Methane_comp

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```r
# Load in trailer Methane
Trailer <- readRDS('TrailerProcessed-20240601.rds')

trailer_ch4 <- Trailer %>% select(time_utc, ch4) %>%
  mutate(day = as.Date(format(as.POSIXct(time_utc), '%Y-%m-%d')))
```

```r
# Load in VNF data
vnf <- readRDS('pb-vnf_20230501-20240601.rds')

vnf <- vnf %>%
  mutate(across(where(is.numeric),  ~ na_if(.x, 999999))) %>% # replace 999999 as missing
  filter(!(is.na(temp_bb) | is.na(methane_eq))) # keep those not missing temperature

vnf <- vnf %>%
  filter(temp_bb >= 1600)

loving_lonlat <- c(-104.1089, 32.2961)
distance_km_lov <- function(long, lati){
  start <- c(long, lati)
  distGeo(start, loving_lonlat) / 1000
}

vnf <- vnf %>%
  mutate(distToLovi = mapply(distance_km_lov, lon, lat))

vnf_10km <- vnf %>%
  filter(distToLovi <= 10)

merged_ch4 <- vnf_10km %>%
  select(date, methane_eq) %>%
  left_join(trailer_ch4 %>% select(day, ch4), join_by(date == day)) %>%
  rename('ch4_vnf_10km' =  'methane_eq',
         'ch4_trailer' = 'ch4')
```

```
## Warning in left_join(., trailer_ch4 %>% select(day, ch4), join_by(date == : Detected an unexpected ma
## i Row 1 of `x` matches multiple rows in `y`.
## i Row 553 of `y` matches multiple rows in `x`.
## i If a many-to-many relationship is expected, set `relationship =
## "many-to-many"` to silence this warning.
```

```r
merged_ch4
```

```
##             date ch4_vnf_10km ch4_trailer
## 1     2023-05-08   0.12371489      1970.0
```

```
## 2    2023-05-08    0.12371489       2007.2
## 3    2023-05-08    0.12371489       2026.2
## 4    2023-05-08    0.12371489       2165.0
## 5    2023-05-08    0.12371489       2147.8
## 6    2023-05-08    0.12371489       2458.6
## 7    2023-05-08    0.12371489       2204.8
## 8    2023-05-08    0.12371489       3274.9
## 9    2023-05-08    0.12371489       3548.0
## 10   2023-05-08    0.12371489       3225.0
## 11   2023-05-08    0.12371489       3834.9
## 12   2023-05-08    0.12371489       5170.3
## 13   2023-05-08    0.12371489       5211.3
## 14   2023-05-08    0.12371489       4159.5
## 15   2023-05-08    0.12371489       3875.5
## 16   2023-05-08    0.12371489       3371.3
## 17   2023-05-08    0.12371489       2746.4
## 18   2023-05-08    0.12371489       2306.2
## 19   2023-05-08    0.12371489       2083.3
## 20   2023-05-08    0.12371489       2035.9
## 21   2023-05-08    0.12371489       2043.9
## 22   2023-05-08    0.12371489       2043.5
## 23   2023-05-08    0.12371489       2049.8
## 24   2023-05-08    0.12371489       2084.1
## 25   2023-05-08    0.06108836       1970.0
## 26   2023-05-08    0.06108836       2007.2
## 27   2023-05-08    0.06108836       2026.2
## 28   2023-05-08    0.06108836       2165.0
## 29   2023-05-08    0.06108836       2147.8
## 30   2023-05-08    0.06108836       2458.6
## 31   2023-05-08    0.06108836       2204.8
## 32   2023-05-08    0.06108836       3274.9
## 33   2023-05-08    0.06108836       3548.0
## 34   2023-05-08    0.06108836       3225.0
## 35   2023-05-08    0.06108836       3834.9
## 36   2023-05-08    0.06108836       5170.3
## 37   2023-05-08    0.06108836       5211.3
## 38   2023-05-08    0.06108836       4159.5
## 39   2023-05-08    0.06108836       3875.5
## 40   2023-05-08    0.06108836       3371.3
## 41   2023-05-08    0.06108836       2746.4
## 42   2023-05-08    0.06108836       2306.2
## 43   2023-05-08    0.06108836       2083.3
## 44   2023-05-08    0.06108836       2035.9
## 45   2023-05-08    0.06108836       2043.9
## 46   2023-05-08    0.06108836       2043.5
## 47   2023-05-08    0.06108836       2049.8
## 48   2023-05-08    0.06108836       2084.1
## 49   2023-05-08    0.10134372       1970.0
## 50   2023-05-08    0.10134372       2007.2
## 51   2023-05-08    0.10134372       2026.2
## 52   2023-05-08    0.10134372       2165.0
## 53   2023-05-08    0.10134372       2147.8
## 54   2023-05-08    0.10134372       2458.6
## 55   2023-05-08    0.10134372       2204.8
```

