1180         12.10997         1.200         Colossochelys sp.         Indonesia           Ilay         1180         12.10997         1.200         Colossochelys sp.         Indonesia           Ilay         11.500         1.200         Colossochelys sp.         Indonesia         Indonesia           USA         27.7000         -82.5000         1.250         Hesperiotestudo         Hesperiotestudo crassiscutata           USA         37.61670         -12.500         Hesperiotestudo         Hesperiotestudo sp.           USA         37.5000         1.2500         Gopherus         Gopherus ? sp.           Spain         3	Gilliland local fauna, Burnett Ranch, 7 miles W of Vera, Knox County, Texas	USA	33.80000	-99.50000	0.7000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Cuba         22.34000         1.3005         Fistudo elone         Testudo cubensis           Indonesia         8.70000         12.110000         1.3015         Testudo cubensis         Prochelone sp.           Cuba         23.05000         -81.50000         1.3015         Testudo cubensis         Prochelone sp.           Indonesia         8.6906         121.09970         1.3015         Testudo cubensis         Prochelone sp.           Indonesia         8.6906         121.09970         1.3015         Testudo cubensis         Prochelone sp.           USA         27.7000         12.5000         1.2500         Gopherus         Gopherus polyphermus           USA         27.7000         -82.50000         1.2500         Hesperotestudo hermanni           USA         37.61670         -0.86670         1.5500         Hesperotestudo hermanni           USA         33.0000         -106.50000         1.3500         Hesperotestudo hermanni           USA         37.6000         -106.50000         1.3500         Hesperotestudo sp.           Babain         37.5000         -106.5000         1.3500         Hesperotestudo sp.           Babain         37.5000         -106.5000         1.3500         Hesperotestudo sp.           Babain </td <td>Casimba de Jatibonica, Santa Clara Province</td> <td>Cuba</td> <td>21.95000</td> <td>-79.17000</td> <td>1.3000</td> <td>Testudo</td> <td>Testudo cubensis</td> <td>Leidy, 1868</td>	Casimba de Jatibonica, Santa Clara Province	Cuba	21.95000	-79.17000	1.3000	Testudo	Testudo cubensis	Leidy, 1868
Dichonesia   1,0000   1,3000   1,3000   1,3000   1,3000   1,3000   1,3010	Chapepote spring at Banos de Ciego Montero, Santa Clara Province	Cuba	22.34000	-80.40000	1.3005	Testudo	Testudo cubensis	Leidy, 1869
Cuba         23.05000         -81.50000         1.3015         Testudo cubensis         Testudo cubensis           Indonesia         -8.69060         121.09970         1.0200         Colossochelys         Colossochelys sp.           Italy         41.80000         15.40000         1.2500         Golperus         Curotestudo hermanni           USA         27.70000         -82.50000         1.250         Gopherus         Gopherus polyphermus           USA         27.70000         -82.50000         1.250         Hesperotestudo crassiscutata         Hesperotestudo crassiscutata           USA         27.70000         -82.50000         1.250         Hesperotestudo crassiscutata         Hesperotestudo crassiscutata           USA         37.61670         -0.86670         1.500         Gopherus         Gopherus sp.           USA         33.00000         -1.065000         1.350         Gopherus         Gopherus sp.           V-Baza, Grenade         Spain         37.5000         -1.065000         1.300         Gopherus         Gopherus cr. sp.           V-Baza, Grenade         Spain         37.5000         -1.06500         1.300         Gopherus         Gopherus cr. sp.           USA         Spain         32.00000         -1.05000         1.700	Tangi Talo, Dhozo Dhalu, Flores	Indonesia	-8.70000	121.10000	1.3000	Geochelone	Geochelone sp.	Fitzinger, 1835
Indonesia   18,0906   12,109970   1,0200   Colossochelys Sp.   1,0200   Lindestudo Hermanni   Liay   Lisa	Hato Nuevo, Matanzas Province	Cuba	23.05000	-81.50000	1.3015	Testudo	Testudo cubensis	Leidy, 1870
ltaly 6.1.80000 15.40000 1.5000 Gopherus Gopherus Gopherus DISA 27.70000 22.50000 1.2500 Gopherus Gopherus polyphemus 27.70000 27.70000 1.2500 Gopherus Gopherus polyphemus 27.70000 27.70000 1.2500 Hesperotestudo crassiscutata 27.70000 27.70000 1.2500 1.2500 Hesperotestudo crassiscutata 27.70000 27.70000 1.2500 1.2500 Hesperotestudo crassiscutata 27.70000 1.05.6000 1.2500 Hesperotestudo crassiscutata 27.70000 1.05.6000 1.2500 Gopherus Gopherus Spain 37.61670 1.06.50000 1.3500 Gopherus Gopherus Sp. Gopherus S	Wolo Sege, Flores	Indonesia	-8.69060	121.09970	1.0200	Colossochelys	Colossochelys sp.	Falconer & Cautley, 1844
USA         27.70000         -82.50000         1.2500         Gopherus         Gopherus polyphemus           USA         27.70000         -82.50000         1.2500         Hesperotestudo crassiscutata           USA         27.70000         -82.50000         1.2500         Hesperotestudo crassiscutata           USA         27.70000         -82.50000         1.2500         Hesperotestudo crassiscutata           USA         27.70000         -0.86670         1.1500         Eurotestudo hermanni           USA         33.00000         -106.50000         1.3500         Gopherus         Gopherus sp.           USA         33.00000         -106.50000         1.4000         Gopherus         Gopherus ? sp.           NSBaza, Grenade         Spain         37.5000         -106.50000         1.4000         Hesperotestudo sp.           VSBaza, Grenade         Spain         37.5000         -106.49000         1.3000         Hesperotestudo sp.           USA         32.00000         -106.7000         1.3000         Brotherus ct. sp.           USA         32.00000         -106.7000         1.7000         Gopherus ct. sp.           USA         32.00000         -106.7000         1.7000         Hesperotestudo sp.           USA         <	Gervasio 5 (FG)	Italy	41.80000	15.40000	1.4000	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
USA         27.70000         -82.50000         1.250         Hesperotestudo         Hesperotestudo crassiscutata           USA         27.70000         -82.50000         1.250         Hesperotestudo         Hesperotestudo crassiscutata           USA         27.70000         -82.50000         1.250         Hesperotestudo         Hesperotestudo crassiscutata           USA         37.61670         -0.86670         1.150         Eurotestudo         Hesperotestudo permanni           USA         33.0000         -106.50000         1.350         Gopherus sp.         Hesperotestudo permanni           USA         33.0000         -106.50000         1.350         Hesperotestudo permanni         Hesperotestudo sp.           VSA         31.7600         -106.4900         1.4000         Gopherus s p.         Hesperotestudo sp.           VSA         37.6000         -106.4900         1.4000         Hesperotestudo sp.         Pestudo sp.           VSA         37.6000         -106.61670         1.4000         Hesperotestudo sp.         Pestudo sp.           VSA         Spain         37.5000         -1.0500         1.3500         Gopherus s c.         Burotestudo sp.           USA         USA         32.00000         -106.7000         1.7000         Hesperotes	Leisey Shell Pit 1A, Hillsborough County, Florida	NSA	27.70000	-82.50000	1.2500	Gopherus	Gopherus polyphemus	(Daudin, 1803)
USA         27.70000         -82.50000         1.250         Hesperotestudo         Hesperotestudo crassiscutata           USA         27.70000         -82.50000         1.250         Hesperotestudo         Hesperotestudo crassiscutata           USA         37.61670         -0.86670         1.150         Eurotestudo         Eurotestudo hermanni           USA         33.00000         -106.50000         1.350         Gopherus         Gopherus sp.           USA         31.7600         -106.50000         1.4000         Gopherus         Gopherus ? sp.           VSA         31.7600         -106.61670         1.4000         Hesperotestudo sp.         Pesperotestudo sp.           x-Baza, Grenade         Spain         37.5000         -106.61670         1.4000         Hesperotestudo sp.           USA         38.30000         -1.05000         1.3000         Festudo sp.         Testudo sp.           USA         38.30000         -1.05000         1.7000         Gopherus cf. sp.           USA         32.00000         -1.06.70000         1.7000         Hesperotestudo sp.           USA         32.00000         -1.06.70000         1.7000         Hesperotestudo sp.	Leisey Shell Pit 2, Hillsborough County, Florida	NSA	27.70000	-82.50000	1.2500	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)
USA         27.70000         -82.50000         1.250         Hesperotestudo         Hesperotestudo crassiscutata           Spain         37.61670         -0.86670         1.1500         Eurotestudo         Eurotestudo hermanni           USA         33.00000         -106.50000         1.3500         Hesperotestudo sp.         Perperotestudo sp.           vSA         33.00000         -106.50000         1.3500         Hesperotestudo sp.         Perperotestudo sp.           vSAsaza, Grenade         USA         37.76000         -106.50000         1.4000         Hesperotestudo sp.           xSaza, Grenade         Spain         37.50000         -1.06.1670         1.4000         Hesperotestudo sp.           uSA         32.00000         -1.05000         1.3500         Eurotestudo permanni           uSA         32.00000         -1.05000         1.7000         Gopherus cf. sp.           uSA         32.00000         -1.06.70000         1.7000         Hesperotestudo sp.           uSA         32.00000         -106.70000         1.7000         Hesperotestudo sp.	Leisey Shell Pit 3, Hillsborough County, Florida	NSA	27.70000	-82.50000	1.2500	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)
Spain         37.61670         -0.86670         1.1500         Eurotestudo         Eurotestudo hermanni           USA         33.00000         -106.50000         1.3500         Gopherus         Gopherus sp.           USA         33.00000         -106.50000         1.3500         Hesperotestudo sp.         Pesperotestudo sp.           x-Baza, Grenade         USA         37.76000         -106.49000         1.4000         Hesperotestudo sp.         Pesperotestudo sp.           x-Baza, Grenade         Spain         37.5000         -106.61670         1.4000         Hesperotestudo sp.         Pestudo sp.           USA         38.30000         -1.05000         1.3500         Eurotestudo perus ci sp.         Gopherus ci sp.           USA         32.00000         -1.05000         1.7000         Gopherus ci sp.         Gopherus ci sp.           USA         32.00000         -106.70000         1.7000         Hesperotestudo sp.         Pesperotestudo sp.	Leisey Shell Pit 3A, Hillsborough County, Florida	NSA	27.70000	-82.50000	1.2500	Hesperotestudo	Hesperotestudo crassiscutata	(Leidy, 1889)
USA         33.00000         -106.50000         1.3500         Gopherus         Gopherus sp.           USA         33.00000         -106.50000         1.3500         Hesperotestudo sp.         Hesperotestudo sp.           x-Baza, Grenade         USA         31.76000         -106.49000         1.4000         Hesperotestudo sp.           x-Baza, Grenade         Spain         37.5000         -106.49000         1.3000         Hesperotestudo sp.           ysain         Spain         37.5000         -1.0500         1.3500         Eurotestudo hermanni           USA         32.00000         -1.0500         1.7000         Gopherus 7 sp.           USA         32.00000         -1.0500         1.7000         Hesperotestudo sp.           USA         32.00000         -106.70000         1.7000         Hesperotestudo sp.	Cueva de la Victoria-1 (CV-1), Carthagène, Murcia	Spain	37.61670	-0.86670	1.1500	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
USA         33.00000         -106.50000         1.3500         Hesperotestudo sp.           ng the Rio Grande, El Paso County, Texas         USA         31.76000         -106.49000         1.4000         Gopherus         Gopherus ? sp.           x-Baza, Grenade         Spain         35.01670         -106.61670         1.4000         Hesperotestudo sp.         Pestudo sp.           Spain         38.30000         -1.05000         1.3500         Eurotestudo Permanni         Eurotestudo sp.           USA         32.00000         -106.70000         1.7000         Gopherus ? sp.         Gopherus cf. sp.           USA         32.00000         -106.70000         1.7000         Hesperotestudo sp.         Pesperotestudo sp.           USA         31.50000         -106.70000         1.7000         Hesperotestudo sp.	Mesilla Basin Fauna C, Doña Ana County, New Mexico	NSA	33.00000	-106.50000	1.3500	Gopherus	Gopherus sp.	Rafinesque, 1832
vico         USA         31.76000         -106.49000         1.4000         Gopherus         Gopherus ? sp.           vico         USA         35.01670         -106.61670         1.4000         Hesperotestudo         Hesperotestudo sp.           spain         37.50000         -3.00000         1.3000         Testudo         Testudo sp.           USA         32.00000         -106.70000         1.7000         Gopherus         Gopherus cf. sp.           USA         32.00000         -106.70000         1.7000         Hesperotestudo         Hesperotestudo sp.           Ity New Mexico         USA         31.50000         -108.50000         1.7000         Hesperotestudo sp.	Mesilla Basin Fauna C, Doña Ana County, New Mexico	NSA	33.00000	-106.50000	1.3500	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
kico         USA         35.01670         -106.61670         1.4000         Hesperotestudo sp.           sion de Guadix-Baza, Grenade         Spain         37.50000         -3.00000         1.3000         Testudo         Testudo sp.           USA         32.00000         -1.057000         1.7000         Gopherus         Gopherus cf. sp.           USA         32.00000         -106.70000         1.7000         Hesperotestudo         Hesperotestudo sp.           Iy, New Mexico         USA         31.50000         -108.50000         -1.08.50000         1.7000         Hesperotestudo sp.	El Paso, eastern side of the Franklin Mountains and along the Rio Grande, El Paso County, Texas	NSA	31.76000	-106.49000	1.4000	Gopherus	Gopherus ? sp.	Rafinesque, 1832
spain         Spain         37.50000         -3.00000         1.3000         Testudo sp.           USA         32.00000         -1.05000         1.7000         Gopherus         Gopherus cf. sp.           USA         32.00000         -106.70000         1.7000         Hesperotestudo         Hesperotestudo sp.           IY, New Mexico         USA         31.50000         -108.50000         -1.7000         Hesperotestudo sp.	Tijeras Arroyo, Bernalillo County, New Mexico	NSA	35.01670	-106.61670	1.4000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Spain         38.30000         -1.05000         1.3500         Eurotestudo         Eurotestudo hermanni           USA         32.00000         -106.70000         1.7000         Gopherus         Gopherus of. sp.           USA         32.00000         -106.70000         1.7000         Hesperotestudo         Hesperotestudo sp.           Ity New Mexico         USA         31.50000         -108.50000         1.7000         Hesperotestudo sp.	Barranco León 5 (BL-5=Capa D), Dépression de Guadix-Baza, Grenade	Spain	37.50000	-3.00000	1.3000	Testudo	Testudo sp.	Linnaeus, 1758
USA 32.00000 -106.70000 1.7000 Gopherus cf. sp. USA 32.00000 -106.70000 1.7000 Hesperotestudo sp. USA 31.50000 -108.50000 1.7000 Hesperotestudo Pesperotestudo sp.	Sierra de Quibas, Abanilla, Murcia	Spain	38.30000	-1.05000	1.3500	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
USA 32.00000 -106.70000 1.7000 Hesperotestudo sp. USA 31.50000 -108.50000 1.7000 Hesperotestudo sp.	La Union, Doña Ana County, New Mexico	NSA	32.00000	-106.70000	1.7000	Gopherus	Gopherus cf. sp.	Rafinesque, 1832
USA 31.50000 -108.50000 1.7000 Hesperotestudo Pesperotestudo sp.	La Union, Doña Ana County, New Mexico	NSA	32.00000	-106.70000	1.7000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
	Pearson Mesa near Virden, Hidalgo County, New Mexico	NSA	31.50000	-108.50000	1.7000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950

