



*Supplement of*

## Astronomical calibration of the geological timescale: closing the middle Eocene gap

T. Westerhold et al.

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1      **Phase relationship between bulk carbon isotopes and eccentricity**

2      For the astronomical tuning of the bulk  $\delta^{13}\text{C}$  data from 702B and 1263 lighter (more  
3      negative)  $\delta^{13}\text{C}$  peaks are correlated to La2011 eccentricity maxima. The rationale for picking  
4      this phase relationship is based on several high profile studies, including modeling of carbon  
5      cycle and Earth's orbit interaction (Billups et al., 2004; Cramer et al., 2003; Pälike et al.,  
6      2006b; Zachos et al., 2010; Holbourn et al., 2013; Holbourn et al., 2007; Kirtland Turner et  
7      al., 2014; Littler et al., 2014; Lourens et al., 2005; Lunt et al., 2011; Ma et al., 2011; Pälike et  
8      al., 2006a; Proistosescu et al., 2012; Russon et al., 2010; Sexton et al., 2011; Tian et al., 2008;  
9      Westerhold et al., 2011; Zachos et al., 2001a) dealing with the phase relation of  $\delta^{13}\text{C}$  and the  
10     405-kyr orbital eccentricity cycle. All these studies show that the Pliocene to Cenozoic  $\delta^{13}\text{C}$   
11     values in benthic and bulk deep sea carbonate reveal augmented 405-kyr cycles with minima  
12     in  $\delta^{13}\text{C}$  (lighter values) and %CaCO<sub>3</sub> (i.e. peaks in Fe) corresponding to eccentricity maxima.  
13     This phase relation is also observed in the records from ODP Site 1258 (Kirtland Turner et  
14     al., 2014) and 1260 (Edgar et al., 2007) as shown herein. The  $\delta^{13}\text{C}$  cycles are consistent with a  
15     climate-carbon cycle feedback, as indicated by a relative lag in  $\delta^{13}\text{C}$  relative to  $\delta^{18}\text{O}$ . The  
16     strong 405-kyr cycle in benthic and bulk  $\delta^{13}\text{C}$  data as well as simulated  $\delta^{13}\text{C}$  results from a  
17     resonance associated with the long residence time of carbon in the ocean (Broecker and Peng,  
18     1982; Ma et al., 2011; Pälike et al., 2006a). The phase lag of  $\delta^{13}\text{C}$  to eccentricity has been  
19     estimated to be in the order of 50 and 10 kyr for long and short eccentricity (Herbert, 1997;  
20     Holbourn et al., 2007; Westerhold et al., 2011; Zachos et al., 2001b; Zachos et al., 2010) in  
21     the Neogene and Paleogene. This leads to the assumption that the uncertainty in astronomical  
22     tuning presented here is in the order of less than 50 kyr. In fact the main uncertainty derives  
23     from the error in the 405-kyr eccentricity cycle in the order of 50 kyr at 56 Ma and 60 kyr at  
24     66 Ma.

25

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 125  
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 128 **Figure Legends**
- 129  
 130 **Figure S1.** ODP Site 1263 magnetic susceptibility data (Shipboard Scientific Party, 2004) of  
 131 Holes A (red), B (blue) and C (green) on the new revised composite depth. Data and core  
 132 images are plotted for each hole separately. Red vertical lines are the tops and yellow  
 133 vertical lines are the bases of splice sections. All magnetic susceptibility data are the  
 134 instrument units raw in  $10^{-5}$ .  
 135  
 136 **Figure S2.** MTM power spectra of ODP Hole 702B bulk  $\delta^{13}\text{C}$  data from various intervals in  
 137 the depth and age (magnetostratigraphy ages CK95) domain.

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139 **Figure S3.** MTM power spectra of ODP Site 1263 bulk  $\delta^{13}\text{C}$  data from various intervals in  
140 the depth and age (magnetostratigraphy ages CK95) domain.

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142 **Figure S4.** Comparison of sedimentation rates for Site 1263 and Hole 702B records using the  
143 tuned, the magnetostratigraphic, the 17 405-kyr cyclo- and 18 405-kyr cyclostratigraphic  
144 age model. Bulk  $\delta^{13}\text{C}$  data (gray) and the magnetostratigraphy are also shown.

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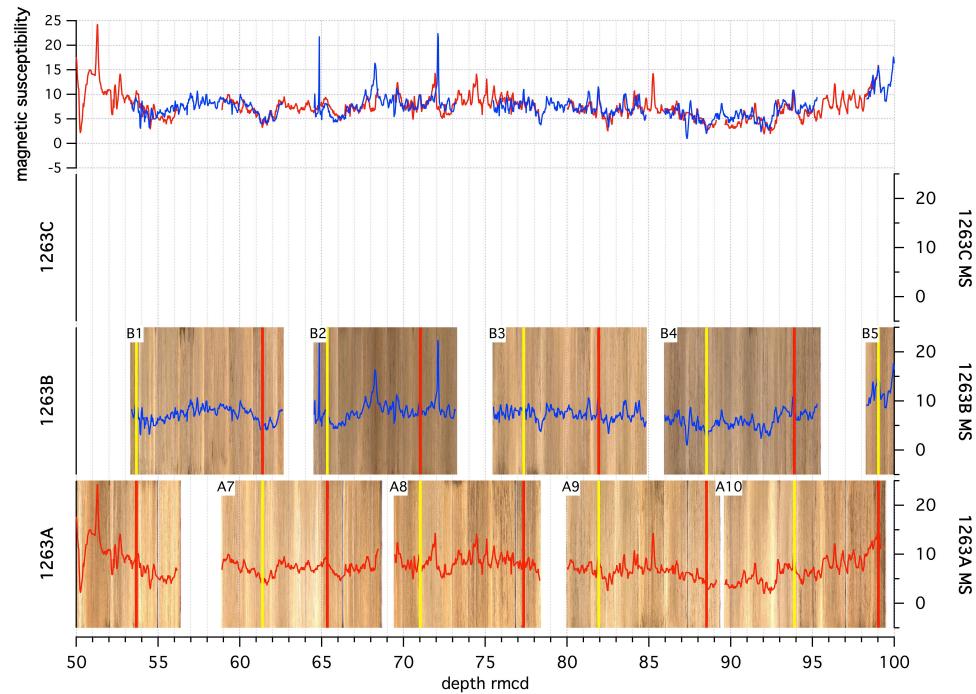
146 **Figure S5.** Eccentricity solutions La2010a-d (Laskar et al., 2011a) and La2011 (Laskar et al.,  
147 2011b) of the Earth (fine black line) compared to geological data to assess the positions of  
148 the 2.4 myr eccentricity cycle minima from 41 to 60 Ma. To accentuate successive minima  
149 in the eccentricity solution the amplitude modulation (AM) was extracted from the orbital  
150 solution (thick gray line). Geochemical data with a dominant eccentricity component are  
151 plotted on the stable 405-kyr cyclostratigraphic framework anchored to the ATS. Data:  
152 bulk  $\delta^{13}\text{C}$  from 1258 in light blue (Kirtland Turner et al., 2014), 1262 in bright blue (Littler  
153 et al., 2014; Zachos et al., 2010) and 1263 in dark blue (this study); benthic  $\delta^{13}\text{C}$  from  
154 1258 in gray (Sexton et al., 2011); XRF core scanning iron (Fe) intensity data from 1262  
155 in orange (Westerhold et al., 2007; Westerhold et al., 2008) and 1258 in red (Westerhold  
156 and Röhl, 2009). Also given is the position of the Paleocene-Eocene Thermal Maximum  
157 (PETM) (Westerhold et al., 2007) and ash -17 (Westerhold et al., 2009). Light blue bars  
158 mark the 2.4 myr eccentricity minima in the geological data. The comparison shows that  
159 none of the orbital solutions matches all of the minima in the geological records back to 60  
160 Ma. La2011 and La2010d reproduce all minima up to 48 Ma. Therefore, for astronomical  
161 dating only these two solutions are robust back to 48 Ma. For older times only the stable  
162 405-kyr eccentricity cycle should be utilized.

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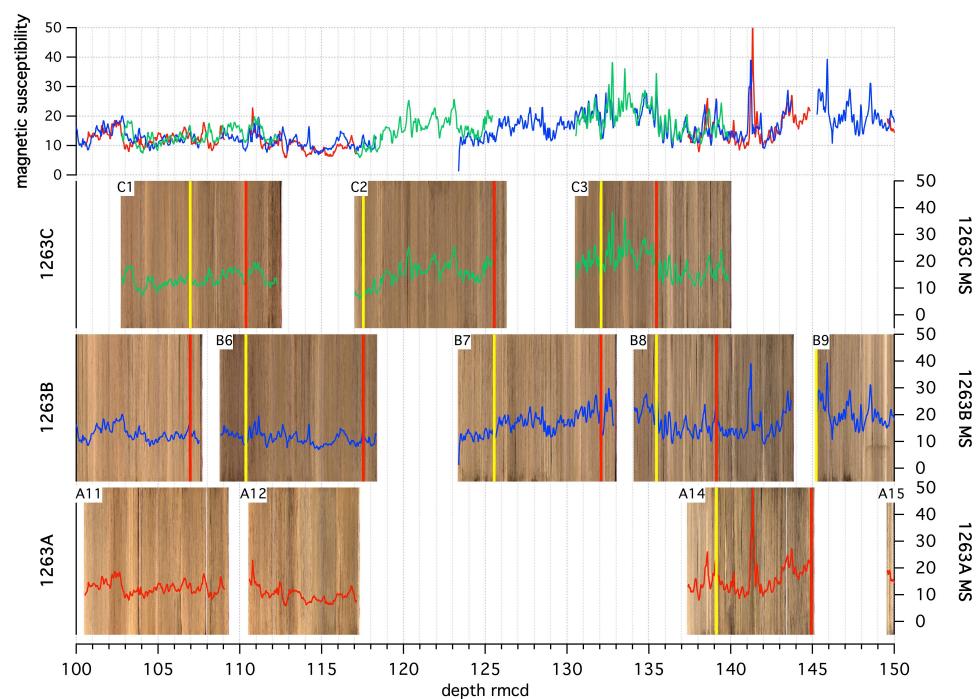
164 **Figure S6.** Comparison of astronomical and radio-isotopic ages for the Paleocene-Eocene  
165 Thermal Maximum (PETM) and ash -17. Gray bars mark the absolute age range for the  
166 onset of the PETM based on the age and relative distance of ash -17 with respect to the age  
167 of the Fish Canyon (FC) radiometric dating  $^{40}\text{Ar}/^{39}\text{Ar}$  standard of 28.02 (Renne et al.,  
168 1998), 28.201 (Kuiper et al., 2008), 28.305 (Renne et al., 2010), 27.93 (Channell et al.,  
169 2010), 27.89 (Westerhold et al., 2012), 28.172 (Rivera et al., 2011) and 28.10 (this study)  
170 Ma. Horizontal black lines mark the three possible options of the age range for the onset of  
171 the PETM based on the astronomically calibrated Paleocene time scale (Westerhold et al.,  
172 2008). The red bar and arrow as well as light blue bar and arrow mark the astronomically  
173 calibrated absolute age for the onset of the PETM and ash -17 consistent with the 2.4 myr  
174 minima in the La2011 orbital solution (Westerhold et al., 2012). The green bar and arrow  
175 as well as the blue bar and arrow mark the age of the onset of the PETM and ash -17  
176 consistent with the stable 405-kyr cyclostratigraphy established in this study. The black  
177 double dot with error bar shows the age of the onset of the PETM based on a high  
178 precision radio-isotopic U/Pb age of 55.728 - 55.964 Ma from bentonite layers within the  
179 PETM interval at Spitzbergen (Charles et al., 2011). The U/Pb age and the stable 405-kyr  
180 cyclostratigraphy age of ~55.9 Ma are independent from uncertainties in the 100-kyr and  
181 2.4 myr eccentricity cycle components and therefore the most robust age for the onset of  
182 the PETM.

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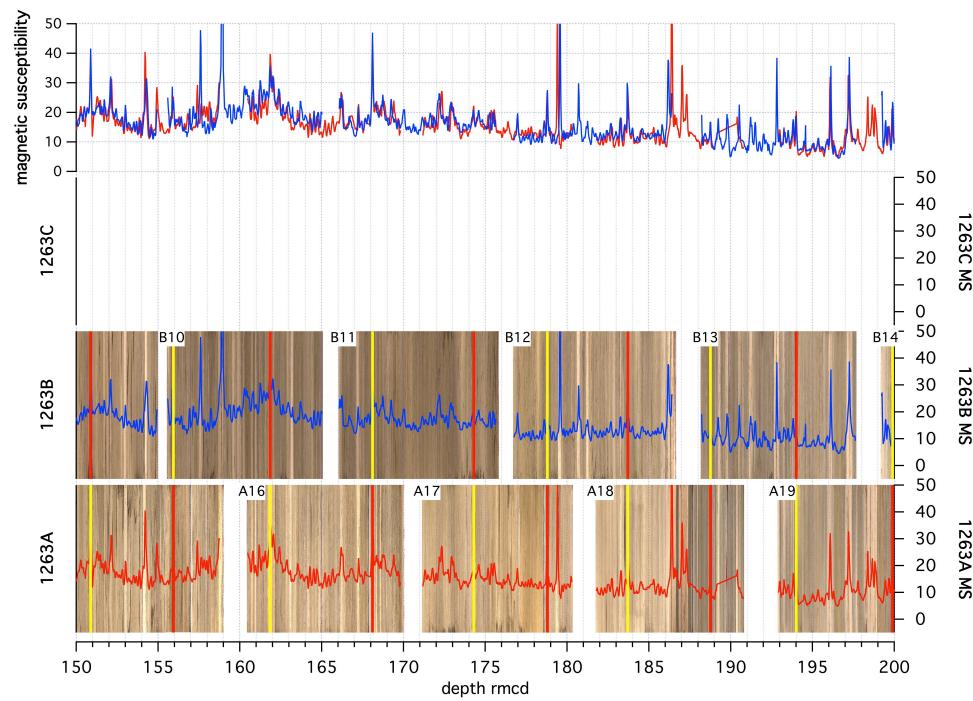
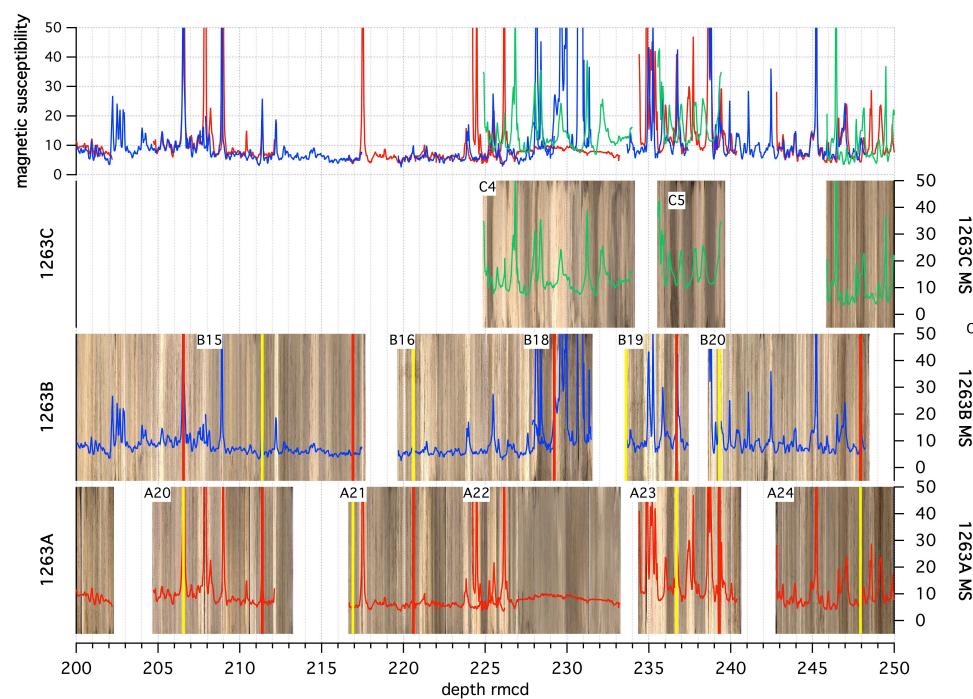
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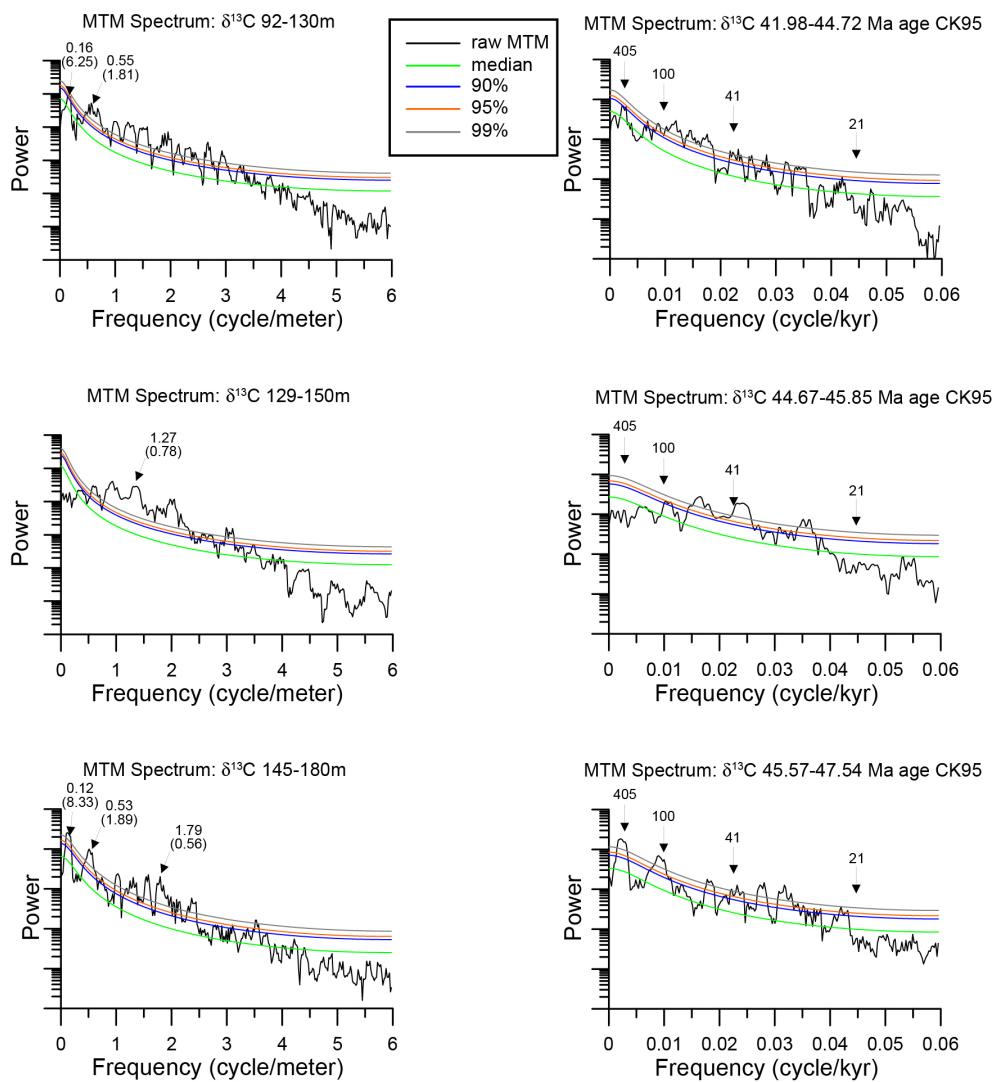
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**Figure S1**

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195**Figure S1 - continued.**

### 702B bulk $\delta^{13}\text{C}$



**Figure S2**

### 1263 bulk $\delta^{13}\text{C}$

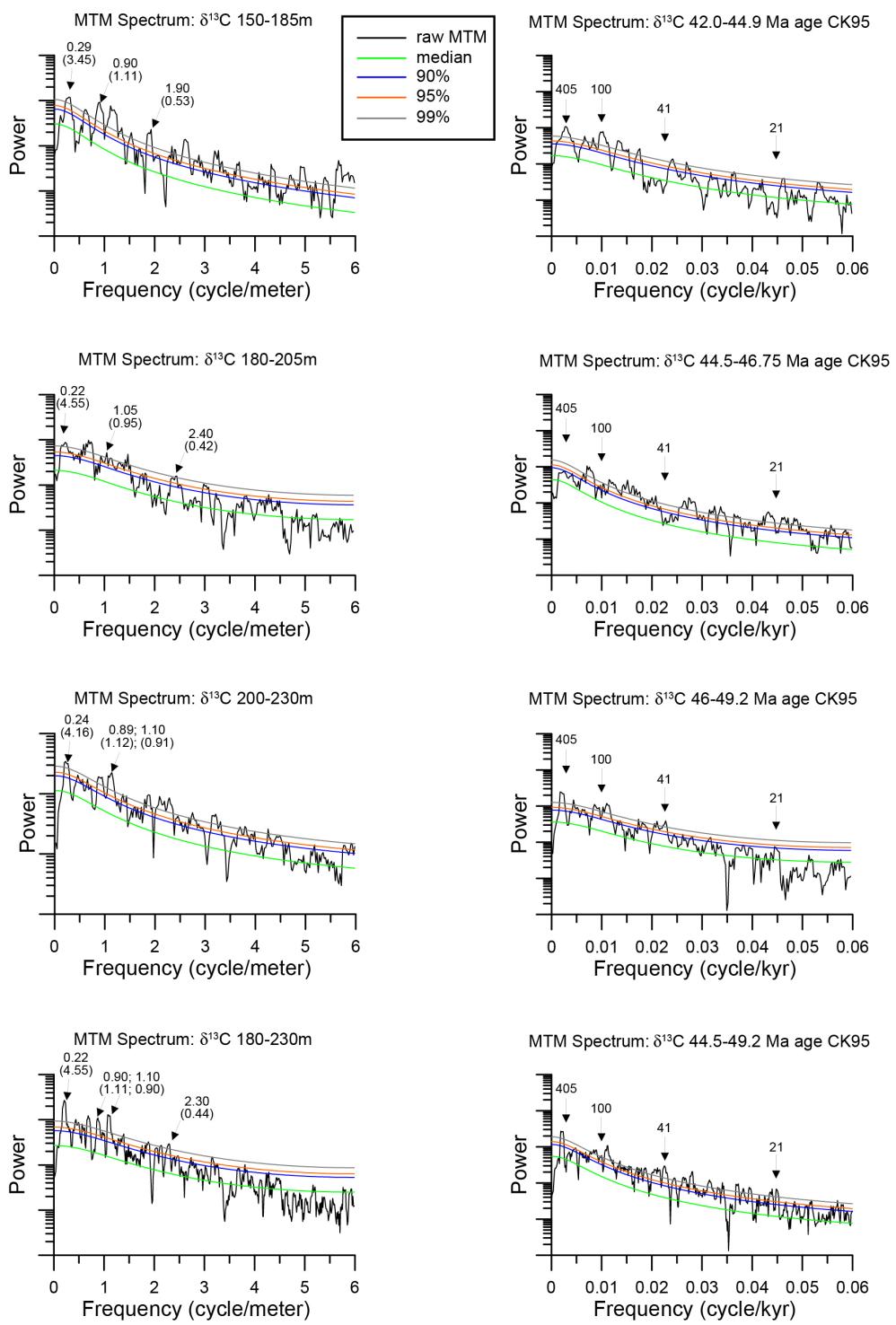
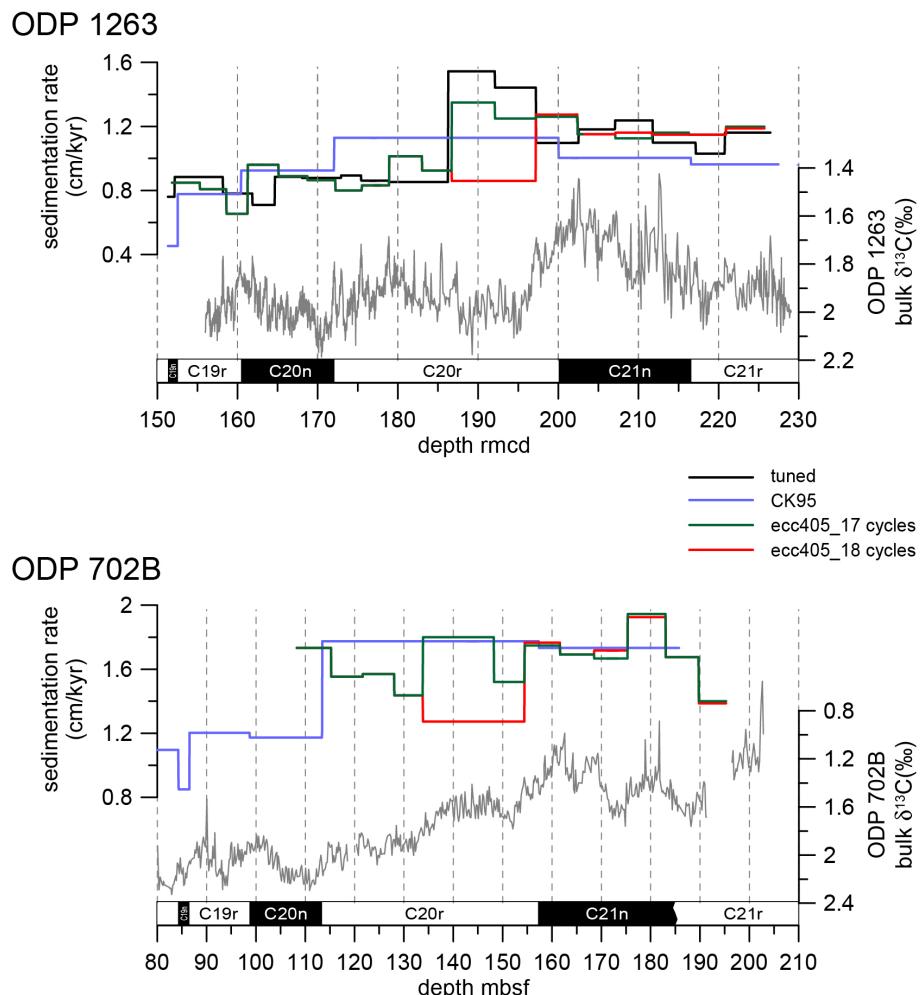
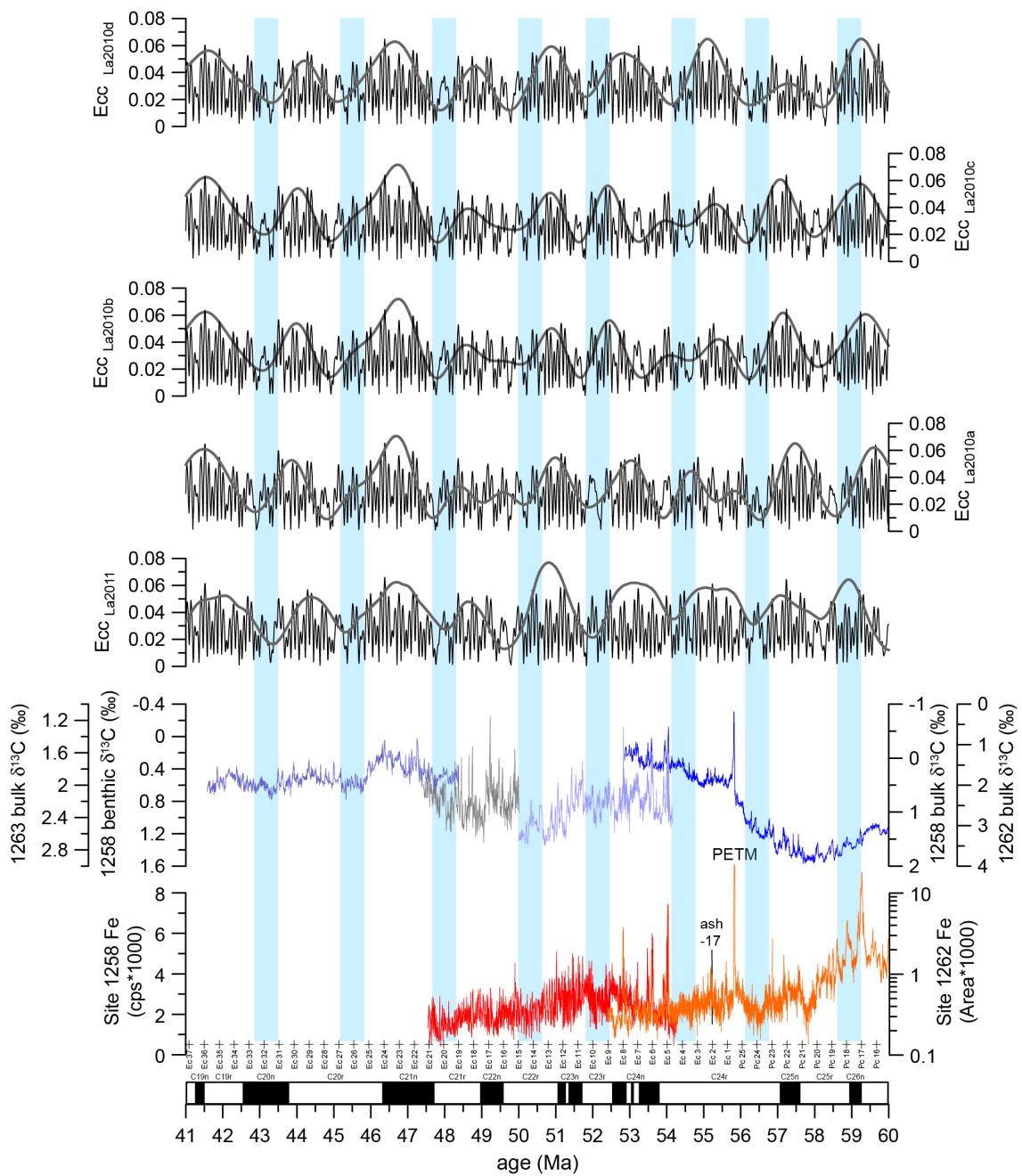