```
## 56  2023-05-08   0.10134372      3274.9
## 57  2023-05-08   0.10134372      3548.0
## 58  2023-05-08   0.10134372      3225.0
## 59  2023-05-08   0.10134372      3834.9
## 60  2023-05-08   0.10134372      5170.3
## 61  2023-05-08   0.10134372      5211.3
## 62  2023-05-08   0.10134372      4159.5
## 63  2023-05-08   0.10134372      3875.5
## 64  2023-05-08   0.10134372      3371.3
## 65  2023-05-08   0.10134372      2746.4
## 66  2023-05-08   0.10134372      2306.2
## 67  2023-05-08   0.10134372      2083.3
## 68  2023-05-08   0.10134372      2035.9
## 69  2023-05-08   0.10134372      2043.9
## 70  2023-05-08   0.10134372      2043.5
## 71  2023-05-08   0.10134372      2049.8
## 72  2023-05-08   0.10134372      2084.1
## 73  2023-05-08   0.06886247      1970.0
## 74  2023-05-08   0.06886247      2007.2
## 75  2023-05-08   0.06886247      2026.2
## 76  2023-05-08   0.06886247      2165.0
## 77  2023-05-08   0.06886247      2147.8
## 78  2023-05-08   0.06886247      2458.6
## 79  2023-05-08   0.06886247      2204.8
## 80  2023-05-08   0.06886247      3274.9
## 81  2023-05-08   0.06886247      3548.0
## 82  2023-05-08   0.06886247      3225.0
## 83  2023-05-08   0.06886247      3834.9
## 84  2023-05-08   0.06886247      5170.3
## 85  2023-05-08   0.06886247      5211.3
## 86  2023-05-08   0.06886247      4159.5
## 87  2023-05-08   0.06886247      3875.5
## 88  2023-05-08   0.06886247      3371.3
## 89  2023-05-08   0.06886247      2746.4
## 90  2023-05-08   0.06886247      2306.2
## 91  2023-05-08   0.06886247      2083.3
## 92  2023-05-08   0.06886247      2035.9
## 93  2023-05-08   0.06886247      2043.9
## 94  2023-05-08   0.06886247      2043.5
## 95  2023-05-08   0.06886247      2049.8
## 96  2023-05-08   0.06886247      2084.1
## 97  2023-05-11   0.04063351      2329.7
## 98  2023-05-11   0.04063351      2133.1
## 99  2023-05-11   0.04063351      2324.0
## 100 2023-05-11   0.04063351      2317.7
## 101 2023-05-11   0.04063351      1979.0
## 102 2023-05-11   0.04063351      1966.4
## 103 2023-05-11   0.04063351      1974.1
## 104 2023-05-11   0.04063351      1998.9
## 105 2023-05-11   0.04063351      2169.0
## 106 2023-05-11   0.04063351      2128.1
## 107 2023-05-11   0.04063351      2181.5
## 108 2023-05-11   0.04063351      2178.5
## 109 2023-05-11   0.04063351      2545.9
```

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## 110   2023-05-11   0.04063351   2932.5
## 111   2023-05-11   0.04063351   2455.5
## 112   2023-05-11   0.04063351   2398.5
## 113   2023-05-11   0.04063351   2416.1
## 114   2023-05-11   0.04063351   1976.4
## 115   2023-05-11   0.04063351   1967.7
## 116   2023-05-11   0.04063351   1963.3
## 117   2023-05-11   0.04063351   1966.6
## 118   2023-05-11   0.04063351   2077.5
## 119   2023-05-11   0.04063351   1975.3
## 120   2023-05-11   0.04063351   1968.3
## 121   2023-05-12   0.05638762   1980.0
## 122   2023-05-12   0.05638762   1981.4
## 123   2023-05-12   0.05638762   2093.6
## 124   2023-05-12   0.05638762   2057.6
## 125   2023-05-12   0.05638762   2650.5
## 126   2023-05-12   0.05638762   3005.9
## 127   2023-05-12   0.05638762   3669.7
## 128   2023-05-12   0.05638762   3495.8
## 129   2023-05-12   0.05638762   5434.3
## 130   2023-05-12   0.05638762   5081.5
## 131   2023-05-12   0.05638762   3565.2
## 132   2023-05-12   0.05638762   4807.5
## 133   2023-05-12   0.05638762   2962.5
## 134   2023-05-12   0.05638762   4275.7
## 135   2023-05-12   0.05638762   3491.7
## 136   2023-05-12   0.05638762   3140.6
## 137   2023-05-12   0.05638762   2699.2
## 138   2023-05-12   0.05638762   2499.6
## 139   2023-05-12   0.05638762   2301.0
## 140   2023-05-12   0.05638762   2311.1
## 141   2023-05-12   0.05638762   2087.4
## 142   2023-05-12   0.05638762   2039.7
## 143   2023-05-12   0.05638762   2074.0
## 144   2023-05-12   0.05638762   2091.0
## 145   2023-05-26   0.05392298   2072.6
## 146   2023-05-26   0.05392298   2049.7
## 147   2023-05-26   0.05392298   2065.5
## 148   2023-05-26   0.05392298   2083.3
## 149   2023-05-26   0.05392298   2083.0
## 150   2023-05-26   0.05392298   2085.3
## 151   2023-05-26   0.05392298   2141.1
## 152   2023-05-26   0.05392298   2290.6
## 153   2023-05-26   0.05392298   2206.7
## 154   2023-05-26   0.05392298   2228.0
## 155   2023-05-26   0.05392298   2204.9
## 156   2023-05-26   0.05392298   2312.9
## 157   2023-05-26   0.05392298   2284.4
## 158   2023-05-26   0.05392298   2192.1
## 159   2023-05-26   0.05392298   2206.3
## 160   2023-05-26   0.05392298   2152.9
## 161   2023-05-26   0.05392298   2259.3
## 162   2023-05-26   0.05392298   2171.2
## 163   2023-05-26   0.05392298   2166.7
```

```
## 164   2023-05-26   0.05392298      2187.4
## 165   2023-05-26   0.05392298      2121.0
## 166   2023-05-26   0.05392298      2080.5
## 167   2023-05-26   0.05392298      2070.3
## 168   2023-05-26   0.05392298      2094.3
## 169   2023-05-26   0.03720076      2072.6
## 170   2023-05-26   0.03720076      2049.7
## 171   2023-05-26   0.03720076      2065.5
## 172   2023-05-26   0.03720076      2083.3
## 173   2023-05-26   0.03720076      2083.0
## 174   2023-05-26   0.03720076      2085.3
## 175   2023-05-26   0.03720076      2141.1
## 176   2023-05-26   0.03720076      2290.6
## 177   2023-05-26   0.03720076      2206.7
## 178   2023-05-26   0.03720076      2228.0
## 179   2023-05-26   0.03720076      2204.9
## 180   2023-05-26   0.03720076      2312.9
## 181   2023-05-26   0.03720076      2284.4
## 182   2023-05-26   0.03720076      2192.1
## 183   2023-05-26   0.03720076      2206.3
## 184   2023-05-26   0.03720076      2152.9
## 185   2023-05-26   0.03720076      2259.3
## 186   2023-05-26   0.03720076      2171.2
## 187   2023-05-26   0.03720076      2166.7
## 188   2023-05-26   0.03720076      2187.4
## 189   2023-05-26   0.03720076      2121.0
## 190   2023-05-26   0.03720076      2080.5
## 191   2023-05-26   0.03720076      2070.3
## 192   2023-05-26   0.03720076      2094.3
## 193   2023-05-30   0.24532838      2021.6
## 194   2023-05-30   0.24532838      2010.4
## 195   2023-05-30   0.24532838      2146.2
## 196   2023-05-30   0.24532838      2731.3
## 197   2023-05-30   0.24532838      2590.3
## 198   2023-05-30   0.24532838      2536.7
## 199   2023-05-30   0.24532838      2422.5
## 200   2023-05-30   0.24532838      2940.1
## 201   2023-05-30   0.24532838      2642.3
## 202   2023-05-30   0.24532838      2708.3
## 203   2023-05-30   0.24532838      3406.2
## 204   2023-05-30   0.24532838      6571.0
## 205   2023-05-30   0.24532838      3209.1
## 206   2023-05-30   0.24532838      3713.9
## 207   2023-05-30   0.24532838      3215.4
## 208   2023-05-30   0.24532838      2555.1
## 209   2023-05-30   0.24532838      2457.5
## 210   2023-05-30   0.24532838      2393.7
## 211   2023-05-30   0.24532838      2272.2
## 212   2023-05-30   0.24532838      2096.9
## 213   2023-05-30   0.24532838         NaN
## 214   2023-05-30   0.24532838         NaN
## 215   2023-05-30   0.24532838      2015.0
## 216   2023-05-30   0.24532838      2515.5
## 217   2023-06-04   0.03393251      2056.5
```

```
## 218   2023-06-04   0.03393251         2048.6
## 219   2023-06-04   0.03393251         2099.8
## 220   2023-06-04   0.03393251         2340.0
## 221   2023-06-04   0.03393251         2269.5
## 222   2023-06-04   0.03393251         2401.5
## 223   2023-06-04   0.03393251         2449.5
## 224   2023-06-04   0.03393251         2085.4
## 225   2023-06-04   0.03393251         2204.7
## 226   2023-06-04   0.03393251         2329.3
## 227   2023-06-04   0.03393251         2338.6
## 228   2023-06-04   0.03393251         2374.5
## 229   2023-06-04   0.03393251         2696.6
## 230   2023-06-04   0.03393251         3006.8
## 231   2023-06-04   0.03393251         2527.3
## 232   2023-06-04   0.03393251         2111.1
## 233   2023-06-04   0.03393251         2057.1
## 234   2023-06-04   0.03393251         2014.0
## 235   2023-06-04   0.03393251         1994.6
## 236   2023-06-04   0.03393251         1984.9
## 237   2023-06-04   0.03393251         1994.4
## 238   2023-06-04   0.03393251         1988.5
## 239   2023-06-04   0.03393251         2000.6
## 240   2023-06-04   0.03393251         2001.2
## 241   2023-06-09   0.03359900         1961.4
## 242   2023-06-09   0.03359900         1968.9
## 243   2023-06-09   0.03359900         2220.8
## 244   2023-06-09   0.03359900         2614.2
## 245   2023-06-09   0.03359900         2110.5
## 246   2023-06-09   0.03359900         2432.2
## 247   2023-06-09   0.03359900         2209.8
## 248   2023-06-09   0.03359900         4403.3
## 249   2023-06-09   0.03359900         3790.1
## 250   2023-06-09   0.03359900         3386.3
## 251   2023-06-09   0.03359900         4574.1
## 252   2023-06-09   0.03359900         5220.0
## 253   2023-06-09   0.03359900         3546.8
## 254   2023-06-09   0.03359900         3790.7
## 255   2023-06-09   0.03359900         3283.3
## 256   2023-06-09   0.03359900         3301.1
## 257   2023-06-09   0.03359900         2899.6
## 258   2023-06-09   0.03359900         2310.4
## 259   2023-06-09   0.03359900         2239.8
## 260   2023-06-09   0.03359900         2227.8
## 261   2023-06-09   0.03359900         2080.9
## 262   2023-06-09   0.03359900         2057.7
## 263   2023-06-09   0.03359900         2097.2
## 264   2023-06-09   0.03359900         2008.2
## 265   2023-06-16   0.08193706         1955.3
## 266   2023-06-16   0.08193706         1956.6
## 267   2023-06-16   0.08193706         1998.9
## 268   2023-06-16   0.08193706         2922.7
## 269   2023-06-16   0.08193706         2440.3
## 270   2023-06-16   0.08193706         1976.4
## 271   2023-06-16   0.08193706         2402.4
```

```
## 272   2023-06-16   0.08193706        2326.0
## 273   2023-06-16   0.08193706        2093.2
## 274   2023-06-16   0.08193706        2391.1
## 275   2023-06-16   0.08193706        1965.3
## 276   2023-06-16   0.08193706        2848.7
## 277   2023-06-16   0.08193706        2210.8
## 278   2023-06-16   0.08193706        2094.1
## 279   2023-06-16   0.08193706        2179.1
## 280   2023-06-16   0.08193706        2123.7
## 281   2023-06-16   0.08193706        2186.4
## 282   2023-06-16   0.08193706        2076.7
## 283   2023-06-16   0.08193706        2070.5
## 284   2023-06-16   0.08193706        1977.1
## 285   2023-06-16   0.08193706        1976.9
## 286   2023-06-16   0.08193706        1934.5
## 287   2023-06-16   0.08193706        1972.8
## 288   2023-06-16   0.08193706        1973.1
## 289   2023-06-20   0.03857220        1927.9
## 290   2023-06-20   0.03857220        1926.2
## 291   2023-06-20   0.03857220        2074.3
## 292   2023-06-20   0.03857220        2228.4
## 293   2023-06-20   0.03857220        2435.5
## 294   2023-06-20   0.03857220        2594.3
## 295   2023-06-20   0.03857220        2362.4
## 296   2023-06-20   0.03857220        2308.9
## 297   2023-06-20   0.03857220        2540.4
## 298   2023-06-20   0.03857220        1970.4
## 299   2023-06-20   0.03857220        2052.2
## 300   2023-06-20   0.03857220        2696.0
## 301   2023-06-20   0.03857220        3691.7
## 302   2023-06-20   0.03857220        3088.1
## 303   2023-06-20   0.03857220        2859.1
## 304   2023-06-20   0.03857220        2508.5
## 305   2023-06-20   0.03857220        2609.5
## 306   2023-06-20   0.03857220        2017.6
## 307   2023-06-20   0.03857220        2038.8
## 308   2023-06-20   0.03857220        2053.6
## 309   2023-06-20   0.03857220        2063.3
## 310   2023-06-20   0.03857220        2032.9
## 311   2023-06-20   0.03857220        1948.7
## 312   2023-06-20   0.03857220        1935.3
## 313   2023-06-25   0.04703551        1930.8
## 314   2023-06-25   0.04703551        1946.8
## 315   2023-06-25   0.04703551        1955.6
## 316   2023-06-25   0.04703551        2307.1
## 317   2023-06-25   0.04703551        2138.6
## 318   2023-06-25   0.04703551        2508.5
## 319   2023-06-25   0.04703551        2584.9
## 320   2023-06-25   0.04703551        2438.9
## 321   2023-06-25   0.04703551        2509.3
## 322   2023-06-25   0.04703551        4216.5
## 323   2023-06-25   0.04703551        4425.7
## 324   2023-06-25   0.04703551        4102.4
## 325   2023-06-25   0.04703551        4204.6
```