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Greece         38,90000         22,60000         1,7200         Trestudo         Trestudo mestado         Trestudo mestado           Hungary         4,616700         11,2600         Trestudo         Trestudo estado         Trestudo pobosas           Inaly         4,516700         11,6000         Emuneando         Emuneando         Emuneando           Inaly         4,516700         11,0000         1,8000         Emuneando         Emuneando pobosas           Inaly         4,516700         1,2000         Emuneando         Emuneando pobosas           Inaly         4,520000         1,00000         Emuneando         Emuneando pobosas           Inaly         4,50000         1,00000         Emuneando         Emuneando pobosas           Inaly         4,50000         1,0000         Emuneando         Emuneando pobosas           Inaly         4,50000         582,000         2,200         Gendrein         Emuneando pobosas           USA         2,70000         2,2500         Gendrein         Emuneando pobosas           USA         2,70000         2,2500         Emuneando         Incentando control           USA         2,70000         2,2500         2,2500         Gendrein         Incentando           USA	Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Hungary 43.617000 18.4000 Tiestucho Euroreatudo phobasa laby 43.0000 11.00000 Euroreatudo phobasa laby 43.0000 12.0000 Euroreatudo phobasa laby 43.0000 12.0000 13.000 Euroreatudo phobasa laby 43.0000 12.0000 13.000 Euroreatudo phobasa laby 43.0000 12.0000 13.000 Euroreatudo phobasa laby 43.0000 12.0000 12.0000 12.0000 Euroreatudo phobasa laby 43.0000 12.0000 1	Lakonia	Greece	36.90000	22.60000	1.7200	Testudo	Testudo marginata	Schoepff, 1792
Italy	Kisláng, Fejer	Hungary	47.00000	18.40000	1.9000	Testudo	Testudo sp.	Linnaeus, 1758
lialy         45,00000         11,00000         1,8000         Eunorestudo pobosas           lialy         45,00000         11,00000         1,8000         Eurorestudo pobosas           lialy         45,00000         1,00000         1,8000         Eurorestudo pobosas           lialy         42,00000         1,00000         1,8000         Eurorestudo pobosas           USA         42,00000         1,00000         2,0000         Eurorestudo pobosas           USA         27,00000         22,0000         1,8000         Eurorestudo pobosas           USA         27,00000         22,5000         1,8000         Eurorestudo pobosas           USA         27,0000         22,5000         1,8000         Immorbado         Immorbado           USA         27,8000         22,500         22,500         Repaymentario         Repaymentario           Universidad         France         45,3600         22,500         Aquinoremys portifieding           Valores         1,1000         2,2000         Aquinoremys         Adultoremys           Morina         33,2600         2,2000         Aquinoremys         Adultoremys portifieding           Morina         43,2600         1,10000         1,2000         Aquinoremys         Adu	Figline, Upper Valdarno	Italy	43.61670	11.46670	1.8000	Eurotestudo	Eurotestudo globosa	(Portis, 1890)
laby         45,00000         11,00000         Linoteshudo         Euroreshudo pobosas           laby         45,00000         11,00000         1,8000         Euroreshudo pobosas           laby         42,26000         1,8000         Euroreshudo         Euroreshudo pobosas           laby         42,26000         1,8000         Euroreshudo         Euroreshudo pobosas           Bagaria         42,26000         98,20000         2,800         Euroreshudo pobosas         Euroreshudo pobosas           USA         42,26000         98,20000         2,800         Inchestudo pobosas         Euroreshudo pobosas           USA         27,4000         98,20000         2,250         1,800         Euroreshudo chi remanni           USA         27,4000         98,20000         2,250         Geochielone sp.         Ferroreshudo chi remanni           USA         27,4000         98,20000         2,250         Geochielone sp.         Turoreshudo chi remanni           Fance         45,8000         98,72350         1,455         2,800         Geochielone sp.         Turoreshudo chi remanni           Fance         45,8000         1,155         2,800         1,400         Geochielone sp.         Turoreshudo chi remanni           Lina         4,400	Il Tasso, S. Giovanni (AR), Upper Valdarno	Italy	43.00000	11.00000	1.8000	Eurotestudo	Eurotestudo globosa	(Portis, 1890)
liaby         45,48230         12,08330         1,8000         Eunotestudo globosa           liaby         45,48230         1,8000         Eunotestudo globosa           liaby         45,28670         1,8000         Eunotestudo globosa           USA         42,4000         1,8000         Eunotestudo globosa           Bulgaria         42,4000         1,8000         Eunotestudo globosa           USA         27,8000         2,800         Eunotestudo globosa           USA         27,8000         2,800         2,800         Geochelone         Eurotestudo globosa           USA         27,8000         22,800         2,800         Geochelone         Eurotestudo culturi           Usa         27,8000         58,5000         2,200         Geochelone         Geochelone sp.           Usa         27,8000         28,2000         2,200         Aquionemys         Aquionemys hordiedis           Usa         27,8000         38,749         2,800         1,800         1,800         Instructedud         Instructedud culturin           Usa         27,8000         28,500         2,200         2,600         1,800         Instructedud         Instructedud culturin           Usa         27,8000         27,800 <th< td=""><td>Le Mignaie, Upper Valdarno</td><td>Italy</td><td>43.00000</td><td>11.00000</td><td>1.8000</td><td>Eurotestudo</td><td>Eurotestudo globosa</td><td>(Portis, 1890)</td></th<>	Le Mignaie, Upper Valdarno	Italy	43.00000	11.00000	1.8000	Eurotestudo	Eurotestudo globosa	(Portis, 1890)
laby         43,0000         11,0000         Linchestudo         Eurotestudo globosa           USA         42,08670         10,68320         2,000         Heroperotestudo calichul           USA         42,08670         0,41670         1,800         Eurotestudo de Eurotestudo calichul           USA         27,4000         92,2000         2,2500         Geochalchera Structus         Heroperotestudo calichul           USA         27,4000         92,2000         2,2500         Geochalchera Structus         Heroperotestudo calichul           USA         27,8000         92,2000         2,2500         Geochalchera Structus         Heroperotestudo calichul           Vinalie         45,3000         98,2000         2,2600         Geochalchera Structus         Heroperotestudo calichul           Vinalie         45,3000         98,2000         2,2600         1,4650         1,4600         Heroperotestudo calichul           Vinalie         45,3000         98,2000         1,4580         3,7400         1,6600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600         1,7600	Le Ville, Upper Valdarno	Italy	43.48330	12.08330	1.8000	Eurotestudo	Eurotestudo globosa	(Portis, 1890)
USA         42,8670         10,8833         1,8000         Eurorestudo         Eurorestudo <td>L'Inferno, Upper Valdarno</td> <td>Italy</td> <td>43.00000</td> <td>11.00000</td> <td>1.8000</td> <td>Eurotestudo</td> <td>Eurotestudo globosa</td> <td>(Portis, 1890)</td>	L'Inferno, Upper Valdarno	Italy	43.00000	11.00000	1.8000	Eurotestudo	Eurotestudo globosa	(Portis, 1890)
USA         42,40000         48,20000         2,000         Haspenteestudo delichi Hespenteestudo celichi Perree         Hance         43,06670         2,41570         1,9300         Eurotestudo Eurotestudo celichi Perree         Hancello Bulgarie         43,06670         2,22,830         2,2500         Testudos Perrentania         Peratudos Pera	Montecarlo, Upper Valdarno	Italy	42.86670	10.68330	1.8000	Eurotestudo	Eurotestudo globosa	(Portis, 1890)
Hance         43.06670         0.41670         1.9500         Euroteshudo of, hemaani           Bulgaria         21.40000         22.5000         2.2500         Geochelone         Geochelone sp.           USA         27.40000         -82.50000         2.2500         Geochelone         Geochelone sp.           USA         27.80000         -82.70000         2.2500         Geochelone         Geochelone sp.           USA         27.80000         -82.70000         2.2500         Geochelone         Geochelone sp.           USA         38.72550         1.45520         2.2600         Tiantochelon of, gymnestus           USA         45.98670         1.88330         0.2800         Tiantochelon of, gymnestus           USA         1.438740         10.23352         3.000         Aldabrachelys         Agritochenys horateledid           USA         34.9000         -10.160000         2.700         Aldabrachelys         Agritochenys         Agritochenys           USA         32.9700         -10.160000         2.350         Gopherus         Gopherus           USA         32.9700         -10.18000         3.350         Gopherus         Gopherus           USA         32.9700         -10.18000         3.350         Gopherus </td <td>Big Springs Gravel Pit (UNSM Ap-103), Antelope County, Nebraska</td> <td>NSA</td> <td>42.40000</td> <td>-98.20000</td> <td>2.0000</td> <td>Hesperotestudo</td> <td>Hesperotestudo oelrichi</td> <td>Holman, 1972</td>	Big Springs Gravel Pit (UNSM Ap-103), Antelope County, Nebraska	NSA	42.40000	-98.20000	2.0000	Hesperotestudo	Hesperotestudo oelrichi	Holman, 1972
Bulgaria         43.21670         23.28380         2.2500         Featudo per leatudo sp.         Inchrido per leatudo sp.           USA         27.40000         82.50000         2.2500         Geochelone         Geochelone sp.           USA         27.40000         58.50000         2.2500         Geochelone         Geochelone sp.           UKA         38.72850         1.45820         2.6000         Tilancohelon         Tilancohelon of gymnesicus           UKaine         46.5600         30.79170         2.6000         Tilancohelon of gymnesicus           UKaine         46.5600         30.79170         2.6000         Tilancohelon of gymnesicus           UKaine         46.5600         30.79170         2.6000         Tilancohelon of gymnesicus           UKaine         14.38740         1.48830         0.4155         Eurode more of gophers carryonensis           USA         34.9000         11.16000         3.500         Gopherus         Gopherus carryonensis           USA         32.9700         101.50000         3.350         Gopherus         Gopherus carryonensis           USA         32.9700         1.01.50000         3.350         Gopherus         Gopherus carryonensis           USA         32.9700         1.01.50000         2.8000<	Montoussé 5, Hautes Pyrenees	France	43.06670	0.41670	1.9500	Eurotestudo	Eurotestudo cf. hermanni	(Gmelin, 1789)
USA         27,40000         22,5000         2,2500         Geochelone Sp.           USA         1,58000         2,2500         Geochelone         Geochelone Sp.           Ushan         37,8000         2,2500         Agrinomys         Agrinomys hostielii           Ukarie         38,5000         2,200         Agrinomys         Agrinomys hostielii           Ukarie         45,5600         1,48870         2,600         Tilanochelon d. gymestous           Ukarie         45,36670         1,18830         2,600         Tilanochelon d. gymestous           Usha         1,7980         38,748         0,0685         Testudo         Testudo sp.           USA         3,7980         10,2352         3,000         Gopherus         Gopherus sp.           USA         34,9000         -101,3000         2,000         Gopherus         Gopherus sp.           USA         32,9700         -107,3100         2,000         Gopherus         Gopherus sp.           USA         32,9700         -107,3100         2,000         Gopherus         Gopherus sp.           USA         32,9700         -107,3100         2,000         Gopherus         Gopherus sp.           Mexico         2,1000         2,2800         1,000 </td <td>Varshets 6 km NNE, Michajlovrad Province</td> <td>Bulgaria</td> <td>43.21670</td> <td>23.28330</td> <td>2.2500</td> <td>Testudo</td> <td>Testudo sp.</td> <td>Linnaeus, 1758</td>	Varshets 6 km NNE, Michajlovrad Province	Bulgaria	43.21670	23.28330	2.2500	Testudo	Testudo sp.	Linnaeus, 1758
USA         27,80000         58,50000         2,2500         Geochelone Sp.           Inkrimenistan         38,72350         1,45520         2,6000         Agrinomys Rosiledii           Spain         38,72350         1,45520         2,6000         Thamochelon of gymnesicus           Ukraine         46,5600         1,88330         0,4135         Eurodestudo Pratudo Pr	MacAsphalt Shell Pit, Sarasota County, Florida	NSA	27.40000	-82.50000	2.2500	Geochelone	Geochelone sp.	Fitzinger, 1835
Spain         37,80000         58,8000         2,2000         Agrinonemys         Agrinomenys horsheldii           Spain         38,72550         1,45520         1,45520         Tianochelon         Tianochelon of, gymnesicus           Ukraine         45,56000         30,79170         2,6000         Tianochelon         Tianochelon of, gymnesicus           Parce         45,36670         1,8830         30,79170         2,6000         Teutoeshudo         Teutoriashudo hermani           Parce         43,36670         1,186000         2,600         Aldabrachelys         78p.           USA         14,9874         101,86000         2,700         Gopherus         Gopherus           USA         34,9000         101,66000         2,000         Hesperotestudo phrensis           USA         32,9700         101,6000         3,550         Hesperotestudo phrensis           USA         32,9700         101,6000         3,550         Gopherus         Gopherus canyonensis           Mokova         23,9700         101,6000         3,550         Hesperotestudo phrensis           Mokova         45,5200         28,400         101,6000         3,550         Hesperotestudo phrensis           Mokova         45,5200         28,980         3,56	St. Petersburg Times Site, Pinellas County, Florida	NSA	27.80000	-82.70000	2.2500	Geochelone	Geochelone sp.	Fitzinger, 1835
Spain         38,72350         145520         26000         Tilanochelon of gymnesicus           Ukraine         46,5600         30,79170         26000         Tilanochelon of gymnesicus           France         45,3667         1,88330         0,4135         Eurotestudo hermanni           France         45,3667         1,88330         0,4135         Eurotestudo hermanni           France         14,9874         102,33520         3,0000         Aldabrachelys         Restudos per Lastracho per La	Kelatchay (Dushak)	Turkmenistan	37.80000	58.50000	2.2000	Agrionemys	Agrionemys horsfieldii	(Gray, 1844)
Okraine         46.56000         30.79170         2.6000         Featudo per lastudo per la	Es Pujol d'es Fum, Formentera	Spain	38.72350	1.45520	2.6000	Titanochelon	Titanochelon cf. gymnesicus	(Bate, 1914)
Value         45.36670         1.88330         0.4135         Eurotestudo         Eurotestudo hermanni           Prance         43.79980         3.87460         0.0685         Testudo         Testudo sp.           USA         14.98740         102.33520         3.0000         Addabrachelys 7 sp.         14.98740           USA         34.90000         -101.60000         2.7000         Gopherus         Gopherus canyonensis           USA         32.9700         -107.3100         2.0000         Hesperotestudo phrastoni           USA         32.9700         -107.3100         2.0000         Hesperotestudo sp.           USA         32.9700         -107.3100         2.000         Hesperotestudo sp.           Mexico         23.1833         -109.18330         3.260         Gopherus sp.           Modova         23.1830         -109.18330         3.260         Hesperotestudo sp.           Modova         45.5200         28.4400         2.800         19studo sp.         Tianochelon bacharidisi           Greece         40.4046         22.8980         3.950         Tianochelon         Tianochelon bacharidisi           Greece         40.4046         22.8980         3.950         Tianochelon bacharidisi           Greece	Kryshanovka 1	Ukraine	46.56000	30.79170	2.6000	Testudo	Testudo sp.	Linnaeus, 1758
ovince         Haniland         43.79980         3.87460         0.0685         Testudo sp.         Instiland         14.38740         102.33520         3.0000         Aldabrachelys ? sp.         Popherus canyonensis           USA         34.90000         -101.60000         2.7000         Gopherus         Gopherus canyonensis           USA         32.97000         -101.60000         3.350         Hesperotestudo phnstoni           USA         32.97000         -107.31000         2.0000         Gopherus         Gopherus canyonensis           USA         32.97000         -107.31000         2.0000         Hesperotestudo phnstoni           Mexico         107.3100         2.0000         Hesperotestudo comovi           Mexico         107.3100         2.000         Hesperotestudo comovi           Moddova         45.52000         1-107.3100         1-107.010         1-107.010           Greece         40.40460         22.8980         3.950         Intanochelon bacharidisi           Greece         40.40460         22.8980         3.950         Intanochelon bacharidisi           Greece         40.40460         22.8980         3.950         Intanochelon bacharidisi           Greece         40.47310         21.4756         2.600	Abime de la Fage, Correze	France	45.36670	1.88330	0.4135	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
ovince         Thailand         14,98740         102,33520         3,0000         Aldabrachelys Aldabrachelys Psp.           USA         34,90000         -101,60000         2,7000         Gopherus         Gopherus canyonensis           USA         34,90000         -101,60000         2,7000         Gopherus         Gopherus canyonensis           USA         32,97000         -107,31000         2,0000         Hesperiotestudo phristoni           USA         32,9700         -101,60000         2,0000         Hesperiotestudo phrenus sp.           Mokico         23,9700         -101,60000         3,3500         Gopherus         Gopherus canyonensis           Mokico         23,9700         -101,60000         3,3500         Hesperiotestudo sp.         Hesperiotestudo sp.           Mokico         23,1833         -101,8000         2,800         Hesperiotestudo sp.         Tiando-chelon bacharidisi           Greece         40,4046         22,8980         3,950         Tianochelon bacharidisi         Tianochelon bacharidisi           Greece         40,4046         22,8980         3,950         Tianochelon bacharidisi         Tianochelon bacharidisi           Greece         40,4046         22,8980         3,950         Tianochelon pacharidisi           Greece	Hortus Cave, Valflaunès, Herault	France	43.79980	3.87460	0.0685	Testudo	Testudo sp.	Linnaeus, 1758
USA         34,90000         -101,60000         2,7000         Gopherus         Gopherus canyonensis           USA         34,90000         -101,60000         3,350         Hesperotestudo johnstoni           USA         32,97000         -107,31000         2,000         Gopherus         Gopherus sp.           USA         32,97000         -107,31000         2,000         Hesperotestudo johnstoni           USA         34,90000         -101,60000         3,350         Gopherus         Gopherus sp.           Moxico         23,18330         -109,18330         3,250         Hesperotestudo sp.         Gopherus canyonensis           Moxico         23,18330         -109,18330         3,250         Hesperotestudo sp.         Hesperotestudo sp.           Moxico         23,18330         -109,18330         3,250         Hesperotestudo sp.         Hesperotestudo sp.           Greece         40,40460         22,89800         3,950         Titanochelon acharidisi           Greece         40,40460         22,89800         3,950         Titanochelon acharidisi           Greece         40,40460         22,89800         3,950         Titanochelon acharidisi           Greece         40,47100         22,89800         3,950         Titanochelon acharidisi	Tha Chang area, Chaloem Pra Kiat district, Nakhon Ratchasima Province	Thailand	14.98740	102.33520	3.0000	Aldabrachelys	Aldabrachelys ? sp.	Loveridge & Williams, 1975
USA         34,90000         -101,60000         3.3500         Hesperotestudo johnstoni           USA         32,97000         -107,31000         2.0000         Gopherus         Gopherus sp.           USA         32,97000         -107,31000         2.0000         Hesperotestudo sp.           USA         34,90000         -107,31000         2.000         Hesperotestudo sp.           Mokidova         23,18330         -109,18330         3.250         Hesperotestudo sp.           Mokidova         45,52000         28,44000         2.800         Tistudo ermovi           Greece         40,40460         22,89800         3.950         Titanochelon bacharidisi           Greece         40,4750         22,89800         3.950         Titanochelon b	North Cita Canyon (Middle Stratum), Randall County, Texas	NSA	34.90000	-101.60000	2.7000	Gopherus	Gopherus canyonensis	(Johnston, 1937)
USA         32.97000         -107.31000         C.0000         Gopherus         Gopherus sp.           USA         32.97000         -107.31000         2.0000         Hesperotestudo         Hesperotestudo sp.           USA         34.9000         -101.60000         3.3500         Gopherus         Gopherus canyonensis           Mexico         23.18330         -109.18330         3.2500         Hesperotestudo sp.           Moldova         45.52000         22.89800         3.9500         Titanochelon Berentaridisi           Greece         40.40460         22.89800         3.9500         Titanochelon Berentaridisi           Mongolia         47.10000         93.16670         3.9500         Titanochelon Berentaridisi           Greece         40.47310         22.89800         3.9500         Titanochelon Berentaridisi           Greece         40.47310         22.89800         3.9500         Titanochelon Berentaridisi           Greece         40.47310         21.47560         2.6000         Titanochelon Berentaridisi           Greece         40.17910         21.47560         2.6000         Titanochelon Berentaridisi           USA         42.70000         -100.00000         3.0000         Hesperotestudo edirchi           Spain	Cita Canyon, UCMP V-3721, Harrell Ranch, Randall County, Texas	USA	34.90000	-101.60000	3.3500	Hesperotestudo	Hesperotestudo johnstoni	Auffenberg, 1962
USA         32.97000         -107.31000         2.0000         Hesperotestudo sp.           USA         34.9000         -101.6000         3.350         Gopherus         Gopherus canyonensis           Mexico         23.18330         -109.18330         3.2500         Hesperotestudo sp.         Hesperotestudo sp.           Moldova         45.52000         28.44000         2.8000         18600         1etudo         Hesperotestudo sp.           Greece         40.40460         22.8980         3.9500         Titanochelon bacharidisi         Titanochelon bacharidisi           Greece         40.40460         22.8980         3.9500         Titanochelon bacharidisi         Titanochelon bacharidisi           Greece         40.40460         22.8980         3.9500         Titanochelon bacharidisi           Greece         40.31460         22.8980         3.9500         Titanochelon bacharidisi           Greece         40.47310         22.83850         3.9500         Titanochelon pacharidisi           Greece         40.17910         21.47560         2.6000         Titanochelon sp.           USA         42.7000         -100.00000         3.0000         Hesperotestudo riggis           Spain         40.5000         2.8800         3.9000         Tita	Caballo Local Fauna, Palomas Basin, Sierra County, New Mexico	USA	32.97000	-107.31000	2.0000	Gopherus	Gopherus sp.	Rafinesque, 1832
USA         34,90000         -101.60000         3.3500         Gopherus         Gopherus canyonensis           Mexico         23.18330         -109.18330         3.250         Hesperotestudo         Hesperotestudo sp.           Moldova         45.52000         28.44000         2.800         Testudo         Testudo cemovi           Greece         40.40460         22.89800         3.9500         Titanochelon Bacharidisi         Titanochelon bacharidisi           Mongolia         47.1000         93.16670         3.9500         Titanochelon bacharidisi         Titanochelon bacharidisi           Greece         40.4046         22.8980         3.9500         Titanochelon bacharidisi         Titanochelon bacharidisi           Greece         40.47310         22.8980         3.9500         Titanochelon bacharidisi           Greece         40.47310         22.83850         3.9500         Titanochelon bacharidisi           Greece         40.17910         21.47560         2.6000         Tistanochelon bacharidisi           USA         40.17910         21.47560         2.6000         Hesperotestudo oelirchi           USA         37.0000         -100.0000         3.0000         Hesperotestudo oelirchi           Bain         4.2.88000         3.9600 <td< td=""><td>Caballo Local Fauna, Palomas Basin, Sierra County, New Mexico</td><td>USA</td><td>32.97000</td><td>-107.31000</td><td>2.0000</td><td>Hesperotestudo</td><td>Hesperotestudo sp.</td><td>Williams, 1950</td></td<>	Caballo Local Fauna, Palomas Basin, Sierra County, New Mexico	USA	32.97000	-107.31000	2.0000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Mexico         23.18330         -109.18330         3.2500         Hesperotestudo         Hesperotestudo sp.           Moldova         45.52000         28.4400         2.800         Tistudo         Testudo cernovi           Greece         40.40460         22.8980         3.950         Titanochelon         Titanochelon bacharidisi           Mongolia         47.1000         93.16670         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.47310         22.89800         3.9500         Titanochelon bacharidisi           Greece         40.47310         22.83850         3.9500         Titanochelon bacharidisi           Greece         40.47310         22.83850         3.9500         Titanochelon bacharidisi           Greece         40.47310         21.47560         2.6000         Testudo bravitesta           Greece         40.17910         21.47560         2.6000         Titanochelon pacharidisi           USA         42.70000         -100.0000         3.0000         Hesperotestudo oelrichi           USA         37.00000         -100.0000         3.0000         Hesperotestudo oelrichi           Spain         42.88000         3.9000         Titanochelon         Titanochelon pacharidisi	Cita Canyon, UCMP V-3721, Harrell Ranch, Randall County, Texas	NSA	34.90000	-101.60000	3.3500	Gopherus	Gopherus canyonensis	(Johnston, 1937)
Moldova         45.52000         28.44000         2.8000         Testudo         Testudo cemovi           Greece         40.40460         22.89800         3.950         Titanochelon         Titanochelon bacharidisi           Mongolia         47.10000         93.16670         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.40460         22.89800         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.31460         22.83850         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.47310         22.83850         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.47310         21.47560         2.6000         Titanochelon         Titanochelon bacharidisi           Greece         40.17910         21.47560         2.6000         Titanochelon         Titanochelon bacharidisi           USA         42.70000         -100.00000         3.0000         Hesperotestudo oelirchi           Spain         42.8000         -100.00000         3.0000         Hesperotestudo oelirchi           Branchelon partiniana         11tanochelon         Titanochelon proteion gymichi	Las Tunas, Baja California Sur	Mexico	23.18330	-109.18330	3.2500	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Greece         40,40460         22.89800         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40,40460         22.89800         3.950         Titanochelon         Titanochelon bacharidisi           Mongolia         47.10000         93.16670         3.950         Titanochelon         Titanochelon bacharidisi           Greece         40.31460         22.83850         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.47310         22.83850         3.9500         Titanochelon bacharidisi           Greece         40.17910         21.47560         2.6000         Testudo brevitesta           Greece         40.17910         21.47560         2.6000         Titanochelon pacharidisi           USA         42.70000         -100.00000         3.0000         Hesperotestudo oelirchi           USA         37.00000         -100.00000         3.0000         Hesperotestudo riggsi           Spain         42.88000         3.9600         Titanochelon         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon         Titanochelon perpiniana	Novaya Etulia 2	Moldova	45.52000	28.44000	2.8000	Testudo	Testudo cernovi	Khozatskiy, 1948
Greece         40,40460         22.89800         3.9500         Titanochelon         Titanochelon bacharidisi           Mongolia         47.10000         93.16670         3.950         Trianochelon         Titanochelon bacharidisi           Greece         40.31460         22.83650         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.47310         22.83850         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.47310         21.47560         2.6000         Titanochelon         Titanochelon bacharidisi           Greece         40.17910         21.47560         2.6000         Titanochelon         Titanochelon sp.           USA         42.70000         -100.00000         3.0000         Hesperotestudo oelirchi           USA         37.0000         -100.00000         3.0000         Hesperotestudo riggsi           Spain         42.88000         3.8000         Titanochelon         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon prepriniana	Epanomi (EPN I), western Chalkidiki Peninsula, Thessaloniki area	Greece	40.40460	22.89800	3.9500	Titanochelon	Titanochelon bacharidisi	(Vlachos, Tsoukala & Corsini, 2014)
area         Greece         47.10000         93.16670         3.9500         Ergilemys         Ergilemys oskarkuhni           ki area         Greece         40.31460         23.04620         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.47310         22.83850         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.17310         21.47560         2.6000         Tisanochelon         Titanochelon bacharidisi           Greece         40.17910         21.47560         2.6000         Tisanochelon         Titanochelon sp.           USA         42.70000         -100.00000         3.0000         Hesperotestudo oelirchi           USA         37.00000         -100.00000         3.0000         Hesperotestudo riggsi           Spain         40.0500         3.82600         4.4500         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon prepriniana	Epanomi (EPN II), western Chalkidiki Peninsula, Thessaloniki area	Greece	40.40460	22.89800	3.9500	Titanochelon	Titanochelon bacharidisi	(Vlachos, Tsoukala & Corsini, 2014)
area         Greece         40.31460         23.04620         3.9500         Titanochelon         Titanochelon bacharidisi           ki area         Greece         40.47310         22.83850         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.17910         21.47560         2.6000         Titanochelon         Titanochelon pacharidisi           JSA         42.7000         -100.0000         3.0000         Hesperotestudo oelirchi         Hesperotestudo oelirchi           JSA         37.0000         -100.00000         3.0000         Hesperotestudo riggsi           Spain         40.0500         3.82600         4.4500         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon Titanochelon perpiniana	Altan-Teli main fossiliferous bed (Dzereg valley)	Mongolia	47.10000	93.16670	3.9500	Ergilemys	Ergilemys oskarkuhni	M?ynarski(, 1968)
ki area         Greece         40.47310         22.83850         3.9500         Titanochelon         Titanochelon bacharidisi           Greece         40.17910         21.47560         2.6000         Titanochelon         Titanochelon sp.         Inanochelon sp.           USA         42.70000         -100.00000         3.0000         Hesperotestudo elrichi         Insperotestudo riggsi           USA         37.00000         -100.00000         3.0000         Hesperotestudo riggsi         Insperotestudo riggsi           Spain         40.05000         3.82600         4.4500         Titanochelon         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon         Titanochelon perpiniana	Nea Kallikratia, western Chalkidiki Peninsula, Thessaloniki area	Greece	40.31460	23.04620	3.9500	Titanochelon	Titanochelon bacharidisi	(Vlachos, Tsoukala & Corsini, 2014)
Greece         40.17910         21.47560         2.6000         Testudo         Testudo brevitesta           Greece         40.17910         21.47560         2.6000         Titanochelon         Titanochelon sp.           USA         42.70000         -100.00000         3.0000         Hesperotestudo         Hesperotestudo oelrichi           USA         37.0000         -100.00000         3.0000         Hesperotestudo iggsi           Spain         40.05000         3.82600         4.4500         Titanochelon         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon         Titanochelon perpiniana	Nea Michaniona, western Chalkidiki Peninsula, Thessaloniki area	Greece	40.47310	22.83850	3.9500	Titanochelon	Titanochelon bacharidisi	(Vlachos, Tsoukala & Corsini, 2014)
Greece         40.17910         21.47560         2.6000         Titanochelon         Titanochelon sp.           USA         42.70000         -100.00000         3.0000         Hesperotestudo         Hesperotestudo cerirchi           USA         37.0000         -100.00000         3.0000         Hesperotestudo         Hesperotestudo riggsi           Spain         40.0500         3.8260         4.4500         Titanochelon         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon         Titanochelon perpiniana	Milia, Grevena, W Macedonia	Greece	40.17910	21.47560	2.6000	Testudo	Testudo brevitesta	Vlachos & Tsoukala, 2016
USA         42.70000         -100.00000         3.0000         Hesperotestudo Perotestudo oelrichi           USA         37.0000         -100.0000         3.0000         Hesperotestudo perotestudo riggsi           Spain         40.0500         3.82600         4.4500         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon perpiniana	Milia, Grevena, W Macedonia	Greece	40.17910	21.47560	2.6000	Titanochelon	Titanochelon sp.	Pérez-Garcia & Vlachos, 2014
USA         37,00000         -100,00000         3,0000         Hesperotestudo         Hesperotestudo riggsi           Spain         40,0500         3.8260         4,4500         Titanochelon         Titanochelon gymneisucs           France         42.88000         2.88000         3.9000         Titanochelon         Titanochelon perpiniana	Sand Draw local fauna, Brown County, Nebraska	NSA	42.70000	-100.00000	3.0000	Hesperotestudo	Hesperotestudo oelrichi	Holman, 1972
Spain       40.05000       3.82600       4.4500       Titanochelon       Titanochelon gymneisucs         France       42.88000       2.88000       Titanochelon       Titanochelon perpiniana	Sawrock Canyon local fauna, Seward County, Kansas	NSA	37.00000	-100.00000	3.0000	Hesperotestudo	Hesperotestudo riggsi	(Hibbard, 1944)
France 42.88000 2.88000 Thanochelon Titanochelon perpiniana	Cala Es Pous near Ciutadella, Minorca	Spain	40.05000	3.82600	4.4500	Titanochelon	Titanochelon gymneisucs	(Bate, 1914)
	Serrat-d'en-Vacquer near Perpignan, Pyrénées-Orientales	France	42.88000	2.88000	3.9000	Titanochelon	Titanochelon perpiniana	(Depéret, 1885)