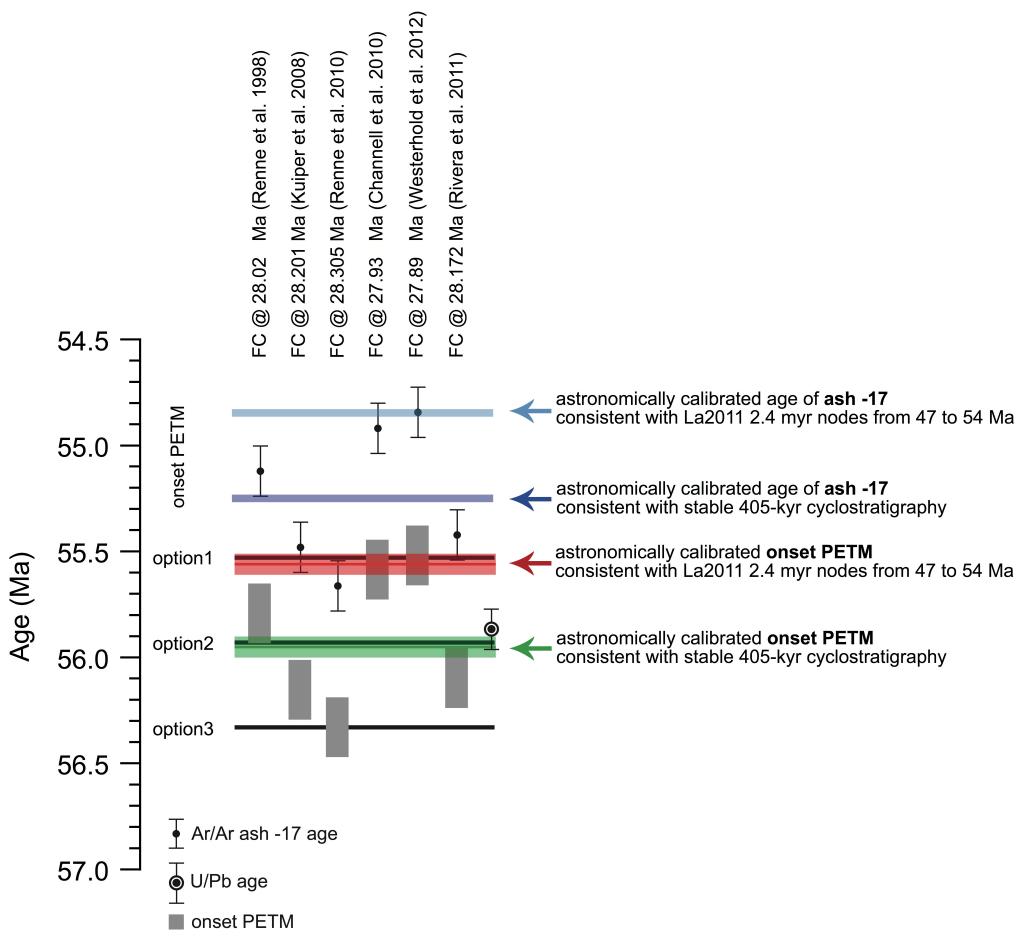
Figure S3



**Figure S4**



**Figure S5**



**Figure S6**

## **Dataset**

### **Astronomical Calibration of the Geological Timescale: Closing the Middle Eocene Gap**

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#### **Tables:**

Table S1 - Bulk stable isotope data ODP 702B

Table S2 - Bulk stable isotope data ODP 1263

Table S3 – ODP 1263 raw inclination, declination, and intensity data for each measurement step

Table S4 - Magnetostratigraphy ODP 1263

Table S5 - Hole 702B and Site 1263 Calcareous Nannofossil datums

Table S6 - Relative and absolute 405-kyr eccentricity cycle age model for ODP Hole 702B and Site 1263

Table S7 - Offsets applied to cores from Holes 1263A, 1263B, 1263C

Table S8 - List of tie points to create the revised composite depth scale (rmcd) for Site 1263

Table S9 - Paleomagnetic data from ODP 1263

Table S10 - Astronomical tuning age tie points

Table S11 - Comparison of magnetochron boundary ages in million years

Table S12 - Comparison of magnetochron boundary durations in million years

**Table S1** Bulk stable isotope data ODP 702B

Site, Hole, Core, Type, Section, Section depth (cm)	Depth (mbsf)	$\delta^{13}\text{C}$ bulk (‰)	Age (Ma)	
			405-kyr model	tuned
702B-11X-1, 5	91.85	2.134	42.16837	41.63081
702B-11X-1, 25	92.05	2.177	42.17991	41.64303
702B-11X-1, 45	92.25	2.170	42.19146	41.65524
702B-11X-1, 65	92.45	2.137	42.20300	41.66745
702B-11X-1, 85	92.65	2.116	42.21454	41.67967
702B-11X-1, 105	92.85	2.159	42.22609	41.69188
702B-11X-1, 125	93.05	2.042	42.23763	41.70409
702B-11X-1, 145	93.25	2.289	42.24917	41.71631
702B-11X-2, 5	93.35	2.141	42.25494	41.72242
702B-11X-2, 25	93.55	2.187	42.26649	41.73463
702B-11X-2, 45	93.75	2.254	42.27803	41.74684
702B-11X-2, 65	93.95	2.173	42.28957	41.75906
702B-11X-2, 85	94.15	2.256	42.30111	41.77127
702B-11X-2, 105	94.35	2.150	42.31266	41.78348
702B-11X-2, 125	94.55	2.040	42.32420	41.79570
702B-11X-2, 145	94.75	2.032	42.33574	41.80791
702B-11X-3, 5	94.85	1.925	42.34151	41.81402
702B-11X-3, 25	95.05	1.895	42.35306	41.82869
702B-11X-3, 45	95.25	2.090	42.36460	41.84469
702B-11X-3, 65	95.45	2.089	42.37614	41.86069
702B-11X-3, 85	95.65	1.932	42.38769	41.87669
702B-11X-3, 105	95.85	2.072	42.39923	41.89269
702B-11X-3, 125	96.05	2.030	42.41077	41.90869
702B-11X-3, 145	96.25	1.992	42.42231	41.92469
702B-11X-4, 5	96.35	1.907	42.42809	41.93269
702B-11X-4, 25	96.55	2.040	42.43963	41.94869
702B-11X-4, 45	96.75	1.958	42.45117	41.96469
702B-11X-4, 65	96.95	2.097	42.46271	41.98069
702B-11X-4, 85	97.15	1.953	42.47426	41.99669
702B-11X-4, 105	97.35	2.051	42.48580	42.01269
702B-11X-4, 125	97.55	1.996	42.49734	42.02869
702B-11X-4, 145	97.75	1.969	42.50889	42.04469
702B-11X-5, 5	97.85	1.989	42.51466	42.05269
702B-11X-5, 25	98.05	1.995	42.52620	42.06869
702B-11X-5, 45	98.25	1.890	42.53774	42.08482
702B-11X-5, 65	98.45	1.897	42.54929	42.10206
702B-11X-5, 85	98.65	1.909	42.56083	42.11931
702B-11X-5, 105	98.85	1.985	42.57237	42.13655
702B-11X-5, 125	99.05	1.903	42.58391	42.15380
702B-11X-5, 145	99.25	1.918	42.59546	42.17104
702B-11X-6, 5	99.35	1.947	42.60123	42.17967
702B-11X-6, 25	99.55	1.966	42.61277	42.19691
702B-11X-6, 45	99.75	1.944	42.62431	42.21416
702B-11X-6, 65	99.95	1.904	42.63586	42.23140
702B-11X-6, 85	100.15	1.834	42.64740	42.24865
702B-11X-6, 105	100.35	1.940	42.65894	42.26589
702B-11X-6, 125	100.55	1.843	42.67049	42.28314
702B-11X-6, 145	100.75	1.971	42.68203	42.30038
702B-11X-7, 5	100.85	1.920	42.68780	42.30901
702B-11X-CC, 5	101.01	1.944	42.69703	42.32280
702B-11X-CC, 25	101.21	1.923	42.70858	42.34005
702B-12X-1, 5	101.35	1.892	42.71666	42.35212
702B-12X-1, 25	101.55	1.841	42.72820	42.36936
702B-12X-1, 45	101.75	1.961	42.73974	42.38661
702B-12X-1, 65	101.95	1.901	42.75129	42.40385
702B-12X-1, 85	102.15	1.869	42.76283	42.42110
702B-12X-1, 105	102.35	1.926	42.77437	42.43834
702B-12X-1, 125	102.55	2.079	42.78591	42.45559
702B-12X-1, 145	102.75	2.073	42.79746	42.47283
702B-12X-2, 5	102.85	2.048	42.80323	42.48146
702B-12X-2, 25	103.05	1.967	42.81477	42.49870
702B-12X-2, 45	103.25	1.925	42.82631	42.51619
702B-12X-2, 65	103.45	2.115	42.83786	42.53505
702B-12X-2, 85	103.65	2.079	42.84940	42.55390
702B-12X-2, 105	103.85	2.030	42.86094	42.57276
702B-12X-2, 125	104.05	1.988	42.87249	42.59162
702B-12X-2, 145	104.25	1.978	42.88403	42.61047

702B-12X-3, 5	104.35	2.125	42.88980	42.61990
702B-12X-3, 25	104.55	2.008	42.90134	42.63876
702B-12X-3, 45	104.75	2.088	42.91289	42.65762
702B-12X-3, 65	104.95	2.169	42.92443	42.67647
702B-12X-3, 85	105.15	2.217	42.93597	42.69533
702B-12X-3, 105	105.35	2.109	42.94751	42.71419
702B-12X-3, 125	105.55	2.166	42.95906	42.73305
702B-12X-3, 145	105.75	2.228	42.97060	42.75190
702B-12X-4, 5	105.85	2.179	42.97637	42.76133
702B-12X-4, 25	106.05	2.095	42.98791	42.78019
702B-12X-4, 45	106.25	2.116	42.99946	42.79905
702B-12X-4, 65	106.45	2.234	43.01100	42.81790
702B-12X-4, 85	106.65	2.110	43.02254	42.83676
702B-12X-4, 105	106.85	2.239	43.03409	42.85562
702B-12X-4, 125	107.05	2.233	43.04563	42.87447
702B-12X-4, 145	107.25	2.129	43.05717	42.89333
702B-12X-5, 5	107.35	2.111	43.06294	42.90276
702B-12X-5, 25	107.55	2.197	43.07449	42.92162
702B-12X-5, 45	107.75	2.215	43.08603	42.94047
702B-12X-5, 65	107.95	2.169	43.09757	42.95933
702B-12X-5, 85	108.15	2.123	43.10911	42.97819
702B-12X-5, 105	108.35	2.182	43.12066	42.99704
702B-12X-6, 5	108.85	2.175	43.14951	43.04419
702B-12X-6, 25	109.05	2.111	43.16106	43.06304
702B-12X-6, 45	109.25	2.085	43.17260	43.08190
702B-12X-6, 65	109.45	2.174	43.18414	43.10076
702B-12X-6, 85	109.65	2.243	43.19569	43.11962
702B-12X-6, 105	109.85	2.238	43.20723	43.13847
702B-12X-6, 125	110.05	2.109	43.21877	43.15733
702B-12X-6, 145	110.25	2.225	43.23031	43.17619
702B-12X-7, 5	110.35	2.239	43.23609	43.18562
702B-12X-7, 25	110.55	2.203	43.24763	43.20447
702B-12X-CC, 5	110.68	2.118	43.25513	43.21673
702B-13X-1, 5	110.85	2.295	43.26494	43.23276
702B-12X-CC, 25	110.88	2.214	43.26667	43.23559
702B-13X-1, 25	111.05	2.264	43.27649	43.25161
702B-13X-1, 45	111.25	2.242	43.28803	43.27047
702B-13X-1, 65	111.45	2.213	43.29957	43.28933
702B-13X-1, 85	111.65	2.207	43.31111	43.30819
702B-13X-1, 105	111.85	2.247	43.32266	43.32704
702B-13X-1, 125	112.05	2.235	43.33420	43.34555
702B-13X-1, 145	112.25	2.114	43.34574	43.35749
702B-13X-2, 5	112.35	2.166	43.35151	43.36345
702B-13X-2, 25	112.55	2.181	43.36306	43.37539
702B-13X-2, 45	112.75	2.130	43.37460	43.38732
702B-13X-2, 65	112.95	2.051	43.38614	43.39926
702B-13X-2, 85	113.15	2.001	43.39769	43.41119
702B-13X-2, 105	113.35	2.072	43.40923	43.42312
702B-13X-2, 125	113.55	2.173	43.42077	43.43506
702B-13X-2, 145	113.75	2.126	43.43231	43.44699
702B-13X-3, 5	113.85	2.126	43.43809	43.45296
702B-13X-3, 25	114.05	2.113	43.44963	43.46489
702B-13X-3, 45	114.25	2.066	43.46117	43.47682
702B-13X-3, 65	114.45	2.062	43.47271	43.48876
702B-13X-3, 85	114.65	1.892	43.48426	43.50069
702B-13X-3, 105	114.85	1.909	43.49580	43.51262
702B-13X-3, 125	115.05	1.936	43.50734	43.52449
702B-13X-3, 145	115.25	1.925	43.51922	43.53598
702B-13X-4, 5	115.35	1.915	43.52566	43.54172
702B-13X-4, 25	115.55	2.066	43.53853	43.55321
702B-13X-4, 45	115.75	2.005	43.55141	43.56470
702B-13X-4, 65	115.95	2.060	43.56428	43.57619
702B-13X-4, 85	116.15	2.029	43.57716	43.58768
702B-13X-4, 105	116.35	1.935	43.59003	43.59916
702B-13X-4, 125	116.55	1.981	43.60291	43.61065
702B-13X-4, 145	116.75	1.894	43.61578	43.62229
702B-13X-5, 5	116.85	1.962	43.62222	43.62834
702B-13X-5, 25	117.05	1.938	43.63509	43.64043
702B-13X-5, 45	117.25	2.053	43.64797	43.65252
702B-13X-5, 65	117.45	2.130	43.66084	43.66462

702B-13X-5, 85	117.65	2.118	43.67372	43.67671
702B-13X-5, 105	117.85	2.033	43.68659	43.68880
702B-13X-5, 125	118.05	2.000	43.69947	43.70089
702B-13X-5, 145	118.25	1.981	43.71234	43.71299
702B-13X-CC, 5	118.35	1.912	43.71878	43.71903
702B-13X-CC, 25	118.55	2.050	43.73166	43.73113
702B-14X-1, 5	120.35	1.909	43.84753	43.83996
702B-14X-1, 25	120.55	1.956	43.86041	43.85206
702B-14X-1, 45	120.75	2.002	43.87328	43.86415
702B-14X-1, 65	120.95	1.824	43.88616	43.87624
702B-14X-1, 85	121.15	1.852	43.89903	43.88833
702B-14X-1, 105	121.35	1.816	43.91191	43.90131
702B-14X-1, 125	121.55	1.826	43.92478	43.91538
702B-14X-1, 145	121.75	1.856	43.93756	43.92944
702B-14X-2, 5	121.85	1.914	43.94394	43.93648
702B-14X-2, 25	122.05	1.945	43.95669	43.95054
702B-14X-2, 45	122.25	1.926	43.96944	43.96461
702B-14X-2, 65	122.45	1.927	43.98219	43.97867
702B-14X-2, 85	122.65	1.866	43.99494	43.99273
702B-14X-2, 105	122.85	1.898	44.00769	44.00680
702B-14X-2, 125	123.05	1.947	44.02044	44.02086
702B-14X-2, 145	123.25	2.008	44.03319	44.03493
702B-14X-3, 5	123.35	2.009	44.03956	44.04196
702B-14X-3, 25	123.55	1.935	44.05231	44.05603
702B-14X-3, 45	123.75	1.959	44.06506	44.07009
702B-14X-3, 65	123.95	1.936	44.07781	44.08416
702B-14X-3, 85	124.15	1.933	44.09056	44.09822
702B-14X-3, 105	124.35	1.968	44.10331	44.11229
702B-14X-3, 125	124.55	2.083	44.11606	44.12635
702B-14X-3, 145	124.75	2.001	44.12881	44.14042
702B-14X-4, 5	124.85	2.003	44.13519	44.14745
702B-14X-4, 25	125.05	2.021	44.14794	44.16151
702B-14X-4, 45	125.25	1.945	44.16069	44.17558
702B-14X-4, 65	125.45	1.993	44.17344	44.18964
702B-14X-4, 85	125.65	1.993	44.18619	44.20371
702B-14X-4, 105	125.85	1.987	44.19894	44.21777
702B-14X-4, 125	126.05	1.990	44.21169	44.23184
702B-14X-4, 145	126.25	1.905	44.22444	44.24590
702B-14X-5, 5	126.35	1.889	44.23081	44.25293
702B-14X-5, 25	126.55	1.855	44.24356	44.26700
702B-14X-5, 45	126.75	1.836	44.25631	44.28106
702B-14X-5, 65	126.95	1.835	44.26906	44.29497
702B-14X-5, 85	127.15	1.826	44.28181	44.30796
702B-14X-5, 105	127.35	1.850	44.29456	44.32095
702B-14X-5, 125	127.55	2.003	44.30731	44.33395
702B-14X-5, 145	127.75	1.898	44.32006	44.34694
702B-14X-6, 5	127.85	1.872	44.32644	44.35344
702B-14X-6, 25	128.05	1.872	44.33948	44.36643
702B-14X-6, 45	128.25	1.931	44.35341	44.37943
702B-14X-6, 65	128.45	1.753	44.36735	44.39242
702B-14X-6, 85	128.65	1.916	44.38128	44.40541
702B-14X-6, 105	128.85	1.860	44.39521	44.41841
702B-14X-6, 125	129.05	1.925	44.40914	44.43140
702B-14X-6, 145	129.25	1.832	44.42307	44.44439
702B-14X-7, 5	129.35	1.969	44.43003	44.45089
702B-14X-7, 25	129.55	1.958	44.44397	44.46389
702B-14X-CC, 5	129.61	1.967	44.44815	44.46778
702B-14X-CC, 25	129.81	1.915	44.46208	44.48078
702B-15X-1, 5	129.85	1.917	44.46486	44.48338
702B-15X-1, 25	130.05	1.908	44.47879	44.49637
702B-15X-1, 45	130.25	1.892	44.49272	44.50936
702B-15X-1, 65	130.45	1.868	44.50666	44.52236
702B-15X-1, 85	130.65	1.932	44.52059	44.53535
702B-15X-1, 105	130.85	1.974	44.53452	44.54834
702B-15X-1, 125	131.05	1.872	44.54845	44.56134
702B-15X-1, 145	131.25	1.863	44.56238	44.57433
702B-15X-2, 5	131.35	1.943	44.56935	44.58083
702B-15X-2, 25	131.55	1.803	44.58328	44.59382
702B-15X-2, 45	131.75	1.936	44.59721	44.60682
702B-15X-2, 65	131.95	2.004	44.61114	44.61981

702B-15X-2, 85	132.15	1.850	44.62507	44.63280
702B-15X-2, 105	132.35	1.971	44.63900	44.64580
702B-15X-2, 125	132.55	1.903	44.65293	44.65879
702B-15X-2, 145	132.75	1.888	44.66686	44.67178
702B-15X-3, 5	132.85	1.878	44.67383	44.67828
702B-15X-3, 25	133.05	1.824	44.68776	44.69127
702B-15X-3, 45	133.25	1.802	44.70169	44.70427
702B-15X-3, 65	133.45	1.772	44.71562	44.71726
702B-15X-3, 85	133.65	1.795	44.72955	44.73026
702B-15X-3, 105	133.85	1.840	44.74278	44.74278
702B-15X-3, 125	134.05	1.835	44.75389	44.75389
702B-15X-3, 145	134.25	1.730	44.76500	44.76500
702B-15X-4, 5	134.35	1.647	44.77056	44.77056
702B-15X-4, 25	134.55	1.770	44.78167	44.78167
702B-15X-4, 45	134.75	1.713	44.79278	44.79278
702B-15X-4, 65	134.95	1.768	44.80389	44.80389
702B-15X-4, 85	135.15	1.839	44.81500	44.81500
702B-15X-4, 105	135.35	1.777	44.82611	44.82611
702B-15X-4, 125	135.55	1.772	44.83722	44.83722
702B-15X-4, 145	135.75	1.743	44.84833	44.84833
702B-15X-5, 5	135.85	1.743	44.85389	44.85389
702B-15X-5, 25	136.05	1.790	44.86500	44.86500
702B-15X-5, 45	136.25	1.707	44.87611	44.87611
702B-15X-5, 65	136.45	1.643	44.88722	44.88722
702B-15X-5, 85	136.65	1.635	44.89833	44.89833
702B-15X-5, 105	136.85	1.673	44.90944	44.90944
702B-15X-6, 5	137.35	1.603	44.93722	44.93722
702B-15X-6, 25	137.55	1.698	44.94833	44.94833
702B-15X-6, 45	137.75	1.560	44.95944	44.95944
702B-15X-6, 65	137.95	1.636	44.97056	44.97056
702B-15X-6, 85	138.15	1.659	44.98167	44.98167
702B-15X-6, 105	138.35	1.621	44.99278	44.99278
702B-15X-6, 125	138.55	1.672	45.00389	45.00389
702B-15X-6, 145	138.75	1.560	45.01500	45.01500
702B-15X-CC, 5	138.81	1.590	45.01833	45.01833
702B-15X-CC, 25	139.01	1.631	45.02944	45.02944
702B-16X-1, 5	139.35	1.532	45.04833	45.04833
702B-16X-1, 25	139.55	1.549	45.05944	45.05944
702B-16X-1, 45	139.75	1.547	45.07056	45.07056
702B-16X-1, 65	139.95	1.665	45.08167	45.08167
702B-16X-1, 85	140.15	1.712	45.09278	45.09278
702B-16X-1, 105	140.35	1.529	45.10389	45.10389
702B-16X-1, 125	140.55	1.510	45.11500	45.11500
702B-16X-1, 145	140.75	1.606	45.12611	45.12611
702B-16X-2, 5	140.85	1.665	45.13167	45.13167
702B-16X-2, 25	141.05	1.722	45.14278	45.14278
702B-16X-2, 45	141.25	1.674	45.15389	45.15389
702B-16X-2, 65	141.45	1.524	45.16500	45.16500
702B-16X-2, 85	141.65	1.496	45.17611	45.17611
702B-16X-2, 105	141.85	1.587	45.18722	45.18722
702B-16X-2, 125	142.05	1.694	45.19833	45.19833
702B-16X-2, 145	142.25	1.570	45.20944	45.20944
702B-16X-3, 5	142.35	1.474	45.21500	45.21500
702B-16X-3, 25	142.55	1.604	45.22611	45.22611
702B-16X-3, 45	142.75	1.676	45.23722	45.23722
702B-16X-3, 65	142.95	1.636	45.24833	45.24833
702B-16X-3, 85	143.15	1.621	45.25944	45.25944
702B-16X-3, 105	143.35	1.688	45.27056	45.27056
702B-16X-3, 125	143.55	1.689	45.28167	45.28167
702B-16X-3, 145	143.75	1.412	45.29278	45.29278
702B-16X-4, 5	143.85	1.464	45.29833	45.29833
702B-16X-4, 25	144.05	1.565	45.30944	45.30944
702B-16X-4, 45	144.25	1.598	45.32056	45.32056
702B-16X-4, 65	144.45	1.696	45.33167	45.33167
702B-16X-4, 85	144.65	1.581	45.34278	45.34278
702B-16X-4, 105	144.85	1.592	45.35389	45.35389
702B-16X-4, 125	145.05	1.698	45.36500	45.36500
702B-16X-4, 145	145.25	1.514	45.37611	45.37611
702B-16X-5, 5	145.35	1.504	45.38167	45.38167
702B-16X-5, 25	145.55	1.635	45.39278	45.39278

702B-16X-5, 45	145.75	1.665	45.40389	45.40389
702B-16X-5, 65	145.95	1.494	45.41500	45.41500
702B-16X-5, 85	146.15	1.519	45.42611	45.42611
702B-16X-5, 105	146.35	1.628	45.43722	45.43722
702B-16X-5, 125	146.55	1.670	45.44833	45.44833
702B-16X-5, 145	146.75	1.513	45.45944	45.45944
702B-16X-6, 5	146.85	1.465	45.46500	45.46500
702B-16X-6, 25	147.05	1.583	45.47611	45.47611
702B-16X-6, 45	147.25	1.430	45.48722	45.48722
702B-16X-6, 65	147.45	1.554	45.49833	45.49833
702B-16X-6, 85	147.65	1.531	45.50944	45.50944
702B-16X-6, 105	147.85	1.636	45.52056	45.52056
702B-16X-6, 125	148.05	1.684	45.53167	45.53167
702B-16X-6, 145	148.25	1.545	45.54329	45.54291
702B-16X-7, 5	148.35	1.592	45.54987	45.54872
702B-16X-CC, 5	148.55	1.628	45.56303	45.56035
702B-16X-CC, 25	148.75	1.581	45.57619	45.57198
702B-17X-1, 5	148.85	1.525	45.58277	45.57780
702B-17X-1, 25	149.05	1.639	45.59594	45.58943
702B-17X-1, 45	149.25	1.539	45.60910	45.60106
702B-17X-1, 65	149.45	1.686	45.62226	45.61269
702B-17X-1, 85	149.65	1.656	45.63542	45.62432
702B-17X-1, 105	149.85	1.681	45.64858	45.63595
702B-17X-1, 125	150.05	1.682	45.66174	45.64758
702B-17X-1, 145	150.25	1.701	45.67490	45.65921
702B-17X-2, 5	150.35	1.665	45.68148	45.66503
702B-17X-2, 25	150.55	1.684	45.69465	45.67666
702B-17X-2, 45	150.75	1.696	45.70781	45.68829
702B-17X-2, 65	150.95	1.633	45.72097	45.69992
702B-17X-2, 85	151.15	1.648	45.73413	45.71155
702B-17X-2, 105	151.35	1.692	45.74729	45.72318
702B-17X-2, 125	151.55	1.722	45.76045	45.73481
702B-17X-2, 145	151.75	1.721	45.77361	45.74644
702B-17X-3, 5	151.85	1.736	45.78019	45.75225
702B-17X-3, 25	152.05	1.784	45.79336	45.76388
702B-17X-3, 45	152.25	1.730	45.80652	45.77551
702B-17X-3, 65	152.45	1.587	45.81968	45.78714
702B-17X-3, 85	152.65	1.595	45.83284	45.79877
702B-17X-3, 105	152.85	1.554	45.84600	45.81040
702B-17X-3, 125	153.05	1.643	45.85916	45.82203
702B-17X-3, 145	153.25	1.578	45.87232	45.83366
702B-17X-4, 5	153.35	1.553	45.87890	45.83948
702B-17X-4, 25	153.55	1.648	45.89207	45.85111
702B-17X-4, 45	153.75	1.501	45.90523	45.86274
702B-17X-4, 65	153.95	1.451	45.91839	45.87437
702B-17X-4, 85	154.15	1.425	45.93155	45.88600
702B-17X-4, 105	154.35	1.353	45.94471	45.89763
702B-17X-4, 125	154.55	1.405	45.95658	45.90997
702B-17X-4, 145	154.75	1.461	45.96803	45.92235
702B-17X-5, 5	154.85	1.503	45.97375	45.92854
702B-17X-5, 25	155.05	1.428	45.98519	45.94092
702B-17X-5, 45	155.25	1.504	45.99664	45.95330
702B-17X-5, 65	155.45	1.494	46.00808	45.96568
702B-17X-5, 85	155.65	1.541	46.01953	45.97806
702B-17X-5, 105	155.85	1.491	46.03097	45.99044
702B-17X-5, 125	156.05	1.529	46.04242	46.00282
702B-17X-5, 145	156.25	1.376	46.05386	46.01520
702B-17X-6, 5	156.35	1.399	46.05958	46.02139
702B-17X-6, 25	156.55	1.340	46.07103	46.03377
702B-17X-6, 45	156.75	1.376	46.08247	46.04615
702B-17X-6, 65	156.95	1.398	46.09392	46.05853
702B-17X-6, 85	157.15	1.361	46.10536	46.07091
702B-17X-6, 105	157.35	1.488	46.11681	46.08329
702B-17X-6, 125	157.55	1.497	46.12825	46.09567
702B-17X-6, 145	157.75	1.422	46.13969	46.10805
702B-17X-7, 5	157.85	1.431	46.14542	46.11424
702B-17X-7, 25	158.05	1.412	46.15686	46.12662
702B-17X-CC, 5	158.19	1.437	46.16487	46.13529
702B-18X-1, 5	158.35	1.254	46.17403	46.14519
702B-17X-CC, 25	158.39	1.374	46.17632	46.14767

