

## Supporting Online Material

### Location and materials

ODP Site 1119 is located at water depth 395 m on the upper continental slope and 96 km east of the South Island coast, New Zealand (Fig. 1) (*S1*). The drillhole penetrated a 0-86 metres composite depth (mcd) interval of upper slope terrigenous silts and fine sands (0-0.252 Ma; MIS 1-8) which are underlain across a small ~25 k.y.-long unconformity (*S2*) by a further 429 m of similar Late Pliocene-Pleistocene sediment (0.277-3.91 Ma; MIS 8-Gi11). The background core lithology is terrigenous clayey silt and sand. Pre-Leg 181 piston coring had established that sediment deposition on the eastern South Island slope during the last glaciation was characterised by a distinctive grey, mica-rich, hemipelagic mud (*S3*), and nearby Deep Sea Drilling Project (DSDP) Site 594 (*S4*) showed that glacial/interglacial cycles back to MIS 25 and beyond comprise an alternating lithological signature of hemipelagic (glacial) and carbonate biopelagic (interglacial) mud

The MIS 1-8 sediments above the unconformity represent downlapping shelf-edge clinoforms, deposited on the upper slope ~5 km seaward of the shelf break and ~15 km seaward of the lowstand shoreline. The older sediments below the unconformity mostly comprise sediment drifts (*S5*, *S6*) deposited from north-flowing Antarctic Intermediate (AAIW) and Subantarctic Mode (SAMW) waters at slope depths between ~400 and 900 m. Today, Site 1119 lies just seawards of the STF, which is represented off eastern South Island by the Southland Front (*S7*). The front separates dominantly warm, saline subtropical and mixed water of the Southland Current, which bathes the shelf and uppermost slope to the west, from cold, fresher, oceanic Subantarctic Water (SAW) which lies over the middle and lower slope further east (*S8*). Lithological and isotopic evidence shows that STF migration occurred across Site 1119 during recent glacial/interglacial (G/I) cycles (*S2*), and the core record suggests that the associated frontal currents impinged on the seafloor down to depths of at least 400 m. Accordingly, sand content and sedimentation rates increase upwards in the Site 1119 core in sympathy with the shallowing depth of deposition. Before 1.25 Ma (MIS 37), the drift succession accumulated at a remarkably steady average rate of 10.4 cm/ky. After this, the sedimentation

rate increased from 10 to ~20 cm/ky between 1.25 and 0.7 Ma (MIS 17), after which again occurred increasingly rapid sediment pulses up to the 151 cm/ky recorded during MIS 2 (S2).

### Methods

The onboard *metres composite depth* (mcd) scale for Site 1119 (Weedon & Harris, in *SI*) extends to 179.23 mcd (0.67 Ma). The scale contains four steps at 122.74-123.38, 133.27-134.15, 144.3-145.81 and 165.48-169.55 mcd which correspond to positions where small sections of core are missing from both the B and C holes. In order to assemble downhole log (DHL) records which can be plotted alongside the mcd scale without disjunctions at these points, a *revised metres composite depth* (rmcd) scale was created which (i) has the same total depth as the mcd scale; and (ii) covers the mcd disjunctions by stretching-up the log records from beneath each and down to the next lower matching peak between the MST and DHL records. This rmcd scale has been used in preparing the age model used in Fig. 4.

The age model is based on AMS radiocarbon dates over the last 39,000 years (S2) ; below that level, 38 selected peaks have been mapped onto the 1119 gamma record from the tuned oxygen isotope records from ODP Sites 758 and 1143 (Tables S1, S2). Matching the 1119 climatic pattern to the marine oxygen isotope curve is relatively unambiguous back to ~2.5 Ma (MIS 100). Between that level and the base of the hole, however, the similarities between the two curves are less striking, and more than one interpretation is possible. We have allocated the oldest sediment to MIS Gi11 (3.91 Ma), based mainly upon the shipboard biostratigraphy (*SI*). The stratigraphic record of presumed index species *Globorotalia puncticulata*, *Globorotalia puncticuloides* and *Globorotalia inflata* var. at Site 1119 differs from the ranges which are presented in the literature. The biostratigraphic interpretation of the Site 1119 record is therefore currently under review (George Scott, *pers. comm.*). The same age model was applied to the carbon and oxygen stable isotope measurements (Table S3, Fig. 4). That the mapped timescale is accurate throughout the core is suggested by the similarity in interpolated age of numerous other non-tied isotope stage events with their ODP 758 and 1143 equivalents, and by the relatively invariant average sedimentation rate of 10.4 cm/ky which the age model yields for the 1119 core, between 187 and 514 mcd (0.68-3.91 Ma).

The DHL *natural  $\gamma$  ray intensity* record for site 1119 stretches continuously between 85 and 492 rmcd, above, across and below which an MST gamma record is available from all shipboard core. The overlapping portions of the MST and DHL gamma records are of generally similar pattern but differ in their measurement scales. A composite gamma ray record was assembled by joining the MST-DHL-MST records at 107.06 (0.43 Ma) and 486.81 rmcd (3.68 Ma). The MST portions were converted into the DHL scale by assuming a linear relationship between the two different gamma sensors and using the conversion algorithms  $DHL_{ng} = (MST_{ng} * 1.8) + 31.6$  and  $DHL_{ng} = (MST_{ng} * 2.48) - 19.41$  for the upper and lower MST intervals, respectively (Fig. 4). The algorithms were derived empirically by fitting a linear function to MST and DHL gamma measurements for short portions of their overlapping records near each point of junction.

The composite natural gamma record is continuous apart from diastems which occur across the MIS 1/2 (~9-12 ka) and MIS 5/6 (~132-135 ka) boundaries, and a small unconformity within MIS 8 (~252-277 ka). MST data points were recorded at 15 cm intervals, yielding an average resolution of 0.5 ky above the downlap unconformity at 86.19 mcd and 1.3 ky below that to the base of the hole. Downhole log measurements were also spaced at 15 cm intervals, which yields a similar resolution of ~1.3 ky for all depths below 107.06 rmcd (MIS 11).

Samples for *stable isotope measurement* were taken at ~1 m spacing over the top ~50 m of the core (MIS 1-6), and ~3-5 m spacing over the interval 50-514 rmcd (MIS 6-Gi 11). Planktic foraminifera were prepared by separation from the hemipelagic mudstone by sieving through 63  $\mu$  mesh size, picking, gentle ultrasonification in 5% hydrogen peroxide, and rinsing in de-ionised water. Generally 4-6 specimens of *Globigerina bulloides* were analysed per sample. However, some carbonate-poor samples only yielded 1-4 tests for analysis. In all samples, overly large, small, stained or damaged specimens were rejected. The carbonate isotope samples were analysed by P. Gammon at the Department of Geology and Geophysics, University of Adelaide, using an automated on-line “Micromass Isocarb” device that reacts samples with 100% orthophosphoric acid in a common acid bath. The gas generated passes through two water traps before being analysed by a dual-inlet Micromass Optima mass spectrometer. For calibration and accuracy,

each analytical run of 40 samples included two international NBS19 standards ( $\delta^{13}\text{C PDB} = 1.95\text{‰}$ ;  $\delta^{18}\text{O PDB} = -2.2\text{‰}$ ), five internal bicarbonate standards, and five blanks. In addition, 10% of analyses were chosen as random duplicates to test reproducibility and comparability over different analytical runs. All duplicates agreed with the original analysis within 0.3‰, and the combined average of original plus duplicate was adopted for plotting. Noting the declining sedimentation rate which occurs down the core, and that sampling was concentrated over the MIS 1-5 interval, the stable isotope records have a resolution of 1.3 ky for MIS 1-5 and ~5-10 ky (not including core gaps) down through the remainder of the core. The stable isotope data for the top 100 mcd of Site 1119 and accelerator mass spectrometer radiocarbon dates are published in Carter et al. (S2).

### **Coincidence of 1119, Vostok and MD97-2120 climate records at millennial scale during MIS 6**

A general similarity is apparent between the Vostok isotope and Site 1119 gamma records for the MIS 6 interval (Fig 2). To examine this correspondence more closely we have accepted the similarity at face value and mapped the age of 20 equivalent features from Vostok to Site 1119 (Fig. 3). For comparison between these two atmospheric records and the marine record, we have also mapped the age of 14 Vostok features onto the 150-190 ka part of a high resolution oxygen isotope record from IMAGES core MD97-2120 (itself a re-occupation of DSDP Site 594, Bounty Trough, nearby to ODP Site 1119). These age mappings, of course, assume that no leads or lags obtain between the different data sets. That the resulting age models are acceptable is suggested by (i) the match which they produce between the three curves, and (ii) the reasonable sedimentation rate variations which result for the marine cores (7 to 21 cm/ky for core MD97-2120; 28 to 164 cm/ky for core ODP 1119).

Fig. 3 shows that the Vostok, 1119 and MD97-2120 records share a common structure at the ~8 ky wavelength which marks stadial/interstadial (S/I) events over the 150-190 ka part of the southern hemisphere climate record. Adopting Vostok as the master record, we recognize interstadials 6A through 6K and stadials 6B through 6J. These features are all recognizable in the records of both Site 1119 and MD97-2120. At shorter millennial or centennial scales, close similarities again occur between the three records, though centennial comparisons with Site 1119 are inhibited by the lower (280 yr) resolution and

small intra-core gaps in that record. Despite this, 38 of the 41 discrete climatic warmings represented within MIS 6 at Site 1119, and 6 out of the 6 major coolings, have an equivalent in the Vostok record, and individual or small clusters of peaks match closely in shape. For example, the distinctive asymmetrical shape of interstadial 6A and the strongly double-peaked nature of interstadial 6I are closely matched between Vostok and Site 1119 and, to a slightly lesser extent, also in MD97-2120. Matched events at centennial level may be present between two of the records where the resolution of the third is inadequate to show it; for example, in stadials 6B and 6H between Vostok and MD97-2120, and in stadial J between Vostok and Site 1119. Lastly, that this southern hemisphere climate signature is also global is suggested by its similarity with the highest resolution MIS 6 oxygen isotope curve which is available from the North Atlantic Ocean, ODP 983 (Gardar Drift; *S9*). After making allowance for the minor core gaps in the 983 record, and adjusting its published time scale so that it corresponds to the southern climatic cycles, close matches for S/I 6C-6G and 6J-6K are apparent at Site 983 (*S9*; their Fig. 2b).