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Megalo Emvolon 1 (MEV), 20 km SW Thessaloniki	Greece	40.50170	22.81770	3.9000	Testudo	Testudo cf. graeca	Linnaeus, 1758
Megalo Emvolon 1 (MEV), 20 km SW Thessaloniki	Greece	40.50170	22.81770	3.9000	Testudo	Testudo sp.	Linnaeus, 1758
W??e 1	Poland	52.35000	22.15000	3.9000	Testudo	Testudo sp.	Linnaeus, 1758
Punta Nati near Ciutadella, Minorca	Spain	40.05060	3.82570	4.4500	Titanochelon	Titanochelon gymnesicus	(Bate, 1914)
Lee Creek Mine, Yorktown Sample, Beaufort County, North Carolina	USA	35.40000	-76.80000	4.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Rexroad local fauna (Fox Canyon locality 3), Meade County, Kansas	USA	37.20000	-100.30000	4.5500	Caudochelys	Caudochelys rexroadensis	(Oelrich, 1952)
Rexroad local fauna (Fox Canyon locality 3), Meade County, Kansas	USA	37.20000	-100.30000	4.5500	Hesperotestudo	Hesperotestudo riggsi	(Hibbard, 1944)
Santee, Knox County, Nebraska	USA	42.00000	-97.00000	5.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
W??e1	Poland	52.35000	22.15000	3.9000	Eurotestudo	Eurotestudo globosa	(Portis, 1890)
W??e 1	Poland	52.35000	22.15000	3.9000	Eurotestudo	Eurotestudo hermanni	(Gmelin, 1789)
Farola Monte Hermoso, 12 km SW Pehuen Có Beach, Buenos Aires Province	Argentina	-39.00830	-61.50280	3.9650	Testudo	Chelonoidis australis	Linnaeus, 1758 (p. 198)
Palomas Creek Fauna, Palomas Basin, Sierra County, New Mexico	USA	33.05000	-107.30000	2.8000	Gopherus	Gopherus sp.	Rafinesque, 1832
UCMP V6327, La Porteria, Kettleman Hills, Kings County, California	USA	35.90000	-119.90000	3.1000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Laetoli	Tanzania	-2.99620	35.35240	3.2550	Geochelone	Geochelone laetoliensis	Meylan & Auffenberg, 1987
Laetoli	Tanzania	-2.99620	35.35240	3.2550	Stigmochelys	Stigmochelys brachygularis	(Meylan & Auffenberg, 1987)
Sand Draw local fauna, Brown County, Nebraska	USA	42.70000	-100.00000	3.0000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Sand Draw local fauna, Brown County, Nebraska	USA	42.70000	-100.00000	3.0000	Caudochelys	Caudochelys sp.	Auffenberg, 1963
Cuchillo Negro Creek Local Fauna, Engle Basin, Sierra County, New Mexico	USA	33.19500	-107.25700	3.1000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Elephant Butte Lake Fauna, Engle Basin, Sierra County, New Mexico	USA	33.20000	-107.20000	3.1000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Las Higueruelas, Alcolea de Calatrava, Ciudad Real	Spain	38.98830	-4.08570	3.2000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Las Higueruelas, Alcolea de Calatrava, Ciudad Real	Spain	38.98830	-4.08570	3.2000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Dikika (DIK-1)	Ethiopia	11.10000	40.60000	3.3300	Centrochelys	Centrochelys sp.	Gray, 1872
Jambol, Tenovo or General Insovo sandstone quarries	Bulgaria	42.48000	26.51000	4.4500	Geochelone	Geochelone sp.	Fitzinger, 1835
Montpellier, Hérault	France	42.60840	3.87930	4.4500	Testudo	Testudo sp.	Linnaeus, 1758
Perpignan et sa région, Pyrénées-Orientales	France	42.68330	2.88330	3.9000	Eurotestudo	Eurotestudo pyrenaica	(Depéret & Donnezan, 1890)
Perpignan et sa région, Pyrénées-Orientales	France	42.68330	2.88330	3.9000	Titanochelon	Titanochelon perpiniana	(Depéret, 1885)
Serrat-d'en-Vacquer near Perpignan, Pyrénées-Orientales	France	42.88000	2.88000	3.9000	Eurotestudo	Eurotestudo pyrenaica	(Depéret & Donnezan, 1890)
Musaid right bank of Big Salcha River, Vulkaneshty Region	Moldova	45.82060	28.50500	3.9000	Testudo	Testudo sp.	Linnaeus, 1758
Novo-Savitzkaya	Moldova	46.80610	29.86860	3.9000	Testudo	Testudo cernovi	Khozatskiy, 1948
Liventsovka horizon 5, near Rostov-on-Don	Russia	47.24000	39.71000	3.7000	Testudo	Testudo sp.	Linnaeus, 1758
Novopetrovka	Ukraine	47.04170	29.86500	4.4500	Testudo	Testudo sp.	Linnaeus, 1758
Çalta	Turkey	40.25000	32.55000	4.0000	Testudo	Testudo sp.	Linnaeus, 1758
Ptolemais 6A = Notio 1 (NO 1)	Greece	40.50000	21.75000	3.9400	gen.	gen. indet.	Gray, 1825
Ptolemais 6B = Notio 1	Greece	40.50000	21.75000	3.9400	gen.	gen. indet.	Gray, 1825
Ptolemais 6C = Notio 1 (NO 1)	Greece	40.50000	21.75000	3.9400	gen.	gen. indet.	Gray, 1825
Tchelopetchene 1 (sand facies)	Bulgaria	42.73330	23.48330	4.6500	Testudo	Testudo sp.	Linnaus, 1758
El Arquillo 3 (ARQ3)	Spain	40.40000	-1.10000	4.0300	Geochelone	Geochelone sp.	Fitzinger, 1835

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Kanapoi	Kenya	3.54000	35.87000	4.0700	Geochelone	Geochelone crassa	(Andrews, 1914)
Kanapoi	Kenya	3.54000	35.87000	4.0700	Geochelone	Geochelone cf. sp.	Fitzinger, 1835
Kanapoi	Kenya	3.54000	35.87000	4.0700	Stigmochelys	Stigmochelys sp.	Gray, 1873
Nikolskoe	Moldova	46.87550	29.86140	4.7500	Testudo	Testudo sp.	Linnaeus, 1758
Aramis, ARA-VP-6/500, Middle Awash Valley	Ethiopia	9.00000	40.16670	4.4000	Geochelone	Geochelone sp.	Fitzinger, 1835
Devil's Nest Airstrip, Knox County, Nebraska	USA	42.00000	-97.00000	5.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
Devil's Nest Airstrip, Knox County, Nebraska	USA	42.00000	-97.00000	5.0000	Hesperotestudo	Hesperotestudo aff. sp.	Williams, 1950
Santee, Knox County, Nebraska	USA	42.00000	-97.00000	5.0000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Devil's Nest Airstrip, Knox County, Nebraska	USA	42.00000	-97.00000	5.0000	Caudochelys	Caudochelys aff. rexroadensis	(Oelrich, 1952)
Kuchurgan	Ukraine	46.75000	29.98330	5.0500	Testudo	Testudo cernovi	Khozatskiy, 1948
Kuchurgan	Ukraine	46.75000	29.98330	5.0500	Titanochelon	Titanochelon ex. gr. perpiniana	(Depéret, 1885)
Osztramos 1C	Hungary	48.52500	20.75830	5.1650	Testudo	Testudo ? sp.	Linnaeus, 1758
Buis Ranch Local Fauna, Beaver County, Oklahoma	USA	36.80000	-100.50000	7.6000	Hesperotestudo	Hesperotestudo riggsi	(Hibbard, 1944)
UCMP V71137, Turlock Lake 10, Stanislaus County, California	USA	37.60000	-120.60000	5.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
UCMP V81248, Turlock Lake 11, Stanislaus County, California	NSA	37.60000	-120.60000	5.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
Allatini, eastern part of Thessaloniki, western Chalkidiki peninsula	Greece	40.58990	22.97160	5.5000	Testudo	Testudo graeca	Linnaeus, 1758
Pylea, eastern part of Thessaloniki, western Chalkidiki peninsula	Greece	40.59940	22.98760	5.5000	Testudo	Testudo graeca	Linnaeus, 1758
As Sahabi	Libya	30.16670	20.83330	5.5000	Centrochelys	Centrochelys aff. sulcata	(Miller, 1779)
Yepómera, Chihuahua	Mexico	28.80000	-108.00000	4.7500	Gopherus	Gopherus cf. sp.	Rafinesque, 1832
UCMP V65711, Turlock Lake General, Stanislaus County, California	USA	37.60000	-120.60000	5.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
UCMP V6878, Turlock Lake, Stanislaus County, California	USA	37.60000	-120.60000	5.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
UCMP V71138, Dallas-Warner Reservoir 1, Stanislaus County, California	USA	37.60000	-120.60000	5.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
UCMP V90007, Turlock Lake 13, Stanislaus County, California	USA	37.60000	-120.60000	5.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
UCMP V90008, Turlock Lake 14, Stanislaus County, California	USA	37.60000	-120.60000	5.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
Withlacoochee River Site 4A, Marion County, Florida	USA	28.80000	-82.30000	5.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Kohfidisch	Austria	47.16670	16.35000	8.7500	gen.		Gray, 1825
Kohfidisch	Austria	47.16670	16.35000	8.7500	Testudo	Testudo burgenlandica	Bachmayer & Mlynarski, 1983
Teiritzberg (T1 = 001/D/C), Korneuburg Basin, Lower Austria	Austria	48.36670	16.33330	16.5500	Paleotestudo	Paleotestudo sp.	Lapparent de Broin, 2000
Eggenburg-Schindergraben, Lower Austria	Austria	48.63330	15.81700	19.9650	Testudo	Testudo kalksburgensis	Toula, 1896
Holzmannsdorfberg bei St. Marein	Austria	47.01670	15.66670	10.7500	Testudo	Testudo sp.	Linnaeus, 1758
McGehee Farm near Newberry, Alachua County, Florida	USA	29.70000	-82.60000	10.9500	Hesperotestudo	Hesperotestudo alleni	(Auffenbgerg, 1996)
Wessington Springs local fauna, Jerauld County, South Dakota	NSA	44.10000	-98.60000	11.5000	gen.	gen. indet.	Gray. 1825
Iron Canyon Fauna, Mojave Desert, Kern County, California	NSA	35.30000	-118.50000	11.8500	Gopherus	Gopherus ? sp.	Rafinesque, 1832
Chañe, Segovia	Spain	41.33890	-4.42500	13.8000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Cerro del Otero, Palencia	Spain	42.01010	-4.52870	12.5000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
La Ciesma 1, Aragón	Spain	41.86000	-1.80000	12.2000	gen.	gen. indet.	Gray, 1825
La Ciesma 1, Aragón	Spain	41.86000	-1.80000	12.2000	Titanochelon	Titanochelon cf. bolivari	(Hernández Pacheco, 1971)

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
El Buste, Aragón	Spain	41.88600	-1.60290	12.4000	Paleotestudo	Paleotestudo cf. sp.	Lapparent de Broin, 2000
Steinheim a. Albuch	Germany	48.69390	10.06780	13.0000	Testudo	Testudo steinheimensis	Staesche, 1931
Hohenhöwen, Engen, Hegau, southwestern Germany	Germany	47.83560	8.74900	13.0000	Paleotestudo	Paleotestudo antiqua	(Bronn, 1831)
Wien-Kalksburg	Austria	48.12000	16.26000	14.5000	Testudo	Testudo kalksburgensis	Toula, 1896
Belomechetskaya	Russia	44.40000	41.93330	14.0000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Sansan, Gers (lake)	France	43.90000	-0.50000	13.6000	Paleotestudo	Paleotestudo antiqua	(Bronn, 1831)
Alcalá de Henares, Cerro del Viso (Barranco de los Mártires y Santos de la Humosa), Madrid	Spain	40.48820	-3.31340	15.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1917)
Vallecas, Madrid	Spain	40.38150	-3.62240	15.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Tarazona de Aragón	Spain	41.90250	-1.72520	14.7000	gen.	gen. indet.	Gray, 1825
Tarazona de Aragón	Spain	41.90250	-1.72520	14.7000	Paleotestudo	Paleotestudo cf. sp.	Lapparent de Broin, 2000
Randle Ciff, Calvert County, Maryland	USA	38.66650	-76.52980	15.4000	Floridemys	Floridemys hurdi	Weems & George, 2013
Burgerbachtobel 1 near Wippertsweiler	Germany	47.80180	9.45040	15.0000	Titanochelon	Titanochelon vitodurana	(Biedermann, 1862)
Monteagudo, Aragón	Spain	41.96270	-1.69220	16.4000	gen.	gen. indet.	Gray, 1825
Sandelzhausen	Germany	48.62830	11.79600	16.3700	Testudo	Testudo rectogularis	Schleich, 1981
Sandelzhausen unterer Geröllmergel (B)	Germany	48.62830	11.79600	16.3700	Titanochelon	Titanochelon cf. perpiniana	(Depéret, 1885)
Kirchdorf an der Iller	Germany	48.07280	10.14240	16.6500	Geochelone	Geochelone sp.	Fitzinger, 1835
Arrisdrift	Namibia	-28.55000	16.50000	17.2500	Mesocherus	Mesocherus orangeus	Lapparent de Broin, 2003
Arrisdrift	Namibia	-28.55000	16.50000	17.2500	Namibchersus	Namibchersus aff. namaquensis	(Stromer, 1926)
Thomas Farm Local Fauna, Gilchrist County, Florida	USA	29.70000	-82.60000	18.5000	Geochelone	Geochelone tedwhitei	(Williams, 1953)
Auchas	Namibia	-28.55000	16.50000	18.0000	Namibchersus	Namibchersus namaquensis	(Stromer, 1926)
Elisabethfeld (= Elisabeth Bay) area, northern Sperrgebiet	Namibia	-26.91610	15.18380	19.5000	Namibchersus	Namibchersus namaquensis	(Stromer, 1926)
Samos 1	Greece	37.80000	26.90000	6.2500	Titanochelon	Titanochelon schafferi	(Szalai, 1931)
Santa-Vittoria d'Alba	Italy	44.70000	7.93330	6.1650	Testudo	Testudo sp.	Linnaeus, 1758
Torrente Melacce, Cinigiano (GR)	Italy	42.88330	11.40000	5.8150	Testudo	Testudo sp.	Linnaeus, 1758
San Nicolas, UCMP locality V4536	Colombia	3.20000	-75.20000	8.5000	Geochelone	Geochelone hesterna	Auffenberg, 1971
Prottes	Austria	48.38960	16.74540	8.3000	Hadrianus	Hadrianus sp.	Cope, 1872
Prottes	Austria	48.38960	16.74540	8.3000	Testudo	Testudo cf. promarginata	Reinach, 1900
Prottes	Austria	48.38960	16.74540	8.3000	Testudo	Testudo sp.	Linnaeus, 1758
Crevillente 2	Spain	38.27000	-0.80000	8.3000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Crevillente 2	Spain	38.27000	-0.80000	8.3000	Testudo	Testudo catalaunica	(Bataller, 1926)
UCMP V-3952, Ingram Creek site 8, Stanislaus County, California	USA	37.60000	-120.80000	9.5000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Ricardo Fauna, Mojave Desert, Kern County, California	NSA	35.30000	-118.50000	10.1000	Geochelone	Geochelone sp.	Fitzinger, 1835
Ricardo Fauna, Mojave Desert, Kern County, California	NSA	35.30000	-118.50000	10.1000	Gopherus	Gopherus ? sp.	Rafinesque, 1832
El Lugarejo (Arévalo), Ávilla, Castilla	Spain	41.05600	-4.71690	10.2500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Hostalets de Piérola, Barcelone province, Cataluña, Vallés-Penedés basin	Spain	41.53490	1.76850	10.4000	Cheirogaster	Cheirogaster richardi	(Bergounioux, 1938)
Kohfidisch	Austria	47.16670	16.35000	8.7500	Protestudo	Protestudo csakvarensis	Szalai, 1934)
Teiritzberg (T1 = 001/D/C), Komeuburg Basin, Lower Austria	Austria	48.36670	16.33330	16.5500	gen.	gen. indet.	Gray, 1825