702B-18X-1, 25	158.55	1.174	46.18547	46.15757
702B-18X-1, 45	158.75	1.374	46.19692	46.16995
702B-18X-1, 65	158.95	1.365	46.20836	46.18233
702B-18X-1, 85	159.15	1.278	46.21981	46.19471
702B-18X-1, 105	159.35	1.336	46.23125	46.20709
702B-18X-1, 125	159.55	1.293	46.24269	46.21947
702B-18X-1, 145	159.75	1.260	46.25414	46.23185
702B-18X-2, 5	159.85	1.354	46.25986	46.23804
702B-18X-2, 25	160.05	1.262	46.27131	46.25042
702B-18X-2, 45	160.25	1.162	46.28275	46.26280
702B-18X-2, 65	160.45	1.084	46.29419	46.27518
702B-18X-2, 85	160.65	1.173	46.30564	46.28756
702B-18X-2, 105	160.85	1.090	46.31708	46.29994
702B-18X-2, 125	161.05	1.229	46.32853	46.31232
702B-18X-2, 145	161.25	1.237	46.33997	46.32470
702B-18X-3, 5	161.35	1.256	46.34569	46.33089
702B-18X-3, 25	161.55	1.213	46.35714	46.34327
702B-18X-3, 45	161.75	1.101	46.36887	46.35565
702B-18X-3, 65	161.95	1.124	46.38070	46.36803
702B-18X-3, 85	162.15	1.103	46.39252	46.38041
702B-18X-3, 105	162.35	1.051	46.40435	46.39176
702B-18X-3, 125	162.55	0.986	46.41617	46.40306
702B-18X-3, 145	162.75	1.333	46.42800	46.41436
702B-18X-4, 5	162.85	1.290	46.43391	46.42001
702B-18X-4, 25	163.05	1.274	46.44574	46.43131
702B-18X-4, 45	163.25	1.344	46.45757	46.44261
702B-18X-4, 65	163.45	1.385	46.46939	46.45391
702B-18X-4, 85	163.65	1.327	46.48122	46.46520
702B-18X-4, 105	163.85	1.360	46.49304	46.47650
702B-18X-4, 125	164.05	1.256	46.50487	46.48780
702B-18X-4, 145	164.25	1.151	46.51670	46.49910
702B-18X-5, 5	164.35	1.449	46.52261	46.50475
702B-18X-5, 25	164.55	1.485	46.53444	46.51605
702B-18X-5, 45	164.75	1.291	46.54626	46.52735
702B-18X-5, 65	164.95	1.473	46.55809	46.53865
702B-18X-5, 85	165.15	1.440	46.56991	46.54994
702B-18X-5, 105	165.35	1.399	46.58174	46.56124
702B-18X-6, 5	165.85	1.402	46.61130	46.58949
702B-18X-6, 25	166.05	1.403	46.62313	46.60079
702B-18X-6, 45	166.25	1.302	46.63496	46.61209
702B-18X-6, 65	166.45	1.314	46.64678	46.62339
702B-18X-6, 85	166.65	1.311	46.65861	46.63468
702B-18X-CC, 5	166.74	1.237	46.66393	46.63977
702B-18X-CC, 25	166.94	1.180	46.67576	46.65107
702B-19X-1, 5	167.85	1.315	46.72957	46.70248
702B-19X-1, 25	168.05	1.188	46.74139	46.71378
702B-19X-1, 45	168.25	1.185	46.75322	46.72507
702B-19X-1, 65	168.45	1.200	46.76504	46.73637
702B-19X-1, 85	168.65	1.230	46.77700	46.74767
702B-19X-1, 105	168.85	1.247	46.78900	46.75916
702B-19X-1, 125	169.05	1.189	46.80100	46.77231
702B-19X-1, 145	169.25	1.154	46.81300	46.78547
702B-19X-2, 5	169.35	1.186	46.81900	46.79205
702B-19X-2, 25	169.55	1.350	46.83100	46.80521
702B-19X-2, 45	169.75	1.428	46.84300	46.81837
702B-19X-2, 65	169.95	1.434	46.85500	46.83152
702B-19X-2, 85	170.15	1.424	46.86700	46.84468
702B-19X-2, 105	170.35	1.463	46.87900	46.85784
702B-19X-2, 125	170.55	1.473	46.89100	46.87100
702B-19X-2, 145	170.75	1.463	46.90300	46.88415
702B-19X-3, 5	170.85	1.409	46.90900	46.89073
702B-19X-3, 25	171.05	1.475	46.92100	46.90389
702B-19X-3, 45	171.25	1.533	46.93300	46.91705
702B-19X-3, 65	171.45	1.545	46.94500	46.93021
702B-19X-3, 85	171.65	1.642	46.95700	46.94336
702B-19X-3, 105	171.85	1.609	46.96900	46.95652
702B-19X-3, 125	172.05	1.589	46.98100	46.96968
702B-19X-3, 145	172.25	1.701	46.99300	46.98284
702B-19X-4, 5	172.35	1.656	46.99900	46.98942
702B-19X-4, 25	172.55	1.611	47.01100	47.00257

702B-19X-4, 45	172.75	1.673	47.02300	47.01573
702B-19X-4, 65	172.95	1.608	47.03500	47.02889
702B-19X-4, 85	173.15	1.546	47.04700	47.04205
702B-19X-4, 105	173.35	1.597	47.05900	47.05520
702B-19X-4, 125	173.55	1.685	47.07100	47.06836
702B-19X-4, 145	173.75	1.646	47.08300	47.08152
702B-19X-5, 5	173.85	1.648	47.08900	47.08810
702B-19X-5, 25	174.05	1.582	47.10100	47.10126
702B-19X-5, 45	174.25	1.608	47.11300	47.11441
702B-19X-5, 65	174.45	1.626	47.12500	47.12757
702B-19X-5, 85	174.65	1.621	47.13700	47.14073
702B-19X-5, 105	174.85	1.763	47.14900	47.15389
702B-19X-5, 125	175.05	1.401	47.16100	47.16704
702B-19X-5, 145	175.25	1.542	47.17300	47.18020
702B-19X-6, 5	175.35	1.575	47.17857	47.18678
702B-19X-6, 25	175.55	1.524	47.18886	47.19994
702B-19X-6, 45	175.75	1.412	47.19914	47.21310
702B-19X-6, 65	175.95	1.351	47.20943	47.22615
702B-19X-6, 85	176.15	1.497	47.21971	47.23717
702B-19X-6, 105	176.35	1.514	47.23000	47.24819
702B-19X-6, 125	176.55	1.504	47.24029	47.25922
702B-19X-6, 145	176.75	1.495	47.25057	47.27024
702B-19X-7, 5	176.85	1.451	47.25571	47.27575
702B-19X-CC, 5	177.07	1.409	47.26703	47.28788
702B-20X-1, 5	177.35	1.515	47.28143	47.30331
702B-20X-1, 25	177.55	1.518	47.29171	47.31433
702B-20X-1, 45	177.75	1.394	47.30200	47.32536
702B-20X-1, 65	177.95	1.409	47.31229	47.33638
702B-20X-1, 85	178.15	1.473	47.32257	47.34740
702B-20X-1, 105	178.35	1.330	47.33286	47.35842
702B-20X-1, 125	178.55	1.452	47.34314	47.36945
702B-20X-1, 145	178.75	1.378	47.35343	47.38047
702B-20X-2, 5	178.85	1.041	47.35857	47.38598
702B-20X-2, 25	179.05	1.351	47.36886	47.39701
702B-20X-2, 45	179.25	1.383	47.37914	47.40803
702B-20X-2, 65	179.45	1.347	47.38943	47.41905
702B-20X-2, 85	179.65	1.426	47.39971	47.43007
702B-20X-2, 105	179.85	1.465	47.41000	47.44110
702B-20X-2, 125	180.05	1.385	47.42029	47.45212
702B-20X-2, 145	180.25	1.346	47.43057	47.46314
702B-20X-3, 5	180.35	1.480	47.43571	47.46866
702B-20X-3, 25	180.55	1.440	47.44600	47.47968
702B-20X-3, 45	180.75	1.385	47.45629	47.49070
702B-20X-3, 65	180.95	1.265	47.46657	47.50172
702B-20X-3, 85	181.15	1.379	47.47686	47.51275
702B-20X-3, 105	181.35	1.324	47.48714	47.52377
702B-20X-3, 125	181.55	1.293	47.49743	47.53479
702B-20X-3, 145	181.75	0.885	47.50771	47.54585
702B-20X-4, 5	181.85	1.373	47.51286	47.55173
702B-20X-4, 45	182.25	1.477	47.53343	47.57523
702B-20X-4, 65	182.45	1.465	47.54371	47.58697
702B-20X-4, 85	182.65	1.488	47.55400	47.59872
702B-20X-4, 105	182.85	1.486	47.56429	47.61047
702B-20X-4, 125	183.05	1.515	47.57499	47.62222
702B-20X-4, 145	183.25	1.441	47.58693	47.63397
702B-20X-5, 5	183.35	1.438	47.59290	47.63984
702B-20X-5, 25	183.55	1.464	47.60484	47.65159
702B-20X-5, 45	183.75	1.536	47.61678	47.66334
702B-20X-5, 65	183.95	1.373	47.62872	47.67509
702B-20X-5, 85	184.15	1.417	47.64066	47.68684
702B-20X-5, 105	184.35	1.625	47.65260	47.69859
702B-20X-5, 125	184.55	1.454	47.66454	47.71034
702B-20X-5, 145	184.75	1.515	47.67648	47.72209
702B-20X-6, 5	184.85	1.542	47.68245	47.72796
702B-20X-6, 25	185.05	1.582	47.69439	47.73971
702B-20X-6, 45	185.25	1.509	47.70633	47.75146
702B-20X-CC, 5	185.42	1.636	47.71648	47.76145
702B-20X-CC, 25	185.62	1.583	47.72842	47.77320
702B-21X-1, 15	186.95	1.678	47.80782	47.85133
702B-21X-1, 35	187.15	1.565	47.81976	47.86308

702B-21X-1, 55	187.35	1.591	47.83170	47.87482
702B-21X-1, 75	187.55	1.586	47.84364	47.88657
702B-21X-1, 95	187.75	1.573	47.85558	47.89832
702B-21X-1, 115	187.95	1.686	47.86752	47.91007
702B-21X-1, 135	188.15	1.763	47.87946	47.92182
702B-21X-2, 5	188.35	1.700	47.89140	47.93357
702B-21X-2, 25	188.55	1.558	47.90334	47.94532
702B-21X-2, 45	188.75	1.664	47.91528	47.95707
702B-21X-2, 65	188.95	1.639	47.92722	47.96882
702B-21X-2, 85	189.15	1.563	47.93916	47.98057
702B-21X-2, 105	189.35	1.477	47.95110	47.99231
702B-21X-3, 15	189.95	1.552	47.98986	48.02756
702B-21X-3, 35	190.15	1.551	48.00414	48.03931
702B-21X-3, 55	190.35	1.626	48.01843	48.05106
702B-21X-3, 75	190.55	1.449	48.03271	48.06281
702B-21X-3, 95	190.75	1.389	48.04700	48.07456
702B-21X-3, 115	190.95	1.410	48.06129	48.08631
702B-21X-3, 135	191.15	1.681	48.07557	48.09806
702B-21X-CC, 5	191.29	1.687	48.08557	48.10628
702B-22X-1, 15	196.45	1.229	48.45414	48.40940
702B-22X-1, 35	196.65	1.131	48.46843	48.42115
702B-22X-1, 55	196.85	1.376	48.48271	48.43290
702B-22X-1, 75	197.05	1.337	48.49700	48.44465
702B-22X-1, 95	197.25	1.284	48.51129	48.45640
702B-22X-1, 115	197.45	1.304	48.52557	48.46815
702B-22X-1, 135	197.65	1.247	48.53986	48.47990
702B-22X-2, 5	197.85	1.221	48.55414	48.49165
702B-22X-2, 25	198.05	1.151	48.56843	48.50340
702B-22X-2, 45	198.25	1.169	48.58271	48.51514
702B-22X-2, 65	198.45	1.231	48.59700	48.52689
702B-22X-2, 85	198.65	1.282	48.61129	48.53864
702B-22X-2, 105	198.85	1.112	48.62557	48.55039
702B-22X-2, 125	199.05	1.105	48.63986	48.56214
702B-22X-2, 145	199.25	0.955	48.65414	48.57389
702B-22X-3, 15	199.45	1.089	48.66843	48.58564
702B-22X-3, 35	199.65	1.200	48.68271	48.59739
702B-22X-3, 55	199.85	1.274	48.69700	48.60914
702B-22X-3, 75	200.05	1.260	48.71129	48.62088
702B-22X-3, 95	200.25	1.308	48.72557	48.63263
702B-22X-3, 115	200.45	1.206	48.73986	48.64438
702B-22X-3, 135	200.65	1.152	48.75414	48.65613
702B-22X-4, 5	200.85	1.072	48.76843	48.66788
702B-22X-4, 25	201.05	1.139	48.78271	48.67963
702B-22X-4, 45	201.25	1.251	48.79700	48.69138
702B-22X-4, 65	201.45	1.220	48.81129	48.70313
702B-22X-4, 85	201.65	1.186	48.82557	48.71488
702B-22X-4, 105	201.85	1.310	48.83986	48.72663
702B-22X-4, 125	202.05	1.210	48.85414	48.73837
702B-22X-4, 145	202.25	0.850	48.86843	48.75012
702B-22X-5, 8	202.38	0.720	48.87771	48.75776
702B-22X-CC, 19	202.61	0.555	48.89414	48.77127
702B-22X-CC, 39	202.81	0.994	48.90843	48.78302

**Table S2** Bulk stable isotope data ODP 1263

Site, Hole, Core, Type, Section, Sectiondepth (cm)	Depth (mbsf)	Depth (rmcd)	Lab	$\delta^{13}\text{C}$ bulk (‰)	Age (Ma)	
					405-kyr model	tuned
1263B-10H-1, 46	131.96	156.00	Bremen	2.084	41.582545	41.571592
1263B-10H-1, 50	132.00	156.04	Bremen	2.031	41.587491	41.576105
1263B-10H-1, 54	132.04	156.08	Bremen	2.006	41.592436	41.580619
1263B-10H-1, 58	132.08	156.12	Bremen	2.025	41.597382	41.585132
1263B-10H-1, 62	132.12	156.16	Bremen	2.000	41.602327	41.589646
1263B-10H-1, 66	132.16	156.20	Bremen	2.007	41.607273	41.594160
1263B-10H-1, 70	132.20	156.24	Bremen	2.009	41.612218	41.598673
1263B-10H-1, 74	132.24	156.28	Bremen	1.955	41.617164	41.603187
1263B-10H-1, 78	132.28	156.32	Bremen	2.002	41.622109	41.607700
1263B-10H-1, 82	132.32	156.36	Bremen	1.968	41.627055	41.612214
1263B-10H-1, 86	132.36	156.40	Bremen	1.958	41.632000	41.616728
1263B-10H-1, 90	132.40	156.44	Bremen	1.944	41.636945	41.621241
1263B-10H-1, 94	132.44	156.48	Bremen	1.980	41.641891	41.625755
1263B-10H-1, 98	132.48	156.52	Bremen	2.055	41.646836	41.630268
1263B-10H-1, 102	132.52	156.56	Bremen	1.958	41.651782	41.634782
1263B-10H-1, 106	132.56	156.60	Bremen	2.101	41.656727	41.639296
1263B-10H-1, 110	132.60	156.64	Bremen	2.033	41.661673	41.643809
1263B-10H-1, 114	132.64	156.68	Bremen	2.041	41.666618	41.648323
1263B-10H-1, 118	132.68	156.72	Bremen	2.076	41.671564	41.652836
1263B-10H-1, 122	132.72	156.76	Bremen	2.101	41.676509	41.657350
1263B-10H-1, 126	132.76	156.80	Bremen	2.055	41.681455	41.661863
1263B-10H-1, 130	132.80	156.84	Bremen	2.081	41.686400	41.666377
1263B-10H-1, 134	132.84	156.88	Bremen	2.024	41.691345	41.670891
1263B-10H-1, 138	132.88	156.92	Bremen	2.055	41.696291	41.675404
1263B-10H-1, 142	132.92	156.96	Bremen	2.026	41.701236	41.679918
1263B-10H-1, 146	132.96	157.00	Bremen	2.045	41.706182	41.684431
1263B-10H-1, 149	133.99	157.03	Bremen	2.010	41.709891	41.687817
1263B-10H-2, 4	133.04	157.08	Bremen	2.024	41.716073	41.693459
1263B-10H-2, 8	133.08	157.12	Bremen	2.000	41.721018	41.697972
1263B-10H-2, 12	133.12	157.16	Bremen	2.079	41.725964	41.702486
1263B-10H-2, 16	133.16	157.20	Bremen	2.025	41.730909	41.706999
1263B-10H-2, 20	133.20	157.24	Bremen	1.940	41.735855	41.711513
1263B-10H-2, 24	133.24	157.28	Bremen	2.046	41.740800	41.716027
1263B-10H-2, 28	133.28	157.32	Bremen	1.988	41.745745	41.720540
1263B-10H-2, 32	133.32	157.36	Bremen	1.988	41.750691	41.725054
1263B-10H-2, 36	133.36	157.40	Bremen	2.040	41.755636	41.729567
1263B-10H-2, 40	133.40	157.44	Bremen	2.044	41.760582	41.734081
1263B-10H-2, 44	133.44	157.48	Bremen	2.118	41.765527	41.738595
1263B-10H-2, 48	133.48	157.52	Bremen	1.972	41.770473	41.743108
1263B-10H-2, 52	133.52	157.56	Bremen	2.084	41.775418	41.747622
1263B-10H-2, 56	133.56	157.60	Bremen	1.981	41.780364	41.752135
1263B-10H-2, 60	133.60	157.64	Bremen	2.049	41.785309	41.756649
1263B-10H-2, 64	133.64	157.68	Bremen	2.080	41.790255	41.761163
1263B-10H-2, 68	133.68	157.72	Bremen	1.975	41.795200	41.765676
1263B-10H-2, 72	133.72	157.76	Bremen	2.079	41.800145	41.770190
1263B-10H-2, 76	133.76	157.80	Bremen	2.039	41.805091	41.774703
1263B-10H-2, 80	133.80	157.84	Bremen	2.061	41.810036	41.779217
1263B-10H-2, 84	133.84	157.88	Bremen	2.003	41.814982	41.783730
1263B-10H-2, 88	133.88	157.92	Bremen	2.002	41.819927	41.788244
1263B-10H-2, 92	133.92	157.96	Bremen	1.969	41.824873	41.792758
1263B-10H-2, 96	133.96	158.00	Bremen	1.936	41.829818	41.797271
1263B-10H-2, 100	134.00	158.04	Bremen	1.932	41.834764	41.801785
1263B-10H-2, 104	134.04	158.08	Bremen	1.968	41.839709	41.806298
1263B-10H-2, 108	134.08	158.12	Bremen	1.785	41.844655	41.810812
1263B-10H-2, 112	134.12	158.16	Bremen	1.785	41.849600	41.815326
1263B-10H-2, 116	134.16	158.20	Bremen	1.767	41.854545	41.820286
1263B-10H-2, 120	134.20	158.24	Bremen	1.862	41.859491	41.825396
1263B-10H-2, 124	134.24	158.28	Bremen	1.963	41.864436	41.830505
1263B-10H-2, 128	134.28	158.32	Bremen	1.944	41.869382	41.835615
1263B-10H-2, 132	134.32	158.36	Bremen	1.947	41.874327	41.840724
1263B-10H-2, 136	134.36	158.40	Bremen	1.952	41.879273	41.845834
1263B-10H-2, 140	134.40	158.44	Bremen	1.994	41.884218	41.850943
1263B-10H-2, 144	134.44	158.48	Bremen	2.012	41.889164	41.856053
1263B-10H-2, 148	134.48	158.52	Bremen	2.021	41.894109	41.861162
1263B-10H-3, 2	134.52	158.56	Bremen	1.998	41.899055	41.866272
1263B-10H-3, 6	134.56	158.60	Bremen	2.047	41.904000	41.871382
1263B-10H-3, 10	134.60	158.64	Bremen	2.044	41.910098	41.876491

1263B-10H-3, 14	134.64	158.68	Bremen	1.948	41.916196	41.881601
1263B-10H-3, 18	134.68	158.72	Bremen	2.002	41.922294	41.886710
1263B-10H-3, 22	134.72	158.76	Bremen	1.893	41.928392	41.891820
1263B-10H-3, 26	134.76	158.80	Bremen	1.958	41.934491	41.896929
1263B-10H-3, 30	134.80	158.84	Bremen	1.927	41.940589	41.902039
1263B-10H-3, 34	134.84	158.88	Bremen	1.895	41.946687	41.907148
1263B-10H-3, 38	134.88	158.92	Bremen	1.742	41.952785	41.912258
1263B-10H-3, 42	134.92	158.96	Bremen	1.956	41.958883	41.917367
1263B-10H-3, 46	134.96	159.00	Bremen	1.932	41.964981	41.922477
1263B-10H-3, 50	135.00	159.04	Bremen	1.969	41.971079	41.927586
1263B-10H-3, 54	135.04	159.08	Bremen	1.972	41.977177	41.932696
1263B-10H-3, 58	135.08	159.12	Bremen	1.971	41.983275	41.937806
1263B-10H-3, 62	135.12	159.16	Bremen	1.954	41.989374	41.942915
1263B-10H-3, 66	135.16	159.20	Bremen	2.035	41.995472	41.948025
1263B-10H-3, 70	135.20	159.24	Bremen	1.977	42.001570	41.953134
1263B-10H-3, 74	135.24	159.28	Bremen	1.913	42.007668	41.958244
1263B-10H-3, 78	135.28	159.32	Bremen	1.936	42.013766	41.963353
1263B-10H-3, 82	135.32	159.36	Bremen	1.898	42.019864	41.968463
1263B-10H-3, 86	135.36	159.40	Bremen	1.922	42.025962	41.973572
1263B-10H-3, 90	135.40	159.44	Bremen	1.992	42.032060	41.978682
1263B-10H-3, 94	135.44	159.48	Bremen	2.014	42.038158	41.983791
1263B-10H-3, 98	135.48	159.52	Bremen	2.077	42.044257	41.988901
1263B-10H-3, 102	135.52	159.56	Bremen	2.040	42.050355	41.994010
1263B-10H-3, 106	135.56	159.60	Bremen	2.025	42.056453	41.999120
1263B-10H-3, 110	135.60	159.64	Bremen	1.997	42.062551	42.004230
1263B-10H-3, 114	135.64	159.68	Bremen	2.033	42.068649	42.009339
1263B-10H-3, 118	135.68	159.72	Bremen	1.947	42.074747	42.014449
1263B-10H-3, 122	135.72	159.76	Bremen	1.911	42.080845	42.019558
1263B-10H-3, 126	135.76	159.80	Bremen	1.883	42.086943	42.024668
1263B-10H-3, 130	135.80	159.84	Bremen	1.903	42.093042	42.029777
1263B-10H-3, 134	135.84	159.88	Bremen	1.866	42.099140	42.034887
1263B-10H-3, 138	135.88	159.92	Bremen	1.902	42.105238	42.039996
1263B-10H-3, 142	135.92	159.96	Bremen	1.877	42.111336	42.045106
1263B-10H-3, 146	135.96	160.00	Bremen	1.895	42.117434	42.050215
1263B-10H-3, 149	135.99	160.03	Bremen	1.880	42.122008	42.054048
1263B-10H-4, 4	136.04	160.08	Bremen	1.855	42.129630	42.060435
1263B-10H-4, 8	136.08	160.12	Bremen	1.870	42.135728	42.065544
1263B-10H-4, 12	136.12	160.16	Bremen	1.854	42.141826	42.070654
1263B-10H-4, 16	136.16	160.20	Bremen	1.846	42.147925	42.075763
1263B-10H-4, 20	136.20	160.24	Bremen	1.813	42.154023	42.080873
1263B-10H-4, 24	136.24	160.28	Bremen	1.841	42.160121	42.085982
1263B-10H-4, 28	136.28	160.32	Bremen	1.832	42.166219	42.091092
1263B-10H-4, 32	136.32	160.36	Bremen	1.786	42.172317	42.096201
1263B-10H-4, 36	136.36	160.40	Bremen	1.832	42.178415	42.101311
1263B-10H-4, 40	136.40	160.44	Bremen	1.841	42.184513	42.106420
1263B-10H-4, 44	136.44	160.48	Bremen	1.854	42.190611	42.111530
1263B-10H-4, 48	136.48	160.52	Bremen	1.866	42.196709	42.116639
1263B-10H-4, 52	136.52	160.56	Bremen	1.852	42.202808	42.121749
1263B-10H-4, 56	136.56	160.60	Bremen	1.892	42.208906	42.126859
1263B-10H-4, 60	136.60	160.64	Bremen	1.860	42.215004	42.131968
1263B-10H-4, 64	136.64	160.68	Bremen	1.894	42.221102	42.137078
1263B-10H-4, 68	136.68	160.72	Bremen	1.649	42.227200	42.142187
1263B-10H-4, 72	136.72	160.76	Bremen	1.885	42.233298	42.147297
1263B-10H-4, 76	136.76	160.80	Bremen	1.864	42.239396	42.152406
1263B-10H-4, 80	136.80	160.84	Bremen	1.837	42.245494	42.157516
1263B-10H-4, 84	136.84	160.88	Bremen	1.862	42.251592	42.162625
1263B-10H-4, 88	136.88	160.92	Bremen	1.917	42.257691	42.167735
1263B-10H-4, 92	136.92	160.96	Bremen	1.844	42.263789	42.172844
1263B-10H-4, 96	136.96	161.00	Bremen	1.911	42.269887	42.177954
1263B-10H-4, 100	137.00	161.04	Bremen	1.858	42.275985	42.183063
1263B-10H-4, 104	137.04	161.08	Bremen	1.922	42.282083	42.188173
1263B-10H-4, 108	137.08	161.12	Bremen	1.922	42.288181	42.193283
1263B-10H-4, 112	137.12	161.16	Bremen	1.874	42.294279	42.198392
1263B-10H-4, 116	137.16	161.20	Bremen	1.874	42.300377	42.203502
1263B-10H-4, 120	137.20	161.24	Bremen	1.868	42.306475	42.208611
1263B-10H-4, 124	137.24	161.28	Bremen	1.907	42.311117	42.213721
1263B-10H-4, 128	137.28	161.32	Bremen	1.879	42.315273	42.218830
1263B-10H-4, 132	137.32	161.36	Bremen	1.940	42.319429	42.223940
1263B-10H-4, 136	137.36	161.40	Bremen	1.867	42.323584	42.229049
1263B-10H-4, 140	137.40	161.44	Bremen	1.964	42.327740	42.234159

1263B-10H-4, 144	137.44	161.48	Bremen	1.870	42.331896	42.239268
1263B-10H-4, 148	137.48	161.52	Bremen	1.937	42.336052	42.244378
1263B-10H-5, 2	137.52	161.56	Bremen	1.899	42.340208	42.249487
1263B-10H-5, 6	137.56	161.60	Bremen	1.915	42.344364	42.254597
1263B-10H-5, 10	137.60	161.64	Bremen	1.935	42.348519	42.259707
1263B-10H-5, 14	137.64	161.68	Bremen	1.924	42.352675	42.264816
1263B-10H-5, 18	137.68	161.72	Bremen	1.900	42.356831	42.269926
1263B-10H-5, 22	137.72	161.76	Bremen	1.907	42.360987	42.275035
1263B-10H-5, 26	137.76	161.80	Bremen	1.831	42.365143	42.280145
1263A-16H-1, 139	136.69	161.82	Bremen	1.814	42.367221	42.282699
1263B-10H-5, 30	137.80	161.84	Bremen	1.819	42.369299	42.285254
1263A-16H-1, 143	136.73	161.86	Bremen	1.766	42.371377	42.287809
1263B-10H-5, 34	137.84	161.88	Bremen	1.788	42.373455	42.290626
1263A-16H-1, 147	136.77	161.90	Bremen	1.796	42.375532	42.293443
1263B-10H-5, 38	137.88	161.92	Bremen	1.846	42.377610	42.296259
1263A-16H-2, 1	136.81	161.94	Bremen	1.805	42.379688	42.299076
1263B-10H-5, 42	137.92	161.96	Bremen	1.798	42.381766	42.301893
1263A-16H-2, 5	136.85	161.98	Bremen	1.834	42.383844	42.304710
1263B-10H-5, 46	137.96	162.00	Bremen	1.858	42.385922	42.307526
1263A-16H-2, 9	136.89	162.02	Bremen	1.812	42.388000	42.310343
1263A-16H-2, 13	136.93	162.06	Bremen	1.939	42.392156	42.315977
1263A-16H-2, 17	136.97	162.10	Bremen	1.869	42.396312	42.321610
1263A-16H-2, 21	137.01	162.14	Bremen	1.853	42.400468	42.327244
1263A-16H-2, 25	137.05	162.18	Bremen	2.000	42.404623	42.332877
1263A-16H-2, 29	137.09	162.22	Bremen	1.859	42.408779	42.338511
1263A-16H-2, 33	137.13	162.26	Bremen	1.964	42.412935	42.344144
1263A-16H-2, 37	137.17	162.30	Bremen	1.886	42.417091	42.349778
1263A-16H-2, 41	137.21	162.34	Bremen	1.883	42.421247	42.355411
1263A-16H-2, 45	137.25	162.38	Bremen	1.909	42.425403	42.361045
1263A-16H-2, 49	137.29	162.42	Bremen	1.914	42.429558	42.366678
1263A-16H-2, 53	137.33	162.46	Bremen	1.924	42.433714	42.372312
1263A-16H-2, 57	137.37	162.50	Bremen	2.019	42.437870	42.377945
1263A-16H-2, 61	137.41	162.54	Bremen	1.978	42.442026	42.383579
1263A-16H-2, 65	137.45	162.58	Bremen	1.990	42.446182	42.389212
1263A-16H-2, 69	137.49	162.62	Bremen	1.909	42.450338	42.394846
1263A-16H-2, 73	137.53	162.66	Bremen	2.028	42.454494	42.400479
1263A-16H-2, 77	137.57	162.70	Bremen	1.971	42.458649	42.406113
1263A-16H-2, 81	137.61	162.74	Bremen	1.998	42.462805	42.411746
1263A-16H-2, 89	137.69	162.82	Bremen	1.876	42.471117	42.423013
1263A-16H-2, 93	137.73	162.86	Bremen	1.979	42.475273	42.428647
1263A-16H-2, 97	137.77	162.90	Bremen	1.994	42.479429	42.434280
1263A-16H-2, 101	137.81	162.94	Bremen	2.053	42.483584	42.439914
1263A-16H-2, 105	137.85	162.98	Bremen	1.999	42.487740	42.445547
1263A-16H-2, 109	137.89	163.02	Bremen	2.010	42.491896	42.451181
1263A-16H-2, 113	137.93	163.06	Bremen	2.002	42.496052	42.456814
1263A-16H-2, 121	138.01	163.14	Bremen	1.996	42.504364	42.468081
1263A-16H-2, 125	138.05	163.18	Bremen	1.935	42.508519	42.473715
1263A-16H-2, 129	138.09	163.22	Bremen	1.977	42.512675	42.479348
1263A-16H-2, 133	138.13	163.26	Bremen	1.955	42.516831	42.484982
1263A-16H-2, 137	138.17	163.30	Bremen	1.900	42.520987	42.490615
1263A-16H-2, 141	138.21	163.34	Bremen	1.943	42.525143	42.496249
1263A-16H-2, 145	138.25	163.38	Bremen	1.924	42.529299	42.501882
1263A-16H-2, 149	138.29	163.42	Bremen	1.941	42.533455	42.507516
1263A-16H-3, 3	138.33	163.46	Bremen	1.851	42.537610	42.513149
1263A-16H-3, 7	138.37	163.50	Bremen	1.852	42.541766	42.518783
1263A-16H-3, 11	138.41	163.54	Bremen	1.902	42.545922	42.524416
1263A-16H-3, 15	138.45	163.58	Bremen	1.908	42.550078	42.530050
1263A-16H-3, 19	138.49	163.62	Bremen	1.902	42.554234	42.535683
1263A-16H-3, 23	138.53	163.66	Bremen	1.858	42.558390	42.541317
1263A-16H-3, 27	138.57	163.70	Bremen	1.996	42.562545	42.546951
1263A-16H-3, 31	138.61	163.74	Bremen	2.077	42.566701	42.552584
1263A-16H-3, 35	138.65	163.78	Bremen	2.017	42.570857	42.558218
1263A-16H-3, 39	138.69	163.82	Bremen	2.079	42.575013	42.563851
1263A-16H-3, 43	138.73	163.86	Bremen	2.013	42.579169	42.569485
1263A-16H-3, 47	138.77	163.90	Bremen	2.013	42.583325	42.575118
1263A-16H-3, 51	138.81	163.94	Bremen	2.013	42.587481	42.580752
1263A-16H-3, 55	138.85	163.98	Bremen	1.970	42.591636	42.586385
1263A-16H-3, 59	138.89	164.02	Bremen	2.068	42.595792	42.592019
1263A-16H-3, 63	138.93	164.06	Bremen	2.036	42.599948	42.597652
1263A-16H-3, 67	138.97	164.10	Bremen	2.079	42.604104	42.603286