Interestingly, the pattern of the MD97-2120 isotope record is slightly muted and displays lower slope S/I transitions than those which occur at Vostok and Site 1119, i.e. the marine curve is conspicuously less “peaky”. This character is consistent with the slower response to climate change that is expected from the ocean system with its  $\sim 1$  ky time constant and possibility of bioturbational “blurring”, compared with the atmosphere which registers change on a  $\sim 1$  y (effectively instantaneous) scale. Put differently, the atmospheric records exhibit a cleaner switching between opposing climate states than does the more buffered ocean record. After allowing for this, the MIS 6 data discussed here demonstrate that a close integration exists between atmospheric and oceanic measures of climate change across a wide range of southern latitudes and at millennial and perhaps shorter time scales.

For the extended 40 ky part of the MIS 6 record that we are able to test, a close millennial-scale correlation appears to exist in the southern hemisphere between changes in a mid-latitude ice-melt proxy, a mid-latitude marine ice-volume proxy, and a south polar plateau air temperature proxy. On the other hand, for the MIS 1-5 interval, these same proxies do not contain the Younger Dryas and nor do they exhibit the classic Dansgaard-Oeschger structure of Greenland ice cores and North Atlantic marine cores. These facts

are consistent with strong intra-southern hemisphere atmospheric coupling during recent phases of climate cycling.

### **Stable isotope records for Site 1119**

Preparation of complete high resolution stable isotope records for Site 1119 is precluded by the rarity of benthic foraminiferal taxa suitable for analysis, and by poor core recovery across sandy intervals between 330-450 mcd (2.0-3.3 Ma). Nevertheless, a high resolution (~1.3 ky) planktic isotope curve has been compiled for the MIS 1-5 interval (S2), and a ~5-10 ky resolution curve for the older parts of the hole for which core is available (Fig. 4a).

Despite their incompleteness, the stable isotope data confirm three important paleoceanographic points. The first is that the oxygen curve reflects a general enrichment over the last 3.9 Ma, with  $\delta^{18}\text{O}$  values increasing from typically -1.5 per mil at 3.9 Ma to -2.5 per mil today. This trend is consistent with that of other (higher resolution) oxygen isotope records from around the globe (Fig. 4 e-g), and serves to indicate (i) that Site 1119, though located nearshore, especially during lowstands, nonetheless retains throughout a global oceanographic signature, and (ii) that the age model we have adopted is correct (or, at the very least, is consistent with the oxygen isotope evidence).

Second, the carbon isotope curve contains several saw-toothed cycles of  $\delta^{13}\text{C}$  depletion with a wavelength of several hundred thousand years. Over the upper part of the Site 1119 record, and especially conspicuously within the MIS 1-5 and 6-7 G/I cycles, the saw-toothed  $\delta^{13}\text{C}$  pattern can be used to track movements of the STF as it responded to changing climate and sea-level (S2). The changing frontal positions resulted in a corresponding oscillation of isotope-specific water masses above the site, with Subantarctic Water (SAW;  $\delta^{13}\text{C} = +0.5$  per mil) present during warm peaks, Subtropical Water (STW;  $\delta^{13}\text{C} = -1.0$  per mil) and upwelled Antarctic Intermediate Water (AAIW;  $\delta^{13}\text{C} = -1.5$  per mil) during cold peaks, and mixed STW/SAW ( $\delta^{13}\text{C} = 0$  to -1 per mil) during transitional climate stages. Concomitantly, the MIS 1-7  $\delta^{18}\text{O}$  curve displays a subdued SPECMAP pattern. This subdued nature results also from the movement of low latitude surface water above Site 1119 during glaciations. Such glacial incursions of warmer STW

reduce the magnitude of the cooling which would otherwise occur, and thereby reduce also the magnitude of oxygen isotope enrichments during glaciations.

Third, and last, the cold climax of the marked  $\delta^{13}\text{C}$  cycle at 0.62 Ma (MIS 16/15 boundary) coincides with what many authors have interpreted as the Mid-Pleistocene Transition between a 100 ky- and 41 ky-cycle climatic pattern, and may mark a fundamental oceanographic restructuring. Evidence for this can be found in the severe MIS 16 cooling and the ensuing sharp MIS 15 warming rebound that are present in both the carbon isotope and gamma ray records at Site 1119, and also in marine foraminiferal census counts from Site 1125 (*S10*) and in terrestrial vegetation proxies at Site 1123 (*S11*, *S12*). Beyond the southwest Pacific, most available Pacific oxygen isotope curves display a particularly severe MIS 16/15 couplet across which occurs also the noticeable MPT shift in isotope stage pattern.

#### **Wider occurrence of Site 1119 climatic events**

Many of the climatic events represented in the Site 1119 data are recorded also in other nearby Pacific data sets (see Fig. 1 for site locations). For instance: (i) phases of increased flow in the Pacific Deep Western Boundary Current are inferred at 1.65 and 1.53 Ma, based respectively on increased sediment mass accumulation rates at Sites 1123 and 1124 (*S13*) and on reduced Mn-nodule growth at Site 1121 (*S14*); (ii) major 6-10<sup>0</sup> C coolings of surface waters at 2.80-2.85, 2.95-3.0 and 3.30-3.35 Ma have been estimated from foraminiferal census counts at Site 1125 (*S10*); and (iii) notable terrestrial warmings occurred at 1.60, 1.25, 0.95 and 0.62 Ma, based upon pollen and spore counts from Site 1123 (*S11*, *S12*).

More widely, some of the other Site 1119 events are manifest outside the immediate southwest Pacific region, which increases our confidence in the global representativeness of the New Zealand record. For example, the climatic deterioration which is marked by oxygen isotope enrichment between ~3-2.5 Ma (MIS 123-99) is widely interpreted as marking the enhanced growth of major boreal ice sheets (*S15*). Second, the carbon isotope cycles at Site 1119 match closely (within the probable error of the age models) with Phases I-IV of deterioration in sea surface temperature recorded from alkenone data from ODP Site

1084, eastern South Atlantic (*S16*). This match is consistent with oceanographic linkages between the two sites, perhaps at a southern hemisphere-wide level.

One surprising and probably important feature of the Site 1119 gamma curve is the intensity of the apparent Late Pliocene cooling events that culminated at ~3.63-3.68, 3.38 and 3.12 Ma, and which may have reached 9-12 °C below Holocene levels. The coolings are more marked in the gamma record than in equivalent oxygen isotope records, indicating either particularly severe mid-southern latitude (and probably Antarctic) glaciations at those times or an altered empirical relationship between gamma ray signature and climate over this part of the Site 1119 record. In favour of the former interpretation, episodes of strong Late Pliocene cooling are known independently from microfaunal studies at both nearby Site 1125 (*S11*) and in the north Pacific (*S17*), and also from warm-water molluscan extinctions (*S18*) and strongly oscillating warm-cold microfossil events (*S19-21*) that have long been known from equivalent marine strata in onland New Zealand.

Finally, and given the equivalence which we have established between the New Zealand record and Antarctic climate back to ~0.37 Ma (Fig. 2), the gamma record of Site 1119, including its three severe Late Pliocene coolings, may represent a surrogate record for Antarctic polar plateau air temperature beyond the range of the Vostok and Camp Fuji ice cores (Fig. 3c, right-hand axis).

#### **Data Tables S1-2**

*Table S1.* Table of control points for the age model adopted for Site 1119. Age model generated by mapping from the tuned deuterium isotope record from Vostok (back to MIS 9.3; 0.35 Ma) (*S25*) and the tuned oxygen isotope records from ODP Site 758, northern Indian Ocean (back to MIS Gi2; 3.64 Ma) (*S26*), and Site 1143, South China Sea (back to MIS Gi11 at the base of the hole; 3.91 Ma) (*S27*).



*Table S2.* Table of the composite natural gamma record for Site 1119 which comprises MST values transmuted to the downhole measurement scale for depths at and above 107.06 rmcd (0.43 Ma) and at and below 486.81 rmcd (3.68 Ma), and direct downhole log measurements in between.

*Table S3.* Table of carbon and oxygen isotope data for Site 1119, presented against the same age model as Table S2.

## References

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**Carter & Gammon, Table S1**  
**Tie points used to develop Site 1119 Age Model**