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Fuensaldaña, Valladoid	Spain	41.70800	-4.76420	12.5000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Illescas, Toledo	Spain	40.12650	-3.84890	12.5000	Paleotestudo	Paleotestudo antiqua	(Bronn, 1831)
Illescas, Toledo	Spain	40.12650	-3.84890	12.5000	Titanochelon	Titanochelon cf. bolivari	(Hernández Pacheco, 1971)
La Cistémiga, Valladolid	Spain	41.59730	-4.65490	12.5000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Puente de la Princessa, Madrid	Spain	40.38890	-3.69840	14.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Villalcón, Palencia	Spain	42.29320	-4.85520	14.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Coca cemetery, Segovia	Spain	41.21940	-4.52880	12.8500	Titanochelon	Titanochelon cf. bolivari	(Hernández Pacheco, 1971)
Przeworno I	Poland	50.68050	17.18330	15.0000	Testudo	Testudo sp.	Linnaeus, 1758
Barajas, Madrid	Spain	40.48390	-3.56790	15.0000	Paleotestudo	Paleotestudo antiqua	(Bronn, 1831)
Barajas, Madrid	Spain	40.48390	-3.56790	15.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Ciudad Universitaria, Madrid	Spain	40.44670	-3.73020	15.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Henares 1, Los Santos de la Humosa, Madrid	Spain	40.45060	-3.44270	15.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Puente de los Franceses, Madrid	Spain	40.43370	-3.73580	15.0000	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)
Puente de los Franceses, Madrid	Spain	40.43370	-3.73580	15.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Vallecas, Madrid	Spain	40.38150	-3.62240	15.0000	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)
Egelhoff Ranch Local Fauna, Keya Paha County, Nebraska	USA	42.00000	-100.00000	14.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1863)
Plum Point, Calvert County, Maryland	USA	38.00000	-76.00000	15.0000	Caudochelys	Caudochelys ducateli	(Collins & Lynn, 1936)
Furth 460m	Germany	48.60000	12.03330	15.2250	Testudo	Testudo sp.	Linnaeus, 1758
Puttenhausen E	Germany	48.61220	11.77730	16.5000	Testudo	Testudo sp.	Linnaeus, 1758
Puttenhausen B	Germany	48.61220	11.77730	16.8000	Testudo	Testudo sp.	Linnaeus, 1758
Puttenhausen A	Germany	48.61220	11.77730	16.9000	Testudo	Testudo sp.	Linnaeus, 1758
Ba?a Dolina in Ve?ký Krtíš	Slovakia	48.20730	19.34780	17.4000	gen.	gen. Indet.	Gray, 1825
Fosso della Fittaia 2013, Baccinello-Cinigiano Basin, Tuscany	Italy	42.68330	11.33330	7.3500	Testudo	Testudo sp.	Linnaeus, 1758
Prottes	Austria	48.38960	16.74540	8.3000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Crevillente 2	Spain	38.27000	-0.80000	8.3000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Autovía A6, Arévola, Ávila	Spain	41.05270	-4.70010	10.2500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Hammerschmiede 1	Germany	47.92730	10.59150	11.1800	Testudo	Testudo sp.	Linnaeus, 1758
Hammerschmiede 5 (HAM 5)	Germany	47.92730	10.59150	11.6200	Testudo	Testudo sp.	Linnaeus, 1758
Salinas Grandes de Hidalgo, Atreucó, La Pampa	Argentina	-37.20000	-63.60000	7.9000	Chelonoidis		Fitzinger, 1835
Toros-Menalla, Djurab desert (TM 266)	Chad	16.25000	17.48750	7.0400	gen.	gen. indet.	Gray, 1826
Patos (= Acre 6, LACM Locality 4611), Assisbrasil County, Acre	Brazil	-10.90000	-69.90000	9.4300	Chelonoidis	Chelonoidis sp.	Fitzinger, 1835
Götzendorf	Austria	48.01670	16.58330	9.8600	Testudo	Testudo sp.	Linnaeus, 1758
Vösendorf-Brunn, near Wien	Austria	48.20000	16.36000	10.3500	Testudo	Testudo sp.	Linnaeus, 1758
Atzelsdorf, 35 km NE Vienna, Lower Austria	Austria	48.51030	16.54420	11.1500	Testudo	Testudo cf. burgenlandica	Bachmayer & Mlynarski (1983)
Eibiswald	Austria	46.68780	15.24890	15.2200	Paleotestudo	Paleotestudo mellingi	Peters, 1868
Karingarab D. wardi level	Namibia	-27.00000	15.50000	11.0000	Namibchersus	Namibchersus sp.	Lapparent de Broin F.de, 2003: Miocene C
North of Gypsum Plate Pan D. wardi level	Namibia	-27.00000	15.50000	12.0000	Namibchersus	Namibchersus sp.	Lapparent de Broin, 2003

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Rooilepel D. wardi level	Namibia	-27.00000	15.50000	11.0000	Namibchersus	Namibchersus sp.	Lapparent de Broin, 2003
Tataru?-Brusturi	Romania	47.15000	22.25000	10.2500	Testudo	Testudo sp.	Linnaeus, 1758
Jebel Semama	Tunisia	35.33330	8.83330	10.0000	Testudo	Testudo semenensis	Bergounioux, 1945-1955
Küçükçekmece	Turkey	40.98330	28.76670	10.6500	Testudo	Testudo cf. sp.	Linnaeus, 1758
Höwenegg	Germany	47.90000	8.75000	10.3000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1953
Höwenegg	Germany	47.90000	8.75000	10.3000	Testudo	Testudo sp.	Linnaeus, 1758
Ecoparc de Can Mata (els Hostalets de Pierola), Vallés-Penedés basin, Cataluña	Spain	41.53280	1.80320	10.7000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Petersbuch 14	Germany	48.97790	11.19090	11.3000	gen.	gen. indet	Gray, 1825
Sant Quirze de Terrassa/de Galliners (del Vallès), Barcelona	Spain	41.38330	2.18330	11.3000	Paleotestudo	Paleotestudo antiqua	(Bronn, 1831)
Gritsev (Khmelnitsk area, Shepetovski district)	Ukraine	49.97500	27.16000	11.5270	Protestudo	Protestudo sp.	Chkhikvadze, 1970
Sotca (125) - F 434	Turkey	39.16670	30.18330	12.1500	gen.	gen. indet.	Gray, 1825
Can Mata (els Hostalets de Pierola), Vallés-Penedés basin, Cataluña	Spain	41.51920	1.72830	11.9000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Nombrevila 2. NOM 2	Spain	41.07000	-1.21000	11.6900	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)
Gratkorn, clay pit St. Stefan, Styria	Austria	47.13720	15.34890	12.1000	Testudo	Testudo kalksburgensis	Toula, 1896
Gratkorn, clay pit St. Stefan, Styria	Austria	47.13720	15.34890	12.1000	Testudo	Testudo cf. steinheimensis	Staesche, 1931
Bois de Fabregues, Aups, Var	France	43.62840	6.22480	12.5000	Cheirogaster	Cheirogaster cf. sp.	Bergounioux, 1935
Abocador de Can Mata (els Hostalets de Pierola)(ACM/BDA), Vallés-Penedés basin, Cataluña	Spain	41.51920	1.72830	12.7500	Cheirogaster	Cheirogaster df. richardi	(Bergounioux, 1931)
La-Grive-Saint-Alban (M+L7), Isère	France	45.58000	5.26000	12.6000	Testudo	Testudo ex. gr. antiqua	Bronn, 1831
Toril 3A. TOR 3A, near Daroca, Zaragoza province	Spain	41.13330	-1.38330	12.1300	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Toril 3B. TOR 3B, near Daroca, Zaragoza province	Spain	41.13330	-1.38330	12.1400	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Oehningen, oberer Bruch, Schienerberg N Oehningen-Wangen	Germany	47.67600	8.92510	12.8500	Testudo	Testudo scutella	(Meyer, 1845)
Steinheim a. Albuch	Germany	48.69390	10.06780	13.0000	Testudo	Testudo sp.	Linnaeus, 1758
Fort Niobrara, UCMP V-3218, Cherry County, Nebraska	USA	42.80000	-100.80000	12.9500	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1863)
Valentine Railway Quarry A, UNSM Cr 12, Cherry County, Nebraska	USA	42.80000	-100.80000	12.9000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
Valentine Railway Quarry B, UNSM Cr 13, Cherry County, Nebraska	USA	42.80000	-100.80000	12.9000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
Coca-Villeguillo, Segovia	Spain	41.25000	-4.57750	13.5000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Uitikon-Schlieren, quarry on road, near Zürich	Switzerland	47.38200	8.44730	13.5000	Titanochelon	Titanochelon vitodurana	(Biedermann, 1862)
Veltheim-Winterthur	Switzerland	47.51240	8.71700	13.5000	Titanochelon	Titanochelon vitodurana	(Biedermann, 1862)
Myers Farm, Webster County, Nebraska	USA	40.00000	-98.00000	13.1000	Geochelone	Geochelone sp.	Fitzinger, 1835
Myers Farm, Webster County, Nebraska	USA	40.00000	-98.00000	13.1000	Hesperotestudo	Hesperotestudo cf. orthopygia	(Cope, 1878)
Mynsualmas	Kazakhstan	45.90000	55.25000	13.7000	gen.	gen. indet.	Gray, 1825
DISC Cluster Sites, conglomerate, Fort Polk, Louisiana	USA	31.08030	-93.20120	13.4000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
Goldberg near Pflaumloch, Nördlinger Ries (without number)	Germany	48.85970	10.47530	14.1500	Testudo	Testudo sp.	Linnaeus, 1758
Kirberg b. Balzhausen - Tongrube	Germany	48.22500	10.50140	14.1500	Geochelone	Geochelone sp.	Fitzinger, 1835
Kirrberg b. Balzhausen - Tongrube	Germany	48.22500	10.50140	14.1500	Testudo	Testudo sp.	Linnaeus, 1758
Petersbuch 31 - oben	Germany	48.97790	11.19090	13.6000	gen.	gen. indet	Gray, 1825
Ursberg (nördliche Sandgrube)	Germany	48.26110	10.45170	14.1500	Testudo	Testudo sp.	Linnaeus, 1758