1263A-16H-3, 71	139.01	164.14	Bremen	2.053	42.608260	42.608919
1263A-16H-3, 75	139.05	164.18	Bremen	2.009	42.612416	42.614553
1263A-16H-3, 79	139.09	164.22	Bremen	1.994	42.616571	42.620186
1263A-16H-3, 83	139.13	164.26	Bremen	2.018	42.620727	42.625820
1263A-16H-3, 87	139.17	164.30	Bremen	1.976	42.624883	42.631453
1263A-16H-3, 91	139.21	164.34	Bremen	1.940	42.629039	42.637087
1263A-16H-3, 95	139.25	164.38	Bremen	2.036	42.633195	42.642720
1263A-16H-3, 99	139.29	164.42	Bremen	1.945	42.637351	42.648354
1263A-16H-3, 103	139.33	164.46	Bremen	1.971	42.641506	42.653987
1263A-16H-3, 107	139.37	164.50	Bremen	1.948	42.645662	42.659621
1263A-16H-3, 111	139.41	164.54	Bremen	1.977	42.649818	42.665254
1263A-16H-3, 115	139.45	164.58	Bremen	1.957	42.653974	42.670888
1263A-16H-3, 119	139.49	164.62	Bremen	1.881	42.658130	42.676521
1263A-16H-3, 123	139.53	164.66	Bremen	1.931	42.662286	42.681596
1263A-16H-3, 127	139.57	164.70	Bremen	1.899	42.666442	42.686113
1263A-16H-3, 131	139.61	164.74	Bremen	1.985	42.670597	42.690630
1263A-16H-3, 135	139.65	164.78	Bremen	2.065	42.674753	42.695147
1263A-16H-3, 139	139.69	164.82	Bremen	2.024	42.678909	42.699663
1263A-16H-3, 143	139.73	164.86	Bremen	2.071	42.683065	42.704180
1263A-16H-3, 147	139.77	164.90	Bremen	2.041	42.687221	42.708697
1263A-16H-4, 1	139.81	164.94	Bremen	2.078	42.691377	42.713214
1263A-16H-4, 5	139.85	164.98	Bremen	2.016	42.695532	42.717731
1263A-16H-4, 9	139.89	165.02	Bremen	1.969	42.699688	42.722247
1263A-16H-4, 13	139.93	165.06	Bremen	1.963	42.703844	42.726764
1263A-16H-4, 17	139.97	165.10	Bremen	1.970	42.708000	42.731281
1263A-16H-4, 21	140.01	165.14	Bremen	1.997	42.712489	42.735798
1263A-16H-4, 29	140.09	165.22	Bremen	1.992	42.721467	42.744831
1263A-16H-4, 33	140.13	165.26	Bremen	2.028	42.725956	42.749348
1263A-16H-4, 37	140.17	165.30	Bremen	1.969	42.730444	42.753865
1263A-16H-4, 41	140.21	165.34	Bremen	2.008	42.734933	42.758382
1263A-16H-4, 45	140.25	165.38	Bremen	1.938	42.739422	42.762898
1263A-16H-4, 49	140.29	165.42	Bremen	1.947	42.743911	42.767415
1263A-16H-4, 53	140.33	165.46	Bremen	1.929	42.748400	42.771932
1263A-16H-4, 57	140.37	165.50	Bremen	1.990	42.752889	42.776449
1263A-16H-4, 61	140.41	165.54	Bremen	1.948	42.757378	42.780965
1263A-16H-4, 65	140.45	165.58	Bremen	1.961	42.761867	42.785482
1263A-16H-4, 69	140.49	165.62	Bremen	1.982	42.766356	42.789999
1263A-16H-4, 73	140.53	165.66	Bremen	1.974	42.770844	42.794516
1263A-16H-4, 77	140.57	165.70	Bremen	2.025	42.775333	42.799033
1263A-16H-4, 81	140.61	165.74	Bremen	2.093	42.779822	42.803549
1263A-16H-4, 85	140.65	165.78	Bremen	1.980	42.784311	42.808066
1263A-16H-4, 89	140.69	165.82	Bremen	2.058	42.788800	42.812583
1263A-16H-4, 93	140.73	165.86	Bremen	2.014	42.793289	42.817100
1263A-16H-4, 97	140.77	165.90	Bremen	2.041	42.797778	42.821616
1263A-16H-4, 101	140.81	165.94	Bremen	2.073	42.802267	42.826133
1263A-16H-4, 105	140.85	165.98	Bremen	2.017	42.806756	42.830650
1263A-16H-4, 109	140.89	166.02	Bremen	2.011	42.811244	42.835167
1263A-16H-4, 113	140.93	166.06	Bremen	1.949	42.815733	42.839684
1263A-16H-4, 117	140.97	166.10	Bremen	2.027	42.820222	42.844200
1263A-16H-4, 121	141.01	166.14	Bremen	1.950	42.824711	42.848717
1263A-16H-4, 125	141.05	166.18	Bremen	1.914	42.829200	42.853234
1263A-16H-4, 129	141.09	166.22	Bremen	1.974	42.833689	42.857751
1263A-16H-4, 133	141.13	166.26	Bremen	1.929	42.838178	42.862267
1263A-16H-4, 137	141.17	166.30	Bremen	1.980	42.842667	42.866784
1263A-16H-4, 141	141.21	166.34	Bremen	2.063	42.847156	42.871301
1263A-16H-4, 145	141.25	166.38	Bremen	2.027	42.851644	42.875818
1263A-16H-4, 149	141.29	166.42	Bremen	2.073	42.856133	42.880335
1263A-16H-5, 3	141.33	166.46	Bremen	2.025	42.860622	42.884851
1263A-16H-5, 7	141.37	166.50	Bremen	2.041	42.865111	42.889368
1263A-16H-5, 11	141.41	166.54	Bremen	2.095	42.869600	42.893885
1263A-16H-5, 15	141.45	166.58	Bremen	1.997	42.874089	42.898402
1263A-16H-5, 19	141.49	166.62	Bremen	1.980	42.878578	42.902918
1263A-16H-5, 23	141.53	166.66	Bremen	1.978	42.883067	42.907435
1263A-16H-5, 27	141.57	166.70	Bremen	2.033	42.887556	42.911952
1263A-16H-5, 31	141.61	166.74	Bremen	2.053	42.892044	42.916469
1263A-16H-5, 35	141.65	166.78	Bremen	2.106	42.896533	42.920986
1263A-16H-5, 39	141.69	166.82	Bremen	2.046	42.901022	42.925502
1263A-16H-5, 43	141.73	166.86	Bremen	2.043	42.905511	42.930019
1263A-16H-5, 47	141.77	166.90	Bremen	2.040	42.910000	42.934536
1263A-16H-5, 51	141.81	166.94	Bremen	2.013	42.914489	42.939053

1263A-16H-5, 55	141.85	166.98	Bremen	2.075	42.918978	42.943569
1263A-16H-5, 59	141.89	167.02	Bremen	2.057	42.923467	42.948086
1263A-16H-5, 63	141.93	167.06	Bremen	2.052	42.927956	42.952603
1263A-16H-5, 67	141.97	167.10	Bremen	2.073	42.932444	42.957120
1263A-16H-5, 71	142.01	167.14	Bremen	2.032	42.936933	42.961637
1263A-16H-5, 75	142.05	167.18	Bremen	2.068	42.941422	42.966153
1263A-16H-5, 79	142.09	167.22	Bremen	2.011	42.945911	42.970670
1263A-16H-5, 83	142.13	167.26	Bremen	2.002	42.950400	42.975187
1263A-16H-5, 87	142.17	167.30	Bremen	1.978	42.954889	42.979704
1263A-16H-5, 91	142.21	167.34	Bremen	2.050	42.959378	42.984220
1263A-16H-5, 95	142.25	167.38	Bremen	2.003	42.963867	42.988737
1263A-16H-5, 99	142.29	167.42	Bremen	1.977	42.968356	42.993254
1263A-16H-5, 103	142.33	167.46	Bremen	2.035	42.972844	42.997771
1263A-16H-5, 107	142.37	167.50	Bremen	2.037	42.977333	43.002288
1263A-16H-5, 111	142.41	167.54	Bremen	2.015	42.981822	43.006804
1263A-16H-5, 115	142.45	167.58	Bremen	1.995	42.986311	43.011321
1263A-16H-5, 119	142.49	167.62	Bremen	2.005	42.990800	43.015838
1263A-16H-5, 123	142.53	167.66	Bremen	1.985	42.995289	43.020355
1263A-16H-5, 127	142.57	167.70	Bremen	1.955	42.999778	43.024871
1263A-16H-5, 131	142.61	167.74	Bremen	1.947	43.004267	43.029388
1263A-16H-5, 135	142.65	167.78	Bremen	1.988	43.008756	43.033905
1263A-16H-5, 139	142.69	167.82	Bremen	1.915	43.013244	43.038422
1263B-11H-2, 33	142.83	167.86	Bremen	1.996	43.017733	43.042939
1263B-11H-2, 37	142.87	167.90	Bremen	1.967	43.022222	43.047455
1263A-16H-6, 1	142.81	167.94	Bremen	2.011	43.026711	43.051972
1263A-16H-6, 5	142.85	167.98	Bremen	1.930	43.031200	43.056489
1263B-11H-2, 47	142.97	168.00	Bremen	1.974	43.033444	43.058747
1263A-16H-6, 9	142.89	168.02	Bremen	1.961	43.035689	43.061006
1263B-11H-2, 51	143.01	168.04	Bremen	1.910	43.037933	43.063264
1263A-16H-6, 13	142.93	168.06	Bremen	1.977	43.040178	43.065534
1263B-11H-2, 55	143.05	168.08	Bremen	2.014	43.042422	43.067804
1263A-16H-6, 17	142.97	168.10	Bremen	1.949	43.044667	43.070074
1263B-11H-2, 59	143.09	168.12	Bremen	1.909	43.046911	43.072343
1263A-16H-6, 21	143.01	168.14	Bremen	1.891	43.049156	43.074613
1263B-11H-2, 63	143.13	168.16	Bremen	1.972	43.051400	43.076883
1263A-16H-6, 25	143.05	168.18	Bremen	1.979	43.053644	43.079153
1263B-11H-2, 67	143.17	168.20	Bremen	2.019	43.055889	43.081423
1263B-11H-2, 71	143.21	168.24	Bremen	1.971	43.060378	43.085963
1263B-11H-2, 75	143.25	168.28	Bremen	1.998	43.064867	43.090502
1263B-11H-2, 79	143.29	168.32	Bremen	1.921	43.069356	43.095042
1263B-11H-2, 83	143.33	168.36	Bremen	1.959	43.073844	43.099582
1263B-11H-2, 87	143.37	168.40	Bremen	2.003	43.078333	43.104122
1263B-11H-2, 91	143.41	168.44	Bremen	1.978	43.082822	43.108661
1263B-11H-2, 95	143.45	168.48	Bremen	1.948	43.087311	43.113201
1263B-11H-2, 99	143.49	168.52	Bremen	1.987	43.091800	43.117741
1263B-11H-2, 103	143.53	168.56	Bremen	1.995	43.096289	43.122280
1263B-11H-2, 107	143.57	168.60	Bremen	1.945	43.100778	43.126820
1263B-11H-2, 111	143.61	168.64	Bremen	1.963	43.105267	43.131360
1263B-11H-2, 115	143.65	168.68	Bremen	2.015	43.109756	43.135900
1263B-11H-2, 119	143.69	168.72	Bremen	1.954	43.114309	43.140439
1263B-11H-2, 123	143.73	168.76	Bremen	2.064	43.118926	43.144979
1263B-11H-2, 127	143.77	168.80	Bremen	2.020	43.123543	43.149519
1263B-11H-2, 131	143.81	168.84	Bremen	2.028	43.128160	43.154059
1263B-11H-2, 135	143.85	168.88	Bremen	1.949	43.132777	43.158598
1263B-11H-2, 139	143.89	168.92	Bremen	1.977	43.137394	43.163138
1263B-11H-2, 143	143.93	168.96	Bremen	2.037	43.142011	43.167678
1263B-11H-2, 147	143.97	169.00	Bremen	1.961	43.146629	43.172218
1263B-11H-3, 1	144.01	169.04	Bremen	2.051	43.151246	43.176757
1263B-11H-3, 5	144.05	169.08	Bremen	2.064	43.155863	43.181297
1263B-11H-3, 9	144.09	169.12	Bremen	2.074	43.160480	43.185837
1263B-11H-3, 13	144.13	169.16	Bremen	2.027	43.165097	43.190376
1263B-11H-3, 17	144.17	169.20	Bremen	2.015	43.169714	43.194916
1263B-11H-3, 21	144.21	169.24	Bremen	2.037	43.174331	43.199456
1263B-11H-3, 25	144.25	169.28	Bremen	1.966	43.178949	43.203996
1263B-11H-3, 29	144.29	169.32	Bremen	1.983	43.183566	43.208535
1263B-11H-3, 33	144.33	169.36	Bremen	2.018	43.188183	43.213075
1263B-11H-3, 37	144.37	169.40	Bremen	2.035	43.192800	43.217615
1263B-11H-3, 41	144.41	169.44	Bremen	1.982	43.197417	43.222155
1263B-11H-3, 45	144.45	169.48	Bremen	2.014	43.202034	43.226694
1263B-11H-3, 49	144.49	169.52	Bremen	2.003	43.206651	43.231234

1263B-11H-3, 53	144.53	169.56	Bremen	2.051	43.211269	43.235774
1263B-11H-3, 57	144.57	169.60	Bremen	1.986	43.215886	43.240313
1263B-11H-3, 61	144.61	169.64	Bremen	2.025	43.220503	43.244853
1263B-11H-3, 65	144.65	169.68	Bremen	2.030	43.225120	43.249393
1263B-11H-3, 69	144.69	169.72	Bremen	2.046	43.229737	43.253933
1263B-11H-3, 73	144.73	169.76	Bremen	2.107	43.234354	43.258472
1263B-11H-3, 77	144.77	169.80	Bremen	2.068	43.238971	43.263012
1263B-11H-3, 81	144.81	169.84	Bremen	2.138	43.243589	43.267552
1263B-11H-3, 85	144.85	169.88	Bremen	2.068	43.248206	43.272092
1263B-11H-3, 89	144.89	169.92	Bremen	2.102	43.252823	43.276631
1263B-11H-3, 93	144.93	169.96	Bremen	2.113	43.257440	43.281171
1263B-11H-3, 97	144.97	170.00	Bremen	2.045	43.262057	43.285711
1263B-11H-3, 101	145.01	170.04	Bremen	2.115	43.266674	43.290251
1263B-11H-3, 105	145.05	170.08	Bremen	2.144	43.271291	43.294790
1263B-11H-3, 109	145.09	170.12	Bremen	2.167	43.275909	43.299330
1263B-11H-3, 113	145.13	170.16	Bremen	2.083	43.280526	43.303870
1263B-11H-3, 117	145.17	170.20	Bremen	2.103	43.285143	43.308409
1263B-11H-3, 121	145.21	170.24	Bremen	2.113	43.289760	43.312949
1263B-11H-3, 125	145.25	170.28	Bremen	2.053	43.294377	43.317489
1263B-11H-3, 129	145.29	170.32	Bremen	2.097	43.298994	43.322029
1263B-11H-3, 133	145.33	170.36	Bremen	2.023	43.303611	43.326568
1263B-11H-3, 137	145.37	170.40	Bremen	2.141	43.308229	43.331108
1263B-11H-3, 141	145.41	170.44	Bremen	2.115	43.312846	43.335648
1263B-11H-3, 145	145.45	170.48	Bremen	2.186	43.317463	43.340188
1263B-11H-3, 149	145.49	170.52	Bremen	2.148	43.322080	43.344727
1263B-11H-4, 3	145.53	170.56	Bremen	2.108	43.326697	43.349267
1263B-11H-4, 7	145.57	170.60	Bremen	2.165	43.331314	43.353807
1263B-11H-4, 11	145.61	170.64	Bremen	2.101	43.335931	43.358346
1263B-11H-4, 15	145.65	170.68	Bremen	2.107	43.340549	43.362886
1263B-11H-4, 19	145.69	170.72	Bremen	2.118	43.345166	43.367426
1263B-11H-4, 23	145.73	170.76	Bremen	2.070	43.349783	43.371966
1263B-11H-4, 27	145.77	170.80	Bremen	2.118	43.354400	43.376505
1263B-11H-4, 31	145.81	170.84	Bremen	2.028	43.359017	43.381045
1263B-11H-4, 35	145.85	170.88	Bremen	2.041	43.363634	43.385585
1263B-11H-4, 39	145.89	170.92	Bremen	2.017	43.368251	43.390125
1263B-11H-4, 43	145.93	170.96	Bremen	2.019	43.372869	43.394664
1263B-11H-4, 47	145.97	171.00	Bremen	2.052	43.377486	43.399204
1263B-11H-4, 51	146.01	171.04	Bremen	1.998	43.382103	43.403744
1263B-11H-4, 55	146.05	171.08	Bremen	2.087	43.386720	43.408283
1263B-11H-4, 59	146.09	171.12	Bremen	2.022	43.391337	43.412823
1263B-11H-4, 63	146.13	171.16	Bremen	2.088	43.395954	43.417363
1263B-11H-4, 67	146.17	171.20	Bremen	2.059	43.400571	43.421903
1263B-11H-4, 71	146.21	171.24	Bremen	2.045	43.405189	43.426442
1263B-11H-4, 75	146.25	171.28	Bremen	2.063	43.409806	43.430982
1263B-11H-4, 79	146.29	171.32	Bremen	2.054	43.414423	43.435522
1263B-11H-4, 83	146.33	171.36	Bremen	2.113	43.419040	43.440062
1263B-11H-4, 87	146.37	171.40	Bremen	2.061	43.423657	43.444601
1263B-11H-4, 91	146.41	171.44	Bremen	2.051	43.428274	43.449141
1263B-11H-4, 95	146.45	171.48	Bremen	2.066	43.432891	43.453681
1263B-11H-4, 99	146.49	171.52	Bremen	2.039	43.437509	43.458221
1263B-11H-4, 103	146.53	171.56	Bremen	2.063	43.442126	43.462760
1263B-11H-4, 107	146.57	171.60	Bremen	2.068	43.446743	43.467300
1263B-11H-4, 111	146.61	171.64	Bremen	2.103	43.451360	43.471840
1263B-11H-4, 115	146.65	171.68	Bremen	2.058	43.455977	43.476379
1263B-11H-4, 119	146.69	171.72	Bremen	2.011	43.460594	43.480919
1263B-11H-4, 123	146.73	171.76	Bremen	2.047	43.465211	43.485459
1263B-11H-4, 127	146.77	171.80	Bremen	1.953	43.469829	43.489999
1263B-11H-4, 131	146.81	171.84	Bremen	1.971	43.474446	43.494538
1263B-11H-4, 135	146.85	171.88	Bremen	1.898	43.479063	43.499078
1263B-11H-4, 139	146.89	171.92	Bremen	1.969	43.483680	43.503618
1263B-11H-4, 143	146.93	171.96	Bremen	1.826	43.488297	43.508158
1263B-11H-4, 147	146.97	172.00	Bremen	1.872	43.492914	43.512697
1263B-11H-5, 1	147.01	172.04	Bremen	1.832	43.497531	43.517237
1263B-11H-5, 5	147.05	172.08	Bremen	1.791	43.502149	43.521777
1263B-11H-5, 9	147.09	172.12	Bremen	1.875	43.506766	43.526316
1263B-11H-5, 13	147.13	172.16	Bremen	1.855	43.511383	43.530856
1263B-11H-5, 17	147.17	172.20	Bremen	1.949	43.516000	43.535396
1263B-11H-5, 21	147.21	172.24	Bremen	1.945	43.520994	43.539936
1263B-11H-5, 25	147.25	172.28	Bremen	1.989	43.525988	43.544475
1263B-11H-5, 29	147.29	172.32	Bremen	2.008	43.530982	43.549015

1263B-11H-5, 33	147.33	172.36	Bremen	1.991	43.535976	43.553555
1263B-11H-5, 37	147.37	172.40	Bremen	2.063	43.540970	43.558095
1263B-11H-5, 41	147.41	172.44	Bremen	1.966	43.545964	43.562634
1263B-11H-5, 45	147.45	172.48	Bremen	2.017	43.550958	43.567174
1263B-11H-5, 49	147.49	172.52	Bremen	2.021	43.555952	43.571714
1263B-11H-5, 53	147.53	172.56	Bremen	2.002	43.560945	43.576254
1263B-11H-5, 57	147.57	172.60	Bremen	2.013	43.565939	43.580793
1263B-11H-5, 61	147.61	172.64	Bremen	2.009	43.570933	43.585333
1263B-11H-5, 65	147.65	172.68	Bremen	1.989	43.575927	43.589873
1263B-11H-5, 69	147.69	172.72	Bremen	1.945	43.580921	43.594412
1263B-11H-5, 73	147.73	172.76	Bremen	1.886	43.585915	43.598952
1263B-11H-5, 77	147.77	172.80	Bremen	1.898	43.590909	43.603492
1263B-11H-5, 81	147.81	172.84	Bremen	1.928	43.595903	43.608032
1263B-11H-5, 85	147.85	172.88	Bremen	1.883	43.600897	43.612571
1263B-11H-5, 89	147.89	172.92	Bremen	1.819	43.605891	43.617111
1263B-11H-5, 93	147.93	172.96	Bremen	1.848	43.610885	43.621603
1263B-11H-5, 97	147.97	173.00	Bremen	1.828	43.615879	43.626078
1263B-11H-5, 101	148.01	173.04	Bremen	1.855	43.620873	43.630554
1263B-11H-5, 105	148.05	173.08	Bremen	1.894	43.625867	43.635030
1263B-11H-5, 109	148.09	173.12	Bremen	1.914	43.630861	43.639505
1263B-11H-5, 113	148.13	173.16	Bremen	1.942	43.635855	43.643981
1263B-11H-5, 117	148.17	173.20	Bremen	2.053	43.640848	43.648457
1263B-11H-5, 121	148.21	173.24	Bremen	2.021	43.645842	43.652932
1263B-11H-5, 125	148.25	173.28	Bremen	2.054	43.650836	43.657408
1263B-11H-5, 129	148.29	173.32	Bremen	2.031	43.655830	43.661884
1263B-11H-5, 133	148.33	173.36	Bremen	2.081	43.660824	43.666359
1263B-11H-5, 137	148.37	173.40	Bremen	2.044	43.665818	43.670835
1263B-11H-5, 141	148.41	173.44	Bremen	2.118	43.670812	43.675311
1263B-11H-5, 145	148.45	173.48	Bremen	2.101	43.675806	43.679786
1263B-11H-5, 149	148.49	173.52	Bremen	2.076	43.680800	43.684262
1263B-11H-6, 3	148.53	173.56	Bremen	2.065	43.685794	43.688738
1263B-11H-6, 7	148.57	173.60	Bremen	2.043	43.690788	43.693213
1263B-11H-6, 11	148.61	173.64	Bremen	2.075	43.695782	43.697689
1263B-11H-6, 15	148.65	173.68	Bremen	1.990	43.700776	43.702165
1263B-11H-6, 19	148.69	173.72	Bremen	1.987	43.705770	43.706640
1263B-11H-6, 23	148.73	173.76	Bremen	1.946	43.710764	43.711116
1263B-11H-6, 27	148.77	173.80	Bremen	1.964	43.715758	43.715592
1263B-11H-6, 31	148.81	173.84	Bremen	2.017	43.720752	43.720067
1263B-11H-6, 35	148.85	173.88	Bremen	1.957	43.725745	43.724543
1263B-11H-6, 39	148.89	173.92	Bremen	1.978	43.730739	43.729019
1263B-11H-6, 43	148.93	173.96	Bremen	2.009	43.735733	43.733494
1263B-11H-6, 47	148.97	174.00	Bremen	1.941	43.740727	43.737970
1263B-11H-6, 51	149.01	174.04	Bremen	2.012	43.745721	43.742446
1263B-11H-6, 55	149.05	174.08	Bremen	1.960	43.750715	43.746921
1263B-11H-6, 59	149.09	174.12	Bremen	1.953	43.755709	43.751397
1263B-11H-6, 63	149.13	174.16	Bremen	1.902	43.760703	43.755873
1263B-11H-6, 67	149.17	174.20	Bremen	1.925	43.765697	43.760348
1263B-11H-6, 71	149.21	174.24	Bremen	1.926	43.770691	43.764824
1263A-17H-3, 12	147.92	174.26	Bremen	1.989	43.773188	43.767062
1263B-11H-6, 75	149.25	174.28	Bremen	1.944	43.775685	43.769300
1263A-17H-3, 16	147.96	174.30	Bremen	1.964	43.778182	43.771537
1263B-11H-6, 79	149.29	174.32	Bremen	2.051	43.780679	43.773775
1263A-17H-3, 20	148.00	174.34	Bremen	2.011	43.783176	43.776013
1263B-11H-6, 83	149.33	174.36	Bremen	1.967	43.785673	43.778251
1263A-17H-3, 24	148.04	174.38	Bremen	1.926	43.788170	43.780489
1263B-11H-6, 87	149.37	174.40	Bremen	1.997	43.790667	43.782727
1263A-17H-3, 28	148.08	174.42	Bremen	1.973	43.793164	43.784964
1263A-17H-3, 32	148.12	174.46	Bremen	1.877	43.798158	43.789440
1263A-17H-3, 36	148.16	174.50	Bremen	1.873	43.803152	43.793916
1263A-17H-3, 40	148.20	174.54	Bremen	1.911	43.808145	43.798391
1263A-17H-3, 44	148.24	174.58	Bremen	1.871	43.813139	43.802867
1263A-17H-3, 48	148.28	174.62	Bremen	1.998	43.818133	43.807343
1263A-17H-3, 52	148.32	174.66	Bremen	1.921	43.823127	43.811818
1263A-17H-3, 56	148.36	174.70	Bremen	2.037	43.828121	43.816294
1263A-17H-3, 60	148.40	174.74	Bremen	2.138	43.833115	43.820770
1263A-17H-3, 64	148.44	174.78	Bremen	1.992	43.838109	43.825245
1263A-17H-3, 68	148.48	174.82	Bremen	2.014	43.843103	43.829721
1263A-17H-3, 72	148.52	174.86	Bremen	2.002	43.848097	43.834197
1263A-17H-3, 76	148.56	174.90	Bremen	2.021	43.853091	43.838672
1263A-17H-3, 80	148.60	174.94	Bremen	2.002	43.858085	43.843148