| 1119<br>Core C<br>mbsf | 1119<br>Cores A-C<br>rmcd | 1119<br>Age Model | Oxygen<br>isotope<br>stage | Age source     |                                  |
|------------------------|---------------------------|-------------------|----------------------------|----------------|----------------------------------|
|                        | 0.00                      | 0                 | intra MIS 1                | Assumed        |                                  |
| 0.28                   | 0.44                      | 9000              | intra MIS 1                | Estimate (14C) | Sub-Holocene diastem             |
| 0.29                   | 0.45                      | 11975             | intra MIS 2                | Estimate (14C) | Sub-Holocene diastem             |
| 1.98                   | 2.14                      | 15157             | intra MIS 2                | AMS 14C        |                                  |
| 3.92                   | 4.08                      | 16419             | intra MIS 2                | AMS 14C        |                                  |
| 4.84                   | 5.00                      | 17278             | intra MIS 2                | AMS 14C        |                                  |
| 6.36                   | 6.52                      | 18180             | intra MIS 2                | AMS 14C        |                                  |
| 11.12                  | 10.88                     | 21531             | intra MIS 2                | AMS 14C        |                                  |
| 14.54                  | 14.30                     | 24059             | intra MIS 2                | AMS 14C        |                                  |
| 18.62                  | 18.34                     | 39330             | intra MIS 3                | AMS 14C        |                                  |
| 41.78                  | 42.78                     | 113000            | MIS 5.4                    | Tuned Vostok   | (after Shackleton, 2000)         |
| 46.58                  | 47.58                     | 132000            | MIS 5.5                    | Tuned Vostok   | MIS 5/6 diastem                  |
| 46.59                  | 47.59                     | 135000            | intra-MIS 6                | Tuned Vostok   | MIS 5/6 diastem                  |
| 48.52                  | 50.78                     | 151000            | intra-MIS 6                | Tuned Vostok   |                                  |
| 70.82                  | 75.82                     | 187500            | MIS 6/7                    | Tuned Vostok   |                                  |
| 73.37                  | 78.37                     | 199000            | MIS 7.1                    | Tuned Vostok   |                                  |
| 77.33                  | 82.03                     | 220000            | MIS 7.5                    | Tuned Vostok   |                                  |
| 81.92                  | 86.62                     | 252000            | intra-MIS 8                | Tuned Vostok   | intra-MIS 8 downlap unconformity |
| 81.93                  | 86.63                     | 277000            | intra-MIS 8                | Tuned Vostok   | intra-MIS 8 downlap unconformity |
| 84.12                  | 88.82                     | 300000            | MIS 8/9                    | Tuned Vostok   |                                  |
| 86.48                  | 92.42                     | 335000            | MIS 9.3                    | Tuned Vostok   |                                  |
| 97.48                  | 106.54                    | 429000            | MIS 12                     | Tuned ODP 758  | (after Chen et al., 1995)        |
| 122.07                 | 132.65                    | 572000            | MIS 15.1                   | Tuned ODP 758  |                                  |
| 168.25                 | 187.00                    | 688000            | MIS 17                     | Tuned ODP 758  |                                  |
| 182.27                 | 201.02                    | 783000            | MIS 19                     | Tuned ODP 758  |                                  |
| 204.52                 | 223.27                    | 952000            | MIS 25                     | Tuned ODP 758  |                                  |
| 216.71                 | 235.46                    | 1068000           | MIS 31                     | Tuned ODP 758  |                                  |
| 235.61                 | 254.36                    | 1238000           | MIS 37                     | Tuned ODP 758  |                                  |
| 241.55                 | 260.30                    | 1290000           | MIS 40                     | Tuned ODP 758  |                                  |
| 248.87                 | 267.62                    | 1398000           | MIS 45                     | Tuned ODP 758  |                                  |
| 267.61                 | 286.36                    | 1563000           | MIS 53                     | Tuned ODP 758  |                                  |
| 273.10                 | 291.85                    | 1642000           | MIS 57                     | Tuned ODP 758  |                                  |
| 279.96                 | 298.71                    | 1702000           | MIS 60                     | Tuned ODP 758  |                                  |
| 287.43                 | 306.18                    | 1788000           | MIS 64                     | Tuned ODP 758  |                                  |
| 296.26                 | 315.01                    | 1899000           | MIS 69                     | Tuned ODP 758  |                                  |
| 321.87                 | 340.62                    | 2146000           | MIS 82                     | Tuned ODP 758  |                                  |
| 327.36                 | 346.11                    | 2228000           | MIS 85                     | Tuned ODP 758  |                                  |
| 359.05                 | 377.80                    | 2528000           | MIS 100                    | Tuned ODP 758  |                                  |
| 370.94                 | 389.69                    | 2678000           | MIS 107                    | Tuned ODP 758  |                                  |
| 387.24                 | 405.99                    | 2872000           | MIS 115                    | Tuned ODP 758  |                                  |
| 397.61                 | 416.36                    | 2991000           | MIS 121                    | Tuned ODP 758  |                                  |
| 413.61                 | 432.36                    | 3130000           | MIS 131                    | Tuned ODP 758  |                                  |
| 432.51                 | 451.26                    | 3295000           | MIS 140 = M2               | Tuned ODP 758  |                                  |
| 441.96                 | 460.71                    | 3383000           | MIS 146                    | Tuned ODP 758  |                                  |
| 456.28                 | 475.03                    | 3585000           | MIS 155                    | Tuned ODP 758  |                                  |
| 462.68                 | 481.43                    | 3640000           | MIS Gi-2                   | Tuned ODP 1143 | (after Tian et al., 2002)        |
| 478.92                 | 497.67                    | 3770000           | MIS Gi-8                   | Tuned ODP 1143 |                                  |
| 491.52                 | 510.27                    | 3883000           | MIS Gi-11                  | Tuned ODP 1143 |                                  |
| 494.80                 | 513.55                    | 3912300           |                            | Estimated      | Total Depth                      |

**Carter & Gammon, Science 2004, Table S-2**  
**Natural gamma time series from ODP Site 1119**  
**Leg 181, Southwest Pacific Ocean**

| <b>1119</b> | <b>1119</b>      | <b>1119</b> |
|-------------|------------------|-------------|
| <i>rmcd</i> | <i>Age Model</i> | <i>NG</i>   |
| 0.22        | 4295             | 66.57       |
| 0.36        | 7159             | 77.37       |
| 0.50        | 12050            | 87.63       |
| 0.64        | 12314            | 95.64       |
| 0.78        | 12578            | 99.60       |
| 0.92        | 12841            | 92.04       |
| 1.06        | 13105            | 98.70       |
| 1.20        | 13368            | 97.08       |
| 1.34        | 13632            | 93.39       |
| 1.72        | 14347            | 100.59      |
| 1.86        | 14611            | 104.82      |
| 2.00        | 14875            | 95.37       |
| 2.14        | 15157            | 98.34       |
| 2.28        | 15248            | 99.60       |
| 2.42        | 15339            | 103.83      |
| 2.56        | 15430            | 115.53      |
| 2.70        | 15521            | 108.69      |
| 2.84        | 15612            | 107.16      |
| 3.22        | 15860            | 104.82      |
| 3.36        | 15951            | 111.30      |
| 3.50        | 16042            | 105.63      |
| 3.64        | 16133            | 103.11      |
| 3.78        | 16224            | 95.10       |
| 3.92        | 16315            | 85.83       |
| 4.06        | 16406            | 97.35       |
| 4.20        | 16531            | 99.69       |
| 4.34        | 16662            | 98.34       |
| 4.86        | 17147            | 102.21      |
| 5.00        | 17278            | 106.98      |
| 5.14        | 17361            | 105.36      |
| 5.28        | 17444            | 102.48      |
| 5.42        | 17527            | 105.72      |
| 5.56        | 17610            | 99.69       |
| 5.70        | 17693            | 99.33       |
| 5.84        | 17776            | 100.23      |
| 6.36        | 18085            | 87.63       |
| 6.50        | 18168            | 99.42       |

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| 6.64  | 18272 | 107.43 |
| 6.78  | 18380 | 104.73 |
| 6.92  | 18487 | 110.94 |
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| 7.20  | 18703 | 104.91 |
| 7.34  | 18810 | 107.16 |
| 7.60  | 19010 | 96.36  |
| 7.74  | 19118 | 105.99 |
| 8.12  | 19410 | 107.61 |
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| 8.82  | 19948 | 106.98 |
| 8.96  | 20055 | 113.01 |
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| 9.24  | 20271 | 106.71 |
| 9.62  | 20563 | 104.55 |
| 9.76  | 20670 | 104.82 |
| 9.90  | 20778 | 104.73 |
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| 10.18 | 20993 | 115.53 |
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| 11.68 | 22122 | 113.55 |
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| 12.10 | 22433 | 113.28 |
| 12.24 | 22536 | 108.87 |
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| 14.82 | 26025 | 111.39 |
| 14.96 | 26554 | 114.72 |
| 15.10 | 27083 | 113.46 |

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| 15.90 | 30107 | 109.59 |
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| 16.32 | 31694 | 113.37 |
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| 16.60 | 32753 | 110.04 |
| 16.74 | 33282 | 113.46 |
| 17.12 | 34718 | 103.92 |
| 17.26 | 35248 | 82.59  |
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| 17.96 | 37856 | 105.18 |
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| 18.24 | 38914 | 104.91 |
| 18.62 | 40144 | 98.43  |
| 18.76 | 40566 | 106.89 |
| 18.90 | 40988 | 110.94 |
| 19.04 | 41410 | 111.57 |
| 19.18 | 41832 | 118.23 |
| 19.32 | 42254 | 106.17 |
| 19.46 | 42676 | 108.33 |
| 19.60 | 43098 | 110.40 |
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| 20.12 | 44665 | 112.92 |
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| 20.72 | 46474 | 109.77 |
| 20.86 | 46896 | 109.50 |
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| 21.28 | 48162 | 105.54 |
| 21.42 | 48584 | 104.91 |
| 21.56 | 49006 | 106.53 |
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| 22.22 | 50995 | 105.36 |
| 22.36 | 51417 | 112.74 |
| 22.50 | 51839 | 113.46 |
| 22.64 | 52261 | 110.85 |
| 22.78 | 52683 | 116.61 |
| 22.92 | 53105 | 109.32 |
| 23.06 | 53527 | 111.12 |
| 23.20 | 53949 | 111.57 |
| 23.72 | 55517 | 107.88 |
| 23.86 | 55939 | 109.14 |

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| 24.14 | 56783 | 107.34 |
| 24.28 | 57205 | 113.46 |
| 24.42 | 57627 | 113.64 |
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| 24.70 | 58471 | 117.06 |
| 24.84 | 58893 | 114.36 |
| 25.22 | 60038 | 115.89 |
| 25.36 | 60460 | 106.98 |
| 25.50 | 60882 | 103.02 |
| 25.54 | 61003 | 104.73 |
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| 26.10 | 62691 | 105.81 |
| 26.24 | 63113 | 102.30 |
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| 26.76 | 64680 | 104.64 |
| 26.90 | 65102 | 103.92 |
| 27.04 | 65524 | 107.16 |
| 27.18 | 65946 | 108.69 |
| 27.32 | 66368 | 101.76 |
| 27.46 | 66790 | 105.54 |
| 27.60 | 67212 | 109.95 |
| 27.74 | 67634 | 105.18 |
| 28.12 | 68780 | 106.98 |
| 28.26 | 69202 | 99.60  |
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| 28.54 | 70046 | 109.41 |
| 28.68 | 70468 | 110.94 |
| 28.82 | 70890 | 106.98 |
| 28.96 | 71312 | 106.89 |
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| 29.24 | 72156 | 108.24 |
| 29.60 | 73241 | 110.58 |
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| 30.02 | 74507 | 103.74 |
| 30.50 | 75954 | 104.01 |
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| 30.82 | 76919 | 105.09 |
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| 31.30 | 78365 | 102.84 |
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| 32.00 | 80475 | 104.82 |
| 32.16 | 80958 | 106.71 |

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| 32.48 | 81922  | 105.27 |
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| 32.80 | 82887  | 102.57 |
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| 34.46 | 87891  | 104.55 |
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| 36.12 | 92894  | 100.77 |
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| 36.66 | 94522  | 103.74 |
| 36.82 | 95005  | 99.78  |
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| 37.20 | 96150  | 100.05 |
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| 37.72 | 97717  | 98.52  |
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| 38.00 | 98561  | 94.56  |
| 38.14 | 98983  | 91.05  |
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| 38.42 | 99827  | 101.49 |
| 38.56 | 100249 | 97.08  |
| 38.70 | 100671 | 96.45  |
| 38.84 | 101093 | 99.60  |
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| 39.92 | 104349 | 100.95 |
| 40.06 | 104771 | 100.14 |
| 40.20 | 105193 | 99.24  |
| 40.34 | 105615 | 97.17  |
| 40.65 | 106549 | 105.63 |
| 40.79 | 106971 | 105.18 |