```
## 326   2023-06-25   0.04703551      4737.4
## 327   2023-06-25   0.04703551      3468.8
## 328   2023-06-25   0.04703551      2611.7
## 329   2023-06-25   0.04703551      2160.9
## 330   2023-06-25   0.04703551      1975.2
## 331   2023-06-25   0.04703551      1994.8
## 332   2023-06-25   0.04703551      1949.8
## 333   2023-06-25   0.04703551      1950.1
## 334   2023-06-25   0.04703551      1941.4
## 335   2023-06-25   0.04703551      1940.8
## 336   2023-06-25   0.04703551      1948.6
## 337   2023-06-25   0.08732665      1930.8
## 338   2023-06-25   0.08732665      1946.8
## 339   2023-06-25   0.08732665      1955.6
## 340   2023-06-25   0.08732665      2307.1
## 341   2023-06-25   0.08732665      2138.6
## 342   2023-06-25   0.08732665      2508.5
## 343   2023-06-25   0.08732665      2584.9
## 344   2023-06-25   0.08732665      2438.9
## 345   2023-06-25   0.08732665      2509.3
## 346   2023-06-25   0.08732665      4216.5
## 347   2023-06-25   0.08732665      4425.7
## 348   2023-06-25   0.08732665      4102.4
## 349   2023-06-25   0.08732665      4204.6
## 350   2023-06-25   0.08732665      4737.4
## 351   2023-06-25   0.08732665      3468.8
## 352   2023-06-25   0.08732665      2611.7
## 353   2023-06-25   0.08732665      2160.9
## 354   2023-06-25   0.08732665      1975.2
## 355   2023-06-25   0.08732665      1994.8
## 356   2023-06-25   0.08732665      1949.8
## 357   2023-06-25   0.08732665      1950.1
## 358   2023-06-25   0.08732665      1941.4
## 359   2023-06-25   0.08732665      1940.8
## 360   2023-06-25   0.08732665      1948.6
## 361   2023-06-26   0.09828634      1958.6
## 362   2023-06-26   0.09828634      2000.6
## 363   2023-06-26   0.09828634      2216.3
## 364   2023-06-26   0.09828634      3202.8
## 365   2023-06-26   0.09828634     13032.6
## 366   2023-06-26   0.09828634      7996.5
## 367   2023-06-26   0.09828634      2457.5
## 368   2023-06-26   0.09828634      2703.3
## 369   2023-06-26   0.09828634      3736.2
## 370   2023-06-26   0.09828634      4926.8
## 371   2023-06-26   0.09828634      9635.1
## 372   2023-06-26   0.09828634     21029.8
## 373   2023-06-26   0.09828634      3514.8
## 374   2023-06-26   0.09828634      2729.6
## 375   2023-06-26   0.09828634      3228.8
## 376   2023-06-26   0.09828634      2133.2
## 377   2023-06-26   0.09828634      2135.3
## 378   2023-06-26   0.09828634      1949.6
## 379   2023-06-26   0.09828634      1966.5
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## 380   2023-06-26   0.09828634        1999.9
## 381   2023-06-26   0.09828634        2042.5
## 382   2023-06-26   0.09828634        2004.2
## 383   2023-06-26   0.09828634        2196.9
## 384   2023-06-26   0.09828634        2018.8
## 385   2023-06-27   0.04635941        1992.6
## 386   2023-06-27   0.04635941        2024.8
## 387   2023-06-27   0.04635941        2084.0
## 388   2023-06-27   0.04635941        2221.8
## 389   2023-06-27   0.04635941        2566.6
## 390   2023-06-27   0.04635941        2960.0
## 391   2023-06-27   0.04635941        2826.5
## 392   2023-06-27   0.04635941        2589.0
## 393   2023-06-27   0.04635941        2471.9
## 394   2023-06-27   0.04635941        2649.8
## 395   2023-06-27   0.04635941        2866.8
## 396   2023-06-27   0.04635941        2769.5
## 397   2023-06-27   0.04635941        2621.1
## 398   2023-06-27   0.04635941        2820.3
## 399   2023-06-27   0.04635941        2533.1
## 400   2023-06-27   0.04635941        2517.1
## 401   2023-06-27   0.04635941        2408.5
## 402   2023-06-27   0.04635941        1971.0
## 403   2023-06-27   0.04635941        1989.7
## 404   2023-06-27   0.04635941        2013.9
## 405   2023-06-27   0.04635941        1955.4
## 406   2023-06-27   0.04635941        1974.7
## 407   2023-06-27   0.04635941        2000.9
## 408   2023-06-27   0.04635941        1973.6
## 409   2023-07-04   0.06525288        1980.6
## 410   2023-07-04   0.06525288        2038.8
## 411   2023-07-04   0.06525288        2110.8
## 412   2023-07-04   0.06525288        2154.3
## 413   2023-07-04   0.06525288        2104.4
## 414   2023-07-04   0.06525288        2147.5
## 415   2023-07-04   0.06525288        2548.9
## 416   2023-07-04   0.06525288        2322.5
## 417   2023-07-04   0.06525288        2249.4
## 418   2023-07-04   0.06525288        2044.8
## 419   2023-07-04   0.06525288        2961.2
## 420   2023-07-04   0.06525288        2825.6
## 421   2023-07-04   0.06525288        3656.2
## 422   2023-07-04   0.06525288        3458.6
## 423   2023-07-04   0.06525288        3368.4
## 424   2023-07-04   0.06525288        2706.9
## 425   2023-07-04   0.06525288        2419.9
## 426   2023-07-04   0.06525288        2435.3
## 427   2023-07-04   0.06525288        2326.2
## 428   2023-07-04   0.06525288        2136.8
## 429   2023-07-04   0.06525288        2015.8
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## 431   2023-07-04   0.06525288        2046.3
## 432   2023-07-04   0.06525288        2053.4
## 433   2023-07-06   0.04171089        2023.9
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## 436   2023-07-06   0.04171089        2166.1
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## 442   2023-07-06   0.04171089        2210.5
## 443   2023-07-06   0.04171089        2142.4
## 444   2023-07-06   0.04171089        2249.9
## 445   2023-07-06   0.04171089        2202.2
## 446   2023-07-06   0.04171089        2230.0
## 447   2023-07-06   0.04171089        2139.0
## 448   2023-07-06   0.04171089        2106.7
## 449   2023-07-06   0.04171089        2107.2
## 450   2023-07-06   0.04171089        2045.5
## 451   2023-07-06   0.04171089        2027.7
## 452   2023-07-06   0.04171089        1989.4
## 453   2023-07-06   0.04171089        1977.6
## 454   2023-07-06   0.04171089        1973.6
## 455   2023-07-06   0.04171089        1989.3
## 456   2023-07-06   0.04171089        1982.0
## 457   2023-07-19   0.04097270        1989.7
## 458   2023-07-19   0.04097270        2023.3
## 459   2023-07-19   0.04097270        2078.2
## 460   2023-07-19   0.04097270        2277.7
## 461   2023-07-19   0.04097270        2671.8
## 462   2023-07-19   0.04097270        2187.5
## 463   2023-07-19   0.04097270        2101.5
## 464   2023-07-19   0.04097270        2197.5
## 465   2023-07-19   0.04097270        2430.0
## 466   2023-07-19   0.04097270        2670.2
## 467   2023-07-19   0.04097270        2903.3
## 468   2023-07-19   0.04097270        2785.5
## 469   2023-07-19   0.04097270        3656.9
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## 471   2023-07-19   0.04097270        2826.1
## 472   2023-07-19   0.04097270        2277.5
## 473   2023-07-19   0.04097270        2268.2
## 474   2023-07-19   0.04097270        2114.8
## 475   2023-07-19   0.04097270        2010.2
## 476   2023-07-19   0.04097270        2011.0
## 477   2023-07-19   0.04097270        2027.9
## 478   2023-07-19   0.04097270        2011.2
## 479   2023-07-19   0.04097270        2016.8
## 480   2023-07-19   0.04097270        2018.7
## 481   2023-07-21   0.04101854        1999.4
## 482   2023-07-21   0.04101854        2009.0
## 483   2023-07-21   0.04101854        2028.1
## 484   2023-07-21   0.04101854        2429.2
## 485   2023-07-21   0.04101854        2505.3
## 486   2023-07-21   0.04101854        2336.9
## 487   2023-07-21   0.04101854        2270.0
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## 490  2023-07-21   0.04101854        2488.9
## 491  2023-07-21   0.04101854        2673.8
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## 493  2023-07-21   0.04101854        3156.8
## 494  2023-07-21   0.04101854        4580.4
## 495  2023-07-21   0.04101854        2596.7
## 496  2023-07-21   0.04101854        2213.3
## 497  2023-07-21   0.04101854        2154.1
## 498  2023-07-21   0.04101854        2054.7
## 499  2023-07-21   0.04101854        2038.3
## 500  2023-07-21   0.04101854        1982.8
## 501  2023-07-21   0.04101854        1986.5
## 502  2023-07-21   0.04101854        1975.1
## 503  2023-07-21   0.04101854        2000.9
## 504  2023-07-21   0.04101854        2008.3
## 505  2023-07-30   0.11755463        2000.3
## 506  2023-07-30   0.11755463        2016.6
## 507  2023-07-30   0.11755463        2023.0
## 508  2023-07-30   0.11755463        2144.2
## 509  2023-07-30   0.11755463        2230.6
## 510  2023-07-30   0.11755463        2235.6
## 511  2023-07-30   0.11755463        2419.0
## 512  2023-07-30   0.11755463        2696.5
## 513  2023-07-30   0.11755463        2680.7
## 514  2023-07-30   0.11755463        2976.8
## 515  2023-07-30   0.11755463        3224.9
## 516  2023-07-30   0.11755463        3027.8
## 517  2023-07-30   0.11755463        3834.8
## 518  2023-07-30   0.11755463        6418.9
## 519  2023-07-30   0.11755463        3412.9
## 520  2023-07-30   0.11755463        2382.2
## 521  2023-07-30   0.11755463        2201.0
## 522  2023-07-30   0.11755463        2096.1
## 523  2023-07-30   0.11755463        1991.7
## 524  2023-07-30   0.11755463        1980.0
## 525  2023-07-30   0.11755463        1983.3
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## 529  2023-08-17   0.03438564        2033.7
## 530  2023-08-17   0.03438564        2030.3
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## 532  2023-08-17   0.03438564        2155.4
## 533  2023-08-17   0.03438564        2519.4
## 534  2023-08-17   0.03438564        3197.9
## 535  2023-08-17   0.03438564        4025.7
## 536  2023-08-17   0.03438564        3511.7
## 537  2023-08-17   0.03438564        2184.7
## 538  2023-08-17   0.03438564        3467.8
## 539  2023-08-17   0.03438564        3357.2
## 540  2023-08-17   0.03438564        4041.8
## 541  2023-08-17   0.03438564        9578.0
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## 542   2023-08-17   0.03438564       4333.5
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## 548   2023-08-17   0.03438564       2088.2
## 549   2023-08-17   0.03438564       2023.0
## 550   2023-08-17   0.03438564       2021.7
## 551   2023-08-17   0.03438564       2030.8
## 552   2023-08-17   0.03438564       2028.4
## 553   2023-08-30   0.05489525       2076.9
## 554   2023-08-30   0.05489525       2075.9
## 555   2023-08-30   0.05489525       2533.9
## 556   2023-08-30   0.05489525       2798.8
## 557   2023-08-30   0.05489525       3518.6
## 558   2023-08-30   0.05489525       2947.2
## 559   2023-08-30   0.05489525       2911.1
## 560   2023-08-30   0.05489525       2589.2
## 561   2023-08-30   0.05489525       2714.9
## 562   2023-08-30   0.05489525       2774.6
## 563   2023-08-30   0.05489525       2961.9
## 564   2023-08-30   0.05489525       3023.0
## 565   2023-08-30   0.05489525       2946.5
## 566   2023-08-30   0.05489525       3323.1
## 567   2023-08-30   0.05489525       3245.6
## 568   2023-08-30   0.05489525       2724.3
## 569   2023-08-30   0.05489525       2637.0
## 570   2023-08-30   0.05489525       2188.0
## 571   2023-08-30   0.05489525       2140.3
## 572   2023-08-30   0.05489525       2246.2
## 573   2023-08-30   0.05489525       2116.6
## 574   2023-08-30   0.05489525       2146.3
## 575   2023-08-30   0.05489525       2089.3
## 576   2023-08-30   0.05489525       2105.6
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## 578   2023-08-30   0.09213102       2075.9
## 579   2023-08-30   0.09213102       2533.9
## 580   2023-08-30   0.09213102       2798.8
## 581   2023-08-30   0.09213102       3518.6
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## 583   2023-08-30   0.09213102       2911.1
## 584   2023-08-30   0.09213102       2589.2
## 585   2023-08-30   0.09213102       2714.9
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## 588   2023-08-30   0.09213102       3023.0
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## 590   2023-08-30   0.09213102       3323.1
## 591   2023-08-30   0.09213102       3245.6
## 592   2023-08-30   0.09213102       2724.3
## 593   2023-08-30   0.09213102       2637.0
## 594   2023-08-30   0.09213102       2188.0
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## 596   2023-08-30   0.09213102      2246.2
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## 605   2023-08-30   0.10057347      3518.6