1263A-17H-3, 84	148.64	174.98	Bremen	1.953	43.863079	43.847624
1263A-17H-3, 88	148.68	175.02	Bremen	1.983	43.868073	43.852099
1263A-17H-3, 92	148.72	175.06	Bremen	1.981	43.873067	43.856575
1263A-17H-3, 96	148.76	175.10	Bremen	1.949	43.878061	43.861051
1263A-17H-3, 100	148.80	175.14	Bremen	1.844	43.883055	43.865526
1263A-17H-3, 104	148.84	175.18	Bremen	1.866	43.888048	43.870002
1263A-17H-3, 108	148.88	175.22	Bremen	1.921	43.893042	43.874478
1263A-17H-3, 112	148.92	175.26	Bremen	1.873	43.898036	43.878953
1263A-17H-3, 116	148.96	175.30	Bremen	1.817	43.903030	43.883429
1263A-17H-3, 120	149.00	175.34	Bremen	1.777	43.908024	43.887905
1263A-17H-3, 124	149.04	175.38	Bremen	1.778	43.913018	43.892380
1263A-17H-3, 128	149.08	175.42	Bremen	1.717	43.918012	43.896897
1263A-17H-3, 132	149.12	175.46	Bremen	1.813	43.923006	43.901538
1263A-17H-3, 136	149.16	175.50	Bremen	1.763	43.928000	43.906179
1263A-17H-3, 140	149.20	175.54	Bremen	1.811	43.932800	43.910820
1263A-17H-3, 144	149.24	175.58	Bremen	1.933	43.937600	43.915462
1263A-17H-3, 148	149.28	175.62	Bremen	1.859	43.942400	43.920103
1263A-17H-4, 2	149.32	175.66	Bremen	1.926	43.947200	43.924744
1263A-17H-4, 6	149.36	175.70	Bremen	1.917	43.952000	43.929385
1263A-17H-4, 10	149.40	175.74	Bremen	1.949	43.956800	43.934026
1263A-17H-4, 14	149.44	175.78	Bremen	1.936	43.961600	43.938667
1263A-17H-4, 18	149.48	175.82	Bremen	1.936	43.966400	43.943308
1263A-17H-4, 22	149.52	175.86	Bremen	1.950	43.971200	43.947949
1263A-17H-4, 26	149.56	175.90	Bremen	1.902	43.976000	43.952590
1263A-17H-4, 30	149.60	175.94	Bremen	1.971	43.980800	43.957231
1263A-17H-4, 34	149.64	175.98	Bremen	1.975	43.985600	43.961872
1263A-17H-4, 38	149.68	176.02	Bremen	1.918	43.990400	43.966513
1263A-17H-4, 42	149.72	176.06	Bremen	1.872	43.995200	43.971154
1263A-17H-4, 46	149.76	176.10	Bremen	1.885	44.000000	43.975795
1263A-17H-4, 50	149.80	176.14	Bremen	1.903	44.004800	43.980436
1263A-17H-4, 54	149.84	176.18	Bremen	1.898	44.009600	43.985077
1263A-17H-4, 58	149.88	176.22	Bremen	1.865	44.014400	43.989718
1263A-17H-4, 62	149.92	176.26	Bremen	1.924	44.019200	43.994359
1263A-17H-4, 66	149.96	176.30	Bremen	1.845	44.024000	43.999001
1263A-17H-4, 70	150.00	176.34	Bremen	1.901	44.028800	44.003642
1263A-17H-4, 74	150.04	176.38	Bremen	1.894	44.033600	44.008283
1263A-17H-4, 78	150.08	176.42	Bremen	1.962	44.038400	44.012924
1263A-17H-4, 82	150.12	176.46	Bremen	2.029	44.043200	44.017565
1263A-17H-4, 86	150.16	176.50	Bremen	1.996	44.048000	44.022206
1263A-17H-4, 90	150.20	176.54	Bremen	1.995	44.052800	44.026847
1263A-17H-4, 94	150.24	176.58	Bremen	1.958	44.057600	44.031488
1263A-17H-4, 98	150.28	176.62	Bremen	1.983	44.062400	44.036129
1263A-17H-4, 102	150.32	176.66	Bremen	1.996	44.067200	44.040770
1263A-17H-4, 106	150.36	176.70	Bremen	1.936	44.072000	44.045411
1263A-17H-4, 110	150.40	176.74	Bremen	1.980	44.076800	44.050052
1263A-17H-4, 114	150.44	176.78	Bremen	1.962	44.081600	44.054693
1263A-17H-4, 118	150.48	176.82	Bremen	1.978	44.086400	44.059334
1263A-17H-4, 122	150.52	176.86	Bremen	1.909	44.091200	44.063975
1263A-17H-4, 126	150.56	176.90	Bremen	1.910	44.096000	44.068616
1263A-17H-4, 130	150.60	176.94	Bremen	1.952	44.100800	44.073257
1263A-17H-4, 134	150.64	176.98	Bremen	1.917	44.105600	44.077899
1263A-17H-4, 138	150.68	177.02	Bremen	1.989	44.110400	44.082540
1263A-17H-4, 142	150.72	177.06	Bremen	1.914	44.115200	44.087181
1263A-17H-4, 146	150.76	177.10	Bremen	2.022	44.120000	44.091822
1263A-17H-4, 149	150.79	177.13	Bremen	2.028	44.123600	44.095303
1263A-17H-5, 4	150.84	177.18	Bremen	1.933	44.129600	44.101104
1263A-17H-5, 8	150.88	177.22	Bremen	1.993	44.134400	44.105745
1263A-17H-5, 12	150.92	177.26	Bremen	1.943	44.139200	44.110386
1263A-17H-5, 16	150.96	177.30	Bremen	1.930	44.144000	44.115027
1263A-17H-5, 20	151.00	177.34	Bremen	1.898	44.148800	44.119668
1263A-17H-5, 24	151.04	177.38	Bremen	1.894	44.153600	44.124309
1263A-17H-5, 28	151.08	177.42	Bremen	1.854	44.158400	44.128950
1263A-17H-5, 32	151.12	177.46	Bremen	1.866	44.163200	44.133591
1263A-17H-5, 36	151.16	177.50	Bremen	1.893	44.168000	44.138232
1263A-17H-5, 40	151.20	177.54	Bremen	1.904	44.172800	44.142873
1263A-17H-5, 44	151.24	177.58	Bremen	1.901	44.177600	44.147514
1263A-17H-5, 48	151.28	177.62	Bremen	1.892	44.182400	44.152155
1263A-17H-5, 52	151.32	177.66	Bremen	1.912	44.187200	44.156797
1263A-17H-5, 56	151.36	177.70	Bremen	1.931	44.192000	44.161438
1263A-17H-5, 60	151.40	177.74	Bremen	1.889	44.196800	44.166079

1263A-17H-5, 64	151.44	177.78	Bremen	1.910	44.201600	44.170720
1263A-17H-5, 68	151.48	177.82	Bremen	1.910	44.206400	44.175361
1263A-17H-5, 72	151.52	177.86	Bremen	1.930	44.211200	44.180002
1263A-17H-5, 76	151.56	177.90	Bremen	1.932	44.216000	44.184643
1263A-17H-5, 80	151.60	177.94	Bremen	1.921	44.220800	44.189284
1263A-17H-5, 84	151.64	177.98	Bremen	1.894	44.225600	44.193925
1263A-17H-5, 88	151.68	178.02	Bremen	1.903	44.230400	44.198566
1263A-17H-5, 92	151.72	178.06	Bremen	1.933	44.235200	44.203207
1263A-17H-5, 96	151.76	178.10	Bremen	1.902	44.240000	44.207848
1263A-17H-5, 100	151.80	178.14	Bremen	1.931	44.244800	44.212489
1263A-17H-5, 104	151.84	178.18	Bremen	1.886	44.249600	44.217130
1263A-17H-5, 108	151.88	178.22	Bremen	1.937	44.254400	44.221771
1263A-17H-5, 112	151.92	178.26	Bremen	1.860	44.259200	44.226412
1263A-17H-5, 116	151.96	178.30	Bremen	1.871	44.264000	44.231053
1263A-17H-5, 120	152.00	178.34	Bremen	1.856	44.268800	44.235695
1263A-17H-5, 124	152.04	178.38	Bremen	1.871	44.273600	44.240336
1263A-17H-5, 128	152.08	178.42	Bremen	1.926	44.278400	44.244977
1263A-17H-5, 132	152.12	178.46	Bremen	1.802	44.283200	44.249618
1263A-17H-5, 136	152.16	178.50	Bremen	1.830	44.288000	44.254259
1263A-17H-5, 139	152.19	178.53	Bremen	1.846	44.291600	44.257740
1263B-12H-2, 36	152.36	178.56	Bremen	1.810	44.295200	44.261220
1263B-12H-2, 40	152.40	178.60	Bremen	1.797	44.300000	44.265861
1263B-12H-2, 44	152.44	178.64	Bremen	1.848	44.304800	44.270502
1263A-17H-6, 2	152.32	178.66	Bremen	1.790	44.307200	44.272823
1263B-12H-2, 48	152.48	178.68	Bremen	1.811	44.309600	44.275144
1263A-17H-6, 6	152.36	178.70	Bremen	1.811	44.312000	44.277464
1263B-12H-2, 52	152.52	178.72	Bremen	1.816	44.314400	44.279785
1263A-17H-6, 10	152.40	178.74	Bremen	1.770	44.316800	44.282105
1263B-12H-2, 56	152.56	178.76	Bremen	1.728	44.319200	44.284426
1263A-17H-6, 14	152.44	178.78	Bremen	1.773	44.321600	44.286746
1263B-12H-2, 60	152.60	178.80	Bremen	1.717	44.324000	44.289067
1263B-12H-2, 64	152.64	178.84	Bremen	1.733	44.328800	44.293708
1263B-12H-2, 68	152.68	178.88	Bremen	1.684	44.333600	44.298382
1263B-12H-2, 72	152.72	178.92	Bremen	1.711	44.337971	44.303066
1263B-12H-2, 76	152.76	178.96	Bremen	1.819	44.341912	44.307751
1263B-12H-2, 80	152.80	179.00	Bremen	1.828	44.345854	44.312436
1263B-12H-2, 84	152.84	179.04	Bremen	1.849	44.349795	44.317121
1263B-12H-2, 88	152.88	179.08	Bremen	1.856	44.353737	44.321806
1263B-12H-2, 92	152.92	179.12	Bremen	1.884	44.357678	44.326490
1263B-12H-2, 96	152.96	179.16	Bremen	1.873	44.361620	44.331175
1263B-12H-2, 100	153.00	179.20	Bremen	1.896	44.365561	44.335860
1263B-12H-2, 104	153.04	179.24	Bremen	1.916	44.369502	44.340545
1263B-12H-2, 108	153.08	179.28	Bremen	1.896	44.373444	44.345229
1263B-12H-2, 112	153.12	179.32	Bremen	1.934	44.377385	44.349914
1263B-12H-2, 116	153.16	179.36	Bremen	1.895	44.381327	44.354599
1263B-12H-2, 120	153.20	179.40	Bremen	1.848	44.385268	44.359284
1263B-12H-2, 124	153.24	179.44	Bremen	1.899	44.389210	44.363969
1263B-12H-2, 128	153.28	179.48	Bremen	1.876	44.393151	44.368653
1263B-12H-2, 132	153.32	179.52	Bremen	1.829	44.397093	44.373338
1263B-12H-2, 136	153.36	179.56	Bremen	1.765	44.401034	44.378023
1263B-12H-2, 140	153.40	179.60	Bremen	1.870	44.404976	44.382708
1263B-12H-2, 144	153.44	179.64	Bremen	1.899	44.408917	44.387392
1263B-12H-2, 148	153.48	179.68	Bremen	1.878	44.412859	44.392077
1263B-12H-3, 2	153.52	179.72	Bremen	1.796	44.416800	44.396762
1263B-12H-3, 6	153.56	179.76	Bremen	1.859	44.420741	44.401447
1263B-12H-3, 10	153.60	179.80	Bremen	1.883	44.424683	44.406132
1263B-12H-3, 14	153.64	179.84	Bremen	1.859	44.428624	44.410816
1263B-12H-3, 18	153.68	179.88	Bremen	1.809	44.432566	44.415501
1263B-12H-3, 22	153.72	179.92	Bremen	1.835	44.436507	44.420186
1263B-12H-3, 26	153.76	179.96	Bremen	1.875	44.440449	44.424871
1263B-12H-3, 30	153.80	180.00	Bremen	1.890	44.444390	44.429556
1263B-12H-3, 34	153.84	180.04	Bremen	1.900	44.448332	44.434240
1263B-12H-3, 38	153.88	180.08	Bremen	1.879	44.452273	44.438925
1263B-12H-3, 42	153.92	180.12	Bremen	1.891	44.456215	44.443610
1263B-12H-3, 46	153.96	180.16	Bremen	1.883	44.460156	44.448295
1263B-12H-3, 50	154.00	180.20	Bremen	1.871	44.464098	44.452979
1263B-12H-3, 54	154.04	180.24	Bremen	1.888	44.468039	44.457664
1263B-12H-3, 58	154.08	180.28	Bremen	1.866	44.471980	44.462349
1263B-12H-3, 62	154.12	180.32	Bremen	1.891	44.475922	44.467034
1263B-12H-3, 66	154.16	180.36	Bremen	1.878	44.479863	44.471719

1263B-12H-3, 70	154.20	180.40	Bremen	1.812	44.483805	44.476403
1263B-12H-3, 74	154.24	180.44	Bremen	1.848	44.487746	44.481088
1263B-12H-3, 78	154.28	180.48	Bremen	1.851	44.491688	44.485773
1263B-12H-3, 82	154.32	180.52	Bremen	1.854	44.495629	44.490458
1263B-12H-4, 1	154.36	180.56	Bremen	1.847	44.499571	44.495143
1263B-12H-4, 5	154.40	180.60	Bremen	1.835	44.503512	44.499827
1263B-12H-4, 9	154.44	180.64	Bremen	1.868	44.507454	44.504512
1263B-12H-4, 13	154.48	180.68	Bremen	1.817	44.511395	44.509197
1263B-12H-4, 17	154.52	180.72	Bremen	1.815	44.515337	44.513882
1263B-12H-4, 21	154.56	180.76	Bremen	1.781	44.519278	44.518566
1263B-12H-4, 25	154.60	180.80	Bremen	1.895	44.523220	44.523251
1263B-12H-4, 29	154.64	180.84	Bremen	1.910	44.527161	44.527936
1263B-12H-4, 33	154.68	180.88	Bremen	1.894	44.531102	44.532621
1263B-12H-4, 37	154.72	180.92	Bremen	1.985	44.535044	44.537306
1263B-12H-4, 41	154.76	180.96	Bremen	1.936	44.538985	44.541990
1263B-12H-4, 45	154.80	181.00	Bremen	1.876	44.542927	44.546675
1263B-12H-4, 49	154.84	181.04	Bremen	1.911	44.546868	44.551360
1263B-12H-4, 53	154.88	181.08	Bremen	1.918	44.550810	44.556045
1263B-12H-4, 57	154.92	181.12	Bremen	1.968	44.554751	44.560729
1263B-12H-4, 61	154.96	181.16	Bremen	1.942	44.558693	44.565414
1263B-12H-4, 65	154.99	181.19	Bremen	1.969	44.561649	44.568928
1263B-12H-4, 69	155.04	181.24	Bremen	1.916	44.566576	44.574784
1263B-12H-4, 73	155.08	181.28	Bremen	1.893	44.570517	44.579469
1263B-12H-4, 77	155.12	181.32	Bremen	1.932	44.574459	44.584153
1263B-12H-4, 81	155.16	181.36	Bremen	1.889	44.578400	44.588838
1263B-12H-4, 84	155.19	181.39	Bremen	1.937	44.581356	44.592352
1263B-12H-5, 4	155.24	181.44	Bremen	1.903	44.586283	44.598208
1263B-12H-5, 8	155.28	181.48	Bremen	1.916	44.590224	44.602893
1263B-12H-5, 12	155.32	181.52	Bremen	1.934	44.594166	44.607577
1263B-12H-5, 16	155.36	181.56	Bremen	1.938	44.598107	44.612262
1263B-12H-5, 20	155.40	181.60	Bremen	1.960	44.602049	44.616947
1263B-12H-5, 24	155.44	181.64	Bremen	1.932	44.605990	44.621632
1263B-12H-5, 28	155.48	181.68	Bremen	1.925	44.609932	44.626316
1263B-12H-5, 32	155.52	181.72	Bremen	1.946	44.613873	44.631001
1263A-18H-1, 0	154.30	181.76	Santa Cruz	2.002	44.617815	44.635686
1263B-12H-5, 36	155.56	181.76	Bremen	1.923	44.617815	44.635686
1263B-12H-5, 40	155.60	181.80	Bremen	1.952	44.621756	44.640371
1263B-12H-5, 44	155.64	181.84	Bremen	1.928	44.625698	44.645056
1263A-18H-1, 10	154.40	181.86	Santa Cruz	1.952	44.627668	44.647398
1263B-12H-5, 48	155.68	181.88	Bremen	1.933	44.629639	44.649740
1263B-12H-5, 52	155.72	181.92	Bremen	1.869	44.633580	44.654425
1263A-18H-1, 20	154.50	181.95	Santa Cruz	1.972	44.636537	44.657939
1263B-12H-5, 56	155.76	181.96	Bremen	1.914	44.637522	44.659110
1263B-12H-5, 60	155.80	182.00	Bremen	1.818	44.641463	44.663795
1263A-18H-1, 30	154.60	182.05	Santa Cruz	1.742	44.646390	44.669651
1263A-18H-1, 40	154.70	182.15	Santa Cruz	1.941	44.656244	44.681363
1263A-18H-1, 50	154.80	182.25	Santa Cruz	1.949	44.666098	44.693075
1263A-18H-1, 70	155.00	182.44	Santa Cruz	1.962	44.684820	44.715327
1263A-18H-1, 80	155.10	182.54	Santa Cruz	1.973	44.694673	44.727039
1263A-18H-1, 90	155.20	182.64	Santa Cruz	1.946	44.704527	44.738751
1263A-18H-1, 100	155.30	182.74	Santa Cruz	1.942	44.714380	44.750463
1263A-18H-1, 110	155.40	182.84	Santa Cruz	2.016	44.724234	44.762175
1263A-18H-1, 120	155.50	182.94	Santa Cruz	1.965	44.734088	44.773887
1263A-18H-1, 130	155.60	183.04	Santa Cruz	1.985	44.744324	44.785599
1263A-18H-1, 140	155.70	183.14	Santa Cruz	1.982	44.755135	44.797311
1263A-18H-2, 0	155.80	183.24	Santa Cruz	1.872	44.765946	44.809023
1263A-18H-2, 10	155.90	183.34	Santa Cruz	1.895	44.776757	44.820735
1263A-18H-2, 20	156.00	183.44	Santa Cruz	1.792	44.787568	44.832447
1263A-18H-2, 30	156.10	183.54	Santa Cruz	1.932	44.798378	44.844159
1263A-18H-2, 40	156.20	183.64	Santa Cruz	1.893	44.809189	44.855871
1263A-18H-2, 50	156.30	183.74	Santa Cruz	1.901	44.820000	44.867583
1263A-18H-2, 60	156.40	183.84	Santa Cruz	1.955	44.830811	44.879295
1263A-18H-2, 70	156.50	183.94	Santa Cruz	1.955	44.841622	44.891007
1263A-18H-2, 80	156.60	184.04	Santa Cruz	1.989	44.852432	44.902719
1263A-18H-2, 90	156.70	184.14	Santa Cruz	1.837	44.863243	44.914431
1263A-18H-2, 100	156.80	184.24	Santa Cruz	1.965	44.874054	44.926143
1263A-18H-2, 110	156.90	184.34	Santa Cruz	1.951	44.884865	44.937855
1263A-18H-2, 120	157.00	184.44	Santa Cruz	1.970	44.895676	44.949567
1263A-18H-2, 130	157.10	184.54	Santa Cruz	1.942	44.906486	44.961278
1263A-18H-2, 140	157.20	184.64	Santa Cruz	1.965	44.917297	44.972990

1263A-18H-3, 0	157.30	184.74	Santa Cruz	1.987	44.928108	44.984702
1263A-18H-3, 10	157.40	184.84	Santa Cruz	1.976	44.938919	44.996414
1263A-18H-3, 20	157.50	184.94	Santa Cruz	2.040	44.949730	45.008126
1263A-18H-3, 30	157.60	185.04	Santa Cruz	1.999	44.960541	45.019838
1263A-18H-3, 40	157.70	185.14	Santa Cruz	1.965	44.971351	45.031550
1263A-18H-3, 50	157.80	185.24	Santa Cruz	1.994	44.982162	45.043262
1263A-18H-3, 60	157.90	185.34	Santa Cruz	1.767	44.992973	45.054974
1263A-18H-3, 70	158.00	185.44	Santa Cruz	1.713	45.003784	45.066686
1263A-18H-3, 80	158.10	185.54	Santa Cruz	1.783	45.014595	45.078398
1263A-18H-3, 90	158.20	185.64	Santa Cruz	1.922	45.025405	45.090110
1263A-18H-3, 100	158.30	185.74	Santa Cruz	1.923	45.036216	45.101822
1263A-18H-3, 110	158.40	185.84	Santa Cruz	1.936	45.047027	45.113534
1263A-18H-3, 120	158.50	185.94	Santa Cruz	1.968	45.057838	45.125246
1263A-18H-3, 130	158.60	186.04	Santa Cruz	1.936	45.068649	45.136958
1263A-18H-4, 0	158.80	186.24	Santa Cruz	1.946	45.090270	45.160382
1263A-18H-4, 10	158.90	186.34	Santa Cruz	1.940	45.101081	45.167375
1263A-18H-4, 20	159.00	186.44	Santa Cruz	1.977	45.111892	45.173844
1263A-18H-4, 30	159.10	186.54	Santa Cruz	1.905	45.122703	45.180314
1263A-18H-4, 60	159.40	186.84	Santa Cruz	1.901	45.150370	45.199721
1263A-18H-4, 70	159.50	186.94	Santa Cruz	1.862	45.157778	45.206190
1263A-18H-4, 80	159.60	187.04	Santa Cruz	1.891	45.165185	45.212660
1263A-18H-4, 90	159.70	187.14	Santa Cruz	1.841	45.172593	45.219129
1263A-18H-4, 100	159.80	187.24	Santa Cruz	1.919	45.180000	45.225598
1263A-18H-4, 110	159.90	187.34	Santa Cruz	1.788	45.187407	45.232067
1263A-18H-4, 130	160.10	187.54	Santa Cruz	1.986	45.202222	45.245005
1263A-18H-4, 140	160.20	187.64	Santa Cruz	2.006	45.209630	45.251475
1263A-18H-5, 0	160.30	187.74	Santa Cruz	2.089	45.217037	45.257944
1263A-18H-5, 10	160.40	187.84	Santa Cruz	1.976	45.224444	45.264413
1263A-18H-5, 20	160.50	187.94	Santa Cruz	2.050	45.231852	45.270882
1263A-18H-5, 30	160.60	188.04	Santa Cruz	2.032	45.239259	45.277351
1263A-18H-5, 40	160.70	188.14	Santa Cruz	1.960	45.246667	45.283820
1263A-18H-5, 50	160.80	188.24	Santa Cruz	2.017	45.254074	45.290290
1263A-18H-5, 60	160.90	188.34	Santa Cruz	2.029	45.261481	45.296759
1263A-18H-5, 70	161.00	188.44	Santa Cruz	2.033	45.268889	45.303228
1263A-18H-5, 80	161.10	188.54	Santa Cruz	2.090	45.276296	45.309697
1263B-13H-1, 51	160.51	188.68	Santa Cruz	2.096	45.286667	45.318754
1263B-13H-1, 61	160.61	188.78	Santa Cruz	2.058	45.294074	45.325223
1263B-13H-1, 71	160.71	188.88	Santa Cruz	2.045	45.301481	45.331692
1263B-13H-1, 81	160.81	188.98	Santa Cruz	1.936	45.308889	45.338162
1263B-13H-1, 91	160.91	189.08	Santa Cruz	2.022	45.316296	45.344631
1263B-13H-1, 101	161.01	189.18	Santa Cruz	2.069	45.323704	45.351100
1263B-13H-1, 111	161.11	189.28	Santa Cruz	2.177	45.331111	45.357569
1263B-13H-1, 121	161.21	189.38	Santa Cruz	2.029	45.338519	45.364038
1263B-13H-1, 131	161.31	189.48	Santa Cruz	1.978	45.345926	45.370508
1263B-13H-1, 141	161.41	189.58	Santa Cruz	2.012	45.353333	45.376977
1263B-13H-2, 1	161.51	189.68	Santa Cruz	1.936	45.360741	45.383446
1263B-13H-2, 11	161.61	189.78	Santa Cruz	1.910	45.368148	45.389915
1263B-13H-2, 21	161.71	189.88	Santa Cruz	2.011	45.375556	45.396384
1263B-13H-2, 31	161.81	189.98	Santa Cruz	1.938	45.382963	45.402853
1263B-13H-2, 41	161.91	190.08	Santa Cruz	2.005	45.390370	45.409323
1263B-13H-2, 51	162.01	190.18	Santa Cruz	1.995	45.397778	45.415792
1263B-13H-2, 61	162.11	190.28	Santa Cruz	2.020	45.405185	45.422261
1263B-13H-2, 71	162.21	190.38	Santa Cruz	2.006	45.412593	45.428730
1263B-13H-2, 81	162.31	190.48	Santa Cruz	1.925	45.420000	45.435199
1263B-13H-2, 91	162.41	190.58	Santa Cruz	1.925	45.427407	45.441668
1263B-13H-2, 101	162.51	190.68	Santa Cruz	1.946	45.434815	45.448138
1263B-13H-2, 111	162.61	190.78	Santa Cruz	1.964	45.442222	45.454607
1263B-13H-2, 121	162.71	190.88	Santa Cruz	2.015	45.449630	45.461076
1263B-13H-2, 131	162.81	190.98	Santa Cruz	2.072	45.457037	45.467545
1263B-13H-2, 141	162.91	191.08	Santa Cruz	2.000	45.464444	45.474014
1263B-13H-3, 1	163.01	191.18	Santa Cruz	1.904	45.471852	45.480484
1263B-13H-3, 11	163.11	191.28	Santa Cruz	1.888	45.479259	45.486953
1263B-13H-3, 21	163.21	191.38	Santa Cruz	1.908	45.486667	45.493422
1263B-13H-3, 31	163.31	191.48	Santa Cruz	1.925	45.494074	45.499891
1263B-13H-3, 41	163.41	191.58	Santa Cruz	1.985	45.501481	45.506360
1263B-13H-3, 51	163.51	191.68	Santa Cruz	1.949	45.508889	45.512829
1263B-13H-3, 61	163.61	191.78	Santa Cruz	1.973	45.516296	45.519299
1263B-13H-3, 71	163.71	191.88	Santa Cruz	1.961	45.523704	45.525768
1263B-13H-3, 81	163.81	191.98	Santa Cruz	2.022	45.531111	45.532237
1263B-13H-3, 91	163.91	192.08	Santa Cruz	2.013	45.538519	45.538706

1263B-13H-3, 101	164.01	192.18	Santa Cruz	2.048	45.546400	45.545539
1263B-13H-3, 111	164.11	192.28	Santa Cruz	2.003	45.554400	45.552463
1263B-13H-3, 121	164.21	192.38	Santa Cruz	2.011	45.562400	45.559387
1263B-13H-3, 131	164.31	192.48	Santa Cruz	2.015	45.570400	45.566311
1263B-13H-3, 141	164.41	192.58	Santa Cruz	1.945	45.578400	45.573235
1263B-13H-4, 1	164.51	192.68	Santa Cruz	1.863	45.586400	45.580158
1263B-13H-4, 11	164.61	192.78	Santa Cruz	1.862	45.594400	45.587082
1263B-13H-4, 21	164.71	192.88	Santa Cruz	1.897	45.602400	45.594006
1263B-13H-4, 31	164.81	192.98	Santa Cruz	1.969	45.610400	45.600930
1263B-13H-4, 41	164.91	193.08	Santa Cruz	2.009	45.618400	45.607854
1263B-13H-4, 51	165.01	193.18	Santa Cruz	2.040	45.626400	45.614778
1263B-13H-4, 61	165.11	193.28	Santa Cruz	2.025	45.634400	45.621702
1263B-13H-4, 71	165.21	193.38	Santa Cruz	1.888	45.642400	45.628625
1263B-13H-4, 81	165.31	193.48	Santa Cruz	2.009	45.650400	45.635549
1263B-13H-4, 91	165.41	193.58	Santa Cruz	1.979	45.658400	45.642473
1263B-13H-4, 101	165.51	193.68	Santa Cruz	1.980	45.666400	45.649397
1263B-13H-4, 111	165.61	193.78	Santa Cruz	1.987	45.674400	45.656321
1263B-13H-4, 121	165.71	193.88	Santa Cruz	2.042	45.682400	45.663245
1263B-13H-4, 131	165.81	193.98	Santa Cruz	2.037	45.690400	45.670169
1263B-13H-4, 141	165.91	194.08	Santa Cruz	2.036	45.698400	45.677092
1263B-13H-5, 1	166.01	194.18	Santa Cruz	2.030	45.706400	45.684016
1263B-13H-5, 11	166.11	194.28	Santa Cruz	1.996	45.714400	45.690940
1263B-13H-5, 21	166.21	194.38	Santa Cruz	1.918	45.722400	45.697864
1263B-13H-5, 31	166.31	194.47	Santa Cruz	2.107	45.729600	45.704095
1263B-13H-5, 41	166.41	194.58	Santa Cruz	1.914	45.738400	45.711712
1263A-19H-2, 27	165.57	194.63	Santa Cruz	1.995	45.742400	45.715174
1263B-13H-5, 51	166.51	194.68	Santa Cruz	1.961	45.746400	45.718636
1263A-19H-2, 37	165.67	194.73	Santa Cruz	2.029	45.750400	45.722098
1263A-19H-2, 47	165.77	194.83	Santa Cruz	2.092	45.758400	45.729021
1263A-19H-2, 57	165.87	194.93	Santa Cruz	2.083	45.766400	45.735945
1263A-19H-2, 67	165.97	195.03	Santa Cruz	2.034	45.774400	45.742869
1263A-19H-2, 77	166.07	195.13	Santa Cruz	1.984	45.782400	45.749793
1263A-19H-2, 87	166.17	195.23	Santa Cruz	2.076	45.790400	45.756717
1263A-19H-2, 97	166.27	195.33	Santa Cruz	2.064	45.798400	45.763641
1263A-19H-2, 107	166.37	195.43	Santa Cruz	1.927	45.806400	45.770565
1263A-19H-2, 117	166.47	195.53	Santa Cruz	1.970	45.814400	45.777488
1263A-19H-2, 137	166.67	195.73	Santa Cruz	1.949	45.830400	45.791336
1263A-19H-2, 147	166.77	195.83	Santa Cruz	1.907	45.838400	45.798260
1263A-19H-3, 7	166.87	195.93	Santa Cruz	1.918	45.846400	45.805184
1263A-19H-3, 17	166.97	196.03	Santa Cruz	1.955	45.854400	45.812108
1263A-19H-3, 27	167.07	196.13	Santa Cruz	1.995	45.862400	45.819032
1263A-19H-3, 37	167.17	196.23	Santa Cruz	1.966	45.870400	45.825955
1263A-19H-3, 47	167.27	196.33	Santa Cruz	1.881	45.878400	45.832879
1263A-19H-3, 57	167.37	196.43	Santa Cruz	1.951	45.886400	45.839803
1263A-19H-3, 67	167.47	196.53	Santa Cruz	1.887	45.894400	45.846727
1263A-19H-3, 77	167.57	196.63	Santa Cruz	1.932	45.902400	45.853651
1263A-19H-3, 87	167.67	196.73	Santa Cruz	1.799	45.910400	45.860575
1263A-19H-3, 97	167.77	196.83	Santa Cruz	1.830	45.918400	45.867499
1263A-19H-3, 107	167.87	196.93	Santa Cruz	1.812	45.926400	45.874422
1263B-13H-6, 131	168.81	196.97	Santa Cruz	1.757	45.929600	45.877192
1263B-13H-6, 141	168.91	197.07	Santa Cruz	1.757	45.937600	45.884116
1263B-13H-7, 1	169.01	197.17	Santa Cruz	1.718	45.945600	45.891040
1263B-13H-7, 11	169.11	197.28	Santa Cruz	1.689	45.954338	45.899748
1263B-13H-7, 21	169.21	197.38	Santa Cruz	1.756	45.962262	45.908857
1263A-19H-4, 7	168.37	197.43	Santa Cruz	1.758	45.966223	45.913411
1263B-13H-7, 31	169.31	197.49	Santa Cruz	1.714	45.970977	45.918877
1263A-19H-4, 17	168.47	197.53	Santa Cruz	1.784	45.974146	45.922520
1263A-19H-4, 27	168.57	197.63	Santa Cruz	1.740	45.982069	45.931629
1263A-19H-4, 37	168.67	197.73	Santa Cruz	1.774	45.989992	45.940737
1263A-19H-4, 47	168.77	197.83	Santa Cruz	1.896	45.997915	45.949846
1263A-19H-4, 57	168.87	197.93	Santa Cruz	1.790	46.005838	45.958955
1263A-19H-4, 67	168.97	198.03	Santa Cruz	1.829	46.013762	45.968063
1263A-19H-4, 77	169.07	198.13	Santa Cruz	1.838	46.021685	45.977172
1263A-19H-4, 87	169.17	198.23	Santa Cruz	1.792	46.029608	45.986281
1263A-19H-4, 100	169.30	198.36	Santa Cruz	1.710	46.039908	45.998122
1263A-19H-4, 107	169.37	198.43	Santa Cruz	1.722	46.045454	46.004498
1263A-19H-4, 117	169.47	198.53	Santa Cruz	1.777	46.053377	46.013607
1263A-19H-4, 127	169.57	198.63	Santa Cruz	1.819	46.061300	46.022715
1263A-19H-4, 137	169.67	198.73	Santa Cruz	1.811	46.069223	46.031824
1263A-19H-4, 147	169.77	198.83	Santa Cruz	1.818	46.077146	46.040933