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Control         County         Catality         Catality         Catality         County							•	
Control Netherison         62,624-0         37,9250         15,900         Genitor         Genitoria per Index.           Andres         France         47,5300         15,000         Genitor         Genitoria per Index.           Co. Rivor         France         47,5400         15,000         Relation         Relation pormanginata           Co. Rivor         France         47,5400         15,700         Relation         Relation pormanginata           Co. Rivor         France         45,700         4,500         15,700         Relation         Relation pormanginata           Co. Rivor         France         45,700         4,500         15,700         Relation         Relation pormanginata           Spain         40,402         37,719         15,000         Temporable         Relation pormanginata           Spain         47,700         4,500         Temporable         Relation pormanginata         Relation pormanginata           General         47,700         4,500         14,500         Pericone         Pericone         Relation pormanginata           General         47,700         4,500         14,500         Relation pormanginata         Relation pormanginata           Long         47,400         14,500         Relation pormanginata	Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Duriny, Notessia  Ori Photos, France   15,000   16,000	Somosaguas Sur, Madrid Basin	Spain	40.42440	-3.79230	13.9000	gen.	gen. indet.	Gray, 1825
Circle         47,5500         0,01180         15,000         Teached         Processor           Circle         47,5400         16,000         18,000         Instance	Hottell Ranch rhino quarries, Banner County, Nebraska	NSA	41.50000	-103.80000	15.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
Off-Brinds         47,5000         4,04000         1,57000         Reaction of participates         Reaction of participates         1,0000         1,57000         Reaction of participates         Reaction of participates         Reaction of participates         Permission of participates         1,57000         1,57000         Permission of participates         Permission of participates<	Lassé, Maine-et-Loire	France	47.53780	0.01160	15.0000	Testudo	Testudo promarginata	Reinach, 1900
10. Photos, Famos         Famos         45,5000         4,8500         15,750         Processor         16,7500         Panch decided         Panch decid	Pontigné-les-Buisseneaux, Maine-et-Loire	France	47.54000	-0.04010	15.0000	Testudo	Testudo promarginata	Reinach, 1900
10, Photo, Famos         45,75000         45,7000         15,7500         featubo         featubo pinata           Spain         40,4240         37,0300         15,7000         Tamochelen         Tilanochelen bolivari           Spain         41,6200         -3,7280         15,0000         Tamochelen         Tilanochelen bolivari           Spain         41,6200         -6,8000         14,600         Paleotestudo Cl, andqua           Germany         47,7660         8,8000         14,600         Paleotestudo Cl, andqua           Germany         48,4000         10,867         14,500         Paleotestudo Cl, andqua           Germany         48,000         11,0100         Tamochelen         Paleotestudo pointaria           Journal         47,7660         8,800         11,6100         Paleotestudo cl, andqua           Germany         48,000         11,0100         14,500         Paleotestudo cl, andqua           Journal         48,000         11,0100         14,500         Paleotestudo cl, andqua           Journal         48,200         11,0100         14,500         Paleotestudo cl, andqua           Journal         48,200         11,0000         14,500         Paleotestudo cl, andqua           Journal         48,200	Vieux-Collonges, Saint-Cyr-au-Mont-d'Or, Rhône, France	France	45.75000	4.85000	15.7500	gen.	gen. indet	Gray, 1825
Spain         44,44270         37,70380         15,0000         Irlanochelon         Tranochelon to Infant           Spain         41,6000         3,72190         15,0000         Irlanochelon         Tranochelon of Lollouri           Spain         41,6000         43,0000         1,45000         Presentance         Percentant           Germany         42,6000         43,0000         9,00         Tranochelon of Lollouri           Germany         44,0000         11,6000         9,00         Tranochelon of Lollouri           Germany         44,0000         11,6000         9,00         Tranochelon of Lollouri           Germany         44,0000         11,6000         1,4000         Perchode         Percholore           Germany         46,1680         11,0100         14,500         Recholore         Recholore           Germany         46,1680         11,0100         14,500         Recholore         Recholore           Germany         42,8000         14,500         Recholore         Recholore         Recholore           Germany         42,8000         14,500         Recholore         Recholore         Recholore           Germany         42,8000         14,5000         Restoch         Restoch         Restoch	Vieux-Collonges, Saint-Cyr-au-Mont-d'Or, Rhône, France	France	45.75000	4.85000	15.7500	Testudo	Testudo sp.	Linnaeus, 1758
Spain         40,4340         -15,219         15,000         Trian-orientor         Trian-orientor Londrain           Spain         40,5070         4,5000         14,5000         Tifan-orientor Londrain           Spain         40,5070         3,5300         14,5000         Tifan-orientor Londrain           Germany         47,7060         8,8000         14,500         Patientschied or Linguist           Germany         47,7060         14,500         Patientschied or Linguist         Patientschied or Linguist           Germany         45,0890         14,070         14,500         Patientschied or Influent         Patientschied or Influent           Germany         45,0890         14,070         14,500         Patientschied or Influent         Patientschied or Influent           Juny, Nebrasia         USA         45,000         14,500         Restude         Gerordene           LISA         42,8000         14,500         Restude         Gerordene         Gerordene           LISA         42,8000         14,500         Restude         Gerordene         Gerordene           Germany         42,8000         14,800         Restude         Gerordene         Gerordene           France         47,4000         1,7000         14,800	Calle Moratines, Madrid	Spain	40.40270	-3.70360	15.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
spain         41 86000         14 5000         14 5000         Paleotestudo C, andqua Spain         41 86000         14 5000         Paleotestudo C, andqua Camqua Cammany         42 7000         14 5000         Paleotestudo C, andqua Camqua Cammany         47 70800         88 8900         14 500         Paleotestudo C, andqua Camqua Cammany         42 7000         16 5000         Paleotestudo C, andqua Camqua Cammany         42 80 8800         16 70 77         14 500         Paleotestudo andqua Camqua Cammany         42 80 8800         16 70 77         14 500         Paleotestudo andqua Camqua Camqua Cammany         42 80 8800         16 70 77         14 500         Paleotestudo andqua Camqua Cammany         42 80 8800         16 70 77         14 500         Paleotestudo andqua Camqua Camqua Cammany         16 70 77         14 500         Paleotestudo andqua Camqua Ca	Calle Paseo de Moret, Madrid	Spain	40.43400	-3.72190	15.0000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Germany         47,5050         8,5800         15,000         Infanochelon CL bolivari           Germany         47,0060         18,500         14,500         Pale-celebral           Germany         42,0060         10,0470         14,500         Pale-celebral           Germany         42,0060         10,07470         14,500         Pale-celebral           Germany         48,0060         11,0670         14,500         Pale-celebral           Germany         48,3850         11,0670         14,500         Pescholeone succentrals           John         48,3850         11,0670         14,600         Pescholeone succentrals           Germany         48,3850         11,0680         18,600         Pescholeone succentrals           France         43,2800         11,060         Pescholeone         Pescholeone succentrals           France         43,2800         11,060         Pescholeone         Pescholeone succentrals           France	La Barranca, Zaragoza	Spain	41.60000	-0.90000	14.5000	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)
Germany         47,70600         18,8800         14,5300         gen. Indet           Germany         48,4000         10,3674         14,500         Geochedine application and at the control of the co	Paracuellos de Jarama, Madrid	Spain	40.50570	-3.53020	15.0000	Titanochelon	Titanochelon cf. bolivari	(Hernández Pacheco, 1971)
Germany         48,4000         10,9570         14,5000         Calculation sp.           Germany         46,0000         10,07470         14,5000         Geordinone sp.           Germany         45,08860         10,07470         14,5000         Geordinone sp.           Germany         6,0000         14,5000         Geordinone sp.         Testudo sp.           Germany         26,0000         11,01000         14,5000         Testudo sp.           USA         42,8000         11,01000         14,5000         Geochelone sp.           USA         42,8000         11,01000         14,5000         Geochelone sp.           USA         42,8000         11,01000         14,5000         Geochelone sp.           Germany         42,8000         11,0000         14,5000         Geochelone sp.           Germany         42,8000         11,0000         14,5000         Testudo pp.           France         47,5000         11,0000         15,9000         Testudo pp.           France         47,5000         12,0000         15,9000         Testudo pp.           France         47,4000         12,0000         15,9000         Testudo pp.           Germany         48,04680         11,0540         15,	Bohlinger Schlucht 6	Germany	47.70600	8.89000	14.3500	gen.	gen. indet	Gray, 1825
Germany         48 08 68 or 10 07 470         14,5000         Gerchelone         Geochelone Sp.           Germany         48 08 68 or 10 07 470         14,5000         Testudo         Testudo Sp.           Germany         69 3000         6,45000         14,5000         Testudo Sp.         Testudo Sp.           Junky Nebraska         USA         42,83820         110 1670         14,5000         Testudo Gocchelone Sp.           Junky Nebraska         USA         42,8300         10,000         14,5000         Testudo Gocchelone Gocchelone Sp.           Junky Nebraska         USA         42,8300         11,01670         14,5000         Testudo Gocchelone Gocchelone Sp.           Germany         42,8300         11,01670         14,5000         Testudo Gocchelone Gocchelo	Stätzling	Germany	48.40000	10.96670	14.5000	Paleotestudo	Paleotestudo antiqua	(Bronn, 1831)
Germany         49.08890         1,0,7470         14,5000         Featudo sp.           Germany         69.0000         1,0,0740         14,500         Featudo sp.           Jouny, Nebraska         USA         42,8000         1,0,0000         14,500         Geochelone Gochelone sp.           Juny, Nebraska         USA         42,8000         1,00,000         14,500         Geochelone Gochelone sp.           Juny, Nebraska         USA         42,8000         1,00,000         14,500         Geochelone sp.           Germany         42,8000         1,00,000         14,500         Geochelone Gochelone sp.           Germany         42,8000         1,00,000         14,500         Geochelone sp.           Germany         42,8000         1,00,000         14,500         Restudo promaginata           France         47,570         1,1000         15,800         Testudo promaginata           France         47,4000         1,2000         15,800         Testudo promaginata           France         47,4000         1,2000         15,800         Testudo promaginata           Germany         48,000         1,0000         15,800         Testudo promaginata           Germany         48,000         1,000         15,800	Bonlanden, Illertal	Germany	48.06860	10.07470	14.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
unny, Nebraska         Cermany         4819560         11,0100         14,7500         Festudo produciones produciones por Cerculeones Conclusiones produciones por Cerculeones Ce	Bonlanden, Illertal	Germany	48.06860	10.07470	14.5000	Testudo	Testudo sp.	Linnaeus, 1758
Officiality of Englands         55,99000         64,8000         14,7000         festidudo sp.           Dunty, Nebraska         USA         48,3839         11,01670         14,5000         Geochelone         Geochelone sp.           Dunty, Nebraska         USA         42,8000         -100,00000         14,5000         Geochelone         Geochelone nordensis           Germany         USA         42,8000         -100,00000         14,5000         Hesperiotestudo orthopygia           Germany         Germany         48,2890         11,01850         Hesperiotestudo orthopygia           France         47,5700         0.1300         15,000         Restucb         Restucb promarginata           France         47,5700         11,00850         15,900         Restucb         Restucb promarginata           France         47,4500         15,900         Restucb         Restucb promarginata           Germany         48,5330         11,300         15,900         Restucb promarginata           Germany         48,4680         11,000         16,800         Restucb promarginata           Germany         48,4680         11,600         Restucb         Restucb promarginata           Germany         48,04130         98,300         14,800 <td< td=""><td>Georgensgmünd, Reznat-Altmühl-Stausee</td><td>Germany</td><td>49.19600</td><td>11.01000</td><td>14.7500</td><td>Testudo</td><td>Testudo sp.</td><td>Linnaeus, 1758</td></td<>	Georgensgmünd, Reznat-Altmühl-Stausee	Germany	49.19600	11.01000	14.7500	Testudo	Testudo sp.	Linnaeus, 1758
Duny, Nebraska         48.38390         11.01670         14.5000         Geochelone sp.           Duny, Nebraska         USA         42.80000         11.005000         14.5000         Hesperotestudo orthopygia           Duny, Nebraska         Germany         42.80000         11.00800         14.5000         Hesperotestudo orthopygia           Germany         48.28990         11.00800         14.5000         Festudo promagnata           France         47.5300         15.9000         Festudo promagnata           France         47.54000         15.9000         Festudo promagnata           France         47.54000         15.9000         Festudo promagnata           France         47.40000         15.9000         Festudo promagnata           France         47.40000         15.9000         Festudo promagnata           Germany         48.0890         10.3000         Festudo promagnata           Germany         48.0890         10.0300         Festudo promagnata           Germany         48.0890         10.0300         Festudo promagnata           Germany         48.0490         11.0540         Festudo promagnata           Germany         48.0490         11.0540         Festudo promagnata           Germany	Hambach 6C	Germany	50.90000	6.45000	14.7000	Testudo	Testudo sp.	Linnaeus, 1758
Dunly, Nebraska         USA         42,80000         -100,00000         14,5000         Geochelone         Geochelone nordensis           Dunly, Nebraska         USA         42,80000         -100,00000         14,5000         Hesperotestudo orthopygia           Germany         42,80000         10,53009         16,5000         Testudo sp.         Testudo sp.           France         47,53300         0,1300         15,9000         Testudo pomaginata           France         47,40000         1,2000         15,900         Testudo pomaginata           Germany         48,0890         1,2000         15,900         Testudo pomaginata           Germany         48,0890         1,00230         15,900         Testudo pomaginata           Germany         48,0810         1,00230         14,800         Testudo sp.           Germany         48,0810         1,00200         Testudo pomaginata           Germany         48,0410         1,00200         Testud	Unterzell 1a	Germany	48.38330	11.01670	14.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Outry, Nebraska         USA         42,80000         -100,00000         14,5000         Hesperotestudo orthopygia         Hesperotestudo orthopygia           Germany         48,38960         11,08850         14,6000         Testudo sp.         Testudo sp.           Germany         48,28390         10,5300         1,6000         Testudo promarginata           France         47,5000         1,1700         15,4000         Testudo promarginata           France         47,4000         1,5000         Testudo promarginata           Germany         48,5000         0,3170         15,400         Testudo promarginata           Germany         48,600         0,3170         15,400         Testudo promarginata           Germany         48,600         0,3170         15,400         Testudo promarginata           Germany         48,4680         11,0543         14,800         Geochelone sp.           Germany         48,4680         11,0543         14,800         Geochelone sp.           Germany <td>Norden Bridge Local Fauna, Brown County, Nebraska</td> <td>USA</td> <td>42.80000</td> <td>-100.00000</td> <td>14.5000</td> <td>Geochelone</td> <td>Geochelone nordensis</td> <td>Holman, 1973</td>	Norden Bridge Local Fauna, Brown County, Nebraska	USA	42.80000	-100.00000	14.5000	Geochelone	Geochelone nordensis	Holman, 1973
Germany         48.38960         11.08850         14.6000         Testudo sp.           Fance         47.5330         0.13300         15.9000         Testudo promaginata           Fance         47.5000         1.0300         15.9000         Testudo promaginata           Fance         47.4000         1.0000         15.9000         Testudo promaginata           Fance         47.4000         1.0000         15.9000         Testudo promaginata           Fance         47.4000         1.0000         15.9000         Testudo promaginata           Germany         48.5333         11.3000         15.9000         Testudo promaginata           Germany         48.6890         11.05430         14.800         Testudo promaginata           Germany         48.4680         11.05430         14.800         Geochelone sp.           Germany         48.44680         11.05430         14.800         Geochelone sp.           Germany         48.2439         10.6230         14.800         Geochelone sp.           Germany         48.2439         11.05430         14.800         Geochelone sp.           Germany         48.2439         10.5303         14.800         Geochelone sp.           Germany         48.2339	Norden Bridge Local Fauna, Brown County, Nebraska	NSA	42.80000	-100.00000	14.5000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
Germany         48.29390         10.53030         10.53030         16.5000         Testudo promaginata           France         47.5370         0.17300         15.9000         Testudo promaginata           France         47.5170         0.17700         15.9000         Testudo promaginata           France         47.4000         1.20000         15.4000         Ergliemys sp.           France         47.4000         1.2000         15.4000         Testudo promaginata           France         47.4000         1.2000         15.4000         Testudo promaginata           Germany         48.53330         11.3000         Testudo promaginata           Germany         48.6380         11.0540         Testudo promaginata           Germany         48.4680         11.0540         Testudo promaginata           Germany         48.04130         98.3060         14.800         Geochelone sp.           Germany         48.04130         98.3060         14.800         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         48.29390         10.53030	Laimering 3	Germany	48.38960	11.08850	14.6000	Testudo	Testudo sp.	Linnaeus, 1758
France         47.53300         0.13300         15.9000         Testudo promarginata           France         47.51700         0.11700         15.900         Testudo promarginata           France         47.40000         1.20000         15.400         Testudo promarginata           France         47.40000         1.20000         15.400         Testudo promarginata           Germany         48.53330         11.3000         20.9000         Testudo promarginata           Germany         48.08900         10.02330         14.8000         Testudo promarginata           Germany         48.4680         11.05430         14.8000         Geochelone sp.           Germany         48.04130         9.83060         14.8000         Geochelone sp.           Germany         48.04130         9.83060         14.8000         Geochelone sp.           Germany         48.04130         9.83060         14.8000         Geochelone sp.           Germany         48.0430         10.53030         14.8000         Geochelone sp.           Germany         48.0430         10.53030         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany	Ziemetshausen 1e	Germany	48.29390	10.53030	14.6000	Testudo	Testudo sp.	Linnaeus, 1758
reaction         47,51700         0.11700         15.9000         Testudo promaginata           France         47,40000         1.20000         15.000         Erglemys sp.           France         47,40000         1.20000         15.000         Ferglemys sp.           France         47,40000         1.20000         16.000         Festudo promaginata           Germany         48,53330         11.30000         20.9000         Testudo promaginata           Germany         48,44580         11.05430         16.8000         Geochelone         Geochelone sp.           Germany         48,44580         11.05430         14.8000         Geochelone         Geochelone sp.           Germany         48,44580         11.05430         14.8000         Geochelone         Geochelone sp.           Germany         Germany         48,04130         9.83060         14.8000         Geochelone sp.           Germany         Germany         48,04130         9.83060         14.8000         Geochelone sp.           Germany         Germany         48,23390         10.53030         14.8000         Geochelone sp.           Germany         Germany         48,23390         10.53030         14.8000         Geochelone sp.           Ge	Dénezé-sous-le-Lude, Maine-et-Loire	France	47.53300	0.13300	15.9000	Testudo	Testudo promarginata	Reinach, 1900
Fance         47 40000         1.20000         15,4000         Egylemys         Egylemys sp.           Fance         47 40000         1.2000         15,4000         Fetudo sp.         Fegilemys sp.           Fance         47 45000         0.31700         15,9000         Festudo promarginata           Germany         48.53330         11,3000         20,9000         Festudo promarginata           Germany         48.08900         10,02330         14,8000         Geochelone sp.           Germany         48.44680         11,05430         14,8000         Geochelone sp.           Germany         48.04130         9.83060         14,8000         Geochelone sp.           Germany         48.0430         10,53030         14,8000         Geochelone sp.           Germany         48.29390         10,53030         14,8000         Geochelone sp.           Germany         48.29390         10,53030         14,8000         Geochelone sp.	Noyant-sous-le-Lude, Maine-et-Loire	France	47.51700	0.11700	15.9000	Testudo	Testudo promarginata	Reinach, 1900
France         47,45000         1,20000         15,4000         festudo promarginata           France         47,4500         0.31700         16,9000         festudo promarginata           Germany         48,5333         11,3000         20,900         festudo promarginata           Germany         48,0890         10,02330         14,8000         festudo sp.           Germany         48,4680         11,05430         14,8000         Geochelone sp.           Germany         48,4468         11,05430         14,8000         Geochelone sp.           Germany         48,4468         11,05430         14,8000         Geochelone sp.           Germany         48,04130         9,83060         14,8000         Geochelone sp.           Germany         48,04130         9,83060         14,8000         Geochelone sp.           Germany         48,04130         9,83060         14,8000         Geochelone sp.           Germany         48,29390         10,53030         14,8000         Geochelone sp.           Germany         48,29390         10,53030         14,8000         Geochelone sp.           Germany         48,29390         10,53030         14,8000         Geochelone sp.           Germany         48,29390<	Pontlevoy-Thenay, Loir-et-Cher	France	47.40000	1.20000	15.4000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
France         47,45000         0.31700         15,9000         Testudo promarginata           Germany         48,5333         11,30000         20,9000         Testudo rectogularis           Germany         48,0890         10,0233         14,800         Testudo sp.           Germany         48,44680         11,05430         14,8000         Testudo sp.           Germany         48,44680         11,05430         14,8000         Geochelone sp.           Germany         48,04130         9,83060         14,8000         Geochelone sp.           Germany         48,29390         10,53030         14,8000         Geochelone sp.           Germany         48,29390	Pontlevoy-Thenay, Loir-et-Cher	France	47.40000	1.20000	15.4000	Testudo	Testudo sp.	Linnaeus, 1758
Germany         48.5330         11.30000         20.9000         Testudo rectogularis           Germany         48.08900         1.02330         14.8000         Testudo sp.           Germany         48.44680         11.05430         14.8000         Geochelone sp.           Germany         48.04130         9.83060         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         Georelone         Geochelone sp.         Geochelone sp.         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp. <t< td=""><td>Savigné-sur-Lathan, Indre-et-Loire</td><td>France</td><td>47.45000</td><td>0.31700</td><td>15.9000</td><td>Testudo</td><td>Testudo promarginata</td><td>Reinach, 1900</td></t<>	Savigné-sur-Lathan, Indre-et-Loire	France	47.45000	0.31700	15.9000	Testudo	Testudo promarginata	Reinach, 1900
Germany         48.08900         10.02330         14.8000         Testudo sp.           Germany         48.44680         11.05430         14.8000         Geochelone sp.           Germany         48.04130         9.83060         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         Geormany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         Geormany         48.29390         10.53030         14.8000         Geochelone sp.	Aresing (shallow lake)	Germany	48.53330	11.30000	20.9000	Testudo	Testudo rectogularis	Schleich, 1981
Germany         48.44680         11.05430         14.8000         Geochelone sp.           d1         Germany         48.44680         11.05430         14.8000         Testudo sp.           d1         Germany         48.04130         9.83060         14.8000         Geochelone sp.           1         Germany         48.04130         9.83060         14.8000         Geochelone sp.           1         Germany         48.04130         9.83060         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         Germany         48.29390         10.53030         14.8000         Geochelone sp.           Germany         Germany         48.29390         10.53030         14.8000         Geochelone sp.           Spain         Spain         41.8000         Paleotestudo of aniqua	Edelbeuren-Schlachtberg	Germany	48.08900	10.02330	14.8000	Testudo	Testudo sp.	Linnaeus, 1758
Germany         48.44680         11.05430         14.8000         Testudo sp.           d1         Germany         48.04130         9.83060         14.8000         Geochelone sp.           dermany         Germany         48.04130         9.83060         14.8000         Geochelone sp.           dermany         Germany         48.04130         9.83060         14.8000         Testudo sp.           Germany         48.29390         10.53030         14.8000         Geochelone sp.           Spain         48.29390         10.53030         14.8000         Geochelone sp.           38         38         41.8000         Paleotestudo of antiqua	Griesbeckerzell 1a	Germany	48.44680	11.05430	14.8000	Geochelone	Geochelone sp.	Fitzinger, 1835
d1     Germany     48.04130     9.83060     14.8000     Geochelone sp.       1     Germany     48.04130     9.83060     14.8000     Geochelone sp.       1     Germany     48.04130     9.83060     14.8000     Testudo sp.       1     Germany     48.29390     10.53030     14.8000     Geochelone sp.       1     Germany     48.29390     10.53030     14.8000     Geochelone sp.       1     Germany     48.29390     10.53030     14.8000     Geochelone sp.       1     Spain     48.29390     10.53030     14.8000     gen. indet.       1     Spain     41.09000     -1.48200     Paleotestudo of. antiqua	Griesbeckerzell 1a	Germany	48.44680	11.05430	14.8000	Testudo	Testudo sp.	Linnaeus, 1758
1     Germany     48.04130     9.83060     14.8000     Geochelone sp.       1     Germany     48.04130     9.83060     14.8000     Testudo sp.     1       Germany     48.29390     10.53030     14.8000     Geochelone sp.     1       Germany     48.29390     10.53030     14.8000     Geochelone sp.     1       Germany     48.29390     10.53030     14.8000     Geochelone sp.     1       Spain     48.29390     10.53030     14.8000     gen. indet.     Gen. indet.       3B     10.53030     14.8000     gen. indet.     Gen. indet.     Gen. indet.	Tobel Oelhalde Nord 1	Germany	48.04130	9.83060	14.8000	Geochelone	Geochelone sp.	Fitzinger, 1835
Interviol of Entition of Entiti	Tobel Oelhalde Süd	Germany	48.04130	9.83060	14.8000	Geochelone	Geochelone sp.	Fitzinger, 1835
Germany         48.29390         10.53030         14.8000         Geochelone Sp.           Germany         48.29390         10.53030         14.8000         Testudo Sp.           Germany         48.29390         10.53030         14.8000         gen. indet.           Spain         41.09000         -1.48200         14.8400         Paleotestudo of. antiqua	Tobel Oelhalde Süd	Germany	48.04130	9.83060	14.8000	Testudo	Testudo sp.	Linnaeus, 1758
Germany         48.29390         10.53030         14.8000         Testudo         Testudo sp.           Germany         48.29390         10.53030         14.8000         gen. indet.           3B         Spain         41.09000         -1.48200         14.8400         Paleotestudo Cf. antiqua	Ziemetshausen 1b	Germany	48.29390	10.53030	14.8000	Geochelone	Geochelone sp.	Fitzinger, 1835
Germany 48.29390 10,53030 14,8000 gen. gen. indet. Spain 41,09000 -1,48200 14,8400 Paleotestudo Paleotestudo cf. antiqua	Ziemetshausen 1b	Germany	48.29390	10.53030	14.8000	Testudo	Testudo sp.	Linnaeus, 1758
Spain 41.09000 -1.48200 14,8400 Paleotestudo Paleotestudo of. antiqua	Ziemetshausen 1g	Germany	48.29390	10.53030	14.8000	gen.	gen. indet.	Gray, 1825
	Valdemoros 3B. VA 3B	Spain	41.09000	-1.48200	14.8400	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)