## 606   2023-08-30   0.10057347      2947.2
## 607   2023-08-30   0.10057347      2911.1
## 608   2023-08-30   0.10057347      2589.2
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## 616   2023-08-30   0.10057347      2724.3
## 617   2023-08-30   0.10057347      2637.0
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## 622   2023-08-30   0.10057347      2146.3
## 623   2023-08-30   0.10057347      2089.3
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## 629   2023-08-31   0.10743708      3230.2
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## 638   2023-08-31   0.10743708      3684.2
## 639   2023-08-31   0.10743708      3570.9
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## 649   2023-09-03   0.05006439      2073.2
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## 671   2023-09-03   0.05006439        2130.2
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## 705   2023-09-06   0.09229224      2634.2
## 706   2023-09-06   0.09229224      2379.4
## 707   2023-09-06   0.09229224      3542.3
## 708   2023-09-06   0.09229224      2633.2
## 709   2023-09-06   0.09229224      2359.5
## 710   2023-09-06   0.09229224      2331.6
## 711   2023-09-06   0.09229224      2235.3
## 712   2023-09-06   0.09229224      2274.7
## 713   2023-09-06   0.09229224      2318.5
## 714   2023-09-06   0.09229224      2393.6
## 715   2023-09-06   0.09229224      2276.5
## 716   2023-09-06   0.09229224      2168.8
## 717   2023-09-06   0.09229224      2201.2
## 718   2023-09-06   0.09229224      2087.3
## 719   2023-09-06   0.09229224      2074.2
## 720   2023-09-06   0.09229224      2038.0
## 721   2023-09-09   0.03767011      1971.4
## 722   2023-09-09   0.03767011      2155.6
## 723   2023-09-09   0.03767011      2307.2
## 724   2023-09-09   0.03767011      2061.9
## 725   2023-09-09   0.03767011      2592.6
## 726   2023-09-09   0.03767011      2549.7
## 727   2023-09-09   0.03767011      2968.8
## 728   2023-09-09   0.03767011      2267.6
## 729   2023-09-09   0.03767011      4949.6
## 730   2023-09-09   0.03767011      4020.3
## 731   2023-09-09   0.03767011      2863.1
## 732   2023-09-09   0.03767011      3581.2
## 733   2023-09-09   0.03767011      2838.9
## 734   2023-09-09   0.03767011      3453.2
## 735   2023-09-09   0.03767011      2473.9
## 736   2023-09-09   0.03767011      2459.2
## 737   2023-09-09   0.03767011      2649.8
## 738   2023-09-09   0.03767011      2605.8
## 739   2023-09-09   0.03767011      2439.1
## 740   2023-09-09   0.03767011      2438.4
## 741   2023-09-09   0.03767011      2368.4
## 742   2023-09-09   0.03767011      2201.7
## 743   2023-09-09   0.03767011      2232.2
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## 746   2023-09-28   0.05796089      2288.8
## 747   2023-09-28   0.05796089      3219.7
## 748   2023-09-28   0.05796089      2474.5
## 749   2023-09-28   0.05796089      3284.4
## 750   2023-09-28   0.05796089      3000.4
## 751   2023-09-28   0.05796089      3099.1
## 752   2023-09-28   0.05796089      3306.6
## 753   2023-09-28   0.05796089      4007.9
## 754   2023-09-28   0.05796089      3162.5
## 755   2023-09-28   0.05796089      2896.4
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## 757   2023-09-28   0.05796089      3622.1
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## 771   2023-10-15   0.15934503        2451.4
## 772   2023-10-15   0.15934503        3802.3
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## 776   2023-10-15   0.15934503        4930.5
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## 778   2023-10-15   0.15934503        6399.2
## 779   2023-10-15   0.15934503        3963.7
## 780   2023-10-15   0.15934503        5306.2
## 781   2023-10-15   0.15934503        4024.1
## 782   2023-10-15   0.15934503        4266.4
## 783   2023-10-15   0.15934503        3514.6
## 784   2023-10-15   0.15934503        2502.5
## 785   2023-10-15   0.15934503        2748.5
## 786   2023-10-15   0.15934503        2416.5
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## 788   2023-10-15   0.15934503        2230.8
## 789   2023-10-15   0.15934503        2337.5
## 790   2023-10-15   0.15934503        2303.8
## 791   2023-10-15   0.15934503        2252.9
## 792   2023-10-15   0.15934503        2258.5
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## 794   2023-10-16   0.07156617        3431.2
## 795   2023-10-16   0.07156617        2728.9
## 796   2023-10-16   0.07156617        3272.5
## 797   2023-10-16   0.07156617        3077.9
## 798   2023-10-16   0.07156617        2942.2
## 799   2023-10-16   0.07156617        3764.5
## 800   2023-10-16   0.07156617        3458.6
## 801   2023-10-16   0.07156617        3749.7
## 802   2023-10-16   0.07156617        4444.0
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## 804   2023-10-16   0.07156617        4629.2
## 805   2023-10-16   0.07156617        3738.9
## 806   2023-10-16   0.07156617        3732.7
## 807   2023-10-16   0.07156617        3990.6
## 808   2023-10-16   0.07156617        3628.2
## 809   2023-10-16   0.07156617        3506.6
## 810   2023-10-16   0.07156617        2908.3
## 811   2023-10-16   0.07156617        2467.9
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## 812   2023-10-16   0.07156617      2179.8
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## 815   2023-10-16   0.07156617      2224.0
## 816   2023-10-16   0.07156617      2205.5
## 817   2023-10-25   0.05151220      2395.2
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## 819   2023-10-25   0.05151220      2089.2
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## 821   2023-10-25   0.05151220      2079.6
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## 826   2023-10-25   0.05151220      2404.4
## 827   2023-10-25   0.05151220      3033.3
## 828   2023-10-25   0.05151220      2410.6
## 829   2023-10-25   0.05151220      2175.6
## 830   2023-10-25   0.05151220      2350.4
## 831   2023-10-25   0.05151220      2710.1
## 832   2023-10-25   0.05151220      2898.2
## 833   2023-10-25   0.05151220      2467.5
## 834   2023-10-25   0.05151220      2329.9
## 835   2023-10-25   0.05151220      1976.1
## 836   2023-10-25   0.05151220      1978.5
## 837   2023-10-25   0.05151220      2057.6
## 838   2023-10-25   0.05151220      2071.5
## 839   2023-10-25   0.05151220      1987.8
## 840   2023-10-25   0.05151220      2133.1
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## 843   2023-11-03   0.08529328      4129.8
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## 847   2023-11-03   0.08529328      3913.0
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## 862   2023-11-03   0.08529328      2743.7
## 863   2023-11-03   0.08529328      2489.8
## 864   2023-11-03   0.08529328      2472.6
## 865   2023-11-06   0.05876751      2560.7
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## 870   2023-11-06   0.05876751        4830.8
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## 872   2023-11-06   0.05876751        5112.3
## 873   2023-11-06   0.05876751        4677.8
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## 875   2023-11-06   0.05876751        5243.2
## 876   2023-11-06   0.05876751        5732.3
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## 880   2023-11-06   0.05876751        4828.3
## 881   2023-11-06   0.05876751        3921.8
## 882   2023-11-06   0.05876751        2988.1
## 883   2023-11-06   0.05876751        2857.3
## 884   2023-11-06   0.05876751        2777.8
## 885   2023-11-06   0.05876751        1962.8
## 886   2023-11-06   0.05876751        1959.6
## 887   2023-11-06   0.05876751        1973.1
## 888   2023-11-06   0.05876751        1988.1
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## 890   2023-11-08   0.05900605        3081.9
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## 892   2023-11-08   0.05900605        2812.3
## 893   2023-11-08   0.05900605        2408.1
## 894   2023-11-08   0.05900605        2429.2
## 895   2023-11-08   0.05900605        2141.9
## 896   2023-11-08   0.05900605        2530.4
## 897   2023-11-08   0.05900605        2092.4
## 898   2023-11-08   0.05900605        2224.3
## 899   2023-11-08   0.05900605        2166.9
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## 901   2023-11-08   0.05900605        3108.7
## 902   2023-11-08   0.05900605        2312.0
## 903   2023-11-08   0.05900605        2763.8
## 904   2023-11-08   0.05900605        2672.7
## 905   2023-11-08   0.05900605        2090.9
## 906   2023-11-08   0.05900605        1991.5
## 907   2023-11-08   0.05900605        1977.9
## 908   2023-11-08   0.05900605        1976.3
## 909   2023-11-08   0.05900605        1983.2
## 910   2023-11-08   0.05900605        1976.2
## 911   2023-11-08   0.05900605        1973.5
## 912   2023-11-08   0.05900605        1982.3
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## 914   2023-11-14   0.05689495        2498.3
## 915   2023-11-14   0.05689495        2356.8
## 916   2023-11-14   0.05689495        2959.4
## 917   2023-11-14   0.05689495        2787.6
## 918   2023-11-14   0.05689495        2635.5
## 919   2023-11-14   0.05689495        2657.3
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## 920   2023-11-14   0.05689495       2827.6
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## 923   2023-11-14   0.05689495       2836.6
## 924   2023-11-14   0.05689495       2821.5
## 925   2023-11-14   0.05689495       4217.6
## 926   2023-11-14   0.05689495       3060.7
## 927   2023-11-14   0.05689495       2786.8
## 928   2023-11-14   0.05689495       2440.7
## 929   2023-11-14   0.05689495       2288.3
## 930   2023-11-14   0.05689495       2338.9
## 931   2023-11-14   0.05689495       2331.5
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## 934   2023-11-14   0.05689495       2313.3
## 935   2023-11-14   0.05689495       2288.2
## 936   2023-11-14   0.05689495       2327.5
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## 939   2023-11-20   0.04786845       2061.3
## 940   2023-11-20   0.04786845       2168.7
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## 942   2023-11-20   0.04786845       2170.6
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## 945   2023-11-20   0.04786845       3149.4
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## 989  2023-11-28   0.04054280       2987.5
## 990  2023-11-28   0.04054280       2984.6
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## 1000 2023-11-28   0.04054280       4302.7
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## 1002 2023-11-28   0.04054280       3417.0
## 1003 2023-11-28   0.04054280       3479.4
## 1004 2023-11-28   0.04054280       2943.3
## 1005 2023-11-28   0.04054280       2689.0
## 1006 2023-11-28   0.04054280       2488.3
## 1007 2023-11-28   0.04054280       2505.7
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## 1015 2023-12-06   0.06774308       2951.1
## 1016 2023-12-06   0.06774308       2621.7
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## 1047 2023-12-08   0.08950616     1983.2
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## 1058 2023-12-09   0.04944818     2008.7
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## 1060 2023-12-09   0.04944818     2012.3
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## 1065 2023-12-09   0.04944818     2021.8
## 1066 2023-12-09   0.04944818     2172.6
## 1067 2023-12-09   0.04944818     2189.7
## 1068 2023-12-09   0.04944818     2182.4
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## 1070 2023-12-09   0.04944818     2172.2
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## 1078 2023-12-09   0.04944818     2026.1
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## 1106 2023-12-11   0.12160013    2445.7
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## 1108 2023-12-11   0.12160013    3482.4
## 1109 2023-12-11   0.12160013    3794.9
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## 1127 2023-12-11   0.12160013    2136.6
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## 1162 2023-12-16   0.10382402      3416.1
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## 1168 2023-12-16   0.10382402      2606.3