1263A-19H-5, 7	169.87	198.93	Santa Cruz	1.803	46.085069	46.050041
1263A-19H-5, 17	169.97	199.03	Santa Cruz	1.773	46.092992	46.059150
1263A-19H-5, 27	170.07	199.13	Santa Cruz	1.793	46.100915	46.068259
1263A-19H-5, 37	170.17	199.23	Santa Cruz	1.743	46.108838	46.077367
1263A-19H-5, 47	170.27	199.33	Santa Cruz	1.761	46.116762	46.086476
1263A-19H-5, 57	170.37	199.43	Santa Cruz	1.760	46.124685	46.095585
1263A-19H-5, 67	170.47	199.53	Santa Cruz	1.705	46.132608	46.104693
1263A-19H-5, 77	170.57	199.63	Santa Cruz	1.717	46.140531	46.113802
1263B-14H-1, 56	170.06	199.72	Santa Cruz	1.644	46.147662	46.122000
1263A-19H-5, 87	170.67	199.73	Santa Cruz	1.699	46.148454	46.122911
1263B-14H-1, 66	170.16	199.83	Santa Cruz	1.626	46.156377	46.132019
1263A-19H-5, 97	170.77	199.83	Santa Cruz	1.716	46.156377	46.132019
1263A-19H-5, 107	170.87	199.93	Santa Cruz	1.694	46.164300	46.141128
1263B-14H-1, 76	170.26	199.93	Santa Cruz	2.041	46.164300	46.141128
1263A-19H-5, 117	170.97	200.03	Santa Cruz	1.706	46.172223	46.150236
1263B-14H-1, 86	170.36	200.03	Santa Cruz	1.667	46.172223	46.150236
1263B-14H-1, 96	170.46	200.13	Santa Cruz	1.665	46.180146	46.159345
1263B-14H-1, 106	170.56	200.23	Santa Cruz	1.645	46.188069	46.168454
1263B-14H-1, 116	170.66	200.33	Santa Cruz	1.621	46.195992	46.177562
1263B-14H-1, 126	170.76	200.43	Santa Cruz	1.751	46.203915	46.186671
1263B-14H-1, 136	170.86	200.53	Santa Cruz	1.728	46.211838	46.195780
1263B-14H-1, 146	170.96	200.63	Santa Cruz	1.645	46.219762	46.204888
1263B-14H-2, 6	171.06	200.73	Santa Cruz	1.702	46.227685	46.213997
1263B-14H-2, 16	171.16	200.83	Santa Cruz	1.728	46.235608	46.223106
1263B-14H-2, 26	171.26	200.93	Santa Cruz	1.667	46.243531	46.232214
1263B-14H-2, 36	171.36	201.03	Santa Cruz	1.639	46.251454	46.241323
1263B-14H-2, 46	171.46	201.13	Santa Cruz	1.700	46.259377	46.250432
1263B-14H-2, 56	171.56	201.23	Santa Cruz	1.643	46.267300	46.259540
1263B-14H-2, 66	171.66	201.33	Santa Cruz	1.614	46.275223	46.268649
1263B-14H-2, 76	171.76	201.43	Santa Cruz	1.613	46.283146	46.277758
1263B-14H-2, 86	171.86	201.53	Santa Cruz	1.668	46.291069	46.286866
1263B-14H-2, 96	171.96	201.63	Santa Cruz	1.644	46.298992	46.295975
1263B-14H-2, 106	172.06	201.73	Santa Cruz	1.531	46.306915	46.305084
1263B-14H-2, 116	172.16	201.83	Santa Cruz	1.721	46.314838	46.314192
1263B-14H-2, 126	172.26	201.93	Santa Cruz	1.483	46.322762	46.323301
1263B-14H-2, 136	172.36	202.03	Santa Cruz	1.716	46.330685	46.332410
1263B-14H-2, 146	172.46	202.13	Santa Cruz	1.670	46.338608	46.341518
1263B-14H-3, 6	172.56	202.23	Santa Cruz	1.649	46.346531	46.350627
1263B-14H-3, 16	172.66	202.33	Santa Cruz	1.639	46.354454	46.359736
1263B-14H-3, 26	172.76	202.43	Santa Cruz	1.516	46.362604	46.368844
1263B-14H-3, 36	172.86	202.53	Santa Cruz	1.443	46.371285	46.377953
1263B-14H-3, 46	172.96	202.63	Santa Cruz	1.448	46.379966	46.386410
1263B-14H-3, 59	173.09	202.76	Santa Cruz	1.609	46.391251	46.397403
1263B-14H-3, 66	173.16	202.83	Santa Cruz	1.982	46.397328	46.403323
1263B-14H-3, 76	173.26	202.93	Santa Cruz	1.639	46.406009	46.411779
1263B-14H-3, 86	173.36	203.03	Santa Cruz	1.631	46.414689	46.420236
1263B-14H-3, 96	173.46	203.13	Santa Cruz	1.666	46.423370	46.428692
1263B-14H-3, 106	173.56	203.23	Santa Cruz	1.750	46.432051	46.437149
1263B-14H-3, 116	173.66	203.33	Santa Cruz	1.813	46.440732	46.445605
1263B-14H-3, 126	173.76	203.43	Santa Cruz	1.734	46.449413	46.454062
1263B-14H-3, 136	173.86	203.53	Santa Cruz	1.630	46.458094	46.462518
1263B-14H-3, 146	173.96	203.63	Santa Cruz	1.659	46.466774	46.470975
1263B-14H-4, 6	174.06	203.73	Santa Cruz	1.650	46.475455	46.479431
1263B-14H-4, 16	174.16	203.83	Santa Cruz	1.604	46.484136	46.487888
1263B-14H-4, 26	174.26	203.93	Santa Cruz	1.569	46.492817	46.496344
1263B-14H-4, 36	174.36	204.03	Santa Cruz	1.581	46.501498	46.504801
1263B-14H-4, 46	174.46	204.13	Santa Cruz	1.648	46.510179	46.513257
1263B-14H-4, 56	174.56	204.23	Santa Cruz	1.639	46.518860	46.521714
1263B-14H-4, 66	174.66	204.33	Santa Cruz	1.670	46.527540	46.530170
1263B-14H-4, 76	174.76	204.43	Santa Cruz	1.600	46.536221	46.538627
1263B-14H-4, 86	174.86	204.53	Santa Cruz	1.570	46.544902	46.547083
1263B-14H-4, 96	174.96	204.63	Santa Cruz	1.594	46.553583	46.555540
1263B-14H-4, 106	175.06	204.73	Santa Cruz	1.750	46.562264	46.563996
1263B-14H-4, 116	175.16	204.83	Santa Cruz	1.678	46.570945	46.572453
1263A-20H-1, 17	173.47	204.84	Santa Cruz	1.816	46.571813	46.573299
1263B-14H-4, 126	175.26	204.93	Santa Cruz	1.686	46.579626	46.580909
1263A-20H-1, 27	173.57	204.94	Santa Cruz	1.870	46.580494	46.581755
1263B-14H-4, 136	175.36	205.03	Santa Cruz	1.616	46.588306	46.589366
1263A-20H-1, 37	173.67	205.05	Santa Cruz	1.770	46.590043	46.591057
1263B-14H-4, 146	175.46	205.13	Santa Cruz	1.409	46.596987	46.597823

1263A-20H-1, 47	173.77	205.15	Santa Cruz	1.784	46.598723	46.599514
1263A-20H-1, 57	173.87	205.25	Santa Cruz	1.732	46.607404	46.607970
1263A-20H-1, 67	173.97	205.34	Santa Cruz	1.749	46.615217	46.615581
1263A-20H-1, 77	174.07	205.42	Santa Cruz	1.787	46.622162	46.622346
1263A-20H-1, 87	174.17	205.51	Santa Cruz	1.711	46.629974	46.629957
1263A-20H-1, 97	174.27	205.59	Santa Cruz	1.679	46.636919	46.636723
1263A-20H-1, 107	174.37	205.70	Santa Cruz	1.698	46.646468	46.646025
1263A-20H-1, 117	174.47	205.80	Santa Cruz	1.658	46.655149	46.654481
1263A-20H-1, 127	174.57	205.90	Santa Cruz	1.679	46.663830	46.662938
1263A-20H-1, 137	174.67	206.01	Santa Cruz	1.665	46.673379	46.672240
1263A-20H-1, 147	174.77	206.11	Santa Cruz	1.680	46.682060	46.680696
1263A-20H-2, 7	174.87	206.22	Santa Cruz	1.708	46.691609	46.689999
1263A-20H-2, 17	174.97	206.32	Santa Cruz	1.656	46.700289	46.698455
1263A-20H-2, 27	175.07	206.42	Santa Cruz	1.634	46.708970	46.706912
1263A-20H-2, 37	175.17	206.53	Santa Cruz	1.706	46.718519	46.716214
1263A-20H-2, 47	175.27	206.63	Santa Cruz	1.698	46.727200	46.724670
1263A-20H-2, 57	175.37	206.73	Santa Cruz	1.673	46.735881	46.733127
1263A-20H-2, 67	175.47	206.83	Santa Cruz	1.597	46.744562	46.741583
1263A-20H-2, 77	175.57	206.93	Santa Cruz	1.593	46.753243	46.750040
1263A-20H-2, 87	175.67	207.03	Santa Cruz	1.684	46.761923	46.758496
1263A-20H-2, 97	175.77	207.13	Santa Cruz	1.392	46.770661	46.766732
1263A-20H-2, 107	175.87	207.23	Santa Cruz	1.579	46.779530	46.774819
1263A-20H-2, 117	175.97	207.33	Santa Cruz	1.602	46.788400	46.782907
1263A-20H-2, 127	176.07	207.43	Santa Cruz	1.694	46.797270	46.790995
1263A-20H-2, 137	176.17	207.53	Santa Cruz	1.771	46.806139	46.799083
1263A-20H-2, 147	176.27	207.63	Santa Cruz	1.711	46.815009	46.807170
1263A-20H-3, 7	176.37	207.73	Santa Cruz	1.752	46.823878	46.815258
1263A-20H-3, 17	176.47	207.83	Santa Cruz	1.792	46.832748	46.823346
1263A-20H-3, 27	176.57	207.93	Santa Cruz	1.813	46.841617	46.831434
1263A-20H-3, 37	176.67	208.03	Santa Cruz	1.806	46.850487	46.839522
1263A-20H-3, 47	176.77	208.13	Santa Cruz	1.778	46.859357	46.847609
1263A-20H-3, 57	176.87	208.23	Santa Cruz	1.742	46.868226	46.855697
1263A-20H-3, 67	176.97	208.33	Santa Cruz	1.770	46.877096	46.863785
1263A-20H-3, 77	177.07	208.43	Santa Cruz	1.853	46.885965	46.871873
1263A-20H-3, 87	177.17	208.53	Santa Cruz	1.791	46.894835	46.879960
1263A-20H-3, 97	177.27	208.63	Santa Cruz	1.912	46.903704	46.888048
1263A-20H-3, 107	177.37	208.73	Santa Cruz	1.818	46.912574	46.896136
1263A-20H-3, 117	177.47	208.83	Santa Cruz	1.842	46.921443	46.904224
1263A-20H-3, 127	177.57	208.93	Santa Cruz	1.865	46.930313	46.912311
1263B-15H-1, 123	178.23	209.08	Santa Cruz	1.631	46.943617	46.924443
1263A-20H-3, 147	177.77	209.13	Santa Cruz	1.861	46.948052	46.928487
1263B-15H-1, 133	178.33	209.18	Santa Cruz	1.902	46.952487	46.932531
1263B-15H-1, 143	178.43	209.28	Santa Cruz	1.892	46.961357	46.940619
1263A-20H-4, 17	177.97	209.33	Santa Cruz	1.903	46.965791	46.944663
1263A-20H-4, 27	178.07	209.43	Santa Cruz	1.859	46.974661	46.952750
1263A-20H-4, 37	178.17	209.53	Santa Cruz	1.863	46.983530	46.960838
1263A-20H-4, 47	178.27	209.63	Santa Cruz	1.880	46.992400	46.968926
1263B-15H-2, 43	178.93	209.77	Santa Cruz	1.829	47.004817	46.980249
1263A-20H-4, 67	178.47	209.83	Santa Cruz	1.831	47.010139	46.985101
1263A-20H-4, 77	178.57	209.93	Santa Cruz	1.826	47.019009	46.993189
1263B-15H-2, 63	179.13	209.97	Santa Cruz	1.855	47.022557	46.996424
1263A-20H-4, 87	178.67	210.03	Santa Cruz	1.813	47.027878	47.001277
1263B-15H-2, 73	179.23	210.06	Santa Cruz	1.616	47.030539	47.003703
1263A-20H-4, 97	178.77	210.13	Santa Cruz	1.831	47.036748	47.009365
1263B-15H-2, 83	179.33	210.16	Santa Cruz	1.834	47.039409	47.011791
1263A-20H-4, 107	178.87	210.23	Santa Cruz	1.880	47.045617	47.017452
1263A-20H-4, 117	178.97	210.33	Santa Cruz	1.986	47.054487	47.025540
1263B-15H-2, 103	179.53	210.36	Santa Cruz	1.661	47.057148	47.027967
1263A-20H-4, 127	179.07	210.43	Santa Cruz	1.722	47.063357	47.033628
1263B-15H-2, 113	179.63	210.46	Santa Cruz	1.789	47.066017	47.036054
1263B-15H-2, 143	179.93	210.77	Santa Cruz	1.883	47.093513	47.061126
1263B-15H-3, 3	180.03	210.87	Santa Cruz	1.556	47.102383	47.069214
1263B-15H-3, 43	180.43	211.28	Santa Cruz	1.834	47.138748	47.102374
1263B-15H-3, 53	180.53	211.38	Santa Cruz	1.781	47.147617	47.110462
1263B-15H-3, 63	180.63	211.48	Santa Cruz	1.674	47.156487	47.118549
1263B-15H-3, 113	181.13	211.98	Santa Cruz	1.646	47.200104	47.161067
1263B-15H-3, 123	181.23	212.08	Santa Cruz	1.750	47.208713	47.170145
1263B-15H-3, 133	181.33	212.18	Santa Cruz	1.737	47.217322	47.179222
1263B-15H-3, 143	181.43	212.28	Santa Cruz	1.830	47.225930	47.188300
1263B-15H-4, 13	181.63	212.48	Santa Cruz	1.670	47.243148	47.206455

1263B-15H-4, 23	181.73	212.58	Santa Cruz	1.423	47.251757	47.215533
1263B-15H-4, 33	181.83	212.68	Santa Cruz	1.292	47.260365	47.224610
1263B-15H-4, 43	181.93	212.78	Santa Cruz	1.481	47.268974	47.233688
1263B-15H-4, 63	182.13	212.98	Santa Cruz	1.694	47.286191	47.251843
1263B-15H-4, 93	182.43	213.28	Santa Cruz	1.962	47.312017	47.279076
1263B-15H-4, 103	182.53	213.38	Santa Cruz	1.675	47.320626	47.288154
1263B-15H-4, 105	182.55	213.40	Santa Cruz	1.755	47.322348	47.289969
1263B-15H-4, 115	182.65	213.50	Santa Cruz	1.760	47.330957	47.299047
1263B-15H-4, 123	182.73	213.58	Santa Cruz	1.793	47.337843	47.306309
1263B-15H-4, 133	182.83	213.68	Santa Cruz	1.949	47.346452	47.315386
1263B-15H-5, 3	183.03	213.88	Santa Cruz	1.791	47.363670	47.333542
1263B-15H-5, 13	183.13	213.98	Santa Cruz	1.837	47.372278	47.342619
1263B-15H-5, 23	183.23	214.08	Santa Cruz	2.025	47.380887	47.351697
1263B-15H-5, 33	183.33	214.18	Santa Cruz	1.955	47.389496	47.360774
1263B-15H-5, 35	183.35	214.20	Santa Cruz	1.793	47.391217	47.362590
1263B-15H-5, 45	183.45	214.30	Santa Cruz	1.837	47.399826	47.371668
1263B-15H-5, 53	183.53	214.38	Santa Cruz	1.843	47.406713	47.378930
1263B-15H-5, 63	183.63	214.48	Santa Cruz	1.847	47.415322	47.388007
1263B-15H-5, 73	183.73	214.58	Santa Cruz	1.872	47.423930	47.397085
1263B-15H-5, 83	183.83	214.68	Santa Cruz	1.874	47.432539	47.406163
1263B-15H-5, 93	183.93	214.78	Santa Cruz	1.739	47.441148	47.415240
1263B-15H-5, 103	184.03	214.88	Santa Cruz	1.669	47.449757	47.424318
1263B-15H-5, 113	184.13	214.98	Santa Cruz	1.842	47.458365	47.433395
1263B-15H-5, 123	184.23	215.08	Santa Cruz	1.857	47.466974	47.442473
1263B-15H-5, 133	184.33	215.18	Santa Cruz	1.804	47.475583	47.451551
1263B-15H-5, 143	184.43	215.28	Santa Cruz	1.928	47.484191	47.460628
1263B-15H-6, 5	184.55	215.40	Santa Cruz	1.894	47.494522	47.471521
1263B-15H-6, 13	184.63	215.48	Santa Cruz	1.905	47.501409	47.478783
1263B-15H-6, 23	184.73	215.58	Santa Cruz	1.988	47.510017	47.487861
1263B-15H-6, 33	184.83	215.68	Santa Cruz	1.982	47.518626	47.496939
1263B-15H-6, 43	184.93	215.78	Santa Cruz	1.806	47.527235	47.506016
1263B-15H-6, 53	185.03	215.88	Santa Cruz	1.851	47.535843	47.515094
1263B-15H-6, 63	185.13	215.98	Santa Cruz	1.925	47.544452	47.524171
1263B-15H-6, 73	185.23	216.08	Santa Cruz	1.829	47.553061	47.533249
1263B-15H-6, 83	185.33	216.18	Santa Cruz	1.720	47.561670	47.542327
1263B-15H-6, 93	185.43	216.28	Santa Cruz	1.738	47.570278	47.551404
1263B-15H-6, 103	185.53	216.38	Santa Cruz	1.788	47.578957	47.560482
1263B-15H-6, 113	185.63	216.48	Santa Cruz	1.907	47.587652	47.569560
1263B-15H-6, 123	185.73	216.58	Santa Cruz	1.965	47.596348	47.578637
1263B-15H-6, 133	185.83	216.68	Santa Cruz	1.894	47.605043	47.587715
1263B-15H-6, 143	185.93	216.78	Santa Cruz	1.988	47.613739	47.596792
1263A-21H-1, 24	183.04	216.87	Santa Cruz	1.880	47.621565	47.604962
1263B-15H-7, 3	186.03	216.88	Santa Cruz	1.857	47.622435	47.605870
1263A-21H-1, 34	183.14	216.97	Santa Cruz	1.813	47.630261	47.614040
1263B-15H-7, 13	186.13	216.98	Santa Cruz	1.794	47.631130	47.614948
1263A-21H-1, 44	183.24	217.07	Santa Cruz	1.789	47.638957	47.623117
1263A-21H-1, 54	183.34	217.17	Santa Cruz	1.832	47.647652	47.632454
1263A-21H-1, 64	183.44	217.27	Santa Cruz	1.852	47.656348	47.642178
1263B-15H-7, 43	186.43	217.28	Santa Cruz	1.772	47.657217	47.643150
1263A-21H-1, 74	183.54	217.37	Santa Cruz	1.833	47.665043	47.651902
1263A-21H-1, 84	183.64	217.47	Santa Cruz	1.903	47.673739	47.661626
1263A-21H-1, 94	183.74	217.57	Santa Cruz	1.935	47.682435	47.671350
1263A-21H-1, 104	183.84	217.67	Santa Cruz	1.908	47.691130	47.681074
1263A-21H-1, 114	183.94	217.77	Santa Cruz	2.038	47.699826	47.690798
1263A-21H-1, 124	184.04	217.87	Santa Cruz	1.957	47.708522	47.700522
1263A-21H-1, 134	184.14	217.97	Santa Cruz	1.963	47.717217	47.710246
1263A-21H-1, 139	184.19	218.02	Santa Cruz	1.866	47.721565	47.715108
1263A-21H-1, 144	184.24	218.07	Santa Cruz	2.072	47.725913	47.719970
1263A-21H-2, 4	184.34	218.17	Santa Cruz	1.986	47.734609	47.729694
1263A-21H-2, 14	184.44	218.27	Santa Cruz	1.941	47.743304	47.739418
1263A-21H-2, 24	184.54	218.37	Santa Cruz	1.876	47.752000	47.749142
1263A-21H-2, 34	184.64	218.47	Santa Cruz	2.053	47.760696	47.758866
1263A-21H-2, 44	184.74	218.57	Santa Cruz	2.034	47.769391	47.768590
1263A-21H-2, 54	184.84	218.67	Santa Cruz	1.914	47.778087	47.778314
1263A-21H-2, 64	184.94	218.77	Santa Cruz	2.008	47.786783	47.788038
1263A-21H-2, 74	185.04	218.87	Santa Cruz	1.947	47.795478	47.797762
1263A-21H-2, 84	185.14	218.97	Santa Cruz	1.916	47.804174	47.807487
1263A-21H-2, 94	185.24	219.07	Santa Cruz	1.948	47.812870	47.817211
1263A-21H-2, 104	185.34	219.17	Santa Cruz	1.908	47.821565	47.826935
1263A-21H-2, 124	185.54	219.37	Santa Cruz	1.884	47.838957	47.846383

1263A-21H-2, 139	185.69	219.52	Santa Cruz	1.874	47.852000	47.860969
1263A-21H-2, 144	185.74	219.57	Santa Cruz	1.912	47.856348	47.865831
1263A-21H-3, 4	185.84	219.67	Santa Cruz	1.873	47.865043	47.875555
1263A-21H-3, 14	185.94	219.77	Santa Cruz	1.945	47.873739	47.885279
1263A-21H-3, 24	186.04	219.87	Santa Cruz	1.871	47.882435	47.895003
1263A-21H-3, 34	186.14	219.97	Santa Cruz	1.909	47.891130	47.904727
1263A-21H-3, 44	186.24	220.07	Santa Cruz	1.873	47.899826	47.914451
1263A-21H-3, 54	186.34	220.17	Santa Cruz	1.871	47.908522	47.924175
1263A-21H-3, 64	186.44	220.27	Santa Cruz	1.886	47.917217	47.933899
1263A-21H-3, 74	186.54	220.37	Santa Cruz	1.894	47.925913	47.943623
1263A-21H-3, 84	186.64	220.47	Santa Cruz	1.884	47.934609	47.953347
1263A-21H-3, 94	186.74	220.57	Santa Cruz	1.795	47.943304	47.963071
1263A-21H-3, 104	186.84	220.67	Santa Cruz	1.909	47.952000	47.972795
1263A-21H-3, 114	186.94	220.77	Santa Cruz	1.774	47.960696	47.982407
1263A-21H-3, 124	187.04	220.87	Santa Cruz	1.786	47.969391	47.991004
1263A-21H-3, 134	187.14	220.97	Santa Cruz	1.811	47.977833	47.999601
1263A-21H-3, 144	187.24	221.07	Santa Cruz	1.808	47.986167	48.008198
1263A-21H-4, 4	187.34	221.17	Santa Cruz	1.874	47.994500	48.016795
1263A-21H-4, 14	187.44	221.27	Santa Cruz	1.878	48.002833	48.025392
1263A-21H-4, 24	187.54	221.37	Santa Cruz	1.841	48.011167	48.033989
1263A-21H-4, 34	187.64	221.47	Santa Cruz	1.842	48.019500	48.042586
1263A-21H-4, 44	187.74	221.57	Santa Cruz	1.873	48.027833	48.051183
1263A-21H-4, 54	187.84	221.67	Santa Cruz	1.862	48.036167	48.059781
1263A-21H-4, 64	187.94	221.77	Santa Cruz	1.821	48.044500	48.068378
1263A-21H-4, 74	188.04	221.87	Santa Cruz	1.829	48.052833	48.076975
1263A-21H-4, 84	188.14	221.97	Santa Cruz	1.796	48.061167	48.085572
1263A-21H-4, 94	188.24	222.07	Santa Cruz	1.861	48.069500	48.094169
1263A-21H-4, 104	188.34	222.17	Santa Cruz	1.933	48.077833	48.102766
1263A-21H-4, 114	188.44	222.27	Santa Cruz	1.942	48.086167	48.111363
1263A-21H-4, 124	188.54	222.37	Santa Cruz	1.985	48.094500	48.119960
1263A-21H-4, 134	188.64	222.47	Santa Cruz	1.989	48.102833	48.128557
1263A-21H-5, 4	188.84	222.67	Santa Cruz	1.898	48.119500	48.145751
1263A-21H-5, 14	188.94	222.77	Santa Cruz	1.904	48.127833	48.154349
1263A-21H-5, 24	189.04	222.87	Santa Cruz	1.928	48.136167	48.162946
1263A-21H-5, 34	189.14	222.97	Santa Cruz	1.979	48.144500	48.171543
1263A-21H-5, 44	189.24	223.07	Santa Cruz	1.879	48.152833	48.180140
1263A-21H-5, 54	189.34	223.17	Santa Cruz	1.933	48.161167	48.188737
1263A-21H-5, 64	189.44	223.27	Santa Cruz	1.976	48.169500	48.197334
1263A-21H-5, 74	189.54	223.37	Santa Cruz	1.964	48.177833	48.205931
1263A-21H-5, 84	189.64	223.47	Santa Cruz	1.992	48.186167	48.214528
1263A-21H-5, 94	189.74	223.57	Santa Cruz	1.882	48.194500	48.223125
1263A-21H-5, 104	189.84	223.67	Santa Cruz	1.879	48.202833	48.231722
1263A-21H-5, 114	189.94	223.77	Santa Cruz	1.825	48.211167	48.240319
1263A-21H-5, 124	190.04	223.87	Santa Cruz	1.942	48.219500	48.248917
1263A-21H-5, 134	190.14	223.97	Santa Cruz	1.965	48.227833	48.257514
1263A-21H-5, 144	190.24	224.07	Santa Cruz	1.952	48.236167	48.266111
1263A-21H-6, 4	190.34	224.17	Santa Cruz	1.844	48.244500	48.274708
1263A-21H-6, 14	190.44	224.27	Santa Cruz	1.864	48.252833	48.283305
1263A-21H-6, 24	190.54	224.37	Santa Cruz	1.867	48.261167	48.291902
1263A-21H-6, 34	190.64	224.47	Santa Cruz	1.936	48.269500	48.300499
1263A-21H-6, 44	190.74	224.57	Santa Cruz	1.864	48.277833	48.309096
1263A-21H-6, 54	190.84	224.67	Santa Cruz	1.906	48.286167	48.317693
1263A-21H-6, 64	190.94	224.77	Santa Cruz	1.807	48.294500	48.326290
1263A-21H-6, 74	191.04	224.88	Santa Cruz	1.862	48.303667	48.335747
1263A-21H-6, 84	191.14	224.98	Santa Cruz	1.867	48.312000	48.344344
1263B-16H-4, 94	191.94	225.07	Santa Cruz	1.915	48.319500	48.352082
1263A-21H-6, 94	191.24	225.08	Santa Cruz	1.824	48.320333	48.352941
1263A-21H-6, 104	191.34	225.18	Santa Cruz	1.934	48.328667	48.361539
1263A-21H-6, 114	191.44	225.28	Santa Cruz	1.748	48.337000	48.370136
1263B-16H-4, 124	192.24	225.37	Santa Cruz	1.940	48.344500	48.377873
1263B-16H-4, 134	192.34	225.47	Santa Cruz	1.956	48.352833	48.386470
1263B-16H-4, 144	192.44	225.57	Santa Cruz	1.992	48.361167	48.395067
1263B-16H-5, 4	192.54	225.67	Santa Cruz	1.774	48.369500	48.403664
1263B-16H-5, 14	192.64	225.77	Santa Cruz	1.867	48.377833	48.412261
1263B-16H-5, 24	192.74	225.87	Santa Cruz	1.935	48.386167	48.420858
1263B-16H-5, 34	192.84	225.97	Santa Cruz	1.828	48.394500	48.429456
1263B-16H-5, 44	192.94	226.07	Santa Cruz	2.007	48.402833	48.438053
1263B-16H-5, 54	193.04	226.17	Santa Cruz	1.918	48.411167	48.446650
1263B-16H-5, 64	193.14	226.27	Santa Cruz	1.933	48.419500	48.455247
1263B-16H-5, 74	193.24	226.37	Santa Cruz	1.782	48.427833	48.463844