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Controller (Lime)	Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
communication         demands         deather         decretain         decretain <t< td=""><td>Derching 1b (unten)</td><td>Germany</td><td>48.40910</td><td>10.97190</td><td>14.9000</td><td>Geochelone</td><td>Geochelone sp.</td><td>Fitzinger, 1835</td></t<>	Derching 1b (unten)	Germany	48.40910	10.97190	14.9000	Geochelone	Geochelone sp.	Fitzinger, 1835
Control         Control         Classified         (1,217)         (1,410)	Edelbeuren-Maurerkopf	Germany	48.09620	10.03110	14.9000	Geochelone	Geochelone sp.	Fitzinger, 1835
Permany         438530         0,7000         15.800         Concludence         Concludence<	Edelbeuren-Maurerkopf	Germany	48.09620	10.03110	14.9000	Testudo	Testudo sp.	Linnaeus, 1758
one-distribution of control of c	Castelnau d'Arbieu, Gers	France	43.88330	0.70000	15.8500	Cheirogaster	Cheirogaster cf. sp.	Bergounioux, 1935
Operation of the proposition	Benistobel (Kohltobel)	Germany	47.79570	9.44290	15.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
Decided by the subscription of many particular by the subscription of many protective by the subscription of man	Biberach-Jordanbad	Germany	48.07480	9.82220	15.5000	Testudo	Testudo sp.	Linnaeus, 1758
the control of the control of commany and control of commany and control of c	Burgerbachtobel 1 near Wippertsweiler	Germany	47.80180	9.45040	15.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
Commany         47,8230         9,5901         15,000         Gendedness         Gendenses           And the Determent Introde and Beng Elstebreith         Germany         47,8230         9,5001         15,000         Returde         Returde see           And the Determent Introde and Beng Elstebreith         Germany         48,4460         1,5000         Returde         Returde see         Ret	Burgerbachtobel 1 near Wippertsweiler	Germany	47.80180	9.45040	15.0000	Testudo	Testudo sp.	Linnaeus, 1758
demany         47,8239         59,000         fisation         fisation per dependent of demany         47,8290         55,000         fisation         fisation per dependent of demany         47,8290         55,000         fisation         fisation per dependent of demany         44,1407         8,8710         15,500         Gendent of per demand         fisation per dependent of per demand         demand         47,8291         5,500         fisation per demand         fisation per demand         demand         47,8291         5,500         fisation per demand	Ettishofener Ach between Inntobel and Berg-Ettishofen	Germany	47.82330	9.59010	15.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
and an Buchatbedrenbugh Masablathm near Bebranch Germany 44.4469 (1654) 6.060 (a boardine paper) and an Buchatbedrenbugh Masablathm near Bebranch Germany 44.14070 9.88710 15.500 (abordine) Germany 41.14070 9.88710 15.500 (abordine) Restorate Coloribus paper) and an Buchatbedrenbugh Masablathm near Bebranch Germany 44.14070 9.88710 15.500 (abordine) Restorate Coloribus paper) and an Buchatbedrenbugh Masablathm near Bebranch Germany 44.14070 9.88710 15.500 (abordine) Restorate Coloribus paper) and an Buchatbedrenbugh Masablathm near Bebranch Germany 44.14070 9.88710 15.500 (abordine) Restorate Department of Germany 44.14070 9.88710 15.500 (abordine) Restorate Department of Germany 44.14070 9.88720 15.000 (abordine) Restorate Department of Germany 44.14070 15.000 (abordine) Restorate Department of Germany 44.14070 15.000 (abordine) Restorate Department Objective Mary Austria 84.14070 15.000 (abordine) Restorate Department Objective Mary Austria 84.14070 15.000 (abordine) Restorate Department Objective Mary Austria 84.14070 15.000 (abordine) Restorate Department Objective Mary Mary Mary Mary Mary Mary Mary Mary	Ettishofener Ach between Inntobel and Berg-Ettishofen	Germany	47.82330	9.59010	15.0000	Testudo	Testudo sp.	Linnaeus, 1758
and an Buchhalderhoop, Maseheint, nare Bleench         Gernany         41,4070         18,500         Geochelone sp.         Geochelone sp.           auch an Buchhalderhoop, Maseheint, near Blenach         Gernany         41,4070         18,600         18,5000         Resultob         Presultob           auch an Buchhalderhoop, Maseheint, near Blenach         Gernany         47,7896         36,580         15,000         Pastudob         Presultob         Presultob           hobbild and maseheint, near Blenach         Gernany         47,7896         36,580         15,000         Resultob         Presultob	Griesbeckerzell 1b	Germany	48.44680	11.05430	15.0000	Testudo	Testudo sp.	Linnaeus, 1758
degrate by the control of th	Heggbach am Buchhaidenberg, Maseiheim, near Biberach	Germany	48.14070	9.88710	15.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Och Pale         Pale         77,758-90         9,568-90         15,000         Pale-obe-sulvo         Pale-obe-sulvo           Order         Och Pale         47,758-90         9,568-90         15,000         Pale-obe-sulvo         Pale-obe-sulvo           Indicated         Och Pale         47,829-90         9,568-90         15,000         Pale-obe-sulvo         Pale-obe-sulvo           Indicated         Och Pale         47,829-90         15,000         Pale-obe-sulvo         Pale-obe-sulvo           Indicated         Och Pale         47,839-90         15,000         Pale-obe-sulvo         Pale-obe-sulvo           Indicated         Och Pale         48,095-90         15,000         Pale-obe-sulvo         Pale-obe-sulvo           Indicated         Och Pale         15,000         Pale-ob	Heggbach am Buchhaidenberg, Maselheim, near Biberach	Germany	48.14070	9.88710	15.5000	Testudo	Testudo sp.	Linnaeus, 1758
Operatory Object         Commany         47.22310         55.0000         Testudo sp.           Influender Debel         Commany         48.2879         15.0000         Testudo sp.         Testudo sp.           Respect Tobel         Commany         48.2879         15.0000         Gen-chelorne of sp.         Testudo sp.           Respect Tobel         Commany         47.8090         9.5323         15.0000         Gen-chelorne of sp.           Respect Tobel         Commany         47.8090         9.5320         15.0000         Gen-chelorne of sp.           Respect Tobel         Commany         47.8090         15.0000         Gen-chelorne of sp.         Testudo sp.           Retarnation of Commany         Commany         48.23990         11.5000         15.0000         Gen-chelorne of sp.           Retarnation of Common of Commany         Commany         48.33990         11.1500         15.0000         Restudo sp.           Retarnation of Common of Comm	Hotterloch-Tobel SW Ravensburg	Germany	47.76960	9.56860	15.0000	Paleotestudo	Paleotestudo antiqua	(Bronn, 1831)
Problemation and Heeselbering, Baustelle Remmele         Germany         48.08970         9.96670         15.0000         Testudo pay         Restudo sp.           shaged Tobel         Germany         47.80930         9.5332         15.0000         Testudo pay         Restudo pay           shaged Tobel         Germany         47.80930         9.5332         15.0000         Geochelone Ct.sp.           shaged Tobel         Germany         48.2899         16.5000         15.0000         Restudo pay           schaladean II Call Call Call Call Call Call Call C	Lattentobel	Germany	47.82910	9.42970	15.0000	Testudo	Testudo sp.	Linnaeus, 1758
degreating beginning be	Ochsenhausen am Heselsberg, Baustelle Remmele	Germany	48.06870	9.95670	15.0000	Testudo	Testudo sp.	Linnaeus, 1758
dermaty         dermaty         47,80930         9,53230         15,0000         Restudo sp.           statassen Id         dermaty         42,8230         15,0000         Go-chelone         Recortation sp.           statassen Id         dermaty         48,2330         15,0000         Go-chelone         Recortation sp.           statassen Id         dermaty         48,2370         11,1909         15,000         Restudo         Restudo           buch 41         dermaty         48,5770         11,1909         15,000         Restudo         Restudo           buch 41         dermaty         48,5770         11,1909         15,000         Restudo         Restudo sp.           buch 41         dermaty         48,5720         11,1509         15,000         Restudo         Restudo sp.           buch 41         dermaty         48,5720         11,1509         15,000         Restudo sp.         Restudo sp.           buch 41         dermaty         48,3720         11,1670         15,000         Restudo sp.         Restudo sp.           buch 41         dermaty         48,4750         11,1670         15,000         Restudo sp.         Restudo sp.           buch 42         dermaty         48,4760         11,1670	Schmalegger Tobel	Germany	47.80930	9.53320	15.0000	Geochelone	Geochelone cf. sp.	Fitzinger, 1835
that short of the comment of	Schmalegger Tobel	Germany	47.80930	9.53320	15.0000	Testudo	Testudo sp.	Linnaeus, 1758
test ansem If the month of the mon	Ziemetshausen 1d	Germany	48.29390	10.53030	15.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
Austria         Austria         48.61670         15.08670         15.1000         Testudo pertudo sp.           buch 41         Buch 41         11.1909         15.2000         Testudo pertudo sp.           buch 41         Buch 41         11.1909         15.2000         Testudo sp.           buch 41         Buch 41         11.1909         15.2000         Testudo sp.           eten 2 (unter Weg)         Germany         48.18330         10.11670         15.3000         Erglemys sp.           ichen Allenstadt S68m         Germany         48.18330         10.11670         15.3000         Erglemys sp.           ichen Allenstadt S68m         Buch Allenstadt S68m         10.1067         15.000         Erglemys sp.           ichen Allenstadt S68m         Buch Allenstadt S68m         16.1067         15.000         Erglemys sp.           peak Beach RR Station, Maryland         Germany         38.67990         17.6522         15.000         Erglemys sp.           ill 2 MOR 2         Emperator Reach RR Station, Maryland         Germany         48.3780         17.700         Festudo sp.         Testudo sp.           ill 2 L MOR 2         Emperator Reach RR Station, Maryland         Germany         48.3780         17.700         Festudo sp.         Testudo sp.	Ziemetshausen 1f	Germany	48.29390	10.53030	15.0000	gen.	gen. indet.	Gray, 1825
buch 41         Buch 41         Elettudo         Testudo sp.         Testudo sp.           buch 41         Edermany         48.35060         11.3990         15.2000         Testudo sp.         Testudo sp.           cichen-Alterisadt S6m         Germany         48.35060         11.5390         15.3000         Testudo sp.         Testudo sp.           cichen-Alterisadt S6m         Germany         48.13330         10.11670         15.3000         Testudo sp.         Testudo sp.           pask Beach RR Station, Maryland         Germany         48.1760         11.12840         15.700         Testudo sp.         Testudo sp.           embod near Häder         Germany         48.47160         11.12840         15.700         Testudo sp.         Testudo sp.           la 2. MOR 2         Sabar RR Station, Maryland         48.47160         17.000         15.000         Testudo sp.         Testudo sp.           la 2. MOR 2         Sabar RR Station, Maryland         48.47160         17.000         15.000         Testudo sp.         Testudo sp.           la 2. MOR 2         Sabar RR Station, Maryland         48.47160         17.000         15.000         Testudo sp.         Testudo sp.           statuses th         Iala 2. MOR 2         2.00330         12.0100         15.000	Grund near Hollabrunn (Collection Schaffer)	Austria	48.61670	16.06670	15.1000	Testudo	Testudo sp.	Linnaeus, 1758
etan D (unter Weg)         Cermany         48.5350         11.5369         15.300         Feature op.         Testudo sp.           inchen-Altenstadt 565m         Germany         48.1833         10.11670         15.300         Erglemys         Erglemys sp.           inchen-Altenstadt 565m         Germany         48.1833         10.11670         15.300         Bestudo sp.         Erglemys sp.           inchen-Altenstadt 565m         Germany         USA         30.00000         -95.0000         15.300         Hesperotestudo sp.           pask Beach RR Station, Maryland         USA         38.67990         -75.8240         15.700         Hesperotestudo sp.         Hesperotestudo sp.           pask Beach RR Station, Maryland         Germany         48.37160         11.12840         15.700         Hesperotestudo sp.         Hesperotestudo sp.           place L MOR 2         Local More Research RR Station, Maryland         48.37160         11.12840         15.700         Hesperotestudo sp.         Hesperotestudo sp.           place L MOR 2         Local More Research RR Station, Maryland         48.37160         15.700         15.800         Hestudo sp.         Hestudo sp.           place L MOR 2         Local More Research RR Station 1998 + 00.600 feet W of center line of Panama Canal         48.51670         11.1000         15.90	Petersbuch 41	Germany	48.97790	11.19090	15.2000	Testudo	Testudo sp.	Linnaeus, 1758
dermany         dermany <t< td=""><td>Eberstetten 2 (unter Weg)</td><td>Germany</td><td>48.53050</td><td>11.53690</td><td>15.3000</td><td>Testudo</td><td>Testudo sp.</td><td>Linnaeus, 1758</td></t<>	Eberstetten 2 (unter Weg)	Germany	48.53050	11.53690	15.3000	Testudo	Testudo sp.	Linnaeus, 1758
ichen-Allensladt 565m         Germany         48.18330         10.11670         15.3000         Testudo sp.         Testudo sp.           by And Diring Trinity River Local Fauna, San Jacinto County, Texas         USA         30.00000         -95.0000         15.5000         Hesperotestudo sp.         Hesperotestudo sp.           peak Beach RR Station, Maryland         USA         38.67990         -76.53240         15.700         Gaudochelys ducateli lesperotestudo sp.           ernbach a Rach RR Station, Maryland         Germany         48.47160         11.12840         15.700         Gaudochelys ducateli lesperotestudo sp.           la 2. MOR 2         Inhort near Häder         11.12840         15.700         Testudo sp.         Testudo sp.           la 2. MOR 2         Spain         48.47160         12.01800         15.800         Restudo sp.         Testudo sp.           sthausen 1b         Germany         48.71990         12.01800         15.900         Testudo sp.         Testudo sp.           sthausen 1b         Germany         Germany         48.71990         12.01800         15.900         Geochelone sp.         Geochelone sp.           sthausen 1a         Germany         Germany         48.35630         10.6080         16.000         Geochelone sp.         Geochelone sp.           d	Untereichen-Altenstadt 565m	Germany	48.18330	10.11670	15.3000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
peak Beach RR Station, Maryland beach RR Station of Panna, San Jacinto County, Texas         USA         38.67990         -75.53240         15.7000         Hespenotestudo sp.         Hespenotestudo sp.           peak Beach RR Station, Maryland peak Beach RR Station, Maryland and Ender Broad RR Station, Maryland peak Beach RR Station, Maryland peak RR Station, Peak RR Stat	Untereichen-Altenstadt 565m	Germany	48.18330	10.11670	15.3000	Testudo	Testudo sp.	Linnaeus, 1758
pead Beach RR Station, Maryland         USA         38.67990         -76.53240         15.7000         Caudochelys         Caudochelys ducateli           ermbach a         Germany         48.47160         11.12840         15.7000         Testudo         Testudo sp.           inch near Häder         Germany         48.35800         10.76600         15.7000         Testudo sp.         Testudo sp.           ita 2. MOR 2         AOR 2         15.7000         15.8000         Testudo sp.         Testudo sp.           itshausen 1b         Germany         48.71090         12.01800         15.8000         Testudo sp.         Testudo sp.           sthausen 1b         Germany         48.71090         12.01800         15.8000         Testudo sp.         Testudo sp.           sthausen 1b         AR 2.01000         15.8000         15.8000         16.000 p.         Geochelone georelone sp.           sthausen 1b         AR 2.01000         17.0000         17.5000         16.000 p.         Geochelone georelone sp.           strands between Gaiman and Dolavon, Patagonia         Augentina         43.28560         19.5000         15.000         18.0000         19.000         19.000         19.000         19.000         19.000         19.000         19.000         19.000         19.000	Coldspring Trinity River Local Fauna, San Jacinto County, Texas	USA	30.00000	-95.00000	15.5000	Hesperotestudo	Hesperotestudo sp.	Williams, 1950
run bach a brink bach and Loretto banama Canal a brink bach and Loretto back and Lo	Chesapeak Beach RR Station, Maryland	USA	38.67990	-76.53240	15.7000	Caudochelys	Caudochelys ducateli	(Collins & Lynn, 1936)
Inch near Häder         AB.35800         10.76060         15.7000         Testudo sp.           Ila 2. MOR 2         Spain         40.63330         15.7800         Paleotestudo cf. antiqua           Ishausen 1b         Germany         48.71090         12.01800         15.8000         Testudo sp.           Ishausen 1a         Germany         48.71090         12.01800         15.9000         Testudo sp.           Ach (bei Ichenhofen)         Germany         48.71090         12.01800         Geochelone         Geochelone sp.           Ach (bei Ichenhofen)         Germany         48.51670         11.10000         15.9000         Testudo sp.         Testudo sp.           Ach (bei Ichenhofen)         Panama Canal         Panama         48.51670         11.1000         15.9000         Testudo sp.         Testudo sp.           Ach (bei Ichenhofen)         Panama Canal         Panama         9.10000         -79.7000         17.5000         gen. Indet.           Ach (bei Ichenhofen)         Achien (bei beitween Gaiman and Dolavon, Patagonia         Argentina         43.2856         -65.58220         19.5000         Testudo gringorum           Bebirge beitween Au and Loretto         Achien (beitween Au and Loretto         Achien (beitween Au and Loretto         Achien (beitween Au and Loretto         Achien (be	Oberbernbach a	Germany	48.47160	11.12840	15.7000	Testudo	Testudo sp.	Linnaeus, 1758
Ital 2. MOR 2         Spain         40.63330         15.7800         Paleotestudo of. antiqua         Paleotestudo of. antiqua           Ishausen 1b         Germany         48.71090         12.01800         15.8000         Testudo promo         Testudo sp.           ach (bei Ichenhofen)         Germany         48.71090         12.01800         15.9000         Geochelone sp.         Testudo sp.           ach (bei Ichenhofen)         Germany         48.35530         10.63890         16.0000         Geochelone sp.         Testudo sp.           ach Reach, Station 1998 + 00, 600 feet W of center line of Panama Canal         Panama         48.51670         11.10000         15.5000         Testudo         Testudo sp.           at yelling south side between Galman and Dolavon, Patagonia         Argentina         43.28560         -65.58220         19.5000         Testudo gringorum           abiling between Au and Loretto         Austria         47.91510         16.53580         18.0000         Testudo kalksburgensis	Oggenhof near Häder	Germany	48.35800	10.76060	15.7000	Testudo	Testudo sp.	Linnaeus, 1758
Ishausen 1b         Germany         Germany         48.71090         12.01800         15.8000         Testudo sp.           Ishausen 1a         Germany         48.71090         12.01800         15.9000         Testudo sp.           Ach (bei Ichenhofen)         Germany         48.35630         10.63890         16.0000         Geochelone sp.           A Reach, Station 1998 + 00, 600 feet W of center line of Panama Canal         Panama         48.51670         11.10000         79.7000         17.5000         gen. Indet.           It Alley south side between Gaiman and Dolavon, Patagonia         Argentina         43.28560         -65.58220         19.5000         Testudo gringorum           Bebirge between Au and Loretto         Austria         16.5380         18.0000         Testudo kalksburgensis	Moratilla 2. MOR 2	Spain	40.63330	-2.03330	15.7800	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)
stable seen flat         dermany         dermany         48.71090         15.01800         Testudo sp.         Testudo sp.           sch (bei Ichenhofen)         dermany         dermany         48.51670         11.10000         15.9000         Testudo sp.         Testudo sp.           at Reach, Station 1998 + 00, 600 feet W of center line of Panama Canal         Panama         Panama         9.10000         -79.7000         17.5000         gen. Indet.           at Valley south side between Gaiman and Dolavon, Patagonia         Argentina         43.28560         -65.58220         19.5000         Testudo gringorum           gebirge between Au and Loretto         Austria         16.53580         18.0000         Testudo kalksburgensis	Gisseltshausen 1b	Germany	48.71090	12.01800	15.8000	Testudo	Testudo sp.	Linnaeus, 1758
sch (bei Ichenhofen)         48.55630         10.63890         16.0000         Geochelone sp.         Geochelone sp.           ach (bei Ichenhofen)         ach (bei Ichenhofen)         48.51670         11.10000         15.9000         Testudo perido sp.           a Reach, Station 1998 + 00, 600 feet W of center line of Panama Canal         Panama         Panama         9.10000         -79.7000         17.5000         gen. Indet.           Ayalley south side between Gaiman and Dolavon, Patagonia         Argentina         -43.28560         -65.58220         19.5000         Testudo gringorum           gebirge between Au and Loretto         Austria         47.91510         16.53580         18.0000         Testudo kalksburgensis	Gisseltshausen 1a	Germany	48.71090	12.01800	15.9000	Testudo	Testudo sp.	Linnaeus, 1758
Germany         48.51670         11.10000         15.9000         Testudo sp.           Panama         9.10000         -79.70000         17.5000         gen.         gen. Indet.           Argentina         -43.28560         -65.58220         19.5000         Testudo gringorum           Austria         47.91510         16.53580         18.0000         Testudo kalksburgensis	Häder	Germany	48.35630	10.63890	16.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
Panama         9.10000         -79.70000         17.5000         gen. Indet.           Argentina         -43.28560         -65.58220         19.5000         Testudo gringorum           Austria         47.91510         16.53580         18.0000         Testudo kalksburgensis	Sainbach (bei Ichenhofen)	Germany	48.51670	11.10000	15.9000	Testudo	Testudo sp.	Linnaeus, 1758
Argentina -43.28560 -65.58220 19.5000 Testudo gringorum Austria 47.91510 16.53580 18.0000 Testudo Testudo kalksburgensis	Culebra Reach, Station 1998 + 00, 600 feet W of center line of Panama Canal	Panama	9.10000	-79.70000	17.5000	gen.	gen. Indet.	Gray, 1825
Austria 47.91510 16.53580 18.0000 Testudo Ralksburgensis	Chubut Valley south side between Gaiman and Dolavon, Patagonia	Argentina	-43.28560	-65.58220	19.5000	Testudo	Testudo gringorum	Simpson, 1942 (p. 1-3, fig. 1.2)
	Leithagebirge between Au and Loretto	Austria	47.91510	16.53580	18.0000	Testudo	Testudo kalksburgensis	Toula, 1896

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Marsolan, Gers	France	43.95000	0.55000	18.0000	Testudo	Testudo promarginata	Reinach, 1900
Neuville-aux-Bois, Loiret	France	48.06700	2.05000	18.0000	Testudo	Testudo promarginata	Reinach, 1900
Unterempfenbach 1d	Germany	48.63040	11.74730	16.0000	Testudo	Testudo sp.	Linnaeus, 1758
Wackersdorf Westfeld	Germany	49.31670	12.18330	17.0000	Testudo	Testudo sp.	Linnaeus, 1758
Altheim-Breitenlauh 2	Germany	48.32830	9.79170	16.2650	Testudo	Testudo sp.	Linnaeus, 1758
Eggingen-Schleiche B	Germany	48.35220	9.85210	16.2650	Geochelone	Geochelone sp.	Fitzinger, 1835
Eggingen-Schleiche B	Germany	48.35220	9.85210	16.2650	Testudo	Testudo sp.	Linnaeus, 1758
Walda 2 (oben)	Germany	48.61090	11.09080	16.1000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Walda 2 (oben)	Germany	48.61090	11.09080	16.1000	Testudo	Testudo sp.	Linnaeus, 1758
Sandelzhausen	Germany	48.62830	11.79600	16.3700	Titanochelon	Titanochelon cf. perpiniana	(Depéret, 1885)
Sandelzhausen oberer Geröllmergel (D2)	Germany	48.62830	11.79600	16.3700	Testudo	Testudo rectogularis	Schleich, 1981
Sandelzhausen oberer Geröllmergel (E)	Germany	48.62830	11.79600	16.3700	Testudo	Testudo rectogularis	Schleich, 1981
Sandelzhausen unterer Geröllmergel (B)	Germany	48.62830	11.79600	16.3700	Testudo	Testudo rectogularis	Schleich, 1981
Sandelzhausen unterer Geröllmergel (C1)	Germany	48.62830	11.79600	16.3700	Testudo	Testudo rectogularis	Schleich, 1981
Sandelzhausen unterer Geröllmergel (C2)	Germany	48.62830	11.79600	16.3700	Testudo	Testudo rectogularis	Schleich, 1981
Sandelzhausen unterer Geröllmergel (C3/D1)	Germany	48.62830	11.79600	16.3700	Testudo	Testudo rectogularis	Schleich, 1981
Maßendorf	Germany	48.59710	12.44930	16.3000	Geochelone	Geochelone sp.	Fitzinger, 1835
Maßendorf	Germany	48.59710	12.44930	16.3000	Testudo	Testudo sp.	Linnaeus, 1758
Walda 1 (unten)	Germany	48.61090	11.09080	16.3000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Walda 1 (unten)	Germany	48.61090	11.09080	16.3000	Testudo	Testudo sp.	Linnaeus, 1758
San Roque 3. SR 3	Spain	41.10000	-1.49500	16.3300	Geochelone	Geochelone aff. sp.	Fitzinger, 1835
Kleinebersdorf, Wolmuth-Sandgrube (010/G/Liegendes), Korneuburg Basin, Lower Austria	Austria	48.50000	16.40000	16.5500	gen.		Gray, 1825
Obergänserndorf (OG2), Korneuburg Basin, Lower Austria	Austria	48.41670	16.36670	16.5500	gen.	gen. indet.	Gray, 1825
Teiritzberg (001/X/C), Korneuburg Basin, Lower Austria	Austria	48.36670	16.33330	16.5500	gen.	gen. indet.	Gray, 1825
Teiritzberg (001/X/C), Korneuburg Basin, Lower Austria	Austria	48.36670	16.33330	16.5500	Paleotestudo	Paleotestudo angustihyoplastralis	
Weinsteig (107), Korneuburg Basin, Lower Austria	Austria	48.45000	16.40000	16.5500	gen.	gen. indet.	Gray, 1825
Weinsteig (107/S/B), Korneuburg Basin, Lower Austria	Austria	48.45000	16.40000	16.5500	gen.	gen. indet.	Gray, 1826
Puttenhausen 2	Germany	48.61220	11.77730	16.4000	Testudo	Testudo sp.	Linnaeus, 1758
Randecker Maar	Germany	48.56670	9.53333	16.8250	Testudo	Testudo sp.	Linnaeus, 1758
Contres, Loir-et-Cher	France	47.41810	1.42870	17.0000	Testudo	Testudo sp.	Linnaeus, 1758
Schießen	Germany	48.29740	10.24320	16.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Schießen	Germany	48.29740	10.24320	16.5000	Testudo	Testudo sp.	Linnaeus, 1758
Schönenberg near Jettingen	Germany	48.37190	10.40960	16.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Schönenberg near Jettingen	Germany	48.37190	10.40960	16.5000	Testudo	Testudo sp.	Linnaeus, 1758
Illerkirchberg 1	Germany	48.31000	10.04600	16.8500	Geochelone	Geochelone sp.	Fitzinger, 1835
Illerkirchberg 1	Germany	48.31000	10.04600	16.8500	Testudo	Testudo sp.	Linnaeus, 1758
Langenmosen	Germany	48.60670	11.21410	16.7000	Testudo	Testudo sp.	Linnaeus, 1758