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| 40.93 | 107393 | 107.79 |
| 41.07 | 107815 | 101.58 |
| 41.21 | 108237 | 104.01 |
| 41.35 | 108659 | 112.38 |
| 41.49 | 109081 | 111.21 |
| 41.63 | 109503 | 107.16 |
| 41.77 | 109925 | 104.73 |
| 42.20 | 111222 | 109.95 |
| 42.34 | 111644 | 105.27 |
| 42.46 | 112005 | 103.56 |
| 42.62 | 112488 | 99.42  |
| 42.78 | 112970 | 96.54  |
| 42.94 | 113594 | 101.04 |
| 43.10 | 114267 | 97.62  |
| 43.26 | 114900 | 99.33  |
| 43.42 | 115533 | 94.56  |
| 43.58 | 116167 | 100.86 |
| 43.96 | 117671 | 92.94  |
| 44.12 | 118304 | 98.52  |
| 44.28 | 118937 | 103.56 |
| 44.44 | 119571 | 97.71  |
| 44.60 | 120204 | 87.99  |
| 44.76 | 120837 | 90.15  |
| 44.92 | 121471 | 86.46  |
| 45.08 | 122104 | 93.93  |
| 45.46 | 123608 | 89.88  |
| 45.62 | 124242 | 87.18  |
| 45.78 | 124875 | 89.16  |
| 45.94 | 125508 | 88.71  |
| 46.10 | 126142 | 76.29  |
| 46.28 | 126854 | 95.01  |
| 46.42 | 127408 | 90.78  |
| 46.56 | 127962 | 83.76  |
| 46.70 | 128517 | 87.90  |
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| 47.36 | 131129 | 85.74  |
| 47.50 | 131683 | 85.92  |
| 47.64 | 135251 | 105.45 |
| 47.78 | 135953 | 112.47 |
| 47.92 | 136655 | 112.38 |
| 48.06 | 137357 | 114.54 |
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| 48.34 | 138762 | 113.28 |
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| 48.86 | 141370 | 98.34  |
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| 49.14 | 142774 | 102.39 |



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| 49.42 | 144179 | 99.60  |
| 49.56 | 144881 | 85.92  |
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| 51.06 | 151408 | 104.28 |
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| 51.72 | 152370 | 104.01 |
| 51.88 | 152603 | 101.76 |
| 52.04 | 152837 | 98.70  |
| 52.20 | 153070 | 100.05 |
| 52.36 | 153303 | 102.12 |
| 52.52 | 153536 | 101.85 |
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| 52.84 | 154003 | 105.18 |
| 53.22 | 154557 | 105.00 |
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| 54.02 | 155723 | 104.01 |
| 54.18 | 155956 | 106.53 |
| 54.34 | 156189 | 105.99 |
| 54.72 | 156743 | 106.53 |
| 54.88 | 156976 | 106.35 |
| 55.04 | 157210 | 111.75 |
| 55.20 | 157443 | 109.68 |
| 55.36 | 157676 | 106.17 |
| 55.52 | 157909 | 104.91 |
| 55.68 | 158143 | 105.00 |
| 55.84 | 158376 | 105.45 |
| 56.22 | 158930 | 102.75 |
| 56.38 | 159163 | 105.00 |
| 56.54 | 159396 | 100.59 |
| 56.70 | 159629 | 105.00 |
| 56.86 | 159863 | 107.70 |
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| 57.66 | 161029 | 102.66 |
| 57.80 | 161233 | 105.00 |

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| 57.94 | 161437 | 102.39 |
| 58.08 | 161641 | 97.26  |
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| 58.36 | 162049 | 108.06 |
| 58.50 | 162253 | 108.24 |
| 58.64 | 162457 | 104.73 |
| 58.78 | 162661 | 105.09 |
| 59.16 | 163215 | 104.46 |
| 59.30 | 163419 | 105.00 |
| 59.44 | 163623 | 103.65 |
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| 59.72 | 164032 | 103.47 |
| 59.86 | 164236 | 110.22 |
| 60.00 | 164440 | 101.58 |
| 60.14 | 164644 | 107.52 |
| 60.28 | 164848 | 106.80 |
| 60.66 | 165402 | 103.74 |
| 60.80 | 165606 | 107.16 |
| 60.94 | 165810 | 100.14 |
| 61.08 | 166014 | 100.95 |
| 61.22 | 166218 | 105.27 |
| 61.36 | 166422 | 101.49 |
| 61.50 | 166626 | 97.71  |
| 61.64 | 166830 | 106.35 |
| 61.78 | 167034 | 101.67 |
| 62.06 | 167442 | 104.19 |
| 62.20 | 167647 | 109.95 |
| 62.66 | 168317 | 109.23 |
| 62.82 | 168550 | 104.01 |
| 62.98 | 168784 | 105.99 |
| 63.14 | 169017 | 99.96  |
| 63.30 | 169250 | 110.13 |
| 63.46 | 169483 | 106.17 |
| 63.62 | 169716 | 103.38 |
| 63.78 | 169950 | 104.10 |
| 64.16 | 170504 | 107.25 |
| 64.32 | 170737 | 107.16 |
| 64.48 | 170970 | 111.39 |
| 64.64 | 171203 | 105.81 |
| 64.80 | 171437 | 105.45 |
| 64.96 | 171670 | 104.55 |
| 65.12 | 171903 | 102.21 |
| 65.28 | 172136 | 102.66 |
| 65.66 | 172690 | 97.26  |
| 65.82 | 172923 | 96.99  |
| 65.98 | 173157 | 99.42  |
| 66.14 | 173390 | 102.30 |
| 66.30 | 173623 | 100.32 |

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| 66.46 | 173856 | 105.54 |
| 66.62 | 174089 | 97.98  |
| 66.78 | 174323 | 95.91  |
| 67.16 | 174877 | 99.96  |
| 67.32 | 175110 | 102.48 |
| 67.48 | 175343 | 104.82 |
| 67.64 | 175576 | 103.83 |
| 67.80 | 175810 | 98.43  |
| 67.88 | 175926 | 104.73 |
| 68.02 | 176130 | 100.50 |
| 68.16 | 176334 | 99.51  |
| 68.30 | 176538 | 107.07 |
| 68.68 | 177092 | 108.15 |
| 68.82 | 177296 | 108.60 |
| 68.96 | 177500 | 104.19 |
| 69.10 | 177704 | 110.04 |
| 69.24 | 177909 | 110.13 |
| 69.38 | 178113 | 107.70 |
| 69.52 | 178317 | 104.28 |
| 69.66 | 178521 | 101.13 |
| 69.80 | 178725 | 95.37  |
| 70.18 | 179279 | 106.26 |
| 70.32 | 179483 | 106.71 |
| 70.46 | 179687 | 108.69 |
| 70.60 | 179891 | 107.25 |
| 70.74 | 180095 | 93.03  |
| 70.88 | 180299 | 99.60  |
| 71.02 | 180503 | 97.89  |
| 71.16 | 180707 | 108.24 |
| 71.30 | 180911 | 111.03 |
| 71.68 | 181465 | 103.83 |
| 71.82 | 181669 | 107.34 |
| 71.96 | 181873 | 100.77 |
| 72.10 | 182077 | 105.45 |
| 72.24 | 182267 | 106.98 |
| 72.38 | 182471 | 99.15  |
| 72.52 | 182675 | 107.34 |
| 72.66 | 182879 | 100.77 |
| 72.80 | 183083 | 97.26  |
| 73.23 | 183710 | 100.23 |
| 73.37 | 183914 | 102.66 |
| 73.51 | 184118 | 94.74  |
| 73.65 | 184322 | 105.72 |
| 73.79 | 184526 | 96.45  |
| 73.93 | 184730 | 99.51  |
| 74.07 | 184935 | 100.05 |
| 74.21 | 185139 | 99.96  |
| 74.35 | 185343 | 104.37 |

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| 74.73 | 185897 | 97.53  |
| 74.87 | 186101 | 105.63 |
| 75.01 | 186305 | 96.99  |
| 75.15 | 186509 | 101.76 |
| 75.29 | 186713 | 97.98  |
| 75.43 | 186917 | 94.02  |
| 75.57 | 187121 | 99.87  |
| 75.71 | 187325 | 101.04 |
| 75.82 | 187485 | 82.59  |
| 75.98 | 188176 | 96.45  |
| 76.28 | 189529 | 95.82  |
| 76.44 | 190251 | 92.31  |
| 76.60 | 190973 | 99.24  |
| 76.76 | 191694 | 97.71  |
| 76.92 | 192416 | 95.91  |
| 77.08 | 193137 | 102.03 |
| 77.24 | 193859 | 96.81  |
| 77.40 | 194580 | 99.15  |
| 77.72 | 196024 | 103.20 |
| 77.88 | 196745 | 93.12  |
| 78.04 | 197467 | 91.41  |
| 78.23 | 198324 | 79.26  |
| 78.37 | 198955 | 77.01  |
| 78.51 | 199746 | 101.31 |
| 78.89 | 201926 | 99.42  |
| 79.03 | 202730 | 98.79  |
| 79.17 | 203533 | 93.66  |
| 79.31 | 204336 | 97.71  |
| 79.45 | 205139 | 90.33  |
| 79.59 | 205943 | 97.62  |
| 79.73 | 206746 | 94.92  |
| 79.87 | 207549 | 92.13  |
| 80.01 | 208352 | 98.52  |
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| 80.53 | 211336 | 99.60  |
| 80.67 | 212139 | 97.26  |
| 80.81 | 212943 | 91.14  |
| 80.95 | 213746 | 97.80  |
| 81.09 | 214549 | 91.05  |
| 81.23 | 215352 | 91.86  |
| 81.37 | 216156 | 93.39  |
| 81.51 | 216959 | 88.44  |
| 81.89 | 219139 | 82.50  |
| 82.03 | 219943 | 74.58  |
| 82.17 | 220906 | 86.55  |
| 82.31 | 221882 | 87.45  |
| 82.45 | 222858 | 85.20  |
| 82.59 | 223834 | 93.03  |