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## 1178 2023-12-22   0.05160618      3588.5
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## 1186 2023-12-22   0.05160618      4239.8
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## 1188 2023-12-22   0.05160618      2474.3
## 1189 2023-12-22   0.05160618      2699.5
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## 1293 2024-01-07    0.05966395      2318.0
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## 1315 2024-01-08  0.06319600    2016.3
## 1316 2024-01-08  0.06319600    2023.3
## 1317 2024-01-08  0.06319600    2018.4
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## 1327 2024-01-08  0.08318485    2492.8
## 1328 2024-01-08  0.08318485    2005.5
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## 1334 2024-01-08  0.08318485    2136.2
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## 1422 2024-02-18   0.04660707      2176.5
## 1423 2024-02-18   0.04660707      2178.4
## 1424 2024-02-18   0.04660707      2165.9
## 1425 2024-02-18   0.04660707      2931.2
## 1426 2024-02-18   0.04660707      3371.9
## 1427 2024-02-18   0.04660707      3917.9
## 1428 2024-02-18   0.04660707      4038.3
## 1429 2024-02-18   0.04660707      4424.9
## 1430 2024-02-18   0.04660707      3637.6
## 1431 2024-02-18   0.04660707      4029.0
## 1432 2024-02-18   0.04660707      3270.4
## 1433 2024-02-18   0.04660707      2602.7
## 1434 2024-02-18   0.04660707      2416.3
## 1435 2024-02-18   0.04660707      2433.8
## 1436 2024-02-18   0.04660707      2497.6
## 1437 2024-02-18   0.04660707      2367.6
## 1438 2024-02-18   0.04660707      2427.5
## 1439 2024-02-18   0.04660707      2327.0
## 1440 2024-02-18   0.04660707      2383.2
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## 1442 2024-02-18   0.05346278      2116.6
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## 1445 2024-02-18   0.05346278      2222.3
## 1446 2024-02-18   0.05346278      2176.5
## 1447 2024-02-18   0.05346278      2178.4
## 1448 2024-02-18   0.05346278      2165.9
## 1449 2024-02-18   0.05346278      2931.2
## 1450 2024-02-18   0.05346278      3371.9
## 1451 2024-02-18   0.05346278      3917.9
## 1452 2024-02-18   0.05346278      4038.3
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## 1454 2024-02-18   0.05346278      3637.6
## 1455 2024-02-18   0.05346278      4029.0
## 1456 2024-02-18   0.05346278      3270.4
## 1457 2024-02-18   0.05346278      2602.7
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## 1459 2024-02-18   0.05346278      2433.8
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## 1460 2024-02-18   0.05346278        2497.6
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## 1462 2024-02-18   0.05346278        2427.5
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## 1464 2024-02-18   0.05346278        2383.2
## 1465 2024-02-19   0.07681658        2370.4
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## 1467 2024-02-19   0.07681658        2581.7
## 1468 2024-02-19   0.07681658        2663.4
## 1469 2024-02-19   0.07681658        2751.6
## 1470 2024-02-19   0.07681658        3468.5
## 1471 2024-02-19   0.07681658        4781.5
## 1472 2024-02-19   0.07681658        3390.6
## 1473 2024-02-19   0.07681658        3803.7
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## 1475 2024-02-19   0.07681658        5953.4
## 1476 2024-02-19   0.07681658        5903.4
## 1477 2024-02-19   0.07681658        4560.9
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## 1480 2024-02-19   0.07681658        4765.6
## 1481 2024-02-19   0.07681658        3983.2
## 1482 2024-02-19   0.07681658        3173.7
## 1483 2024-02-19   0.07681658        2924.4
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## 1485 2024-02-19   0.07681658        2302.1
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## 1487 2024-02-19   0.07681658        2244.7
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## 1490 2024-02-23   0.03545261        2347.7
## 1491 2024-02-23   0.03545261        2045.0
## 1492 2024-02-23   0.03545261        2423.2
## 1493 2024-02-23   0.03545261        2889.6
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## 1498 2024-02-23   0.03545261        2725.9
## 1499 2024-02-23   0.03545261        2974.4
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## 1501 2024-02-23   0.03545261        3739.8
## 1502 2024-02-23   0.03545261        3223.2
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## 1504 2024-02-23   0.03545261        2300.0
## 1505 2024-02-23   0.03545261        2213.0
## 1506 2024-02-23   0.03545261        2194.4
## 1507 2024-02-23   0.03545261        2270.4
## 1508 2024-02-23   0.03545261        2293.2
## 1509 2024-02-23   0.03545261        2306.5
## 1510 2024-02-23   0.03545261        2287.1
## 1511 2024-02-23   0.03545261        2230.2
## 1512 2024-02-23   0.03545261        2208.6
## 1513 2024-02-25   0.04400931        2378.2
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## 1519 2024-02-25  0.04400931      2161.5
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## 1523 2024-02-25  0.04400931      3378.8
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## 1528 2024-02-25  0.04400931      2807.6
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## 1532 2024-02-25  0.04400931      2082.8
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## 1575 2024-03-22     0.03219066        3974.4
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## 1613 2024-04-08     0.03549446        2015.7
## 1614 2024-04-08     0.03549446        2166.2
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## 1617 2024-04-08     0.03549446        3116.2
## 1618 2024-04-08     0.03549446        2604.7
## 1619 2024-04-08     0.03549446        2603.2
## 1620 2024-04-08     0.03549446        2562.9
## 1621 2024-04-08     0.03549446        2824.7
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## 1629 2024-04-08  0.03549446    2542.6
## 1630 2024-04-08  0.03549446    2383.6
## 1631 2024-04-08  0.03549446    2071.4
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## 1633 2024-04-10  0.04516177    2052.5
## 1634 2024-04-10  0.04516177    2062.5
## 1635 2024-04-10  0.04516177    2176.1
## 1636 2024-04-10  0.04516177    2169.7
## 1637 2024-04-10  0.04516177    2118.8
## 1638 2024-04-10  0.04516177    2080.8
## 1639 2024-04-10  0.04516177    2082.9
## 1640 2024-04-10  0.04516177    2314.3
## 1641 2024-04-10  0.04516177    2207.8
## 1642 2024-04-10  0.04516177    2444.4
## 1643 2024-04-10  0.04516177    2730.0
## 1644 2024-04-10  0.04516177    4394.3
## 1645 2024-04-10  0.04516177    4652.4
## 1646 2024-04-10  0.04516177    4052.0
## 1647 2024-04-10  0.04516177    3747.7
## 1648 2024-04-10  0.04516177    3414.6
## 1649 2024-04-10  0.04516177    2906.4
## 1650 2024-04-10  0.04516177    2450.0
## 1651 2024-04-10  0.04516177    2144.6
## 1652 2024-04-10  0.04516177    2161.4
## 1653 2024-04-10  0.04516177    2132.3
## 1654 2024-04-10  0.04516177    2118.9
## 1655 2024-04-10  0.04516177    2058.8
## 1656 2024-04-10  0.04516177    2039.9
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## 1658 2024-04-10  0.09226486    2062.5
## 1659 2024-04-10  0.09226486    2176.1
## 1660 2024-04-10  0.09226486    2169.7
## 1661 2024-04-10  0.09226486    2118.8
## 1662 2024-04-10  0.09226486    2080.8
## 1663 2024-04-10  0.09226486    2082.9
## 1664 2024-04-10  0.09226486    2314.3
## 1665 2024-04-10  0.09226486    2207.8
## 1666 2024-04-10  0.09226486    2444.4
## 1667 2024-04-10  0.09226486    2730.0
## 1668 2024-04-10  0.09226486    4394.3
## 1669 2024-04-10  0.09226486    4652.4
## 1670 2024-04-10  0.09226486    4052.0
## 1671 2024-04-10  0.09226486    3747.7
## 1672 2024-04-10  0.09226486    3414.6
## 1673 2024-04-10  0.09226486    2906.4
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## 1679 2024-04-10    0.09226486        2058.8
## 1680 2024-04-10    0.09226486        2039.9
## 1681 2024-04-10    0.06849889        2052.5
## 1682 2024-04-10    0.06849889        2062.5
## 1683 2024-04-10    0.06849889        2176.1
## 1684 2024-04-10    0.06849889        2169.7
## 1685 2024-04-10    0.06849889        2118.8
## 1686 2024-04-10    0.06849889        2080.8
## 1687 2024-04-10    0.06849889        2082.9
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## 1692 2024-04-10    0.06849889        4394.3
## 1693 2024-04-10    0.06849889        4652.4
## 1694 2024-04-10    0.06849889        4052.0
## 1695 2024-04-10    0.06849889        3747.7
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## 1700 2024-04-10    0.06849889        2161.4
## 1701 2024-04-10    0.06849889        2132.3
## 1702 2024-04-10    0.06849889        2118.9
## 1703 2024-04-10    0.06849889        2058.8
## 1704 2024-04-10    0.06849889        2039.9
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## 1706 2024-04-10    0.07461035        2062.5
## 1707 2024-04-10    0.07461035        2176.1
## 1708 2024-04-10    0.07461035        2169.7
## 1709 2024-04-10    0.07461035        2118.8
## 1710 2024-04-10    0.07461035        2080.8
## 1711 2024-04-10    0.07461035        2082.9
## 1712 2024-04-10    0.07461035        2314.3
## 1713 2024-04-10    0.07461035        2207.8
## 1714 2024-04-10    0.07461035        2444.4
## 1715 2024-04-10    0.07461035        2730.0
## 1716 2024-04-10    0.07461035        4394.3
## 1717 2024-04-10    0.07461035        4652.4
## 1718 2024-04-10    0.07461035        4052.0
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## 1725 2024-04-10    0.07461035        2132.3
## 1726 2024-04-10    0.07461035        2118.9
## 1727 2024-04-10    0.07461035        2058.8
## 1728 2024-04-10    0.07461035        2039.9
## 1729 2024-04-10    0.08674243        2052.5
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## 1733 2024-04-10   0.08674243      2118.8
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## 1785 2024-04-18   0.05125695      2511.8
## 1786 2024-04-18   0.05125695      3037.5
## 1787 2024-04-18   0.05125695      3564.5
## 1788 2024-04-18   0.05125695      2882.4
## 1789 2024-04-18   0.05125695      8198.8
## 1790 2024-04-18   0.05125695      5897.9
## 1791 2024-04-18   0.05125695      4533.0
## 1792 2024-04-18   0.05125695      2784.0
## 1793 2024-04-18   0.05125695      2518.8
## 1794 2024-04-18   0.05125695      2038.2
## 1795 2024-04-18   0.05125695      2043.4
## 1796 2024-04-18   0.05125695      2061.5
## 1797 2024-04-18   0.05125695      2077.5
## 1798 2024-04-18   0.05125695      2077.4
## 1799 2024-04-18   0.05125695      2126.2
## 1800 2024-04-18   0.05125695      2107.5
## 1801 2024-04-18   0.04018106      2074.0
## 1802 2024-04-18   0.04018106      2111.3
## 1803 2024-04-18   0.04018106      2235.2
## 1804 2024-04-18   0.04018106      2575.6
## 1805 2024-04-18   0.04018106      2303.3
## 1806 2024-04-18   0.04018106      2633.6
## 1807 2024-04-18   0.04018106      2914.5
## 1808 2024-04-18   0.04018106      3156.2
## 1809 2024-04-18   0.04018106      2511.8
## 1810 2024-04-18   0.04018106      3037.5
## 1811 2024-04-18   0.04018106      3564.5
## 1812 2024-04-18   0.04018106      2882.4
## 1813 2024-04-18   0.04018106      8198.8
## 1814 2024-04-18   0.04018106      5897.9
## 1815 2024-04-18   0.04018106      4533.0
## 1816 2024-04-18   0.04018106      2784.0
## 1817 2024-04-18   0.04018106      2518.8
## 1818 2024-04-18   0.04018106      2038.2
## 1819 2024-04-18   0.04018106      2043.4
## 1820 2024-04-18   0.04018106      2061.5
## 1821 2024-04-18   0.04018106      2077.5
## 1822 2024-04-18   0.04018106      2077.4
## 1823 2024-04-18   0.04018106      2126.2
## 1824 2024-04-18   0.04018106      2107.5
## 1825 2024-04-23   0.07238425      2090.9
## 1826 2024-04-23   0.07238425      2097.7
## 1827 2024-04-23   0.07238425      2117.2
## 1828 2024-04-23   0.07238425      2178.3
## 1829 2024-04-23   0.07238425      2135.3
## 1830 2024-04-23   0.07238425      2233.5
## 1831 2024-04-23   0.07238425      2288.4
## 1832 2024-04-23   0.07238425      2424.5
## 1833 2024-04-23   0.07238425      2493.3
## 1834 2024-04-23   0.07238425      2484.0
## 1835 2024-04-23   0.07238425      2487.9
## 1836 2024-04-23   0.07238425      2495.6
## 1837 2024-04-23   0.07238425      3045.9
```