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Eitensheim	Germany	48.82030	11.32030	16.8000	gen.	gen. indet	Gray, 1825
Eitensheim	Germany	48.82030	11.32030	16.8000	Testudo	Testudo sp.	Linnaeus, 1758
Can Mas near El Papiol, Barcelone province, Cataluña, Vallés-Penedés basin	Spain	41.43330	2.01670	17.3000	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)
Aerotrain a Chevilly pres d'Artenay (Loiret)	France	48.05000	1.85000	17.2500	Testudo	Testudo sp.	Linnaeus, 1758
Baigneaux-en-Beauce (Eure-et-Loir)	France	48.10000	2.15000	17.2500	Paleotestudo	Paleotestudo mellingi	(Peters, 1868)
Suèvres aux Imberts, Loir-et-Cher	France	47.67000	1.47000	17.2500	Ergilemys	Ergilemys bruneti	Broin, 1977
Suèvres aux Imberts, Loir-et-Cher	France	47.67000	1.47000	17.2500	Paleotestudo	Paleotestudo mellingi	(Peters, 1868)
Erkertshofen 1	Germany	48.97970	11.22500	17.2500	Testudo	Testudo sp.	Linnaeus, 1758
Erkertshofen 2	Germany	48.97970	11.22500	17.2500	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Freudenegg 2 Baggersee	Germany	48.33330	10.01670	17.5000	Testudo	Testudo sp.	Linnaeus, 1758
Freudenegg 3 Baggersee	Germany	48.33330	10.01670	17.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Freudenegg 3 Baggersee	Germany	48.33330	10.01670	17.5000	Testudo	Testudo sp.	Linnaeus, 1758
Gerlenhofen	Germany	48.20000	10.02000	17.2500	Testudo	Testudo sp.	Linnaeus, 1758
Günzburg 2/1 Umgehungsstrasse Sande	Germany	48.45600	10.27680	17.0000	gen.	gen. indet	Gray, 1825
Günzburg 2/2 Umgehungstr höhere Bereiche der Sande	Germany	48.45600	10.27680	17.0000	gen.	gen. indet	Gray, 1825
Günzburg 2/5 Umgehung Sande im Süden Aufschluss	Germany	48.45600	10.27680	17.0000	gen.	gen. indet	Gray, 1825
Günzburg 2/6 Umgehung Sande im Norden Aufschluss	Germany	48.45600	10.27680	17.0000	gen.	gen. indet	Gray, 1825
Petersbuch 4	Germany	48.97790	11.19090	17.5000	Testudo	Testudo sp.	Linnaeus, 1758
Djebel Zelten	Libya	28.50000	20.00000	17.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Torralba de Ribota (Zaragoza)	Spain	41.58330	-1.00000	18.5050	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)
La Romieu, Gers	France	44.20000	0.90000	17.2000	gen.	gen. indet.	Gray, 1825
Forsthart	Germany	48.63580	13.03140	17.2000	Testudo	Testudo sp.	Linnaeus, 1758
Béon 1 (Montréal-du-Gers)	France	43.95000	0.20000	17.6500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Béon 1 (Montréal-du-Gers)	France	43.95000	0.20000	17.6500	Testudo	Testudo sp.	Linnaeus, 1758
Reisensburg near Günzburg	Germany	48.46200	10.31400	17.4500	Geochelone	Geochelone sp.	Fitzinger, 1835
Reisensburg near Günzburg	Germany	48.46200	10.31400	17.4500	Testudo	Testudo sp.	Linnaeus, 1758
Petersbuch 7	Germany	48.97790	11.19090	17.7500	Testudo	Testudo sp.	Linnaeus, 1758
Pamunkey River, between King William and New Kent Counties, Virginia	NSA	37.61640	-77.09630	17.7500	Caudochelys	Caudochelys williamsi	(Auffenberg, 1964)
Pollack Farm Site near Cheswold, Kent County, Delaware	NSA	39.23460	-75.57270	17.7500	Caudochelys	Caudochelys williamsi	(Auffenberg, 1964)
Rauscheröd near Passau, Bavaria	Germany	48.55650	13.26020	17.7500	Testudo	Testudo sp.	Linnaeus, 1758
Hiwegi loc. R 1	Kenya	-0.40000	34.20000	17.8000	gen.	gen. indet.	Gray, 1825
Hiwegi loc. R 106	Kenya	-0.40000	34.20000	17.8000	gen.	gen. indet.	Gray, 1825
Hiwegi loc. R 3	Kenya	-0.40000	34.20000	17.8000	gen.	gen. indet.	Gray, 1825
Hiwegi loc. R 5	Kenya	-0.40000	34.20000	17.8000	gen.	gen. indet.	Gray, 1825
Mfangano	Kenya	-0.45000	34.05000	17.8000	gen.	gen. indet.	Gray, 1825
Nira and Kachuku near Karungu	Kenya	-0.90000	34.25000	17.8000	Geochelone	Geochelone crassa	(Andrews, 1914)
Rangoye, Uyoma peninsula lake Victoria	Kenya	-0.30000	34.30000	17.8000	gen.	gen. indet.	Gray, 1825

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Langenau 1	Germany 4	48.50030	10.12190	17.7750	Geochelone	Geochelone sp.	Fitzinger, 1835	
Langenau 1	Germany 4	48.50030	10.12190	17.7750	Testudo	Testudo sp.	Linnaeus, 1758	
Langenau 2	Germany 4	48.50000	10.10000	17.7750	Geochelone	Geochelone sp.	Fitzinger, 1835	
Langenau 2	Germany 4	48.50000	10.10000	17.7750	Testudo	Testudo sp.	Linnaeus, 1758	
Eggingen-Mittelhart	Germany 4	48.35230	9.85980	17.8750	Geochelone	Geochelone sp.	Fitzinger, 1835	
Eggingen-Mittelhart	Germany 4	48.35230	9.85980	17.8750	Testudo	Testudo sp.	Linnaeus, 1758	
Grimmelfingen	Germany 4	48.22000	9.56000	18.0000	Testudo	Testudo sp.	Linnaeus, 1758	
Walangani	Kenya	-0.45000	34.05000	17.9000	gen.	gen. indet.	Gray, 1825	
Kiahera loc. R 120	Kenya	-0.40000	34.20000	18.0000	gen.	gen. indet.	Gray, 1825	
Chilleurs-aux-Bois, Loiret (Burdigalian)	France 4	48.06670	2.13330	19.0000	Testudo	Testudo promarginata	Reinach, 1900	
Chitenay, Loir-et-Cher	France 4	47.50000	1.36670	18.5000	Testudo	Testudo cf. promarginata	Reinach, 1900	
La Brosse, Maine-et-Loire	France 4	47.23000	0.22000	19.0000	Testudo	Testudo cf. promarginata	Reinach, 1900	
Mauvieres, Marcilly-sur-Maulne, Indre-et-Loire	France 4	47.55000	0.33000	18.5000	Testudo	Testudo cf. promarginata	Reinach, 1900	
Stubersheim 3	Germany 4	48.59470	9.91390	19.0000	Geochelone	Geochelone sp.	Fitzinger, 1835	
Thomas Farm Local Fauna, Gilchrist County, Florida	USA 2	- 00000.62	82.60000	18.5000	Geochelone	Geochelone cf. sp.	Rafinesque, 1832	
Baltringen	Germany 4	48.16670	9.86670	18.6000	Geochelone	Geochelone sp.	Fitzinger, 1835	
Baltringen	Germany 4	48.16670	9.86670	18.6000	Testudo	Testudo sp.	Linnaeus, 1758	
Fiskus	Namibia -2	-26.90000	15.40000	19.5000	Namibchersus	Namibchersus namaquensis	(Stromer, 1926)	
Glastal	Namibia -2	-26.90000	15.40000	19.0000	Namibchersus	Namibchersus sp.	Lapparent de Broin, 2003	
Grillental, northern Sperrgebiet	Namibia -2	-26.98330	15.35000	19.5000	Namibchersus	Namibchersus cf. namaquensis	(Stromer, 1926)	
Langental, nothern Sperrgebiet	Namibia -2	26.90000	15.40000	19.0000	Namibchersus	Namibchersus sp.	Lapparent de Broin, 2003	
Marsland Quadrangle, Box Butte County, Nebraska	USA 4	42.40000 -1	-103.30000	19.9000	gen.	gen. indet.	Gray, 1825	
Auterive, Haute-Garonne	France 4	43.35060	1.47320	20.7500	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972	
Grépiac, Haute-Garonne	France 4	43.40490	1.44790	20.7500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935	
Grépiac, Haute-Garonne	France 4	43.40490	1.44790	20.7500	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972	
Landes-le-Gaulois, Loir-et-Cher	France 4	47.65410	1.18380	20.7500	Testudo	Testudo sp.	Linnaeus, 1758	
Tréteau, Allier	France 4	46.36820	3.52490	21.0000	gen.	gen. indet.	Gray, 1825	
Barbotan-les-Thermes (Gers)	France 4	44.20000	0.40000	20.7500	Cheirogaster	Cheirogaster cf. sp.	Bergounioux, 1935	
Marooin, Volvic, Puy-de-Dôme	France 4	45.87270	3.03950	21.5000	Testudo	Testudo sp.	Linnaeus, 1758	
Saint-Gérand-le-Puy, Allier	France 4	46.25810	3.51200	21.5000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935	
Saint-Gérand-le-Puy, Allier	France 4	46.25810	3.51200	21.5000	Ergilemys	Ergilemys aff. bruneti	Broin, 1977	
Saint-Gérand-le-Puy, Allier	France 4	46.25810	3.51200	21.5000	Testudo	Testudo promarginata	Reinach, 1900	
Wallenried Channel, 10 km N Fribourg	Switzerland 4	46.88160	7.10650	21.7500	gen.	gen indet.	Gray, 1825	
Montaigu-le-Blin, La Chacotte, Allier	France 4	46.32000	3.52000	22.0000	gen.	gen. indet.	Gray, 1825	
Pechbonnieu, Haute-Garonne	France 4	43.70280	1.46650	22.7500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935	
Pechbonnieu, Haute-Garonne	France 4	43.70280	1.46650	22.7500	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972	
Saulcet, Allier	France 4	46.33000	3.27000	22.5000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972	

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Toledo Bend Dam. Newton County Texas	LISA	31.00000	000000:66-	23.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
Paulhiac, Lot-et-Garonne	France	44.56190	0.82040	23.0300	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Chiquimil, Catamarca	Argentina	-28.00000	-66.00000	5.5000	Geochelone	Chelonoidis gallardoi	Rovereto, 1914 (p. 115)
Stanianzi	Bulgaria	43.06250	22.92260	6.1650	Testudo	Testudo sp.	Linnaeus, 1758
Brisghella Cava Monticino	Italy	44.21670	11.76670	5.6650	Testudo	Testudo sp.	Linnaeus, 1758
Gretoni, Stazione Monte Amiata (SI)	Italy	42.96670	11.55000	5.8150	Testudo	Testudo sp.	Linnaeus, 1758
Polenzo section along Tanaro River, Verduno, Piedmont Italy	Italy	44.68580	7.93140	5.4400	Testudo	Testudo sp.	Linnaeus, 1758
Altan-Teli Oshi horizon (Dzereg valley)	Mongolia	47.10000	93.16670	8.3150	Ergilemys	Ergilemys devjaktini	(Khozatskiy & Narmandakh, 1975)
Polgárdi 2	Hungary	47.05000	18.30000	5.7500	Testudo	Testudo sp.	Linnaeus, 1758
Autovía A-30, Murcia	Spain	37.99100	-1.14570	6.3000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Casa Castillo near Jumilla, Murcia	Spain	38.46470	-1.42310	6.3000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Tudorovo	Moldova	46.43500	30.04250	6.3000	Protestudo	Protestudo bessarabica	(Riabinin, 1918)
Venta del Moro (Cabriel Basin)	Spain	39.48330	-1.35000	5.8000	gen.	gen. indet.	Gray, 1825
Kuyalnik	Ukraine	46.56000	30.74000	6.3000	Testudo	Testudo sp.	Linnaeus, 1758
Shkodova Gora	Ukraine	46.46670	30.73330	6.0250	Testudo	Testudo sp.	Linnaeus, 1758
Cliffs in the Paraná eastern riverside near Paraná, Entre Ríos	Argentina	-31.70000	-60.40000	7.5000	gen.		Gray, 1825 (p. 210)
Megalo Rema near Paleomilos	Greece	38.45000	22.02000	6.5000	Testudo	Testudo marmorum	Gaudry, 1862
Cava Monticino, near Brisigella, Emilia-Romana	Italy	44.21670	11.76670	8.5000	Testudo	Testudo sp.	Linnaeus, 1758
Lothagam 1	Kenya	2.88300	36.06600	6.5000	Geochelone	Geochelone cf. sp.	Fitzinger, 1835
Lothagam 2	Kenya	2.88300	36.06600	6.5000	Geochelone	Geochelone cf. sp.	Fitzinger, 1835
Lukeino	Kenya	0.80000	35.90000	6.3000	gen.	gen. indet.	Gray, 1825
Barranco del Cigarrón (B-Cg1), S El Palmar, Murcia	Spain	37.91510	-1.17080	6.5000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Hamra	United Arabian Emirates	23.10000	52.52500	7.0000	Centrochelys	Centrochelys aff. sulcata	(Miller, 1779)
Jebel Dhannah	United Arabian Emirates	24.15000	52.60000	7.0000	Centrochelys	Centrochelys aff. sulcata	(Miller, 1779)
Kihal	United Arabian Emirates	24.12000	52.85000	7.0000	Centrochelys	Centrochelys aff. sulcata	(Miller, 1779)
Shuwaihat	United Arabian Emirates	24.10000	52.44000	7.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
El Hatillo, 1.5 km north of, Falcón State	Venezuela	11.22000	-70.23000	8.8000	gen.	gen. indet.	Gray, 1825
Bajo Giuliani, La Pampa	Argentina	-36.68100	-64.37500	7.9000	Chelonoidis	Chelonoidis sp.	Fitzinger, 1835 (p. 112)
Quehué, La Pampa	Argentina	-37.12640	-64.50890	7.9000	Chelonoidis		Fitzinger, 1835
Tardosbánya 3	Hungary	47.66670	18.45000	7.2500	Testudo	Testudo sp.	Linnaeus, 1758
Chimishlia	Moldova	46.52000	28.78420	7.0400	Protestudo	Protestudo bessarabica	(Riabinin, 1918)
Taraklia	Moldova	46.22000	28.22670	7.0400	Protestudo	Protestudo bessarabica	(Riabinin, 1918)
Azmaka quarry 2.5 km NNE Chirpan	Bulgaria	42.23710	25.33580	7.0000	Testudo	Testudo marmorum	Gaudry, 1862
Morskaya 2 locality of the Sea of Azov region	Russia	47.28330	39.10000	7.2500	gen.	gen. Indet.	Gray, 1825
Kalimantsi 2-4	Bulgaria	41.45750	23.47390	7.6000	Testudo	Testudo cf. antiqua	Bronn, 1831
Kalimantsi 2-4	Bulgaria	41.45750	23.47390	7.6000	Testudo	Testudo sp.	Linnaeus, 1758
Montagne du Lubéron à Cucuron, Vaucluse et Alpes-de-Haute-Provence	France	43.79500	5.45000	7.5000	Testudo	Testudo sp.	Linnaeus, 1758
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Montagne du Lubéron à Cucuron, Vaucluse et Alpes-de-Haute-Provence	France	43.79500	5.45000	7.5000	Titanochelon	Titanochelon leberonensis	(Depéret, 1890)
Aubignas 1+2, Ardèche	France	44.58330	4.61670	8.0250	Testudo	Testudo amberiacensis	Deperet, 1894
Chobruchi	Moldova	46.60030	29.70830	7.3650	Protestudo	Protestudo bessarabica	(Riabinin, 1918)
Novoelizavetovka	Ukraine	47.15000	30.40550	7.3300	Protestudo	Protestudo bessarabica	(Riabinin, 1918)
Yurievka	Ukraine	46.94560	36.27500	8.0750	gen.	gen. indet.	Gray, 1825
Ambérieu-en-Bugey, Ain	France	45.95000	5.35000	8.5000	Testudo	Testudo amberiacensis	Deperet, 1894
Csákvár, Esterh?y Cave, Fejér Province	Hungary	47.40000	18.45000	8.2000	Protestudo	Protestudo csakvarensis	(Szalai, 1934)
Dorn-Dürkheim, Giloth Quarry, about 25 km S Mainz	Germany	49.76860	8.26970	8.3000	Testudo	Testudo sp.	Linnaeus, 1758
Века	Ukraine	46.89400	30.42000	7.9000	Protestudo	Protestudo bessarabica	(Riabinin, 1918)
Saint-Bauzile, Ardèche	France	44.68050	4.68710	8.5000	Testudo	Testudo sp.	Linnaeus, 1758
Rooilepel D. laini level	Namibia	-27.00000	15.50000	8.0000	Namibchersus	Namibchersus sp.	Lapparent de Broin, 2003
Kamenica nad Hronom	Slovakia	47.83150	18.72380	9.5000	Testudo	Testudo aff. sp.	Linnaeus, 1758
Grebeniki 1	Ukraine	46.89200	29.82500	8.1500	Protestudo	Protestudo bessarabica	(Riabinin, 1918)
Dove Spring Fauna, Mojave Desert, Kern County, California	NSA	35.30000	-118.50000	8.5000	Geochelone	Geochelone sp.	Fitzinger, 1835
Dove Spring Fauna, Mojave Desert, Kern County, California	NSA	35.30000	-118.50000	8.5000	Gopherus	Gopherus? sp.	Rafinesque, 1832
Kainary	Moldova	46.67890	29.04610	8.4000	Protestudo	Protestudo sp.	(Chkhikvadze, 1970)
Novoukrainka 1 (= Budenovka)	Ukraine	46.81500	30.28300	8.1500	Protestudo	Protestudo bessarabica	(Riabinin, 1918)
Montredon, Aude	France	43.23600	2.38820	8.9500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Udabno	Georgia	41.49220	45.38670	8.9500	Centrochelys	Centrochelys sp.	Gray, 1872
Krivoj Rog	Ukraine	47.91670	33.35000	8.9500	Testudo	Testudo ? sp.	Linnaeus, 1758
Sabadell	Spain	41.55000	2.10000	10.0000	Paleotestudo	Paleotestudo? antiqua	(Bronn, 1831)
Saint-Fons, Rhône	France	45.70910	4.85320	10.0000	Paleotestudo	Paleotestudo cf. antiqua	(Bronn, 1831)
Poc?e?ti right side Ikel River valley	Moldova	47.24500	28.67960	9.5000	Protestudo	Protestudo sp.	Chkhikvadze, 1970
Autovía Orbital de Barcelona B-40 (B40OV/S4K), Vallés-Penedés basin, Cataluña	Spain	41.53310	1.94260	10.3000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Autovía Orbital de Barcelona B-40 (B40OV/S4K), Vallés-Penedés basin, Cataluña	Spain	41.53310	1.94260	10.3000	Testudo	Testudo sp.	Linnaeus, 1758
Can Filuà, Santa Perpétua, Vallès Occidental, Barcelona	Spain	41.53330	2.18190	10.3000	Cheirogaster	Cheirogaster richardi	(Bergounioux, 1938)
Can Gavarra, Polinyá, Vallès Occidental, Barcelona	Spain	41.55710	2.15780	10.3000	Cheirogaster	Cheirogaster richardi	(Bergounioux, 1938)
Can Vinyalets, Barcelona	Spain	41.53320	2.18190	10.3000	Cheirogaster	Cheirogaster richardi	(Bergounioux, 1938)
Cerro de los Batallones, Madrid	Spain	40.17940	-3.72460	9.5000	Paleotestudo	Paleotestudo sp.	Lapparent de Broin, 2000
Cerro de los Batallones, Madrid	Spain	40.17940	-3.72460	9.5000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Djebel Krechem el Artsouma	Tunisia	35.50000	9.00000	10.3050	Geochelone	Geochelone sp.	Fitzinger, 1835
Love Bone Bed along State Road 241 near Archer, Alachua County, Florida	NSA	29.60000	-82.50000	9.2500	Geochelone	Geochelone sp.	Fitzinger, 1835
Varnitza	Moldova	46.86410	29.46920	9.6000	Protestudo	Protestudo moldavica	Chkhikvadze & Lungu, 1979
Bushor 1	Moldova	46.92250	28.26830	9.7000	Protestudo	Protestudo csakvarensis	(Szalai, 1934)
Kalfa	Moldova	46.90420	29.37530	9.7000	Protestudo	Protestudo csakvarensis	(Szalai, 1934)
Borský Svätý Jur	Slovakia	48.24000	17.20000	9.6500	Protestudo	Protestudo csakvarensis	(Szalai, 1934)
Arevalillo River (Arévola), Ávila	Spain	40.59350	-5.37790	10.2500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935