1263B-16H-5, 84	193.34	226.47	Santa Cruz	1.682	48.436167	48.472441
1263B-16H-5, 94	193.44	226.57	Santa Cruz	1.748	48.444500	48.481038
1263B-16H-5, 104	193.54	226.67	Santa Cruz	1.838	48.452833	48.489635
1263A-22H-1, 109	193.39	226.72	Santa Cruz	2.002	48.457000	48.493934
1263B-16H-5, 114	193.64	226.77	Santa Cruz	1.853	48.461167	48.498232
1263B-16H-5, 124	193.74	226.87	Santa Cruz	1.820	48.469500	48.506829
1263A-22H-1, 119	193.49	226.88	Santa Cruz	1.932	48.470333	48.507689
1263B-16H-5, 134	193.84	226.97	Santa Cruz	1.849	48.477833	48.515426
1263A-22H-1, 129	193.59	227.04	Santa Cruz	1.900	48.483667	48.521444
1263B-16H-5, 144	193.94	227.07	Santa Cruz	1.876	48.486167	48.524024
1263B-16H-6, 4	194.04	227.17	Santa Cruz	1.945	48.494500	48.532621
1263A-22H-1, 139	193.69	227.20	Santa Cruz	1.944	48.497000	48.535200
1263B-16H-6, 14	194.14	227.27	Santa Cruz	2.058	48.502833	48.541218
1263A-22H-1, 149	193.79	227.36	Santa Cruz	1.920	48.510333	48.548955
1263B-16H-6, 24	194.24	227.37	Santa Cruz	1.910	48.511167	48.549815
1263B-16H-6, 34	194.34	227.47	Santa Cruz	1.949	48.519500	48.558412
1263A-22H-2, 9	193.89	227.52	Santa Cruz	1.901	48.523667	48.562710
1263B-16H-6, 44	194.44	227.57	Santa Cruz	1.864	48.527833	48.567009
1263B-16H-6, 54	194.54	227.67	Santa Cruz	1.914	48.536167	48.575606
1263A-22H-2, 19	193.99	227.69	Santa Cruz	1.980	48.537833	48.577326
1263B-16H-6, 64	194.64	227.77	Santa Cruz	2.084	48.544500	48.584203
1263A-22H-2, 29	194.09	227.85	Santa Cruz	1.772	48.551167	48.591081
1263B-16H-6, 74	194.74	227.87	Santa Cruz	1.970	48.552833	48.592800
1263B-16H-6, 84	194.84	227.97	Santa Cruz	1.938	48.561167	48.601397
1263A-22H-2, 39	194.19	228.01	Santa Cruz	1.926	48.564500	48.604836
1263B-16H-6, 94	194.94	228.07	Santa Cruz	2.054	48.569500	48.609994
1263A-22H-2, 49	194.29	228.17	Santa Cruz	1.857	48.577833	48.618592
1263B-16H-6, 104	195.04	228.17	Santa Cruz	2.015	48.577833	48.618592
1263B-16H-6, 109	195.09	228.22	Santa Cruz	2.028	48.582000	48.622890
1263A-22H-2, 59	194.39	228.31	Santa Cruz	1.939	48.589500	48.630628
1263B-16H-6, 124	195.24	228.37	Santa Cruz	1.956	48.594500	48.635786
1263A-22H-2, 69	194.49	228.44	Santa Cruz	1.974	48.600333	48.641804
1263B-16H-6, 134	195.34	228.47	Santa Cruz	1.959	48.602833	48.644383
1263B-16H-6, 144	195.44	228.57	Santa Cruz	1.995	48.611167	48.652980
1263A-22H-2, 79	194.59	228.58	Santa Cruz	1.986	48.612000	48.653840
1263B-16H-7, 4	195.54	228.67	Santa Cruz	1.997	48.619500	48.661577
1263B-16H-7, 14	195.64	228.77	Santa Cruz	1.967	48.627833	48.670174
1263B-16H-7, 24	195.74	228.87	Santa Cruz	2.023	48.636167	48.678771
1263B-16H-7, 34	195.84	228.97	Santa Cruz	1.989	48.644500	48.687368
1263B-16H-7, 44	195.94	229.07	Santa Cruz	1.998	48.652833	48.695965

**Table S3 – ODP 1263 raw inclination, declination, and intensity data for each measurement step**

Site	Hole	Core Type	Section	Section depth (cm)	Depth mbsf	Depth rmcd	Demag step (mT)	Intensity (mA/m)	Inclination (°)	Declination (°)
1263	B	10H	2	90	133.90	157.94	30	0.62	-1.1	27.6
1263	A	15H	4	91	131.21	154.94	0	20.10	75.1	247.3
1263	A	15H	4	91	131.21	154.94	8	6.66	62.1	246.7
1263	A	15H	4	91	131.21	154.94	10	5.79	60.2	245.9
1263	A	15H	4	91	131.21	154.94	15	4.50	59.4	244.5
1263	A	15H	4	91	131.21	154.94	20	3.33	58.2	242.3
1263	A	15H	4	91	131.21	154.94	25	2.50	58.9	243.7
1263	A	15H	4	91	131.21	154.94	30	1.90	59.4	243.9
1263	A	15H	4	91	131.21	154.94	40	1.20	60.7	257.4
1263	A	15H	4	91	131.21	154.94	60	0.53	54.6	261.0
1263	B	10H	1	40	131.90	155.94	0	7.49	87.2	81.7
1263	B	10H	1	40	131.90	155.94	8	2.65	44.9	160.6
1263	B	10H	1	40	131.90	155.94	10	2.38	40.9	159.0
1263	B	10H	1	40	131.90	155.94	15	1.90	38.4	158.7
1263	B	10H	1	40	131.90	155.94	20	1.52	40.3	161.2
1263	B	10H	1	40	131.90	155.94	25	1.17	42.1	157.4
1263	B	10H	1	40	131.90	155.94	30	0.85	41.3	164.7
1263	B	10H	1	40	131.90	155.94	40	0.35	48.2	157.3
1263	B	10H	1	40	131.90	155.94	60	0.09	64.0	309.7
1263	B	10H	1	140	132.90	156.94	0	9.41	70.1	39.3
1263	B	10H	1	140	132.90	156.94	8	2.96	50.4	73.5
1263	B	10H	1	140	132.90	156.94	10	2.59	48.0	74.4
1263	B	10H	1	140	132.90	156.94	15	2.00	45.5	74.5
1263	B	10H	1	140	132.90	156.94	20	1.48	46.8	73.7
1263	B	10H	1	140	132.90	156.94	25	1.13	43.6	71.7
1263	B	10H	1	140	132.90	156.94	30	0.91	45.1	71.5
1263	B	10H	1	140	132.90	156.94	40	0.63	38.9	63.7
1263	B	10H	1	140	132.90	156.94	60	0.37	24.5	64.7
1263	B	10H	2	90	133.90	157.94	0	4.50	42.5	12.7
1263	B	10H	2	90	133.90	157.94	8	1.94	1.9	15.5
1263	B	10H	2	90	133.90	157.94	10	1.75	-0.9	15.6
1263	B	10H	2	90	133.90	157.94	15	1.40	-4.0	17.2
1263	B	10H	2	90	133.90	157.94	20	1.11	-3.8	19.2
1263	B	10H	2	90	133.90	157.94	25	0.86	-0.5	20.1
1263	B	10H	2	90	133.90	157.94	40	0.39	-2.9	40.4
1263	B	10H	2	90	133.90	157.94	60	0.21	11.5	66.7
1263	B	10H	3	40	134.90	158.94	0	12.00	65.8	5.5
1263	B	10H	3	40	134.90	158.94	8	2.94	47.2	34.0
1263	B	10H	3	40	134.90	158.94	10	2.48	44.0	37.1
1263	B	10H	3	40	134.90	158.94	15	1.88	41.0	39.6
1263	B	10H	3	40	134.90	158.94	20	1.45	41.0	41.4
1263	B	10H	3	40	134.90	158.94	25	1.10	40.0	41.8
1263	B	10H	3	40	134.90	158.94	30	0.74	38.4	41.6
1263	B	10H	3	40	134.90	158.94	40	0.45	37.5	41.5
1263	B	10H	3	40	134.90	158.94	60	0.23	38.9	29.9
1263	B	10H	3	140	135.90	159.94	0	9.66	77.5	6.3
1263	B	10H	3	140	135.90	159.94	8	1.93	72.9	109.3
1263	B	10H	3	140	135.90	159.94	10	1.63	69.3	109.5
1263	B	10H	3	140	135.90	159.94	15	1.18	65.0	112.8
1263	B	10H	3	140	135.90	159.94	20	0.89	60.9	117.7
1263	B	10H	3	140	135.90	159.94	25	0.71	58.4	115.9
1263	B	10H	3	140	135.90	159.94	30	0.57	55.0	103.5
1263	B	10H	3	140	135.90	159.94	40	0.39	41.2	115.6
1263	B	10H	3	140	135.90	159.94	60	0.27	42.9	130.9
1263	B	10H	4	10	136.10	160.14	0	8.35	73.9	315.1
1263	B	10H	4	10	136.10	160.14	8	2.81	55.9	322.3
1263	B	10H	4	10	136.10	160.14	10	2.44	54.8	324.7
1263	B	10H	4	10	136.10	160.14	15	1.94	52.7	330.1
1263	B	10H	4	10	136.10	160.14	20	1.53	53.0	335.9
1263	B	10H	4	10	136.10	160.14	25	1.17	52.2	340.8
1263	B	10H	4	10	136.10	160.14	30	0.96	48.7	348.4
1263	B	10H	4	10	136.10	160.14	40	0.60	48.0	12.4
1263	B	10H	4	10	136.10	160.14	60	0.34	39.2	34.0
1263	B	10H	4	30	136.30	160.34	0	9.29	81.0	34.9
1263	B	10H	4	30	136.30	160.34	8	2.86	61.9	46.1
1263	B	10H	4	30	136.30	160.34	10	2.54	59.2	46.5
1263	B	10H	4	30	136.30	160.34	15	1.89	55.7	45.5

1263	B	10H	4	30	136.30	160.34	20	1.44	58.0	49.8
1263	B	10H	4	30	136.30	160.34	25	1.16	54.9	48.3
1263	B	10H	4	30	136.30	160.34	30	0.86	49.3	49.3
1263	B	10H	4	30	136.30	160.34	40	0.62	49.2	48.4
1263	B	10H	4	30	136.30	160.34	60	0.29	27.9	47.2
1263	B	10H	4	50	136.50	160.54	0	4.69	69.4	291.5
1263	B	10H	4	50	136.50	160.54	8	1.73	-58.8	268.5
1263	B	10H	4	50	136.50	160.54	10	1.67	-62.5	270.2
1263	B	10H	4	50	136.50	160.54	15	1.47	-65.9	269.6
1263	B	10H	4	50	136.50	160.54	20	1.22	-67.1	263.0
1263	B	10H	4	50	136.50	160.54	25	0.88	-70.3	249.4
1263	B	10H	4	50	136.50	160.54	30	0.68	-81.7	230.8
1263	B	10H	4	50	136.50	160.54	40	0.40	-77.3	194.6
1263	B	10H	4	50	136.50	160.54	60	0.24	-67.8	164.7
1263	B	10H	4	70	136.70	160.74	0	4.45	76.2	299.6
1263	B	10H	4	70	136.70	160.74	8	2.08	-66.7	220.9
1263	B	10H	4	70	136.70	160.74	10	2.05	-67.6	216.0
1263	B	10H	4	70	136.70	160.74	15	1.76	-69.3	214.3
1263	B	10H	4	70	136.70	160.74	20	1.43	-70.4	212.9
1263	B	10H	4	70	136.70	160.74	25	1.09	-70.4	219.4
1263	B	10H	4	70	136.70	160.74	30	0.83	-71.7	200.2
1263	B	10H	4	70	136.70	160.74	40	0.67	-73.5	195.1
1263	B	10H	4	70	136.70	160.74	60	0.37	-68.8	196.7
1263	B	10H	4	90	136.90	160.94	0	4.35	67.7	356.3
1263	B	10H	4	90	136.90	160.94	8	1.98	-80.8	251.9
1263	B	10H	4	90	136.90	160.94	10	1.91	-79.9	237.1
1263	B	10H	4	90	136.90	160.94	15	1.69	-80.1	226.7
1263	B	10H	4	90	136.90	160.94	20	1.37	-79.7	226.9
1263	B	10H	4	90	136.90	160.94	25	1.08	-80.6	222.3
1263	B	10H	4	90	136.90	160.94	30	0.85	-75.8	217.3
1263	B	10H	4	90	136.90	160.94	40	0.67	-69.0	202.1
1263	B	10H	4	90	136.90	160.94	60	0.38	-46.8	190.5
1263	B	10H	5	40	137.90	161.94	0	6.77	76.4	295.0
1263	B	10H	5	40	137.90	161.94	8	3.40	-51.7	225.4
1263	B	10H	5	40	137.90	161.94	10	3.29	-52.4	223.8
1263	B	10H	5	40	137.90	161.94	15	2.81	-53.8	220.5
1263	B	10H	5	40	137.90	161.94	20	2.28	-55.4	219.8
1263	B	10H	5	40	137.90	161.94	25	1.82	-57.1	220.2
1263	B	10H	5	40	137.90	161.94	30	1.31	-58.9	220.2
1263	B	10H	5	40	137.90	161.94	40	0.87	-56.6	229.9
1263	B	10H	5	40	137.90	161.94	60	0.42	-51.2	215.7
1263	A	16H	2	101	137.81	162.94	0	8.80	70.5	48.2
1263	A	16H	2	101	137.81	162.94	8	2.54	-43.3	110.9
1263	A	16H	2	101	137.81	162.94	10	2.43	-45.2	114.8
1263	A	16H	2	101	137.81	162.94	15	2.08	-47.0	117.7
1263	A	16H	2	101	137.81	162.94	20	1.65	-47.0	115.3
1263	A	16H	2	101	137.81	162.94	25	1.23	-47.8	118.2
1263	A	16H	2	101	137.81	162.94	30	0.99	-46.9	114.0
1263	A	16H	2	101	137.81	162.94	40	0.61	-51.4	117.8
1263	A	16H	2	101	137.81	162.94	60	0.31	-44.2	108.1
1263	A	16H	3	51	138.81	163.94	0	5.94	75.8	152.4
1263	A	16H	3	51	138.81	163.94	8	2.55	-38.9	166.7
1263	A	16H	3	51	138.81	163.94	10	2.44	-40.3	166.8
1263	A	16H	3	51	138.81	163.94	15	2.07	-40.2	165.5
1263	A	16H	3	51	138.81	163.94	20	1.64	-41.6	165.6
1263	A	16H	3	51	138.81	163.94	25	1.27	-43.9	164.0
1263	A	16H	3	51	138.81	163.94	30	0.94	-45.6	159.2
1263	A	16H	3	51	138.81	163.94	40	0.62	-42.7	154.3
1263	A	16H	3	51	138.81	163.94	60	0.32	-47.3	144.2
1263	A	16H	4	1	139.81	164.94	0	6.73	69.1	144.1
1263	A	16H	4	1	139.81	164.94	8	2.38	-12.6	159.7
1263	A	16H	4	1	139.81	164.94	10	2.18	-14.3	160.3
1263	A	16H	4	1	139.81	164.94	15	1.80	-15.8	160.6
1263	A	16H	4	1	139.81	164.94	20	1.42	-15.0	159.6
1263	A	16H	4	1	139.81	164.94	25	1.16	-18.6	157.4
1263	A	16H	4	1	139.81	164.94	30	0.87	-21.3	158.3
1263	A	16H	4	1	139.81	164.94	40	0.49	-24.3	161.6
1263	A	16H	4	1	139.81	164.94	60	0.27	-22.1	166.6
1263	A	16H	4	101	140.81	165.94	0	7.08	81.6	100.5
1263	A	16H	4	101	140.81	165.94	8	2.23	-25.4	119.9

1263	A	16H	4	101	140.81	165.94	10	2.13	-28.3	120.7
1263	A	16H	4	101	140.81	165.94	15	1.76	-30.1	121.3
1263	A	16H	4	101	140.81	165.94	20	1.44	-31.0	123.5
1263	A	16H	4	101	140.81	165.94	25	1.09	-31.7	126.1
1263	A	16H	4	101	140.81	165.94	30	0.81	-38.4	127.5
1263	A	16H	4	101	140.81	165.94	40	0.46	-44.7	112.9
1263	A	16H	4	101	140.81	165.94	60	0.24	-59.9	120.0
1263	A	16H	5	51	141.81	166.94	0	5.57	85.5	109.3
1263	A	16H	5	51	141.81	166.94	8	2.65	-47.4	149.5
1263	A	16H	5	51	141.81	166.94	10	2.53	-47.6	150.2
1263	A	16H	5	51	141.81	166.94	15	2.14	-48.1	148.5
1263	A	16H	5	51	141.81	166.94	20	1.76	-50.0	145.9
1263	A	16H	5	51	141.81	166.94	25	1.38	-51.4	147.5
1263	A	16H	5	51	141.81	166.94	30	1.03	-52.4	137.0
1263	A	16H	5	51	141.81	166.94	40	0.70	-49.7	131.3
1263	A	16H	5	51	141.81	166.94	60	0.36	-50.0	107.5
1263	A	16H	6	1	142.81	167.94	0	3.48	80.4	190.9
1263	A	16H	6	1	142.81	167.94	8	3.34	-31.9	155.9
1263	A	16H	6	1	142.81	167.94	10	3.14	-33.0	155.6
1263	A	16H	6	1	142.81	167.94	15	2.57	-34.5	155.3
1263	A	16H	6	1	142.81	167.94	20	1.99	-35.7	153.3
1263	A	16H	6	1	142.81	167.94	25	1.50	-37.0	150.7
1263	A	16H	6	1	142.81	167.94	30	1.09	-40.2	145.1
1263	A	16H	6	1	142.81	167.94	40	0.77	-40.5	142.9
1263	A	16H	6	1	142.81	167.94	60	0.37	-43.1	102.9
1263	B	11H	2	141	143.91	168.94	0	8.82	60.5	266.9
1263	B	11H	2	141	143.91	168.94	8	4.24	-24.8	242.7
1263	B	11H	2	141	143.91	168.94	10	3.86	-26.9	241.7
1263	B	11H	2	141	143.91	168.94	15	3.15	-28.4	240.1
1263	B	11H	2	141	143.91	168.94	20	2.42	-29.0	239.3
1263	B	11H	2	141	143.91	168.94	25	1.85	-31.7	239.5
1263	B	11H	2	141	143.91	168.94	30	1.36	-37.1	238.3
1263	B	11H	2	141	143.91	168.94	40	0.80	-45.8	233.2
1263	B	11H	2	141	143.91	168.94	60	0.40	-57.6	232.2
1263	B	11H	3	91	144.91	169.94	0	10.10	63.9	289.6
1263	B	11H	3	91	144.91	169.94	8	4.25	-29.2	244.1
1263	B	11H	3	91	144.91	169.94	10	3.96	-31.5	242.3
1263	B	11H	3	91	144.91	169.94	15	3.20	-34.0	240.3
1263	B	11H	3	91	144.91	169.94	20	2.45	-35.3	238.3
1263	B	11H	3	91	144.91	169.94	25	1.79	-39.6	235.7
1263	B	11H	3	91	144.91	169.94	30	1.32	-41.2	234.8
1263	B	11H	3	91	144.91	169.94	40	0.78	-49.7	221.2
1263	B	11H	3	91	144.91	169.94	60	0.36	-63.1	169.9
1263	B	11H	4	41	145.91	170.94	0	6.39	72.5	238.1
1263	B	11H	4	41	145.91	170.94	8	4.06	-38.6	212.5
1263	B	11H	4	41	145.91	170.94	10	3.77	-39.6	211.8
1263	B	11H	4	41	145.91	170.94	15	3.13	-40.2	211.3
1263	B	11H	4	41	145.91	170.94	20	2.42	-41.7	210.5
1263	B	11H	4	41	145.91	170.94	25	1.84	-43.6	209.6
1263	B	11H	4	41	145.91	170.94	30	1.37	-46.5	211.0
1263	B	11H	4	41	145.91	170.94	40	0.82	-49.2	210.4
1263	B	11H	4	41	145.91	170.94	60	0.33	-63.6	201.6
1263	B	11H	4	141	146.91	171.94	0	7.32	88.8	122.8
1263	B	11H	4	141	146.91	171.94	8	1.53	-50.4	162.5
1263	B	11H	4	141	146.91	171.94	10	1.55	-52.9	162.4
1263	B	11H	4	141	146.91	171.94	15	1.30	-54.8	162.9
1263	B	11H	4	141	146.91	171.94	20	1.03	-54.1	165.6
1263	B	11H	4	141	146.91	171.94	25	0.84	-58.3	168.7
1263	B	11H	4	141	146.91	171.94	30	0.64	-67.5	167.6
1263	B	11H	4	141	146.91	171.94	40	0.45	-65.6	165.3
1263	B	11H	4	141	146.91	171.94	60	0.22	-78.5	52.0
1263	B	11H	5	11	147.11	172.14	0	15.60	82.5	193.2
1263	B	11H	5	11	147.11	172.14	8	3.15	35.6	184.5
1263	B	11H	5	11	147.11	172.14	10	2.75	32.4	183.9
1263	B	11H	5	11	147.11	172.14	15	2.08	29.7	182.6
1263	B	11H	5	11	147.11	172.14	20	1.57	29.7	179.7
1263	B	11H	5	11	147.11	172.14	25	1.14	32.4	176.8
1263	B	11H	5	11	147.11	172.14	30	0.82	31.5	167.9
1263	B	11H	5	11	147.11	172.14	40	0.52	34.6	148.1
1263	B	11H	5	11	147.11	172.14	60	0.24	24.3	123.5

1263	B	11H	5	31	147.31	172.34	0	9.96	84.3	266.4
1263	B	11H	5	31	147.31	172.34	8	1.07	40.3	252.8
1263	B	11H	5	31	147.31	172.34	10	0.88	31.6	252.8
1263	B	11H	5	31	147.31	172.34	15	0.64	29.0	250.9
1263	B	11H	5	31	147.31	172.34	20	0.44	32.9	244.5
1263	B	11H	5	31	147.31	172.34	25	0.29	38.0	239.6
1263	B	11H	5	31	147.31	172.34	30	0.21	42.3	265.2
1263	B	11H	5	31	147.31	172.34	40	0.08	75.4	96.6
1263	B	11H	5	31	147.31	172.34	60	0.15	30.1	82.9
1263	B	11H	5	51	147.51	172.54	0	10.70	86.7	302.4
1263	B	11H	5	51	147.51	172.54	8	1.69	73.0	277.0
1263	B	11H	5	51	147.51	172.54	10	1.40	71.6	278.5
1263	B	11H	5	51	147.51	172.54	15	1.09	72.0	281.9
1263	B	11H	5	51	147.51	172.54	20	0.82	77.3	278.6
1263	B	11H	5	51	147.51	172.54	25	0.64	79.7	308.5
1263	B	11H	5	51	147.51	172.54	30	0.49	80.6	338.6
1263	B	11H	5	51	147.51	172.54	40	0.35	67.0	52.1
1263	B	11H	5	51	147.51	172.54	60	0.22	43.7	85.1
1263	B	11H	5	71	147.71	172.74	0	11.10	82.5	246.6
1263	B	11H	5	71	147.71	172.74	8	2.08	-8.7	209.1
1263	B	11H	5	71	147.71	172.74	10	1.90	-12.1	207.8
1263	B	11H	5	71	147.71	172.74	15	1.53	-16.2	206.3
1263	B	11H	5	71	147.71	172.74	20	1.17	-17.5	206.4
1263	B	11H	5	71	147.71	172.74	25	0.82	-17.5	200.0
1263	B	11H	5	71	147.71	172.74	30	0.57	-25.1	193.0
1263	B	11H	5	71	147.71	172.74	40	0.30	-48.3	168.3
1263	B	11H	5	71	147.71	172.74	60	0.26	-38.9	108.9
1263	B	11H	5	91	147.91	172.94	0	17.90	83.1	34.6
1263	B	11H	5	91	147.91	172.94	8	2.88	73.2	123.0
1263	B	11H	5	91	147.91	172.94	10	2.37	69.4	126.9
1263	B	11H	5	91	147.91	172.94	15	1.85	69.2	126.9
1263	B	11H	5	91	147.91	172.94	20	1.44	67.8	124.8
1263	B	11H	5	91	147.91	172.94	25	1.07	65.4	119.4
1263	B	11H	5	91	147.91	172.94	30	0.76	67.0	114.9
1263	B	11H	5	91	147.91	172.94	40	0.54	71.2	76.5
1263	B	11H	5	91	147.91	172.94	60	0.31	57.6	25.4
1263	B	11H	6	41	148.91	173.94	0	12.10	80.1	33.9
1263	B	11H	6	41	148.91	173.94	8	1.98	48.6	111.9
1263	B	11H	6	41	148.91	173.94	10	1.73	44.5	113.6
1263	B	11H	6	41	148.91	173.94	15	1.33	41.1	113.2
1263	B	11H	6	41	148.91	173.94	20	1.08	40.5	112.2
1263	B	11H	6	41	148.91	173.94	25	0.87	40.3	105.8
1263	B	11H	6	41	148.91	173.94	30	0.63	36.0	97.5
1263	B	11H	6	41	148.91	173.94	40	0.44	35.5	89.4
1263	B	11H	6	41	148.91	173.94	60	0.31	15.7	73.6
1263	A	17H	3	80	148.60	174.94	0	11.30	-77.8	357.1
1263	A	17H	3	80	148.60	174.94	8	1.37	-30.4	11.0
1263	A	17H	3	80	148.60	174.94	10	1.11	-19.6	13.2
1263	A	17H	3	80	148.60	174.94	15	0.85	-10.8	14.2
1263	A	17H	3	80	148.60	174.94	20	0.64	-11.0	10.2
1263	A	17H	3	80	148.60	174.94	25	0.50	-14.2	16.9
1263	A	17H	3	80	148.60	174.94	30	0.44	-19.6	15.0
1263	A	17H	3	80	148.60	174.94	40	0.33	-41.9	4.3
1263	A	17H	3	80	148.60	174.94	60	0.14	-36.2	320.1
1263	A	17H	4	30	149.60	175.94	0	12.40	74.0	332.7
1263	A	17H	4	30	149.60	175.94	8	1.72	59.1	347.0
1263	A	17H	4	30	149.60	175.94	10	1.34	55.6	350.8
1263	A	17H	4	30	149.60	175.94	15	0.98	51.7	354.3
1263	A	17H	4	30	149.60	175.94	20	0.73	50.3	355.0
1263	A	17H	4	30	149.60	175.94	25	0.54	44.3	354.1
1263	A	17H	4	30	149.60	175.94	30	0.43	44.1	5.8
1263	A	17H	4	30	149.60	175.94	40	0.32	36.2	13.8
1263	A	17H	4	30	149.60	175.94	60	0.23	25.0	33.9
1263	A	17H	4	130	150.60	176.94	0	21.40	77.3	337.9
1263	A	17H	4	130	150.60	176.94	8	4.01	71.8	321.4
1263	A	17H	4	130	150.60	176.94	10	3.13	69.7	321.1
1263	A	17H	4	130	150.60	176.94	15	2.21	69.1	323.1
1263	A	17H	4	130	150.60	176.94	20	1.62	67.5	323.6
1263	A	17H	4	130	150.60	176.94	25	1.20	66.1	338.2
1263	A	17H	4	130	150.60	176.94	30	0.84	68.1	353.8

1263	A	17H	4	130	150.60	176.94	40	0.49	69.9	19.4
1263	A	17H	4	130	150.60	176.94	60	0.24	35.9	30.5
1263	A	17H	5	80	151.60	177.94	0	10.20	58.8	330.9
1263	A	17H	5	80	151.60	177.94	8	2.83	14.7	316.7
1263	A	17H	5	80	151.60	177.94	10	2.40	11.9	316.2
1263	A	17H	5	80	151.60	177.94	15	1.80	8.6	317.6
1263	A	17H	5	80	151.60	177.94	20	1.29	9.7	317.4
1263	A	17H	5	80	151.60	177.94	25	0.91	10.5	318.9
1263	A	17H	5	80	151.60	177.94	30	0.65	12.9	323.4
1263	A	17H	5	80	151.60	177.94	40	0.35	19.3	332.7
1263	A	17H	5	80	151.60	177.94	60	0.12	17.0	25.6
1263	B	12H	2	74	152.74	178.94	0	6.46	33.7	317.2
1263	B	12H	2	74	152.74	178.94	8	3.12	-9.3	299.2
1263	B	12H	2	74	152.74	178.94	10	2.80	-11.8	298.4
1263	B	12H	2	74	152.74	178.94	15	2.17	-15.0	298.2
1263	B	12H	2	74	152.74	178.94	20	1.65	-16.3	296.9
1263	B	12H	2	74	152.74	178.94	25	1.15	-18.2	302.2
1263	B	12H	2	74	152.74	178.94	30	0.77	-14.4	298.9
1263	B	12H	2	74	152.74	178.94	40	0.44	2.7	307.7
1263	B	12H	2	74	152.74	178.94	60	0.09	36.8	297.2
1263	B	12H	3	24	153.74	179.94	0	4.59	63.3	355.7
1263	B	12H	3	24	153.74	179.94	8	1.03	38.9	22.4
1263	B	12H	3	24	153.74	179.94	10	0.85	35.1	19.9
1263	B	12H	3	24	153.74	179.94	15	0.61	27.9	19.7
1263	B	12H	3	24	153.74	179.94	20	0.47	25.4	18.7
1263	B	12H	3	24	153.74	179.94	25	0.34	26.8	20.7
1263	B	12H	3	24	153.74	179.94	30	0.28	28.3	35.5
1263	B	12H	3	24	153.74	179.94	40	0.20	24.9	49.5
1263	B	12H	3	24	153.74	179.94	60	0.21	30.7	54.3
1263	B	12H	4	39	154.74	180.94	0	4.72	44.5	328.3
1263	B	12H	4	39	154.74	180.94	8	1.88	15.3	315.7
1263	B	12H	4	39	154.74	180.94	10	1.67	13.8	315.7
1263	B	12H	4	39	154.74	180.94	15	1.35	13.1	318.0
1263	B	12H	4	39	154.74	180.94	20	1.07	13.3	317.5
1263	B	12H	4	39	154.74	180.94	25	0.83	13.7	321.0
1263	B	12H	4	39	154.74	180.94	30	0.61	18.9	321.3
1263	B	12H	4	39	154.74	180.94	40	0.31	11.6	321.7
1263	B	12H	4	39	154.74	180.94	60	0.14	0.5	341.6
1263	B	12H	5	54	155.74	181.94	0	4.43	37.2	25.8
1263	B	12H	5	54	155.74	181.94	8	2.53	-1.7	50.1
1263	B	12H	5	54	155.74	181.94	10	2.25	-3.6	50.9
1263	B	12H	5	54	155.74	181.94	15	1.80	-5.5	53.3
1263	B	12H	5	54	155.74	181.94	20	1.37	-3.9	52.9
1263	B	12H	5	54	155.74	181.94	25	1.04	-2.7	51.6
1263	B	12H	5	54	155.74	181.94	30	0.70	0.6	52.9
1263	B	12H	5	54	155.74	181.94	40	0.41	3.9	61.8
1263	B	12H	5	54	155.74	181.94	60	0.25	14.3	69.7
1263	B	12H	6	4	156.74	182.94	0	6.88	38.0	310.5
1263	B	12H	6	4	156.74	182.94	8	3.93	13.4	296.5
1263	B	12H	6	4	156.74	182.94	10	3.45	13.0	296.3
1263	B	12H	6	4	156.74	182.94	15	2.68	12.3	296.0
1263	B	12H	6	4	156.74	182.94	20	1.92	12.3	295.8
1263	B	12H	6	4	156.74	182.94	25	1.32	12.8	298.5
1263	B	12H	6	4	156.74	182.94	30	0.98	14.0	299.8
1263	B	12H	6	4	156.74	182.94	40	0.51	16.4	302.0
1263	B	12H	6	4	156.74	182.94	60	0.16	7.6	308.0
1263	A	18H	2	70	180.44	183.94	0	9.19	87.9	314.8
1263	A	18H	2	70	180.44	183.94	8	2.46	85.6	176.5
1263	A	18H	2	70	180.44	183.94	10	2.15	84.8	160.1
1263	A	18H	2	70	180.44	183.94	15	1.73	82.1	161.1
1263	A	18H	2	70	180.44	183.94	20	1.26	81.0	184.2
1263	A	18H	2	70	180.44	183.94	25	0.97	76.5	154.5
1263	A	18H	2	70	180.44	183.94	30	0.70	74.0	139.4
1263	A	18H	2	70	180.44	183.94	40	0.48	72.2	119.5
1263	A	18H	2	70	180.44	183.94	60	0.17	67.7	69.1
1263	A	18H	3	20	181.44	184.94	0	7.52	85.4	6.0
1263	A	18H	3	20	181.44	184.94	8	2.05	78.5	125.3
1263	A	18H	3	20	181.44	184.94	10	1.76	77.7	124.7
1263	A	18H	3	20	181.44	184.94	15	1.40	74.6	128.6
1263	A	18H	3	20	181.44	184.94	20	1.05	75.3	113.0