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## 1838 2024-04-23  0.07238425       3960.7
## 1839 2024-04-23  0.07238425       2821.4
## 1840 2024-04-23  0.07238425       2869.7
## 1841 2024-04-23  0.07238425       3230.1
## 1842 2024-04-23  0.07238425       3240.5
## 1843 2024-04-23  0.07238425       2718.8
## 1844 2024-04-23  0.07238425       2159.0
## 1845 2024-04-23  0.07238425       1981.4
## 1846 2024-04-23  0.07238425       2056.6
## 1847 2024-04-23  0.07238425       1973.8
## 1848 2024-04-23  0.07238425       1983.7
## 1849 2024-04-24  0.03424259       1959.6
## 1850 2024-04-24  0.03424259       1991.7
## 1851 2024-04-24  0.03424259       2108.2
## 1852 2024-04-24  0.03424259       2259.4
## 1853 2024-04-24  0.03424259       2155.7
## 1854 2024-04-24  0.03424259       2127.5
## 1855 2024-04-24  0.03424259       2834.4
## 1856 2024-04-24  0.03424259       3670.1
## 1857 2024-04-24  0.03424259       3412.4
## 1858 2024-04-24  0.03424259       3296.1
## 1859 2024-04-24  0.03424259       3426.1
## 1860 2024-04-24  0.03424259       3666.0
## 1861 2024-04-24  0.03424259       3556.8
## 1862 2024-04-24  0.03424259       2482.8
## 1863 2024-04-24  0.03424259       2213.1
## 1864 2024-04-24  0.03424259       2181.7
## 1865 2024-04-24  0.03424259       2172.1
## 1866 2024-04-24  0.03424259       2142.5
## 1867 2024-04-24  0.03424259       2135.2
## 1868 2024-04-24  0.03424259       2138.2
## 1869 2024-04-24  0.03424259       2134.6
## 1870 2024-04-24  0.03424259       2126.1
## 1871 2024-04-24  0.03424259       2053.3
## 1872 2024-04-24  0.03424259       2093.7
## 1873 2024-04-25  0.04580397       2061.4
## 1874 2024-04-25  0.04580397       2153.5
## 1875 2024-04-25  0.04580397       2184.2
## 1876 2024-04-25  0.04580397       2940.2
## 1877 2024-04-25  0.04580397       3996.7
## 1878 2024-04-25  0.04580397       2376.4
## 1879 2024-04-25  0.04580397       2198.3
## 1880 2024-04-25  0.04580397       2192.7
## 1881 2024-04-25  0.04580397       2169.1
## 1882 2024-04-25  0.04580397       2224.7
## 1883 2024-04-25  0.04580397       2229.9
## 1884 2024-04-25  0.04580397       2633.6
## 1885 2024-04-25  0.04580397       3401.8
## 1886 2024-04-25  0.04580397       2995.5
## 1887 2024-04-25  0.04580397       2717.0
## 1888 2024-04-25  0.04580397       2510.7
## 1889 2024-04-25  0.04580397       2479.1
## 1890 2024-04-25  0.04580397       2373.0
## 1891 2024-04-25  0.04580397       2074.1
```

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## 1892 2024-04-25   0.04580397      1956.9
## 1893 2024-04-25   0.04580397      2046.8
## 1894 2024-04-25   0.04580397      2057.0
## 1895 2024-04-25   0.04580397      2027.8
## 1896 2024-04-25   0.04580397      1957.9
## 1897 2024-04-28   0.04100864      1985.8
## 1898 2024-04-28   0.04100864      1991.3
## 1899 2024-04-28   0.04100864      1999.1
## 1900 2024-04-28   0.04100864      2021.5
## 1901 2024-04-28   0.04100864      2036.6
## 1902 2024-04-28   0.04100864      2012.3
## 1903 2024-04-28   0.04100864      2019.1
## 1904 2024-04-28   0.04100864      2123.3
## 1905 2024-04-28   0.04100864      2165.7
## 1906 2024-04-28   0.04100864      2174.4
## 1907 2024-04-28   0.04100864      2199.0
## 1908 2024-04-28   0.04100864      2267.4
## 1909 2024-04-28   0.04100864      2710.1
## 1910 2024-04-28   0.04100864      2588.6
## 1911 2024-04-28   0.04100864      2308.4
## 1912 2024-04-28   0.04100864      2364.1
## 1913 2024-04-28   0.04100864      2143.1
## 1914 2024-04-28   0.04100864      2082.2
## 1915 2024-04-28   0.04100864      2110.1
## 1916 2024-04-28   0.04100864      2098.7
## 1917 2024-04-28   0.04100864      2125.8
## 1918 2024-04-28   0.04100864      2117.0
## 1919 2024-04-28   0.04100864      2083.4
## 1920 2024-04-28   0.04100864      2050.4
## 1921 2024-04-29   0.03358991      1998.4
## 1922 2024-04-29   0.03358991      2011.2
## 1923 2024-04-29   0.03358991      2251.2
## 1924 2024-04-29   0.03358991      2025.9
## 1925 2024-04-29   0.03358991      2163.9
## 1926 2024-04-29   0.03358991      2290.7
## 1927 2024-04-29   0.03358991      2291.3
## 1928 2024-04-29   0.03358991      2206.9
## 1929 2024-04-29   0.03358991      2224.7
## 1930 2024-04-29   0.03358991      2165.9
## 1931 2024-04-29   0.03358991      2664.3
## 1932 2024-04-29   0.03358991      2438.3
## 1933 2024-04-29   0.03358991      2555.4
## 1934 2024-04-29   0.03358991      2458.7
## 1935 2024-04-29   0.03358991      2706.2
## 1936 2024-04-29   0.03358991      2046.8
## 1937 2024-04-29   0.03358991      2029.9
## 1938 2024-04-29   0.03358991      2030.6
## 1939 2024-04-29   0.03358991      2019.2
## 1940 2024-04-29   0.03358991      2025.4
## 1941 2024-04-29   0.03358991      2014.0
## 1942 2024-04-29   0.03358991      2033.4
## 1943 2024-04-29   0.03358991      2007.2
## 1944 2024-04-29   0.03358991      2047.4
## 1945 2024-04-30   0.08188405      2097.2
```