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Arévalo, Ávila, Castilla	Spain	41.06670	-4.72500	10.2500	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1917)
Benavente, Zamora	Spain	42.00340	-5.67840	10.5500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
WaKeeney Local Fauna (UM-K6-59 on the Lowell Hillman Ranch), Trego County, Kansas	USA	39.10000	-99.80000	10.0000	Geochelone	Geochelone sp.	Fitzinger, 1835
WaKeeney Local Fauna (UM-K6-59 on the Lowell Hillman Ranch), Trego County, Kansas	USA	39.10000	-99.80000	10.0000	Hesperotestudo	Hesperotestudo orthopygia	(Cope, 1878)
Lapushna	Moldova	46.88420	28.41190	9.8000	Testudo	Testudo sp.	Linnaeus, 1758
Valles de Fuentidueña, Segovia Province	Spain	41.41670	-4.00000	10.4000	Cheirogaster	Cheirgaster sp.	Bergounioux, 1935
Valles de Fuentidueña, Segovia Province	Spain	41.41670	-4.00000	10.4000	Testudo	Testudo aff. catalaunica	(Bataller, 1926)
Valles de Fuentidueña, Segovia Province	Spain	41.41670	-4.00000	10.4000	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Estació Depuradora d'Aigües Residuals Sabadell Riu-Ripoll, Cataluña, Vallés-Penedés basin	Spain	41.55000	2.10000	10.5500	Cheirogaster	Cheirogaster richardi	(Bergounioux, 1938)
Hostalets de Piérola Superior, Barcelone province, Cataluña, Vallés-Penedés basin	Spain	41.53490	1.76850	10.5500	Titanochelon	Titanochelon bolivari	(Hernández Pacheco, 1971)
Rudabanya (grey green marl 5C)	Hungary	48.38330	20.63330	10.1000	Testudo	Testudo sp.	Linnaeus, 1758
Rudabánya, Borsod-Abaúj-Zemplén Province (all)	Hungary	48.38330	20.63330	10.1000	Testudo	Testudo sp.	Linnaeus, 1758
Hammerschmiede 3	Germany	47.92730	10.59150	11.1000	Testudo	Testudo sp.	Linnaeus, 1758
Prairéal, Vaumas, Allier	France	46.44600	3.63000	24.2500	gen.	gen. indet.	Gray, 1825
Langy, Allier	France	46.26730	3.46970	22.1000	Testudo	Testudo sp.	Linnaeus, 1758
Veauche, Loire	France	45.56230	4.27560	25.0000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Toulouse Puits Borderouge niveau inférieur, Haute-Garonne	France	43.60000	1.43330	23.1150	Ergilemys	Ergilemys bruneti	Broin, 1977
La Milloque, Hautefage, Lot-et-Garonne	France	44.32000	0.78000	23.5000	Ergilemys	Ergilemys bruneti	Broin, 1977
Oberleichtersbach	Germany	50.35000	10.05000	24.0000	Geochelone	Geochelone aff. sp.	Fitzinger, 1835
Oberleichtersbach	Germany	50.35000	10.05000	24.0000	Testudo	Testudo sp.	Linnaeus, 1758
Créchy, Allier	France	46.26670	3.41670	23.0650	Ergilemys	Ergilemys bruneti	Broin, 1977
Dieupentale, Tarn-et-Garonne	France	43.86190	1.26960	23.5150	gen.	gen. indet.	Gray, 1825
Moissac 2, Tarn-et-Garonne	France	44.10390	1.08500	23.4150	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Moissac 2, Tarn-et-Garonne	France	44.10390	1.08500	23.4150	gen.	gen. indet.	Gray, 1825
Peublanc, Sorbier, Allier	France	46.36630	3.63640	23.0300	gen.	gen. indet.	Gray, 1825
Venelles 35 km N Marseille	France	43.62000	5.48000	23.0650	gen.	gen. indet.	Gray, 1825
Hautesvignes, Lot-et-Garonne	France	44.45910	0.34440	23.3500	gen.	gen. indet.	Gray, 1825
Mine des Rois, Dallet et Pont-du-Château, Puy-de-Dôme	France	45.78420	3.25840	23.5000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Saint-Thomas, Hautefage, Lot-et-Garonne	France	44.35570	0.77130	23.5000	gen.	gen. indet.	Gray, 1825
Aktau Chul'adyr Formatioon Lower Member	Kazakhstan	44.06670	79.36670	26.1000	gen.	gen. indet.	Gray, 1825
Coderet, Bransat, Allier	France	46.30000	3.28330	24.0000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Gannat, Allier (shallow lake)	France	46.10000	3.20000	24.0000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Pech-Desse, Moulliac, Tarn-et-Garonne, Phosphorite du Quercy	France	44.40000	1.60000	24.3000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Pech-Desse, Moulliac, Tarn-et-Garonne, Phosphorite du Quercy	France	44.40000	1.60000	24.3000	gen.	gen. indet.	Gray, 1825
Paali Nala level 1, Balochistan	Pakistan	28.85000	69.21670	24.5000	gen.	gen. Indet.	Gray, 1825
Pech-du-Fraysse, Saint-Projet, Tarn-et-Garonne, Phosporites du Quercy	France	44.75000	2.66670	24.9000	Cheirogaster	Cheirogaster phosphoritarum	Bergounioux, 1935
Pech-du-Fraysse, Saint-Projet, Tarn-et-Garonne, Phosporites du Quercy	France	44.75000	2.66670	24.9000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972

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Pech-du-Fraysse, Saint-Projet, Tarn-et-Garonne, Phosporites du Quercy	France	44.75000	2.66670	24.9000	Testudo	Testudo sp.	Linnaeus, 1758
Paali Nala level C2, Balochistan	Pakistan	28.85000	69.21670	25.5000	gen.	gen. Indet.	Gray, 1825
Marseille, Saint-André, Bouches-du-Rhône	France	43.45000	5.45000	26.5000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Marseille, Saint-André, Bouches-du-Rhône	France	43.45000	5.45000	26.5000	gen.	gen. indet.	Gray, 1825
Le Crozatier, Brons, Cantal	France	45.04020	3.15070	28.0000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Le Crozatier, Brons, Cantal	France	45.04020	3.15070	28.0000	Testudo	Testudo sp.	Linnaeus, 1758
North Mesa, Shara Murun region, Inner Mongolia	China	43.00000	112.00000	31.0000	Testudo	Testudo ulanensis	Gilmore, 1931
Twin Oboes, Shara Murun region, Inner Mongolia	China	43.00000	112.00000	31.0000	Testudo	Testudo nanus	Gilmore, 1931
Ardyn Obo basin, Chinese Postroad	Mongolia	45.00000	110.00000	31.0000	Ergilemys	Ergilemys insolitus	(Matthew & Granger, 1923)
Ardyn Obo basin, Chinese Postroad	Mongolia	45.00000	110.00000	31.0000	Testudo	Testudo demissa	Gilmore, 1931
Ardyn Obo basin, Chinese Postroad	Mongolia	45.00000	110.00000	31.0000	Testudo	Testudo kaiseni	Gilmore, 1931
Promontory Bluff (Sair Usu 150- Kalgan 350 miles)	Mongolia	45.00000	110.00000	31.0000	Ergilemys	Ergilemys insolitus	(Matthew & Granger, 1923)
Le Garouillas, Phosphorites du Quercy	France	44.40000	1.60000	28.7500	Cheirogaster	Cheirogaster nov. sp.	1
Neschers à La Sauvetat, Puy-de-Dôme	France	45.59920	3.17100	28.8500	gen.	gen. indet.	Gray, 1825
Rigal-Jouet, Phosphorites du Quercy	France	44.40000	1.60000	28.7500	gen.	gen. indet.	Gray, 1825
Saint-Germain-Lembron, Puy-de-Dôme	France	45.45850	3.23870	28.8500	gen.	gen. indet.	Gray, 1825
Vaumas, Allier	France	46.44610	3.63030	28.8500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Espenhain near Leipzig	Germany	51.18000	12.47000	30.2500	gen.	gen. indet	Gray, 1825
Bournoncle-Saint-Pierre, Auvergne, Haute-Loire	France	45.34870	3.32530	31.0000	Taraschelon	Taraschelon gigas	(Bravard, 1844)
Puylaurens, Tarn	France	43.57140	2.01380	29.5000	gen.	gen. indet.	Gray, 1825
Saint-Vivien-de-Monségur, Gironde	France	44.61570	0.17010	30.5000	gen.	gen. indet.	Gray, 1825
Talagay (Tayzhuzgen section)	Kazakhstan	47.59840	84.00000	30.2500	Ergilemys	Ergilemys saikenensis	(Chkhikvadze, 1972)
Los Barros quarry, 4 km SE Àvila	Spain	40.63080	-4.65870	31.0000	Cheirogaster	Cheirogaster ? sp.	Bergounioux, 1935
Pichovet, Vachères, Lubéron, Provence-Alpes-Côte d'Azur	France	43.90000	5.60000	29.7000	gen.	gen. indet.	Gray, 1825
Itardies (Caylus, Tarn-et-Garonne)	France	44.23330	1.78330	30.5000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Mounayne, Phosphorites du Quercy	France	44.40000	1.60000	30.5000	gen.	gen. indet.	Gray, 1825
Pech-Crabit, Bach, Lot, Phosphorites du Quercy	France	44.40000	1.60000	30.6000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Pech-Crabit, Bach, Lot, Phosphorites du Quercy	France	44.40000	1.60000	30.6000	gen.	gen. indet.	Gray, 1825
Roqueprune, Mouillac, Tarn-et-Garonne, Phosphorites du Quercy	France	44.61670	0.03330	30.5000	gen.	gen. indet.	Gray, 1825
La Plante 2, Concots, Lot, Phosporite du Quercy	France	44.40000	1.60000	31.8000	gen.	gen. indet.	Gray, 1825
Mas de Got A, Phosphorites du Quercy	France	44.40000	1.60000	31.8000	gen.	gen. indet.	Gray, 1825
Mas de Got B, Phosphorites du Quercy	France	44.40000	1.60000	31.8000	gen.	gen. indet.	Gray, 1825
AMNH quarries A, B, C, Fayyum	Egypt	29.50000	30.90000	32.6500	Gigantochersina	Gigantochersina ammon	Andres in Andrews & Beadnell, 1903
Gua Teg	Mongolia	43.50000	108.00000	32.6000	Ergilemys	Ergilemys insolitus	(Matthew & Granger, 1923)
Neumühle near Weinheim/Alzey	Germany	49.73610	8.06530	32.9500	gen.	gen. indet	Gray, 1825
Thaytiniti, Dhofar	Oman	17.00000	54.00000	32.5000	gen.	gen. Indet.	Gray, 1825
Ravet-Lupo, Caylus, Lot, Phosphorites du Quercy	France	44.40000	1.60000	33.2000	gen.	gen. indet.	Gray, 1825
Ravet-Lupo, Caylus, Lot, Phosphorites du Quercy	France	44.40000	1.60000	33.2000	gen.	gen. inde	t.

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Ruch, Gironde	France	44.77550	-0.03920	33.1000	gen.	gen. indet.	Gray, 1825
Sainte-Marthe, Eymet, Dordogne	France	44.67850	0.39680	33.1000	gen.	gen. indet.	Gray, 1825
Soumaille, Pardaillan, Lot-et-Garonne	France	44.66710	0.25980	33.2500	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Aubrelong 1, Phosphorites du Quercy, Lot	France	44.40000	1.60000	33.5000	Cheirogaster	Cheirogaster cf. sp.	Bergounioux, 1935
Kalgan area	China	41.00000	115.00000	32.5000	Testudo	Testudo kalganensis	Gilmore, 1931
Quercy (Phosphorites du Quercy)	France	44.20000	1.50000	32.0000	Cheirogaster	Cheirogaster phosphoritarum	Bergounioux, 1935
Quercy (Phosphorites du Quercy)	France	44.20000	1.50000	32.0000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Baby 2, Saint-André-et-Appelles, Gironde	France	44.81200	0.21330	33.9500	Cheirogaster	Cheirogaster maurini	Bergounioux, 1935
Haunsberg near St. Pankraz, Salzburg	Austria	47.76560	14.20790	50.0000	Titanochelon	Titanochelon steinbacheri	Karl, 1996
Swift Current Creek, southern Saskatchewan	Canada	50.20000	-107.60000	44.5000	gen.	gen. indet.	Gray, 1826
Korablik Kiinkerish	Kazakhstan	48.00000	84.50000	34.2000	Ergilemys	Ergilemys sp.	Chkhikvadze, 1972
Ardyn Obo (Ergelyeen Dzo), SE Gobi	Mongolia	43.50000	109.00000	34.2000	Ergilemys	Ergilemys insolitus	(Matthew & Granger, 1923)
Saint-Capraise-d'Eymet, Dordogne	France	44.70870	0.50320	33.9500	gen.	gen. indet.	Gray, 1825
Sainte-Néboule, Béduer, Lot	France	44.58330	1.93330	35.5500	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Escamps, Phosphorites du Quercy	France	44.40000	1.58330	34.4000	gen.	gen. indet.	Gray, 1825
Lostange, Beduer, Lot	France	44.58110	1.94840	34.4000	Dithyrosternon	Dithyrosternon sp.	Pictet & Humbert, 1869
Lostange, Beduer, Lot	France	44.58110	1.94840	34.4000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Rosières, Escamps, Lot, Phosporites du Quercy	France	44.40000	1.60000	34.4000	gen.	gen. indet.	Gray, 1825
Sainte-Croix-de-Brignon, Gard	France	43.98890	4.21660	35.0000	Ergilemys	Ergilemys aff. sp.	Ckhikvadze, 1972
Sindou D, Phosphorites du Quercy	France	44.40000	1.60000	35.0000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Côja, Cerâmica da Carriça	Portugal	40.27010	-7.97810	35.5000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Paris Montmartre	France	48.86670	2.33330	35.2000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
La Débruge = Butte de Sainte Radegonde (pres d'Apt, Gargas, Vaucluse)	France	43.90000	5.38330	35.5000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
La Grave, Bonsac, Gironde	France	45.01130	-0.22510	35.5000	Cheirogaster	Cheirogaster sp.	Bergounioux, 1935
Langlès, Saint-Martin-de-Villeréal, Lot-et-Garonne	France	44.64470	0.82040	35.5000	gen.	gen. indet.	Gray, 1825
Santiago Yolomécatl, Oaxaca	Mexico	17.47000	-97.56000	36.5000	Hadrianus	Hadrianus aff. sp.	Cope, 1872
Santiago Yolomécatl, Oaxaca	Mexico	17.47000	-97.56000	36.5000	Stylemys	Stylemys sp.	Leidy, 1851
Calf Creek near Eastend, Saskatchewan	Canada	49.00000	-109.00000	36.9000	gen.	gen. indet.	Gray, 1825
Rocourt-Saint-Martin, Aisne	France	49.15000	3.38330	38.5000	gen.	gen. indet.	Gray, 1825
Rocourt-Saint-Martin, Aisne	France	49.15000	3.38330	38.5000	Hadrianus	Hadrianus sp.	Cope, 1872
Myaing UCMP locality V6204	Myanmar	21.60000	94.80000	38.5000	gen.	gen. Indet.	Gray, 1825
Thandaung kyitchaung, UCMP locality V78090	Myanmar	21.92000	94.56000	38.5000	gen.	gen. Indet.	Gray, 1825
Chéry-Chartreuve (Aisne)	France	49.26670	3.61670	37.7000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
Grisolles, Est du Basin de Paris, Aisne	France	49.15000	3.35000	37.7000	gen.	gen. indet.	Gray, 1825
Castres, Bassin de l'Agout, Tarn	France	43.60520	2.24090	39.0000	Hadrianus	Hadrianus castrensis	(Bergounioux, 1935)
Lautrec, Tarn	France	43.70560	2.13590	39.0000	Hadrianus	Hadrianus sp.	Cope, 1872
Robiac, Saint-Mamert, Gard	France	44.26670	4.13330	39.0000	gen.	gen. indet.	Gray, 1825

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Locality	Country	Latitude	Longitude	Age	Genus	Taxon	Author
Robiac, Saint-Mamert, Gard	France	44.26670	4.13330	39.0000	Hadrianus	Hadrianus sp.	Cope, 1872
Naia, Tondela, Viseu	Portugal	40.57480	-8.03980	38.5000	Cheirogaster	Cheirogaster ? sp.	Bergounioux, 1935
Mazaterón, Soria Province, Castilla y León	Spain	41.50000	-2.10000	39.5000	Pelorochelon	Pelorochelon soriana	Pérez-García, Ortega & Jiménez Fuentes, 2016
Geiseltal near Halle (Mücheln), Sachsen-Anhalt	Germany	51.33390	11.83180	44.5000	Pelorochelon	Pelorochelon eocaenica	(Hummel, 1935)
Issel, Department Aude	France	43.46670	1.98330	42.4000	Hadrianus	Hadrianus sp.	Cope, 1872
Le Guépelle, Saint-Witz, Val d'Oise	France	49.08420	2.53550	42.5000	Ergilemys	Ergilemys sp.	Ckhikvadze, 1972
La Défense, Hauts-de-Seine	France	48.90000	2.23330	43.6000	Hadrianus	Hadrianus sp.	Cope, 1872
Aigues-Vives 2, Hérault	France	43.33750	2.81790	43.5000	Hadrianus	Hadrianus sp.	Cope, 1872
Jumencourt, Aisne	France	49.50860	3.35630	43.5000	Hadrianus	Hadrianus sp.	Cope, 1872
Bouxwiller, Bas-Rhin	France	48.81670	7.48330	45.0000	Hadrianus	Hadrianus sp.	Cope, 1872
Stena	Kazakhstan	47.50000	84.80000	48.0000	Hadrianus	Hadrianus obailiensis	Chkhikvadze, 1972
Saint-Papoul NE Carcasonne, Aude	France	43.33330	2.03330	52.2000	Fontainechelon	Fontainechelon cassouleti	(Claude & Tong, 2004)
North Fork, Wapiti Valley north Shoshone River (NF-5 Wapiti III), Park County, Wyoming	NSA	44.30000	-109.00000	49.4500	Hadrianus	Hadrianus sp.	Cope, 1872
UCMP V98009, Uinta County, Wyoming	USA	41.00000	-110.00000	49.4000	Hadrianus	Hadrianus corsoni	(Leidy, 1871)
Cuis (Marne)	France	49.00000	3.96670	49.5000	Hadrianus	Hadrianus sp.	Cope, 1872
Grauves (Marne)	France	48.96670	3.96670	49.5000	Hadrianus	Hadrianus sp.	Cope, 1872
Mancy, Marne	France	48.98370	3.93510	49.5000	Hadrianus	Hadrianus sp.	Cope, 1872
Monthelon, Marne	France	48.98330	3.93330	49.5000	Hadrianus	Hadrianus sp.	Cope, 1872
Andarak 1, Osh Region	Kyrgyzstan	39.74990	69.49160	52.0000	Hadrianus	Hadrianus vialovi	(Chkhikvadze, 1984)
Andarak 2, Osh Region	Kyrgyzstan	39.79000	69.49000	50.5000	Hadrianus	Hadrianus vialovi	(Chkhikvadze, 1984)
Khayzhin-Ula 2	Mongolia	44.20000	100.00000	52.0000	Kansuchelys	Kansuchelys sp.	Ye, 1963
North Fork, Wapiti Valley north Shoshone River (NF-16 Wapiti II), Park County, Wyoming	USA	44.30000	-109.00000	52.8500	Hadrianus	Hadrianus sp.	Cope, 1872
North Fork, Wapiti Valley north Shoshone River (NF-17 Wapiti II), Park County, Wyoming	NSA	44.30000	-109.00000	52.8500	Hadrianus	Hadrianus sp.	Cope, 1872
North Fork, Wapiti Valley north Shoshone River (NF-3 Wapiti II), Park County, Wyoming	NSA	44.30000	-109.00000	52.8500	Hadrianus	Hadrianus sp.	Cope, 1872
North Fork, Wapiti Valley north Shoshone River (NF-8 Wapiti II), Park County, Wyoming	NSA	44.30000	-109.00000	52.8500	Hadrianus	Hadrianus sp.	Cope, 1872
UCMP V70251, Patrick Draw S, Sweetwater County, Wyoming	USA	41.70000	-109.00000	52.9000	Hadrianus	Hadrianus majusculus	Hay, 1904
UCMP V70251, Patrick Draw S, Sweetwater County, Wyoming	NSA	41.70000	-109.00000	52.9000	Hadrianus	Hadrianus sp.	Cope, 1872
UCMP V74024, Turtle Graveyard General, Sweetwater County, Wyoming	NSA	41.00000	-108.00000	52.9000	Hadrianus	Hadrianus majusculus	Hay, 1904
Tsagan-Khushu (Naran member, layer 2)	Mongolia	43.45500	100.37000	56.1100	gen.	gen. Indet.	Gray, 1825
Kaseki-Kabe near Shiramine, Kuwajima, Hakusan City, Ishikawa Prefecture, Honshu	Japan	36.20000	136.63300	122.0000	gen.	gen. indet.	Gray, 1825
Cedazo local fauna, Aguascalientes, Mexico	Mexico	21.82401	-102.36874	1.0500	Gopherus	Gopherus pargensis	Mooser, 1980

## **Declaration of Authorship**