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| 82.73 | 224810 | 107.07 |
| 82.87 | 225786 | 109.41 |
| 83.29 | 228715 | 103.47 |
| 83.43 | 229691 | 99.24  |
| 83.57 | 230667 | 100.77 |
| 83.71 | 231643 | 102.12 |
| 83.85 | 232619 | 103.74 |
| 83.99 | 233595 | 92.94  |
| 84.16 | 234780 | 95.10  |
| 84.32 | 235895 | 93.93  |
| 84.48 | 237011 | 99.96  |
| 84.64 | 238126 | 93.75  |
| 84.80 | 239242 | 90.15  |
| 84.96 | 240357 | 89.70  |
| 85.12 | 241473 | 83.49  |
| 85.50 | 244122 | 79.08  |
| 85.66 | 245237 | 92.31  |
| 85.82 | 246353 | 98.25  |
| 85.98 | 247468 | 100.32 |
| 86.14 | 248584 | 90.42  |
| 86.30 | 249699 | 103.56 |
| 86.46 | 250815 | 106.71 |
| 86.62 | 251930 | 109.32 |
| 87.00 | 280781 | 106.89 |
| 87.16 | 282461 | 100.50 |
| 87.32 | 284142 | 99.15  |
| 87.48 | 285822 | 91.68  |
| 87.64 | 287502 | 100.50 |
| 87.80 | 289183 | 95.10  |
| 87.96 | 290863 | 97.80  |
| 88.12 | 292543 | 106.98 |
| 88.50 | 296534 | 101.76 |
| 88.66 | 298215 | 100.86 |
| 88.82 | 299895 | 103.56 |
| 88.98 | 301458 | 80.61  |
| 89.08 | 302431 | 92.04  |
| 89.22 | 303792 | 90.87  |
| 89.36 | 305153 | 85.83  |
| 89.50 | 306514 | 94.92  |
| 89.64 | 307875 | 91.32  |
| 89.78 | 309236 | 87.72  |
| 89.92 | 310597 | 83.94  |
| 90.06 | 311958 | 79.53  |
| 90.20 | 313319 | 73.50  |
| 90.50 | 316236 | 92.49  |
| 90.64 | 317597 | 95.01  |
| 90.78 | 318958 | 87.18  |
| 90.92 | 320319 | 81.24  |

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| 91.06 | 321681 | 85.38  |
| 91.20 | 323042 | 81.78  |
| 91.34 | 324403 | 78.45  |
| 91.48 | 325764 | 81.24  |
| 91.62 | 327125 | 68.28  |
| 92.00 | 330819 | 73.86  |
| 92.14 | 332181 | 71.07  |
| 92.28 | 333542 | 67.29  |
| 92.42 | 334903 | 54.24  |
| 92.56 | 335865 | 64.41  |
| 92.70 | 336797 | 72.06  |
| 92.84 | 337729 | 73.05  |
| 92.98 | 338661 | 65.22  |
| 93.12 | 339593 | 68.73  |
| 93.27 | 340592 | 94.65  |
| 93.43 | 341657 | 92.67  |
| 93.59 | 342722 | 79.62  |
| 93.75 | 343788 | 91.14  |
| 93.91 | 344853 | 95.91  |
| 94.07 | 345918 | 88.89  |
| 94.23 | 346983 | 89.43  |
| 94.39 | 348048 | 90.06  |
| 94.77 | 350578 | 86.64  |
| 94.93 | 351643 | 105.54 |
| 95.09 | 352708 | 101.67 |
| 95.25 | 353773 | 97.08  |
| 95.41 | 354839 | 95.64  |
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| 95.89 | 358034 | 99.15  |
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| 96.43 | 361629 | 106.26 |
| 96.59 | 362694 | 103.38 |
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| 97.07 | 365890 | 103.56 |
| 97.23 | 366955 | 101.58 |
| 97.39 | 368020 | 97.53  |
| 97.77 | 370550 | 103.47 |
| 97.93 | 371615 | 101.04 |
| 98.09 | 372680 | 107.16 |
| 98.25 | 373745 | 103.38 |
| 98.41 | 374810 | 103.65 |
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| 99.43 | 381601 | 93.84  |

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| 100.52 | 388857 | 100.05 |
| 100.66 | 389789 | 99.06  |
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| 101.60 | 396047 | 100.23 |
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| 107.35 | 433436 | 94.6   |

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| 111.77 | 457644 | 97.3  |
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| 115.19 | 476375 | 93.8  |



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| 122.50 | 516410 | 112.4 |

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| 124.70 | 528459 | 113.7 |
| 124.89 | 529445 | 114.5 |
| 125.07 | 530486 | 112.1 |
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| 130.82 | 561977 | 91.2  |

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| 132.49 | 571124 | 81.7  |
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| 140.93 | 589672 | 105.4 |
| 141.08 | 589992 | 103.9 |
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| 145.29 | 598956 | 98.6  |
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| 147.30 | 603268 | 102.4 |
| 147.51 | 603695 | 102.2 |

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| 148.31 | 605423 | 99.3  |
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| 149.52 | 608006 | 86.1  |
| 149.72 | 608433 | 86.7  |
| 149.92 | 608860 | 88.7  |
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| 153.15 | 615753 | 77.1  |
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| 154.97 | 619638 | 102.8 |
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| 155.28 | 620300 | 104.5 |
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| 155.58 | 620940 | 105.0 |
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| 156.53 | 622967 | 113.8 |

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| 158.06 | 626233 | 101.4 |
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| 158.36 | 626873 | 102.8 |
| 158.52 | 627215 | 102.8 |
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| 158.82 | 627855 | 103.9 |
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| 160.95 | 632401 | 105.7 |
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| 161.26 | 633063 | 109.6 |
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| 161.87 | 634365 | 93.5  |
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| 164.00 | 638911 | 102.5 |       |
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| 165.60 | 642326 | 103.2 |       |
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| 166.53 | 644289 | 108.1 |       |
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| 168.37 | 648238 | 108.0 |       |
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| 168.84 | 649220 | 106.6 |       |
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| 169.30 | 650201 | 106.2 | 106.2 |
| 169.53 | 650692 | 107.7 |       |
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| 171.38 | 654641 | 105.4 |       |
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| 173.69 | 659571 | 102.7 |       |
| 173.92 | 660062 | 100.1 |       |
| 174.15 | 660574 | 97.3  |       |

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| 175.54 | 663519 | 107.6 |
| 175.77 | 664010 | 103.4 |
| 176.00 | 664501 | 98.0  |
| 176.23 | 665013 | 94.7  |
| 176.46 | 665504 | 96.5  |
| 176.69 | 665995 | 95.6  |
| 176.92 | 666486 | 97.2  |
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| 180.44 | 673999 | 104.7 |
| 180.59 | 674319 | 105.7 |
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| 180.90 | 674981 | 105.6 |
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| 181.20 | 675621 | 98.6  |
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| 181.81 | 676923 | 95.8  |
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| 182.88 | 679207 | 90.8  |



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| 183.34 | 680188 | 92.2  |
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| 183.79 | 681149 | 102.4 |
| 183.95 | 681490 | 101.0 |
| 184.10 | 681810 | 94.7  |
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| 184.56 | 682792 | 90.0  |
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| 185.47 | 684734 | 88.8  |
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| 186.23 | 686357 | 82.9  |
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| 187.91 | 694166 | 106.5 |
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| 190.20 | 709683 | 97.8  |

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| 191.11 | 715850 | 103.9 |
| 191.26 | 716866 | 104.1 |
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| 192.79 | 727233 | 106.0 |
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| 193.85 | 734416 | 105.2 |
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| 194.31 | 737533 | 102.4 |
| 194.46 | 738549 | 99.6  |
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| 197.51 | 759216 | 95.6  |

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| 204.22 | 807306 | 101.8 |
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| 210.31 | 853562 | 89.6  |
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| 211.84 | 865183 | 95.9  |
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| 217.32 | 906807 | 95.5  |
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| 219.00 | 919567 | 91.1  |
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| 224.64 | 965037 | 105.4 |
| 224.79 | 966464 | 105.7 |
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| 225.25 | 970842 | 101.0 |
| 225.40 | 972269 | 100.3 |
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| 226.16 | 979501 | 82.8  |
| 226.31 | 980929 | 84.8  |
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| 226.77 | 985306 | 92.7  |

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| 227.84 | 995488  | 85.2  |
| 227.99 | 996916  | 91.6  |
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| 232.87 | 1043354 | 104.5 |
| 233.02 | 1044781 | 105.6 |
| 233.17 | 1046208 | 103.0 |
| 233.32 | 1047636 | 98.1  |
| 233.48 | 1049158 | 95.0  |
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| 234.09 | 1054963 | 95.7  |

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| 234.39 | 1057818 | 85.7  |
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| 235.31 | 1066573 | 61.1  |
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| 240.03 | 1109106 | 86.0  |
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| 248.11 | 1181783 | 102.2 |
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| 249.02 | 1189968 | 95.9 |
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| 249.48 | 1194106 | 97.8 |
| 249.63 | 1195455 | 99.0 |
| 249.78 | 1196804 | 96.7 |
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| 250.24 | 1200942 | 92.1 |
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| 254.05 | 1235212 | 58.6 |
| 254.20 | 1236561 | 54.4 |
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| 254.51 | 1239313 | 56.0 |
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| 255.27 | 1245966 | 81.2 |
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| 255.73 | 1249993 | 87.5 |
| 255.88 | 1251306 | 91.9 |
| 256.03 | 1252620 | 96.3 |

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| 256.34 | 1255333 | 95.8  |
| 256.49 | 1256646 | 95.2  |
| 256.64 | 1257960 | 96.2  |
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| 258.01 | 1269953 | 88.0  |
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| 262.74 | 1326000 | 87.7  |
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| 263.04 | 1330426 | 97.7  |
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| 263.35 | 1335000 | 92.3  |

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| 263.65 | 1339426 | 92.3  |
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| 264.11 | 1346213 | 94.9  |
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| 264.57 | 1353000 | 98.7  |
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| 269.14 | 1411383 | 89.0  |
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| 269.90 | 1418075 | 78.2  |
| 270.05 | 1419395 | 80.4  |
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| 270.66 | 1424766 | 92.9  |