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## 1946 2024-04-30    0.08188405        2343.3
## 1947 2024-04-30    0.08188405        2068.8
## 1948 2024-04-30    0.08188405        2202.9
## 1949 2024-04-30    0.08188405        2220.8
## 1950 2024-04-30    0.08188405        2453.4
## 1951 2024-04-30    0.08188405        2660.2
## 1952 2024-04-30    0.08188405        3801.9
## 1953 2024-04-30    0.08188405        3907.3
## 1954 2024-04-30    0.08188405        2988.9
## 1955 2024-04-30    0.08188405        5107.0
## 1956 2024-04-30    0.08188405        3934.4
## 1957 2024-04-30    0.08188405        4473.3
## 1958 2024-04-30    0.08188405        4085.5
## 1959 2024-04-30    0.08188405        3674.3
## 1960 2024-04-30    0.08188405        3646.8
## 1961 2024-04-30    0.08188405        2900.5
## 1962 2024-04-30    0.08188405        2480.7
## 1963 2024-04-30    0.08188405        2129.9
## 1964 2024-04-30    0.08188405        2122.8
## 1965 2024-04-30    0.08188405        2048.6
## 1966 2024-04-30    0.08188405        2085.6
## 1967 2024-04-30    0.08188405        2036.7
## 1968 2024-04-30    0.08188405        2155.3
## 1969 2024-04-30    0.13028374        2097.2
## 1970 2024-04-30    0.13028374        2343.3
## 1971 2024-04-30    0.13028374        2068.8
## 1972 2024-04-30    0.13028374        2202.9
## 1973 2024-04-30    0.13028374        2220.8
## 1974 2024-04-30    0.13028374        2453.4
## 1975 2024-04-30    0.13028374        2660.2
## 1976 2024-04-30    0.13028374        3801.9
## 1977 2024-04-30    0.13028374        3907.3
## 1978 2024-04-30    0.13028374        2988.9
## 1979 2024-04-30    0.13028374        5107.0
## 1980 2024-04-30    0.13028374        3934.4
## 1981 2024-04-30    0.13028374        4473.3
## 1982 2024-04-30    0.13028374        4085.5
## 1983 2024-04-30    0.13028374        3674.3
## 1984 2024-04-30    0.13028374        3646.8
## 1985 2024-04-30    0.13028374        2900.5
## 1986 2024-04-30    0.13028374        2480.7
## 1987 2024-04-30    0.13028374        2129.9
## 1988 2024-04-30    0.13028374        2122.8
## 1989 2024-04-30    0.13028374        2048.6
## 1990 2024-04-30    0.13028374        2085.6
## 1991 2024-04-30    0.13028374        2036.7
## 1992 2024-04-30    0.13028374        2155.3
## 1993 2024-05-01    0.04380731        2134.3
## 1994 2024-05-01    0.04380731        2401.8
## 1995 2024-05-01    0.04380731        3100.4
## 1996 2024-05-01    0.04380731        2040.6
## 1997 2024-05-01    0.04380731        2050.8
## 1998 2024-05-01    0.04380731        2396.9
## 1999 2024-05-01    0.04380731        2506.7
```

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## 2000 2024-05-01  0.04380731      2580.6
## 2001 2024-05-01  0.04380731      2658.9
## 2002 2024-05-01  0.04380731      2856.5
## 2003 2024-05-01  0.04380731      3142.1
## 2004 2024-05-01  0.04380731      3638.3
## 2005 2024-05-01  0.04380731      2471.3
## 2006 2024-05-01  0.04380731      3291.2
## 2007 2024-05-01  0.04380731      3030.1
## 2008 2024-05-01  0.04380731      2966.6
## 2009 2024-05-01  0.04380731      2674.2
## 2010 2024-05-01  0.04380731      2236.4
## 2011 2024-05-01  0.04380731      2097.3
## 2012 2024-05-01  0.04380731      2037.3
## 2013 2024-05-01  0.04380731      2061.9
## 2014 2024-05-01  0.04380731      2017.1
## 2015 2024-05-01  0.04380731      2009.0
## 2016 2024-05-01  0.04380731      2059.0
## 2017 2024-05-02  0.06525334      2197.5
## 2018 2024-05-02  0.06525334      2259.3
## 2019 2024-05-02  0.06525334      2032.1
## 2020 2024-05-02  0.06525334      2255.7
## 2021 2024-05-02  0.06525334      2199.2
## 2022 2024-05-02  0.06525334      2161.0
## 2023 2024-05-02  0.06525334      2452.7
## 2024 2024-05-02  0.06525334      2361.5
## 2025 2024-05-02  0.06525334      2492.9
## 2026 2024-05-02  0.06525334      2681.4
## 2027 2024-05-02  0.06525334      2915.8
## 2028 2024-05-02  0.06525334      3026.0
## 2029 2024-05-02  0.06525334      2702.7
## 2030 2024-05-02  0.06525334      3480.4
## 2031 2024-05-02  0.06525334      2815.8
## 2032 2024-05-02  0.06525334      2171.7
## 2033 2024-05-02  0.06525334      2062.3
## 2034 2024-05-02  0.06525334      2019.3
## 2035 2024-05-02  0.06525334      1983.9
## 2036 2024-05-02  0.06525334      1988.8
## 2037 2024-05-02  0.06525334      1996.3
## 2038 2024-05-02  0.06525334      1996.1
## 2039 2024-05-02  0.06525334      1996.8
## 2040 2024-05-02  0.06525334      1999.1
## 2041 2024-05-02  0.04638227      2197.5
## 2042 2024-05-02  0.04638227      2259.3
## 2043 2024-05-02  0.04638227      2032.1
## 2044 2024-05-02  0.04638227      2255.7
## 2045 2024-05-02  0.04638227      2199.2
## 2046 2024-05-02  0.04638227      2161.0
## 2047 2024-05-02  0.04638227      2452.7
## 2048 2024-05-02  0.04638227      2361.5
## 2049 2024-05-02  0.04638227      2492.9
## 2050 2024-05-02  0.04638227      2681.4
## 2051 2024-05-02  0.04638227      2915.8
## 2052 2024-05-02  0.04638227      3026.0
## 2053 2024-05-02  0.04638227      2702.7
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## 2054 2024-05-02   0.04638227      3480.4
## 2055 2024-05-02   0.04638227      2815.8
## 2056 2024-05-02   0.04638227      2171.7
## 2057 2024-05-02   0.04638227      2062.3
## 2058 2024-05-02   0.04638227      2019.3
## 2059 2024-05-02   0.04638227      1983.9
## 2060 2024-05-02   0.04638227      1988.8
## 2061 2024-05-02   0.04638227      1996.3
## 2062 2024-05-02   0.04638227      1996.1
## 2063 2024-05-02   0.04638227      1996.8
## 2064 2024-05-02   0.04638227      1999.1
## 2065 2024-05-03   0.04578117      2131.4
## 2066 2024-05-03   0.04578117      2118.6
## 2067 2024-05-03   0.04578117      2043.4
## 2068 2024-05-03   0.04578117      2416.9
## 2069 2024-05-03   0.04578117      2203.3
## 2070 2024-05-03   0.04578117      2411.4
## 2071 2024-05-03   0.04578117      2118.1
## 2072 2024-05-03   0.04578117      2311.8
## 2073 2024-05-03   0.04578117      4170.2
## 2074 2024-05-03   0.04578117      2741.8
## 2075 2024-05-03   0.04578117      4140.8
## 2076 2024-05-03   0.04578117      4629.9
## 2077 2024-05-03   0.04578117      4611.9
## 2078 2024-05-03   0.04578117      3701.3
## 2079 2024-05-03   0.04578117      3080.5
## 2080 2024-05-03   0.04578117      2744.1
## 2081 2024-05-03   0.04578117      2497.6
## 2082 2024-05-03   0.04578117      2251.0
## 2083 2024-05-03   0.04578117      2145.4
## 2084 2024-05-03   0.04578117      2039.4
## 2085 2024-05-03   0.04578117      2032.1
## 2086 2024-05-03   0.04578117      2095.4
## 2087 2024-05-03   0.04578117      2144.8
## 2088 2024-05-03   0.04578117      2110.1
## 2089 2024-05-07   0.03901822      1979.7
## 2090 2024-05-07   0.03901822      1984.4
## 2091 2024-05-07   0.03901822      1990.4
## 2092 2024-05-07   0.03901822      2005.8
## 2093 2024-05-07   0.03901822      1995.4
## 2094 2024-05-07   0.03901822      2073.7
## 2095 2024-05-07   0.03901822      2376.0
## 2096 2024-05-07   0.03901822      2104.3
## 2097 2024-05-07   0.03901822      2070.0
## 2098 2024-05-07   0.03901822      2571.3
## 2099 2024-05-07   0.03901822      2390.2
## 2100 2024-05-07   0.03901822      2429.9
## 2101 2024-05-07   0.03901822      2826.8
## 2102 2024-05-07   0.03901822      2532.4
## 2103 2024-05-07   0.03901822      3065.7
## 2104 2024-05-07   0.03901822      3202.8
## 2105 2024-05-07   0.03901822      2062.4
## 2106 2024-05-07   0.03901822      2064.1
## 2107 2024-05-07   0.03901822      2033.6
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## 2108 2024-05-07   0.03901822       2030.6
## 2109 2024-05-07   0.03901822       2063.6
## 2110 2024-05-07   0.03901822       2303.3
## 2111 2024-05-07   0.03901822       2002.7
## 2112 2024-05-07   0.03901822       1985.6
## 2113 2024-05-13   0.21043772       2009.0
## 2114 2024-05-13   0.21043772       2014.0
## 2115 2024-05-13   0.21043772       2035.1
## 2116 2024-05-13   0.21043772       2567.5
## 2117 2024-05-13   0.21043772       2107.5
## 2118 2024-05-13   0.21043772       2428.9
## 2119 2024-05-13   0.21043772       2255.0
## 2120 2024-05-13   0.21043772       2171.9
## 2121 2024-05-13   0.21043772       2195.0
## 2122 2024-05-13   0.21043772       2143.2
## 2123 2024-05-13   0.21043772       2160.3
## 2124 2024-05-13   0.21043772       2117.7
## 2125 2024-05-13   0.21043772       2133.9
## 2126 2024-05-13   0.21043772       2127.8
## 2127 2024-05-13   0.21043772       2059.0
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## 2129 2024-05-13   0.21043772       2042.7
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## 2131 2024-05-13   0.21043772       2060.9
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## 2134 2024-05-13   0.21043772       2022.0
## 2135 2024-05-13   0.21043772       2018.0
## 2136 2024-05-13   0.21043772       2020.6
## 2137 2024-05-14   0.02948719       2022.7
## 2138 2024-05-14   0.02948719       2027.0
## 2139 2024-05-14   0.02948719       2082.2
## 2140 2024-05-14   0.02948719       2384.3
## 2141 2024-05-14   0.02948719       2386.0
## 2142 2024-05-14   0.02948719       2768.2
## 2143 2024-05-14   0.02948719       2392.8
## 2144 2024-05-14   0.02948719       2597.4
## 2145 2024-05-14   0.02948719       2949.3
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## 2148 2024-05-14   0.02948719       3205.0
## 2149 2024-05-14   0.02948719       3155.8
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## 2153 2024-05-14   0.02948719       2744.4
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## 2155 2024-05-14   0.02948719       2375.0
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## 2158 2024-05-14   0.02948719       2052.9
## 2159 2024-05-14   0.02948719       2070.6
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## 2161 2024-05-23   0.05403333       2098.4
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## 2162 2024-05-23   0.05403333      2337.6
## 2163 2024-05-23   0.05403333      4588.9
## 2164 2024-05-23   0.05403333      6297.4
## 2165 2024-05-23   0.05403333      2409.3
## 2166 2024-05-23   0.05403333      2569.2
## 2167 2024-05-23   0.05403333      2890.9
## 2168 2024-05-23   0.05403333      3426.1
## 2169 2024-05-23   0.05403333      3352.8
## 2170 2024-05-23   0.05403333      3452.3
## 2171 2024-05-23   0.05403333      6196.9
## 2172 2024-05-23   0.05403333      4104.7
## 2173 2024-05-23   0.05403333      3523.6
## 2174 2024-05-23   0.05403333      3602.3
## 2175 2024-05-23   0.05403333      3404.6
## 2176 2024-05-23   0.05403333      2648.8
## 2177 2024-05-23   0.05403333      1987.7
## 2178 2024-05-23   0.05403333      1986.1
## 2179 2024-05-23   0.05403333      1994.0
## 2180 2024-05-23   0.05403333      2025.4
## 2181 2024-05-23   0.05403333      2025.6
## 2182 2024-05-23   0.05403333      1986.9
## 2183 2024-05-23   0.05403333      1996.6
## 2184 2024-05-23   0.05403333      1982.3
## 2185 2024-05-24   0.04961363      2012.1
## 2186 2024-05-24   0.04961363      1994.2
## 2187 2024-05-24   0.04961363      2060.6
## 2188 2024-05-24   0.04961363      2070.8
## 2189 2024-05-24   0.04961363      2023.8
## 2190 2024-05-24   0.04961363      1996.8
## 2191 2024-05-24   0.04961363      2201.1
## 2192 2024-05-24   0.04961363      3263.4
## 2193 2024-05-24   0.04961363      2114.4
## 2194 2024-05-24   0.04961363      1996.4
## 2195 2024-05-24   0.04961363      2036.8
## 2196 2024-05-24   0.04961363      2030.8
## 2197 2024-05-24   0.04961363      2130.1
## 2198 2024-05-24   0.04961363      2060.5
## 2199 2024-05-24   0.04961363      2155.8
## 2200 2024-05-24   0.04961363      2025.4
## 2201 2024-05-24   0.04961363      2092.4
## 2202 2024-05-24   0.04961363      2012.8
## 2203 2024-05-24   0.04961363      2013.6
## 2204 2024-05-24   0.04961363      2002.2
## 2205 2024-05-24   0.04961363      2022.6
## 2206 2024-05-24   0.04961363      2033.2
## 2207 2024-05-24   0.04961363      2041.3
## 2208 2024-05-24   0.04961363      2065.0
## 2209 2024-05-24   0.04717101      2012.1
## 2210 2024-05-24   0.04717101      1994.2
## 2211 2024-05-24   0.04717101      2060.6
## 2212 2024-05-24   0.04717101      2070.8
## 2213 2024-05-24   0.04717101      2023.8
## 2214 2024-05-24   0.04717101      1996.8
## 2215 2024-05-24   0.04717101      2201.1
```