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| 270.97 | 1427496 | 94.8  |
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| 275.08 | 1463683 | 101.8 |
| 275.23 | 1465004 | 101.2 |
| 275.39 | 1466412 | 102.5 |
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| 275.84 | 1470375 | 101.6 |
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| 276.15 | 1473104 | 101.3 |
| 276.30 | 1474425 | 99.7  |
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| 282.55 | 1529454 | 105.7 |
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| 283.01 | 1533504 | 101.2 |
| 283.16 | 1534825 | 100.0 |
| 283.31 | 1536146 | 99.4  |
| 283.46 | 1537466 | 100.2 |
| 283.62 | 1538875 | 99.7  |
| 283.77 | 1540196 | 99.1  |
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| 284.07 | 1542837 | 93.3  |
| 284.23 | 1544246 | 91.2  |
| 284.38 | 1545567 | 90.9  |
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| 284.99 | 1550938 | 95.6  |
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| 285.29 | 1553579 | 99.0  |

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| 286.66 | 1567317 | 72.8 |
| 286.82 | 1569619 | 75.7 |
| 286.97 | 1571778 | 75.9 |
| 287.12 | 1573936 | 75.6 |
| 287.27 | 1576095 | 75.0 |
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| 289.41 | 1606889 | 60.0 |
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| 290.78 | 1626603 | 87.6 |
| 290.93 | 1628761 | 88.9 |
| 291.08 | 1630920 | 87.3 |
| 291.24 | 1633222 | 84.9 |
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| 292.00 | 1643312 | 68.6 |
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| 292.30 | 1645936 | 71.2 |
| 292.46 | 1647335 | 70.1 |
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| 293.52 | 1656606 | 84.5  |
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| 294.59 | 1665965 | 94.0  |
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| 297.03 | 1687306 | 83.3  |
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| 299.31 | 1708908 | 79.8  |
| 299.47 | 1710750 | 77.8  |
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| 299.92 | 1715930 | 65.5  |



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| 301.29 | 1731703 | 72.6  |
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| 301.60 | 1735272 | 73.8  |
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| 305.26 | 1777408 | 96.2  |
| 305.41 | 1779135 | 96.9  |
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| 305.71 | 1782589 | 96.1  |
| 305.87 | 1784431 | 101.4 |
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| 306.17 | 1787885 | 106.2 |
| 306.32 | 1789760 | 102.4 |
| 306.48 | 1791771 | 99.4  |
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| 306.93 | 1797428 | 80.1  |
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| 307.24 | 1801325 | 81.6  |

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| 311.05 | 1849220 | 89.6  |
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| 312.72 | 1870213 | 93.1  |
| 312.88 | 1872224 | 88.8  |
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| 313.79 | 1883664 | 73.3  |
| 313.94 | 1885549 | 72.0  |
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| 314.55 | 1893217 | 69.8  |

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| 314.86 | 1897114 | 64.3  |
| 315.01 | 1899000 | 62.4  |
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| 315.32 | 1901990 | 67.5  |
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| 315.62 | 1904883 | 87.8  |
| 315.77 | 1906330 | 99.6  |
| 315.93 | 1907873 | 103.9 |
| 316.08 | 1909320 | 101.8 |
| 316.23 | 1910766 | 97.6  |
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| 319.89 | 1946066 | 95.1  |
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| 321.41 | 1960726 | 74.8  |
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| 322.33 | 1969599 | 70.7 |
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| 323.24 | 1978376 | 63.0 |
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| 323.85 | 1984259 | 70.4 |
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| 328.73 | 2031325 | 73.0 |
| 328.88 | 2032772 | 74.1 |
| 329.03 | 2034218 | 74.7 |
| 329.18 | 2035665 | 75.6 |

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| 329.64 | 2040102 | 74.5 |
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| 330.25 | 2045985 | 81.7 |
| 330.40 | 2047431 | 83.2 |
| 330.56 | 2048975 | 84.0 |
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| 331.01 | 2053315 | 72.7 |
| 331.17 | 2054858 | 73.8 |
| 331.32 | 2056305 | 74.8 |
| 331.47 | 2057751 | 76.6 |
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| 333.60 | 2078294 | 73.0 |
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| 334.06 | 2082731 | 77.3 |
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| 336.50 | 2106264 | 65.8 |

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| 336.96 | 2110701 | 62.7 |
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| 337.26 | 2113594 | 62.1 |
| 337.41 | 2115041 | 63.8 |
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| 337.72 | 2118030 | 59.3 |
| 337.87 | 2119477 | 56.9 |
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| 338.18 | 2122467 | 61.1 |
| 338.33 | 2123914 | 60.1 |
| 338.48 | 2125360 | 60.3 |
| 338.63 | 2126807 | 61.8 |
| 338.79 | 2128350 | 64.5 |
| 338.94 | 2129797 | 65.6 |
| 339.09 | 2131244 | 66.8 |
| 339.24 | 2132690 | 71.1 |
| 339.39 | 2134137 | 75.5 |
| 339.55 | 2135680 | 78.7 |
| 339.70 | 2137127 | 79.4 |
| 339.85 | 2138574 | 81.5 |
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| 340.16 | 2141563 | 83.9 |
| 340.31 | 2143010 | 86.4 |
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| 340.61 | 2145904 | 90.5 |
| 340.77 | 2148240 | 86.7 |
| 340.92 | 2150481 | 83.4 |
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| 341.99 | 2166463 | 81.5 |
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| 343.20 | 2184536 | 83.8 |
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| 343.66 | 2191406 | 87.6 |
| 343.81 | 2193647 | 86.4 |

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| 348.39 | 2249584 | 76.8 |
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| 349.30 | 2258199 | 88.8 |
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| 351.13 | 2275523 | 74.7 |

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| 352.35 | 2287072 | 91.0 |
| 352.50 | 2288492 | 91.4 |
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| 352.81 | 2291427 | 89.7 |
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| 356.46 | 2325980 | 80.2 |
| 356.62 | 2327495 | 74.2 |
| 356.77 | 2328915 | 70.5 |
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| 358.44 | 2344725 | 64.4 |



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| 359.82 | 2357789 | 82.6 |
| 359.97 | 2359209 | 82.7 |
| 360.12 | 2360629 | 81.3 |
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| 362.56 | 2383727 | 75.3 |
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| 363.47 | 2392342 | 65.0 |
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| 363.93 | 2396697 | 50.1 |
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| 364.39 | 2401051 | 57.8 |
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| 364.69 | 2403891 | 58.4 |
| 364.85 | 2405406 | 56.0 |
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| 365.15 | 2408246 | 56.0 |
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| 366.83 | 2424150 | 57.0 |
| 366.98 | 2425570 | 60.0 |
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| 367.28 | 2428410 | 72.1 |
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| 368.66 | 2441474 | 86.4 |
| 368.81 | 2442894 | 79.5 |
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| 372.01 | 2473188 | 58.5 |
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| 373.08 | 2483317 | 92.2 |

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| 379.48 | 2548501 | 81.6  |
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| 379.78 | 2552162 | 78.2  |
| 379.93 | 2553992 | 74.6  |
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| 380.39 | 2559606 | 75.4  |

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| 381.46 | 2572663 | 75.0 |
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| 381.76 | 2576324 | 73.8 |
| 381.91 | 2578154 | 70.7 |
| 382.07 | 2580106 | 69.9 |
| 382.22 | 2581937 | 73.2 |
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| 384.35 | 2607929 | 82.5 |
| 384.51 | 2609882 | 83.1 |
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| 385.72 | 2624647 | 77.1 |
| 385.88 | 2626600 | 80.9 |
| 386.03 | 2628430 | 87.4 |
| 386.18 | 2630260 | 91.4 |
| 386.33 | 2632091 | 90.4 |
| 386.49 | 2634043 | 87.7 |
| 386.64 | 2635874 | 86.3 |
| 386.79 | 2637704 | 87.8 |
| 386.94 | 2639535 | 92.6 |
| 387.10 | 2641487 | 95.6 |
| 387.25 | 2643317 | 95.3 |
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| 387.55 | 2646978 | 88.0 |
| 387.71 | 2648931 | 86.2 |

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| 388.01 | 2652592 | 94.5  |
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| 388.32 | 2656375 | 93.7  |
| 388.47 | 2658205 | 92.6  |
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| 389.08 | 2665649 | 88.3  |
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| 389.38 | 2669310 | 68.5  |
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| 389.69 | 2673093 | 63.0  |
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| 393.04 | 2713972 | 101.2 |
| 393.19 | 2715803 | 98.2  |
| 393.34 | 2717633 | 93.4  |
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| 395.02 | 2738134 | 82.4  |

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| 395.33 | 2741917 | 85.3 |
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| 395.78 | 2747408 | 86.8 |
| 395.94 | 2749361 | 84.8 |
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| 396.24 | 2753022 | 86.7 |
| 396.39 | 2754852 | 88.2 |
| 396.54 | 2756683 | 88.9 |
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| 396.85 | 2760465 | 86.0 |
| 397.00 | 2762296 | 85.5 |
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| 397.76 | 2771570 | 89.5 |
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| 398.22 | 2777183 | 93.0 |
| 398.37 | 2779014 | 96.4 |
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| 398.68 | 2782797 | 91.8 |
| 398.83 | 2784627 | 89.5 |
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| 399.14 | 2788410 | 85.4 |
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| 399.59 | 2793901 | 91.6 |
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| 400.35 | 2803176 | 89.6 |
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| 401.12 | 2812572 | 59.8 |
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| 401.42 | 2816233 | 60.0 |
| 401.57 | 2818063 | 64.0 |
| 401.73 | 2820016 | 65.2 |
| 401.88 | 2821846 | 69.3 |
| 402.03 | 2823676 | 75.9 |
| 402.18 | 2825507 | 80.1 |
| 402.34 | 2827459 | 80.7 |

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| 402.79 | 2832951 | 73.6 |
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| 404.32 | 2851621 | 87.1 |
| 404.47 | 2853452 | 89.8 |
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| 404.77 | 2857112 | 91.5 |
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| 409.50 | 2912279 | 86.1 |
| 409.65 | 2914000 | 82.6 |

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| 410.87 | 2928000 | 95.0 |
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| 411.63 | 2936721 | 73.8 |
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| 412.24 | 2943721 | 71.4 |
| 412.39 | 2945443 | 73.8 |
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| 413.46 | 2957721 | 79.6 |
| 413.61 | 2959443 | 80.2 |
| 413.77 | 2961279 | 77.6 |
| 413.92 | 2963000 | 75.1 |
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| 414.68 | 2971721 | 69.5 |
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| 415.75 | 2984000 | 65.2 |
| 415.90 | 2985721 | 58.3 |
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| 416.20 | 2989164 | 50.1 |
| 416.36 | 2991000 | 48.6 |
| 416.51 | 2992303 | 48.7 |
| 416.66 | 2993606 | 50.4 |
| 416.81 | 2994909 | 51.5 |
| 416.97 | 2996299 | 55.0 |



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| 417.42 | 3000209 | 71.3 |
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| 417.73 | 3002902 | 65.8 |
| 417.88 | 3004205 | 66.9 |
| 418.03 | 3005508 | 71.4 |
| 418.19 | 3006898 | 79.9 |
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| 418.80 | 3012198 | 90.9 |
| 418.95 | 3013501 | 90.8 |
| 419.10 | 3014804 | 88.3 |
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| 419.71 | 3020103 | 68.5 |
| 419.86 | 3021406 | 72.9 |
| 420.01 | 3022709 | 76.8 |
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| 420.32 | 3025403 | 76.0 |
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| 445.31 | 3243056 | 94.0 |
| 445.47 | 3244452 | 92.6 |
| 445.62 | 3245762 | 90.5 |
| 445.77 | 3247071 | 90.5 |
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| 501.47 | 3804079 | 99.99  |
| 501.63 | 3805514 | 93.22  |
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| 504.27 | 3829190 | 89.71  |
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| 504.59 | 3832060 | 92.86  |
| 504.75 | 3833495 | 84.76  |
| 504.91 | 3834930 | 86.69  |
| 505.07 | 3836365 | 86.69  |
| 505.23 | 3837800 | 88.63  |
| 505.61 | 3841208 | 80.16  |
| 505.77 | 3842643 | 95.15  |
| 505.93 | 3844078 | 90.32  |
| 506.09 | 3845513 | 90.68  |
| 506.25 | 3846948 | 87.90  |
| 506.41 | 3848383 | 89.23  |
| 506.57 | 3849817 | 91.04  |
| 506.73 | 3851252 | 72.79  |
| 507.11 | 3854660 | 78.71  |
| 507.27 | 3856095 | 78.35  |
| 507.43 | 3857530 | 75.81  |
| 507.59 | 3858965 | 84.03  |
| 507.75 | 3860400 | 82.70  |
| 507.91 | 3861835 | 78.35  |
| 508.07 | 3863270 | 74.36  |
| 508.23 | 3864705 | 81.86  |
| 508.61 | 3868113 | 85.12  |
| 508.77 | 3869548 | 85.72  |
| 508.93 | 3870983 | 82.46  |
| 509.09 | 3872417 | 81.98  |
| 509.25 | 3873852 | 85.60  |
| 509.41 | 3875287 | 80.77  |
| 509.57 | 3876722 | 78.23  |
| 509.73 | 3878157 | 81.37  |
| 510.11 | 3881565 | 77.14  |
| 510.27 | 3883000 | 90.68  |
| 510.43 | 3884429 | 79.68  |
| 510.59 | 3885859 | 78.11  |
| 510.75 | 3887288 | 80.77  |
| 510.91 | 3888717 | 81.25  |
| 511.07 | 3890146 | 76.54  |
| 511.23 | 3891576 | 73.03  |

|        |         |       |
|--------|---------|-------|
| 511.61 | 3894970 | 70.73 |
| 511.77 | 3896399 | 68.07 |
| 511.93 | 3897829 | 72.06 |
| 512.09 | 3899258 | 69.89 |
| 512.25 | 3900687 | 78.35 |
| 512.41 | 3902116 | 70.37 |
| 512.57 | 3903546 | 74.48 |
| 512.73 | 3904975 | 74.12 |



Carter & Gammon, Science 2004, Table S-3

Oxygen and carbon isotope time series from ODP Site 1119 (Leg 181), Southwest Pacific

| <b>rmcd</b> | <b>Age model</b> | <b>13C G</b> | <b>18O G</b> |
|-------------|------------------|--------------|--------------|
| 0.05        | 1022.73          | 0.56         | 1.41         |
| 0.2         | 4090.91          | -0.07        | 1.35         |
| 0.32        | 6340.91          | -0.21        | 2.14         |
| 0.42        | 8386.36          | -0.13        | 1.69         |
| 0.6         | 12238.60         | -0.55        | 2.72         |
| 0.9         | 12803.45         | -0.14        | 3.57         |
| 1.06        | 13104.70         | -0.53        | 3.20         |
| 1.34        | 13631.90         | -0.66        | 2.98         |
| 1.56        | 14046.12         | -0.81        | 1.79         |
| 1.84        | 14573.32         | -0.04        | 1.91         |
| 2.34        | 15287.10         | -1.08        | 3.13         |
| 2.48        | 15378.18         | -1.57        | 2.48         |
| 2.84        | 15612.36         | -0.84        | 2.47         |
| 3.34        | 15937.62         | -0.23        | 2.16         |
| 3.84        | 16262.88         | -0.82        | 3.05         |
| 3.91        | 16308.41         | -0.73        | 3.14         |
| 4.42        | 16736.46         | -0.50        | 3.19         |
| 5.04        | 17301.74         | -0.03        | 2.66         |
| 5.54        | 17598.45         | -1.17        | 2.42         |
| 6.04        | 17895.16         | -0.73        | 3.10         |
| 6.31        | 18055.38         | -0.52        | 3.24         |
| 6.6         | 18241.49         | -1.04        | 3.18         |
| 7.08        | 18610.40         | -1.22        | 2.85         |
| 7.54        | 18963.95         | -3.37        | 3.75         |
| 8.04        | 19348.24         | -1.24        | 2.84         |
| 8.44        | 19655.67         | 0.12         | 3.28         |
| 8.74        | 19886.24         | -1.11        | 2.92         |
| 9.14        | 20193.67         | -1.30        | 3.08         |
| 9.54        | 20501.11         | -1.12        | 2.86         |
| 10.05       | 20893.08         | -1.86        | 3.03         |
| 11.04       | 21649.27         | -0.81        | 3.29         |
| 11.56       | 22033.64         | -1.61        | 2.48         |
| 12.55       | 22765.43         | -0.33        | 3.03         |
| 12.74       | 22905.88         | -0.92        | 2.62         |
| 13.6        | 23541.57         | -0.74        | 2.71         |
| 14.59       | 25155.19         | -0.38        | 2.69         |
| 15.54       | 28746.14         | -1.13        | 2.40         |
| 16.54       | 32526.09         | -0.23        | 2.68         |
| 17.29       | 35361.05         | -0.45        | 2.91         |
| 18.04       | 38158.22         | -0.65        | 2.71         |
| 18.67       | 40294.58         | -0.09        | 2.68         |
| 18.82       | 40746.73         | -0.32        | 2.74         |
| 19.51       | 42826.61         | -0.49        | 3.00         |
| 20.29       | 45177.78         | -1.18        | 2.58         |
| 21.04       | 47438.52         | -1.04        | 2.53         |

|       |           |       |      |
|-------|-----------|-------|------|
| 21.54 | 48945.68  | -0.92 | 2.58 |
| 21.94 | 50151.41  | -0.88 | 2.48 |
| 22.51 | 51869.57  | -0.59 | 2.56 |
| 23.04 | 53467.16  | -0.22 | 3.01 |
| 23.51 | 54883.90  | -1.00 | 2.92 |
| 23.99 | 56330.77  | 0.03  | 2.68 |
| 24.04 | 56481.49  | -0.29 | 2.71 |
| 24.54 | 57988.65  | -0.59 | 2.92 |
| 25.04 | 59495.81  | -0.60 | 2.82 |
| 25.17 | 59887.67  | -0.72 | 3.04 |
| 26.04 | 62510.13  | -0.18 | 2.67 |
| 26.54 | 64017.29  | -1.13 | 2.18 |
| 27.01 | 65434.02  | -0.58 | 3.24 |
| 27.54 | 67031.61  | -0.21 | 3.08 |
| 27.84 | 67935.90  | -0.17 | 3.08 |
| 28.04 | 68538.77  | -0.48 | 3.01 |
| 28.34 | 69443.06  | -0.53 | 2.86 |
| 28.56 | 70106.22  | -0.46 | 2.73 |
| 28.84 | 70950.23  | 0.08  | 2.88 |
| 29.34 | 72457.39  | -0.66 | 2.94 |
| 29.79 | 73813.83  | -0.43 | 2.94 |
| 29.84 | 73964.55  | -0.54 | 2.79 |
| 30.34 | 75471.71  | -0.33 | 3.15 |
| 30.84 | 76978.87  | -0.15 | 3.29 |
| 31.34 | 78486.03  | -0.82 | 2.82 |
| 31.84 | 79993.19  | -0.06 | 2.87 |
| 32.34 | 81500.35  | -0.68 | 2.87 |
| 32.84 | 83007.51  | -0.05 | 3.00 |
| 34.61 | 88342.86  | -0.50 | 2.96 |
| 35.13 | 89910.30  | -0.95 | 2.80 |
| 35.66 | 91507.89  | -1.06 | 2.29 |
| 37.16 | 96029.37  | -0.56 | 3.02 |
| 38.16 | 99043.69  | -0.36 | 2.70 |
| 39.14 | 101997.73 | -0.05 | 2.97 |
| 40.14 | 105012.05 | 0.22  | 2.95 |
| 41.11 | 107935.94 | 0.07  | 2.88 |
| 42.12 | 110980.41 | -0.33 | 2.79 |
| 43    | 113831.25 | -0.07 | 2.67 |
| 43.42 | 115533.33 | -0.13 | 2.69 |
| 43.65 | 116443.75 | 0.01  | 2.97 |
| 44.06 | 118066.67 | -0.57 | 2.92 |
| 44.43 | 119531.25 | 0.15  | 2.83 |
| 44.73 | 120718.75 | -0.14 | 2.47 |
| 44.84 | 121154.17 | -0.39 | 2.38 |
| 44.92 | 121470.83 | 0.33  | 2.43 |
| 45    | 121787.50 | -0.22 | 2.70 |
| 45.27 | 122856.25 | 0.42  | 2.61 |
| 45.6  | 124162.50 | -0.08 | 2.43 |
| 45.99 | 125706.25 | 0.53  | 2.35 |
| 46.15 | 126339.58 | -0.10 | 2.24 |
| 46.34 | 127091.67 | -0.58 | 1.97 |
| 46.49 | 127685.42 | 0.17  | 2.34 |
| 46.64 | 128279.17 | 0.12  | 2.26 |
| 46.8  | 128912.50 | 0.34  | 2.62 |
| 47    | 129704.17 | -0.30 | 2.45 |