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## 2216 2024-05-24   0.04717101       3263.4
## 2217 2024-05-24   0.04717101       2114.4
## 2218 2024-05-24   0.04717101       1996.4
## 2219 2024-05-24   0.04717101       2036.8
## 2220 2024-05-24   0.04717101       2030.8
## 2221 2024-05-24   0.04717101       2130.1
## 2222 2024-05-24   0.04717101       2060.5
## 2223 2024-05-24   0.04717101       2155.8
## 2224 2024-05-24   0.04717101       2025.4
## 2225 2024-05-24   0.04717101       2092.4
## 2226 2024-05-24   0.04717101       2012.8
## 2227 2024-05-24   0.04717101       2013.6
## 2228 2024-05-24   0.04717101       2002.2
## 2229 2024-05-24   0.04717101       2022.6
## 2230 2024-05-24   0.04717101       2033.2
## 2231 2024-05-24   0.04717101       2041.3
## 2232 2024-05-24   0.04717101       2065.0
## 2233 2024-05-25   0.03502137       2061.1
## 2234 2024-05-25   0.03502137       2179.7
## 2235 2024-05-25   0.03502137       2525.8
## 2236 2024-05-25   0.03502137       2215.6
## 2237 2024-05-25   0.03502137       2279.2
## 2238 2024-05-25   0.03502137       2401.6
## 2239 2024-05-25   0.03502137       2424.1
## 2240 2024-05-25   0.03502137       2977.0
## 2241 2024-05-25   0.03502137       3642.3
## 2242 2024-05-25   0.03502137       3689.3
## 2243 2024-05-25   0.03502137       4225.2
## 2244 2024-05-25   0.03502137       4375.8
## 2245 2024-05-25   0.03502137       4012.9
## 2246 2024-05-25   0.03502137       3917.1
## 2247 2024-05-25   0.03502137       3457.8
## 2248 2024-05-25   0.03502137       2992.1
## 2249 2024-05-25   0.03502137       2580.6
## 2250 2024-05-25   0.03502137       2247.8
## 2251 2024-05-25   0.03502137       2126.1
## 2252 2024-05-25   0.03502137       1987.2
## 2253 2024-05-25   0.03502137       2031.6
## 2254 2024-05-25   0.03502137       1983.3
## 2255 2024-05-25   0.03502137       1969.6
## 2256 2024-05-25   0.03502137       1977.0
## 2257 2024-06-01   0.03457463       2152.1
## 2258 2024-06-01   0.03457463       2159.8
## 2259 2024-06-01   0.03457463       2198.7
## 2260 2024-06-01   0.03457463       2216.6
## 2261 2024-06-01   0.03457463       2143.3
## 2262 2024-06-01   0.03457463       2246.1
```