|        |           |       |      |
|--------|-----------|-------|------|
| 47.2   | 130495.83 | -0.12 | 2.09 |
| 47.4   | 131287.50 | -0.17 | 2.19 |
| 47.6   | 135050.16 | -0.50 | 1.92 |
| 47.8   | 136053.29 | -0.23 | 2.05 |
| 48     | 137056.43 | 0.05  | 2.28 |
| 48.64  | 140266.46 | -1.05 | 2.58 |
| 48.79  | 141018.81 | -1.31 | 2.64 |
| 49.03  | 142222.57 | -0.90 | 2.86 |
| 49.22  | 143175.55 | -1.43 | 2.74 |
| 49.41  | 144128.53 | -1.19 | 2.87 |
| 49.61  | 145131.66 | -1.09 | 2.71 |
| 49.81  | 146134.80 | -1.02 | 2.75 |
| 50.06  | 147388.71 | -1.39 | 2.41 |
| 50.31  | 148642.63 | -1.08 | 3.08 |
| 50.56  | 149896.55 | -1.09 | 2.77 |
| 50.96  | 151262.38 | -1.83 | 3.43 |
| 51.36  | 151845.45 | -1.02 | 2.21 |
| 51.86  | 152574.28 | -1.95 | 2.90 |
| 53.36  | 154760.78 | -1.51 | 3.20 |
| 54.86  | 156947.28 | -1.46 | 2.68 |
| 56.71  | 159643.97 | -0.85 | 2.99 |
| 62.58  | 168200.48 | -1.00 | 2.99 |
| 64.6   | 171144.97 | -0.92 | 2.80 |
| 65.54  | 172515.18 | -0.69 | 2.81 |
| 66.26  | 173564.70 | -0.43 | 2.75 |
| 71     | 180474.04 | -1.05 | 3.01 |
| 72.35  | 182427.32 | -0.51 | 3.05 |
| 72.64  | 182850.04 | -0.65 | 2.96 |
| 73.89  | 184672.12 | -0.65 | 3.15 |
| 75.39  | 186858.63 | -0.83 | 2.87 |
| 78.37  | 198954.90 | -0.49 | 2.91 |
| 81.91  | 219254.10 | -0.02 | 2.40 |
| 82.43  | 222718.95 | -0.20 | 1.99 |
| 82.95  | 226344.23 | -1.16 | 2.63 |
| 86.64  | 277000.00 | -0.88 | 2.91 |
| 90.86  | 319736.11 | -0.30 | 2.55 |
| 92.25  | 333250.00 | -0.04 | 2.55 |
| 94.01  | 345518.41 | -0.72 | 2.17 |
| 95.31  | 354172.80 | -0.22 | 2.64 |
| 97.21  | 366821.53 | -0.90 | 2.74 |
| 100.12 | 386194.05 | -0.18 | 2.94 |
| 106.07 | 425804.53 | 0.14  | 2.41 |
| 107.1  | 432012.26 | -0.45 | 3.27 |
| 109.39 | 444554.19 | -0.79 | 3.16 |
| 114.48 | 472431.25 | -0.80 | 2.32 |
| 115.53 | 478181.92 | -0.14 | 2.84 |
| 115.82 | 479770.20 | -0.65 | 2.68 |
| 122.73 | 517615.09 | -0.03 | 2.73 |
| 123.22 | 520298.74 | 0.16  | 2.65 |
| 123.77 | 523310.99 | -0.54 | 2.09 |
| 130.13 | 558143.62 | -0.13 | 2.74 |
| 130.94 | 562579.85 | 0.37  | 2.73 |
| 132.91 | 572533.58 | 0.45  | 2.16 |
| 133.77 | 574369.09 | -0.78 | 2.23 |
| 140.55 | 588839.74 | -0.45 | 2.67 |

|        |            |       |      |
|--------|------------|-------|------|
| 144.3  | 596843.42  | -0.26 | 2.67 |
| 152.12 | 613533.76  | -0.30 | 2.48 |
| 153.92 | 617375.53  | -0.20 | 2.06 |
| 154.74 | 619125.67  | -1.07 | 2.34 |
| 162.26 | 635197.06  | -1.60 | 2.59 |
| 165.43 | 641962.83  | -1.34 | 1.81 |
| 165.5  | 642112.24  | -1.07 | 2.29 |
| 166.51 | 644267.89  | -1.62 | 2.34 |
| 172.96 | 658034.22  | -1.29 | 2.19 |
| 186.91 | 687807.91  | -0.78 | 1.88 |
| 187.61 | 692133.38  | -0.40 | 2.28 |
| 188.47 | 697960.77  | -0.44 | 2.02 |
| 193.34 | 730960.06  | -1.02 | 2.58 |
| 200.73 | 781034.95  | -0.67 | 2.13 |
| 201.26 | 784822.92  | -0.41 | 2.02 |
| 201.65 | 787785.17  | -0.48 | 1.80 |
| 202.55 | 794621.12  | -0.28 | 1.69 |
| 203.99 | 805558.65  | -1.18 | 1.83 |
| 206.71 | 826218.43  | -0.86 | 2.61 |
| 214.48 | 885235.51  | -1.37 | 1.92 |
| 221.67 | 939847.19  | -0.41 | 1.82 |
| 223.17 | 951240.45  | -0.56 | 1.78 |
| 224.38 | 962562.76  | -0.35 | 1.94 |
| 224.79 | 966464.32  | -0.99 | 2.62 |
| 232.54 | 1040213.29 | -0.18 | 2.68 |
| 233.05 | 1045066.45 | -0.27 | 2.68 |
| 233.64 | 1050680.89 | -0.27 | 2.63 |
| 251.56 | 1212814.81 | -0.85 | 2.30 |
| 253.45 | 1229814.81 | -0.02 | 2.04 |
| 254.05 | 1235211.64 | -0.61 | 2.67 |
| 261.16 | 1302688.52 | -0.21 | 2.49 |
| 263.36 | 1335147.54 | -1.17 | 2.05 |
| 268.2  | 1403106.72 | -1.00 | 2.32 |
| 271.14 | 1428992.53 | -1.10 | 2.66 |
| 280.04 | 1507354.32 | -0.60 | 2.34 |
| 280.67 | 1512901.28 | -0.22 | 1.84 |
| 282.61 | 1529982.39 | 0.12  | 2.28 |
| 285.11 | 1551994.13 | -0.20 | 1.63 |
| 285.61 | 1556396.48 | -0.54 | 2.03 |
| 286.01 | 1559918.36 | -0.38 | 2.10 |
| 290.27 | 1619264.12 | -0.80 | 2.38 |
| 297.93 | 1695177.84 | 0.17  | 2.30 |
| 298.33 | 1698676.38 | 0.17  | 2.33 |
| 298.76 | 1702575.64 | -0.22 | 1.94 |
| 299.2  | 1707641.23 | 0.64  | 2.62 |
| 299.59 | 1712131.19 | 0.07  | 2.02 |
| 317.7  | 1924944.16 | 0.21  | 2.53 |
| 323.08 | 1976832.49 | 0.33  | 1.89 |
| 330.71 | 2050421.32 | -0.09 | 2.50 |
| 336.53 | 2106553.30 | -0.23 | 1.91 |
| 341.89 | 2164969.03 | -0.70 | 2.26 |
| 343.36 | 2186925.32 | -1.23 | 2.31 |
| 344.7  | 2206939.89 | -1.05 | 2.14 |
| 347.76 | 2243620.07 | -0.75 | 2.36 |
| 349.28 | 2258009.47 | -0.94 | 1.91 |

|        |            |       |      |
|--------|------------|-------|------|
| 350.86 | 2272966.87 | -0.57 | 2.09 |
| 352.05 | 2284232.25 | -0.49 | 2.34 |
| 352.6  | 2289438.94 | -0.58 | 1.98 |
| 353.32 | 2296254.97 | -0.20 | 1.98 |
| 353.99 | 2302597.66 | -0.56 | 2.03 |
| 354.78 | 2310076.36 | -0.38 | 1.76 |
| 355.29 | 2314904.39 | -0.35 | 1.84 |
| 355.51 | 2316987.06 | -0.72 | 1.65 |
| 355.8  | 2319732.41 | -0.32 | 1.83 |
| 356.3  | 2324465.76 | -0.32 | 1.56 |
| 357.1  | 2332039.13 | -0.21 | 1.90 |
| 369.94 | 2453591.67 | 0.37  | 1.60 |
| 370.8  | 2461733.04 | -0.02 | 1.68 |
| 371.53 | 2468643.74 | -0.59 | 1.84 |
| 372.22 | 2475175.77 | -0.36 | 2.36 |
| 390.83 | 2687003.90 | -0.32 | 2.05 |
| 391.28 | 2692495.21 | -0.22 | 1.90 |
| 391.71 | 2697742.46 | -0.18 | 2.05 |
| 410.24 | 2920770.49 | -0.49 | 1.57 |
| 411.52 | 2935459.02 | -0.33 | 1.49 |
| 413.27 | 2955540.98 | 0.00  | 1.72 |
| 414    | 2963918.03 | -0.08 | 1.88 |
| 419    | 3013935.00 | -0.23 | 1.74 |
| 431.68 | 3124092.50 | -0.95 | 1.62 |
| 435.47 | 3157150.79 | -1.78 | 1.68 |
| 436.33 | 3164658.73 | -1.13 | 1.87 |
| 447.34 | 3260777.78 | -1.20 | 1.42 |
| 451.89 | 3300866.67 | -1.33 | 1.75 |
| 461.33 | 3391745.81 | -0.43 | 1.89 |
| 462.26 | 3404864.53 | -0.92 | 1.80 |
| 465.36 | 3448593.58 | -0.79 | 1.78 |
| 471.05 | 3528857.54 | -0.75 | 1.82 |
| 471.83 | 3539860.34 | -0.37 | 2.14 |
| 479.05 | 3619554.69 | -0.67 | 1.89 |
| 479.71 | 3625226.56 | -0.32 | 1.74 |
| 490.12 | 3709562.81 | -0.44 | 1.59 |
| 490.94 | 3716126.85 | -0.62 | 1.58 |
| 499.39 | 3785425.40 | -0.97 | 1.51 |
| 500.28 | 3793407.14 | -0.57 | 1.44 |
| 504.09 | 3827576.19 | -0.58 | 1.48 |
| 504.69 | 3832957.14 | -0.43 | 1.35 |
| 512.15 | 3899793.90 | -0.22 | 1.57 |