1263	A	18H	3	20	181.44	184.94	25	0.80	71.3	107.1
1263	A	18H	3	20	181.44	184.94	30	0.58	73.1	98.0
1263	A	18H	3	20	181.44	184.94	40	0.32	66.0	103.8
1263	A	18H	3	20	181.44	184.94	60	0.20	31.2	133.3
1263	A	18H	3	120	182.44	185.94	0	7.72	84.5	166.3
1263	A	18H	3	120	182.44	185.94	8	3.34	54.3	143.8
1263	A	18H	3	120	182.44	185.94	10	3.00	52.9	141.9
1263	A	18H	3	120	182.44	185.94	15	2.41	53.5	141.2
1263	A	18H	3	120	182.44	185.94	20	1.82	54.8	139.6
1263	A	18H	3	120	182.44	185.94	25	1.31	55.2	137.0
1263	A	18H	3	120	182.44	185.94	30	0.92	53.6	139.0
1263	A	18H	3	120	182.44	185.94	40	0.51	58.2	128.8
1263	A	18H	3	120	182.44	185.94	60	0.21	39.4	124.5
1263	A	18H	4	70	183.44	186.94	0	7.98	77.3	35.9
1263	A	18H	4	70	183.44	186.94	8	1.53	70.2	54.7
1263	A	18H	4	70	183.44	186.94	10	1.32	68.9	59.0
1263	A	18H	4	70	183.44	186.94	15	1.07	69.8	64.9
1263	A	18H	4	70	183.44	186.94	20	0.86	67.3	62.8
1263	A	18H	4	70	183.44	186.94	25	0.69	64.6	62.4
1263	A	18H	4	70	183.44	186.94	30	0.55	67.9	67.8
1263	A	18H	4	70	183.44	186.94	40	0.33	56.5	64.1
1263	A	18H	4	70	183.44	186.94	60	0.18	54.0	38.8
1263	A	18H	5	20	184.44	187.94	0	6.71	71.5	119.1
1263	A	18H	5	20	184.44	187.94	8	2.23	70.9	115.8
1263	A	18H	5	20	184.44	187.94	10	2.00	70.0	114.2
1263	A	18H	5	20	184.44	187.94	15	1.60	69.2	114.4
1263	A	18H	5	20	184.44	187.94	20	1.26	68.9	112.1
1263	A	18H	5	20	184.44	187.94	25	0.95	68.8	104.8
1263	A	18H	5	20	184.44	187.94	30	0.77	62.6	104.8
1263	A	18H	5	20	184.44	187.94	40	0.50	63.7	105.2
1263	A	18H	5	20	184.44	187.94	60	0.28	54.4	110.9
1263	B	13H	1	77	160.77	188.94	0	10.50	74.9	13.2
1263	B	13H	1	77	160.77	188.94	8	3.01	83.9	4.0
1263	B	13H	1	77	160.77	188.94	10	2.65	84.7	7.9
1263	B	13H	1	77	160.77	188.94	15	2.16	84.3	25.5
1263	B	13H	1	77	160.77	188.94	20	1.75	85.1	35.4
1263	B	13H	1	77	160.77	188.94	25	1.36	81.3	55.1
1263	B	13H	1	77	160.77	188.94	30	0.99	83.0	71.3
1263	B	13H	1	77	160.77	188.94	40	0.52	77.3	83.3
1263	B	13H	1	77	160.77	188.94	60	0.15	47.7	111.8
1263	B	13H	2	27	161.77	189.94	0	7.38	76.4	66.0
1263	B	13H	2	27	161.77	189.94	8	2.60	62.2	130.2
1263	B	13H	2	27	161.77	189.94	10	2.34	60.8	130.7
1263	B	13H	2	27	161.77	189.94	15	1.90	60.3	132.6
1263	B	13H	2	27	161.77	189.94	20	1.52	59.3	130.5
1263	B	13H	2	27	161.77	189.94	25	1.14	60.2	131.5
1263	B	13H	2	27	161.77	189.94	30	0.82	59.3	127.0
1263	B	13H	2	27	161.77	189.94	40	0.50	54.9	117.8
1263	B	13H	2	27	161.77	189.94	60	0.23	42.2	112.4
1263	B	13H	2	127	162.77	190.94	0	7.12	79.3	76.2
1263	B	13H	2	127	162.77	190.94	8	2.11	44.4	147.8
1263	B	13H	2	127	162.77	190.94	10	1.89	41.5	148.5
1263	B	13H	2	127	162.77	190.94	15	1.50	39.3	148.5
1263	B	13H	2	127	162.77	190.94	20	1.14	39.0	147.9
1263	B	13H	2	127	162.77	190.94	25	0.88	40.2	151.1
1263	B	13H	2	127	162.77	190.94	30	0.58	43.8	146.3
1263	B	13H	2	127	162.77	190.94	40	0.37	48.4	130.3
1263	B	13H	2	127	162.77	190.94	60	0.21	24.3	76.3
1263	B	13H	3	77	163.77	191.94	0	7.05	72.1	60.9
1263	B	13H	3	77	163.77	191.94	8	2.33	49.3	119.0
1263	B	13H	3	77	163.77	191.94	10	2.08	47.9	120.3
1263	B	13H	3	77	163.77	191.94	15	1.71	47.7	119.2
1263	B	13H	3	77	163.77	191.94	20	1.35	48.2	117.4
1263	B	13H	3	77	163.77	191.94	25	1.04	50.6	117.1
1263	B	13H	3	77	163.77	191.94	30	0.79	50.2	114.9
1263	B	13H	3	77	163.77	191.94	40	0.45	50.5	109.5
1263	B	13H	3	77	163.77	191.94	60	0.22	36.7	66.5
1263	B	13H	4	27	164.77	192.94	0	7.02	84.4	56.9
1263	B	13H	4	27	164.77	192.94	8	1.37	54.0	140.6
1263	B	13H	4	27	164.77	192.94	10	1.28	51.0	142.1

1263	B	13H	4	27	164.77	192.94	15	1.07	49.1	142.1
1263	B	13H	4	27	164.77	192.94	20	0.90	48.5	144.8
1263	B	13H	4	27	164.77	192.94	25	0.68	50.1	138.6
1263	B	13H	4	27	164.77	192.94	30	0.53	52.7	136.1
1263	B	13H	4	27	164.77	192.94	40	0.29	47.8	123.5
1263	B	13H	4	27	164.77	192.94	60	0.14	48.1	117.1
1263	B	13H	4	127	165.77	193.94	0	9.12	78.7	345.0
1263	B	13H	4	127	165.77	193.94	8	1.21	73.8	241.5
1263	B	13H	4	127	165.77	193.94	10	1.00	71.0	228.4
1263	B	13H	4	127	165.77	193.94	15	0.80	70.7	214.3
1263	B	13H	4	127	165.77	193.94	20	0.61	74.2	203.4
1263	B	13H	4	127	165.77	193.94	25	0.45	75.0	192.8
1263	B	13H	4	127	165.77	193.94	30	0.29	70.3	183.9
1263	B	13H	4	127	165.77	193.94	40	0.21	65.8	126.4
1263	B	13H	4	127	165.77	193.94	60	0.12	3.8	65.7
1263	A	19H	2	58	165.88	194.94	0	3.32	60.8	260.1
1263	A	19H	2	58	165.88	194.94	8	2.50	30.1	223.0
1263	A	19H	2	58	165.88	194.94	10	2.29	29.0	221.8
1263	A	19H	2	58	165.88	194.94	15	1.84	26.7	221.1
1263	A	19H	2	58	165.88	194.94	20	1.35	28.4	220.5
1263	A	19H	2	58	165.88	194.94	25	1.00	30.1	218.2
1263	A	19H	2	58	165.88	194.94	30	0.72	35.8	217.2
1263	A	19H	2	58	165.88	194.94	40	0.35	38.3	208.8
1263	A	19H	2	58	165.88	194.94	60	0.13	20.3	173.5
1263	A	19H	3	8	166.88	195.94	0	4.30	62.8	328.0
1263	A	19H	3	8	166.88	195.94	8	1.73	57.1	291.9
1263	A	19H	3	8	166.88	195.94	10	1.50	55.5	289.8
1263	A	19H	3	8	166.88	195.94	15	1.22	55.7	286.0
1263	A	19H	3	8	166.88	195.94	20	0.91	57.6	282.6
1263	A	19H	3	8	166.88	195.94	25	0.72	59.8	279.3
1263	A	19H	3	8	166.88	195.94	30	0.57	64.8	275.4
1263	A	19H	3	8	166.88	195.94	40	0.30	62.1	265.7
1263	A	19H	3	8	166.88	195.94	60	0.11	58.1	100.3
1263	A	19H	3	108	167.88	196.94	0	2.99	55.6	17.5
1263	A	19H	3	108	167.88	196.94	8	0.50	60.1	74.4
1263	A	19H	3	108	167.88	196.94	10	2.81	60.8	154.3
1263	A	19H	3	108	167.88	196.94	15	2.06	63.5	170.1
1263	A	19H	3	108	167.88	196.94	20	1.28	71.5	204.6
1263	A	19H	3	108	167.88	196.94	25	1.03	70.4	212.4
1263	A	19H	3	108	167.88	196.94	30	0.73	71.1	227.7
1263	A	19H	3	108	167.88	196.94	40	0.42	74.8	212.4
1263	A	19H	3	108	167.88	196.94	60	0.15	76.1	133.1
1263	A	19H	4	58	168.88	197.94	0	2.48	80.6	79.4
1263	A	19H	4	58	168.88	197.94	8	1.43	27.3	158.2
1263	A	19H	4	58	168.88	197.94	10	1.30	24.4	158.4
1263	A	19H	4	58	168.88	197.94	15	1.05	21.7	158.9
1263	A	19H	4	58	168.88	197.94	20	0.77	23.1	158.9
1263	A	19H	4	58	168.88	197.94	25	0.54	19.0	157.8
1263	A	19H	4	58	168.88	197.94	30	0.39	18.1	152.1
1263	A	19H	4	58	168.88	197.94	40	0.17	12.4	156.5
1263	A	19H	4	58	168.88	197.94	60	0.08	29.2	171.0
1263	A	19H	5	8	169.88	198.94	0	6.70	53.4	346.8
1263	A	19H	5	8	169.88	198.94	8	2.02	41.2	321.5
1263	A	19H	5	8	169.88	198.94	10	1.60	39.0	315.7
1263	A	19H	5	8	169.88	198.94	15	1.13	34.5	317.1
1263	A	19H	5	8	169.88	198.94	20	0.76	27.2	315.5
1263	A	19H	5	8	169.88	198.94	25	0.47	22.0	317.3
1263	A	19H	5	8	169.88	198.94	30	0.29	17.3	324.2
1263	A	19H	5	8	169.88	198.94	40	0.08	-29.2	53.4
1263	A	19H	5	8	169.88	198.94	60	0.21	-23.2	59.7
1263	A	19H	5	108	170.88	199.94	0	11.70	54.2	357.3
1263	A	19H	5	108	170.88	199.94	8	2.36	27.8	356.7
1263	A	19H	5	108	170.88	199.94	10	1.71	21.6	356.9
1263	A	19H	5	108	170.88	199.94	15	1.05	13.5	357.4
1263	A	19H	5	108	170.88	199.94	20	0.61	5.0	1.0
1263	A	19H	5	108	170.88	199.94	25	0.49	-1.6	12.4
1263	A	19H	5	108	170.88	199.94	30	0.37	-11.9	22.7
1263	A	19H	5	108	170.88	199.94	40	0.31	-14.5	47.5
1263	A	19H	5	108	170.88	199.94	60	0.46	-3.4	71.5
1263	B	14H	1	77	170.27	199.94	0	12.10	65.6	317.3

1263	B	14H	1	77	170.27	199.94	8	2.40	28.1	306.5
1263	B	14H	1	77	170.27	199.94	10	1.76	21.1	304.5
1263	B	14H	1	77	170.27	199.94	15	1.13	11.2	305.8
1263	B	14H	1	77	170.27	199.94	20	0.77	1.3	308.0
1263	B	14H	1	77	170.27	199.94	25	0.59	-11.8	324.3
1263	B	14H	1	77	170.27	199.94	30	0.51	-25.4	333.9
1263	B	14H	1	77	170.27	199.94	40	0.34	-20.7	351.0
1263	B	14H	1	77	170.27	199.94	60	0.46	-26.1	21.9
1263	B	14H	1	97	170.47	200.14	0	2.30	39.8	281.9
1263	B	14H	1	97	170.47	200.14	8	1.51	-44.3	259.4
1263	B	14H	1	97	170.47	200.14	10	1.36	-47.2	255.8
1263	B	14H	1	97	170.47	200.14	15	1.08	-49.0	254.4
1263	B	14H	1	97	170.47	200.14	20	0.85	-52.6	255.3
1263	B	14H	1	97	170.47	200.14	25	0.64	-54.8	253.4
1263	B	14H	1	97	170.47	200.14	30	0.44	-50.6	254.5
1263	B	14H	1	97	170.47	200.14	40	0.24	-51.3	249.7
1263	B	14H	1	97	170.47	200.14	60	0.09	-43.5	116.0
1263	B	14H	1	117	170.67	200.34	0	3.34	66.1	304.1
1263	B	14H	1	117	170.67	200.34	8	0.64	-26.5	238.6
1263	B	14H	1	117	170.67	200.34	10	0.65	-33.9	230.3
1263	B	14H	1	117	170.67	200.34	15	0.54	-34.1	227.4
1263	B	14H	1	117	170.67	200.34	20	0.39	-44.4	216.4
1263	B	14H	1	117	170.67	200.34	25	0.29	-44.1	220.7
1263	B	14H	1	117	170.67	200.34	30	0.18	-69.0	216.9
1263	B	14H	1	117	170.67	200.34	40	0.14	-48.9	197.9
1263	B	14H	1	117	170.67	200.34	60	0.13	-67.8	113.9
1263	B	14H	1	137	170.87	200.54	0	3.84	64.0	298.6
1263	B	14H	1	137	170.87	200.54	8	0.72	7.9	275.4
1263	B	14H	1	137	170.87	200.54	10	0.65	1.0	267.9
1263	B	14H	1	137	170.87	200.54	15	0.44	-6.0	267.7
1263	B	14H	1	137	170.87	200.54	20	0.44	-8.5	267.8
1263	B	14H	1	137	170.87	200.54	25	0.27	-5.7	260.2
1263	B	14H	1	137	170.87	200.54	30	0.16	-24.5	270.5
1263	B	14H	1	137	170.87	200.54	40	0.13	-34.8	244.7
1263	B	14H	1	137	170.87	200.54	60	0.07	-48.6	46.3
1263	B	14H	2	7	171.02	200.74	0	2.47	34.8	283.4
1263	B	14H	2	7	171.02	200.74	8	1.46	-35.1	258.6
1263	B	14H	2	7	171.02	200.74	10	1.32	-37.1	256.0
1263	B	14H	2	7	171.02	200.74	15	1.07	-40.1	254.9
1263	B	14H	2	7	171.02	200.74	20	0.83	-42.2	255.4
1263	B	14H	2	7	171.02	200.74	25	0.62	-42.4	255.2
1263	B	14H	2	7	171.02	200.74	30	0.42	-49.9	254.4
1263	B	14H	2	7	171.02	200.74	40	0.20	-60.8	255.8
1263	B	14H	2	7	171.02	200.74	60	0.12	-57.5	229.0
1263	B	14H	2	27	171.26	200.94	0	3.45	50.6	344.2
1263	B	14H	2	27	171.26	200.94	8	0.60	-21.7	266.6
1263	B	14H	2	27	171.26	200.94	10	0.59	-31.4	260.1
1263	B	14H	2	27	171.26	200.94	15	0.50	-42.5	255.8
1263	B	14H	2	27	171.26	200.94	20	0.38	-47.7	264.4
1263	B	14H	2	27	171.26	200.94	25	0.29	-52.6	262.4
1263	B	14H	2	27	171.26	200.94	30	0.24	-73.1	301.5
1263	B	14H	2	27	171.26	200.94	40	0.13	-67.0	301.5
1263	B	14H	2	27	171.26	200.94	60	0.15	-27.3	47.2
1263	B	14H	2	47	171.47	201.14	0	1.23	-15.9	311.2
1263	B	14H	2	47	171.47	201.14	8	1.78	-83.9	245.7
1263	B	14H	2	47	171.47	201.14	10	1.64	-84.2	236.5
1263	B	14H	2	47	171.47	201.14	15	1.36	-83.8	229.4
1263	B	14H	2	47	171.47	201.14	20	1.06	-83.7	221.7
1263	B	14H	2	47	171.47	201.14	25	0.86	-83.9	202.1
1263	B	14H	2	47	171.47	201.14	30	0.64	-86.7	275.3
1263	B	14H	2	47	171.47	201.14	40	0.34	-86.4	10.4
1263	B	14H	2	47	171.47	201.14	60	0.15	-78.4	348.6
1263	B	14H	2	127	172.27	201.94	0	5.06	-39.2	346.9
1263	B	14H	2	127	172.27	201.94	8	3.63	-70.4	294.8
1263	B	14H	2	127	172.27	201.94	10	3.17	-62.3	304.6
1263	B	14H	2	127	172.27	201.94	15	2.11	-61.3	309.2
1263	B	14H	2	127	172.27	201.94	20	1.36	-49.0	308.3
1263	B	14H	2	127	172.27	201.94	25	0.87	-48.6	313.3
1263	B	14H	2	127	172.27	201.94	30	0.57	-47.1	318.4
1263	B	14H	2	127	172.27	201.94	40	0.28	-42.2	347.0

1263	B	14H	2	127	172.27	201.94	60	0.17	-39.7	25.2
1263	B	14H	3	77	173.27	202.94	0	7.33	47.1	332.3
1263	B	14H	3	77	173.27	202.94	8	2.41	19.4	306.5
1263	B	14H	3	77	173.27	202.94	10	2.06	16.6	304.5
1263	B	14H	3	77	173.27	202.94	15	1.56	10.8	302.2
1263	B	14H	3	77	173.27	202.94	20	1.17	6.7	304.6
1263	B	14H	3	77	173.27	202.94	25	0.89	1.9	305.6
1263	B	14H	3	77	173.27	202.94	30	0.61	0.6	305.1
1263	B	14H	3	77	173.27	202.94	40	0.33	-6.7	309.0
1263	B	14H	3	77	173.27	202.94	60	0.15	6.8	292.1
1263	B	14H	4	27	174.27	203.94	0	2.95	10.1	332.4
1263	B	14H	4	27	174.27	203.94	8	1.77	-62.0	290.4
1263	B	14H	4	27	174.27	203.94	10	1.65	-63.1	286.3
1263	B	14H	4	27	174.27	203.94	15	1.34	-64.4	280.8
1263	B	14H	4	27	174.27	203.94	20	1.07	-65.1	277.4
1263	B	14H	4	27	174.27	203.94	25	0.81	-65.6	270.0
1263	B	14H	4	27	174.27	203.94	30	0.63	-68.1	272.4
1263	B	14H	4	27	174.27	203.94	40	0.35	-65.8	275.7
1263	B	14H	4	27	174.27	203.94	60	0.09	-58.4	42.0
1263	B	14H	4	127	175.27	204.94	0	4.07	43.3	344.5
1263	B	14H	4	127	175.27	204.94	8	1.05	-25.5	343.2
1263	B	14H	4	127	175.27	204.94	10	0.97	-31.8	343.3
1263	B	14H	4	127	175.27	204.94	15	0.77	-40.1	344.2
1263	B	14H	4	127	175.27	204.94	20	0.62	-44.0	342.1
1263	B	14H	4	127	175.27	204.94	25	0.47	-47.4	339.9
1263	B	14H	4	127	175.27	204.94	30	0.36	-47.8	344.8
1263	B	14H	4	127	175.27	204.94	40	0.24	-57.3	4.9
1263	B	14H	4	127	175.27	204.94	60	0.08	-72.6	7.3
1263	B	14H	5	77	176.27	205.94	0	2.32	12.7	351.7
1263	B	14H	5	77	176.27	205.94	8	1.50	-70.3	332.2
1263	B	14H	5	77	176.27	205.94	10	1.40	-72.2	327.9
1263	B	14H	5	77	176.27	205.94	15	1.17	-75.1	321.3
1263	B	14H	5	77	176.27	205.94	20	0.95	-76.7	322.5
1263	B	14H	5	77	176.27	205.94	25	0.72	-79.3	326.9
1263	B	14H	5	77	176.27	205.94	30	0.52	-78.0	339.2
1263	B	14H	5	77	176.27	205.94	40	0.29	-78.2	335.8
1263	B	14H	5	77	176.27	205.94	60	0.09	-76.5	116.5
1263	A	20H	2	78	175.58	206.94	0	5.96	46.5	266.7
1263	A	20H	2	78	175.58	206.94	8	5.19	-19.0	236.0
1263	A	20H	2	78	175.58	206.94	10	4.68	-19.8	235.1
1263	A	20H	2	78	175.58	206.94	15	3.70	-20.9	234.2
1263	A	20H	2	78	175.58	206.94	20	2.73	-21.1	232.5
1263	A	20H	2	78	175.58	206.94	25	2.03	-22.7	230.0
1263	A	20H	2	78	175.58	206.94	30	1.38	-21.3	228.0
1263	A	20H	2	78	175.58	206.94	40	0.76	-24.2	217.0
1263	A	20H	2	78	175.58	206.94	60	0.25	-27.8	188.9
1263	A	20H	3	28	176.58	207.94	0	7.47	74.7	285.1
1263	A	20H	3	28	176.58	207.94	8	1.94	3.9	208.0
1263	A	20H	3	28	176.58	207.94	10	1.74	-0.7	205.5
1263	A	20H	3	28	176.58	207.94	15	1.41	-3.9	204.7
1263	A	20H	3	28	176.58	207.94	20	1.08	-5.1	202.6
1263	A	20H	3	28	176.58	207.94	25	0.84	-6.6	200.9
1263	A	20H	3	28	176.58	207.94	30	0.57	-12.3	197.8
1263	A	20H	3	28	176.58	207.94	40	0.40	-14.4	180.5
1263	A	20H	3	28	176.58	207.94	60	0.20	-16.4	171.3
1263	A	20H	3	128	177.58	208.94	0	12.40	72.8	349.6
1263	A	20H	3	128	177.58	208.94	8	2.21	9.1	256.3
1263	A	20H	3	128	177.58	208.94	10	2.01	2.0	252.8
1263	A	20H	3	128	177.58	208.94	15	1.55	-2.9	249.3
1263	A	20H	3	128	177.58	208.94	20	1.14	-5.5	245.8
1263	A	20H	3	128	177.58	208.94	25	0.79	-6.1	240.7
1263	A	20H	3	128	177.58	208.94	30	0.50	-8.7	234.0
1263	A	20H	3	128	177.58	208.94	40	0.31	-11.6	187.4
1263	A	20H	3	128	177.58	208.94	60	0.32	-9.9	154.0
1263	A	20H	4	78	178.58	209.94	0	4.89	57.8	292.2
1263	A	20H	4	78	178.58	209.94	8	2.29	6.9	238.1
1263	A	20H	4	78	178.58	209.94	10	2.07	6.1	237.2
1263	A	20H	4	78	178.58	209.94	15	1.60	5.8	236.8
1263	A	20H	4	78	178.58	209.94	20	1.23	4.1	236.6
1263	A	20H	4	78	178.58	209.94	25	0.90	4.7	239.1

1263	A	20H	4	78	178.58	209.94	30	0.62	-3.0	235.4
1263	A	20H	4	78	178.58	209.94	40	0.31	-2.7	232.7
1263	A	20H	4	78	178.58	209.94	60	0.08	-24.1	219.7
1263	B	15H	3	20	180.20	211.05	0	2.25	68.9	60.6
1263	B	15H	3	20	180.20	211.05	8	1.63	-41.5	144.5
1263	B	15H	3	20	180.20	211.05	10	1.56	-42.3	145.3
1263	B	15H	3	20	180.20	211.05	15	1.26	-44.1	146.5
1263	B	15H	3	20	180.20	211.05	20	1.01	-44.5	147.3
1263	B	15H	3	20	180.20	211.05	25	0.76	-44.2	147.8
1263	B	15H	3	20	180.20	211.05	30	0.57	-43.1	147.3
1263	B	15H	3	20	180.20	211.05	40	0.33	-50.7	148.9
1263	B	15H	3	20	180.20	211.05	60	0.15	-49.1	155.8
1263	B	15H	3	109	181.09	211.94	0	4.26	68.4	65.2
1263	B	15H	3	109	181.09	211.94	8	2.20	-11.5	125.5
1263	B	15H	3	109	181.09	211.94	10	2.00	-11.6	124.5
1263	B	15H	3	109	181.09	211.94	15	1.64	-12.7	125.6
1263	B	15H	3	109	181.09	211.94	20	1.30	-14.0	125.2
1263	B	15H	3	109	181.09	211.94	25	1.01	-17.0	124.6
1263	B	15H	3	109	181.09	211.94	30	0.72	-17.0	127.6
1263	B	15H	3	109	181.09	211.94	40	0.42	-21.2	127.9
1263	B	15H	3	109	181.09	211.94	60	0.20	-30.9	105.7
1263	B	15H	4	59	182.09	212.94	0	4.91	74.5	318.0
1263	B	15H	4	59	182.09	212.94	8	1.25	-23.3	207.9
1263	B	15H	4	59	182.09	212.94	10	1.13	-25.4	201.9
1263	B	15H	4	59	182.09	212.94	15	0.94	-26.6	202.1
1263	B	15H	4	59	182.09	212.94	20	0.75	-31.2	195.7
1263	B	15H	4	59	182.09	212.94	25	0.59	-31.0	189.2
1263	B	15H	4	59	182.09	212.94	30	0.36	-31.8	176.7
1263	B	15H	4	59	182.09	212.94	40	0.24	-45.0	148.5
1263	B	15H	4	59	182.09	212.94	60	0.12	-56.5	124.8
1263	B	15H	5	9	183.09	213.94	0	3.83	71.9	64.9
1263	B	15H	5	9	183.09	213.94	8	1.66	-19.7	146.1
1263	B	15H	5	9	183.09	213.94	10	1.57	-20.3	143.4
1263	B	15H	5	9	183.09	213.94	15	1.33	-22.1	144.4
1263	B	15H	5	9	183.09	213.94	20	1.07	-23.6	144.2
1263	B	15H	5	9	183.09	213.94	25	0.83	-27.8	141.9
1263	B	15H	5	9	183.09	213.94	30	0.61	-29.5	139.8
1263	B	15H	5	9	183.09	213.94	40	0.35	-31.5	138.4
1263	B	15H	5	9	183.09	213.94	60	0.17	-16.8	112.7
1263	B	15H	5	109	184.09	214.94	0	3.66	80.6	24.5
1263	B	15H	5	109	184.09	214.94	8	1.60	-38.1	143.3
1263	B	15H	5	109	184.09	214.94	10	1.56	-38.6	139.1
1263	B	15H	5	109	184.09	214.94	15	1.31	-39.1	139.9
1263	B	15H	5	109	184.09	214.94	20	1.07	-38.8	138.1
1263	B	15H	5	109	184.09	214.94	25	0.86	-40.9	134.0
1263	B	15H	5	109	184.09	214.94	30	0.60	-42.2	133.6
1263	B	15H	5	109	184.09	214.94	40	0.38	-40.5	126.4
1263	B	15H	5	109	184.09	214.94	60	0.16	-40.5	91.2
1263	B	15H	6	39	184.89	215.74	0	3.04	76.0	160.7
1263	B	15H	6	39	184.89	215.74	8	2.21	-47.6	165.0
1263	B	15H	6	39	184.89	215.74	10	2.07	-48.0	164.8
1263	B	15H	6	39	184.89	215.74	15	1.74	-48.3	163.3
1263	B	15H	6	39	184.89	215.74	20	1.42	-49.4	162.0
1263	B	15H	6	39	184.89	215.74	25	1.11	-49.5	158.7
1263	B	15H	6	39	184.89	215.74	30	0.80	-50.5	154.6
1263	B	15H	6	39	184.89	215.74	40	0.43	-53.3	145.5
1263	B	15H	6	39	184.89	215.74	60	0.15	-55.2	119.1
1263	B	15H	6	59	185.09	215.94	0	2.36	70.3	48.3
1263	B	15H	6	59	185.09	215.94	8	1.25	-45.3	155.8
1263	B	15H	6	59	185.09	215.94	10	1.18	-45.1	151.0
1263	B	15H	6	59	185.09	215.94	15	1.02	-44.6	149.5
1263	B	15H	6	59	185.09	215.94	20	0.86	-45.0	148.2
1263	B	15H	6	59	185.09	215.94	25	0.70	-46.5	147.3
1263	B	15H	6	59	185.09	215.94	30	0.53	-44.3	142.1
1263	B	15H	6	59	185.09	215.94	40	0.28	-44.6	140.0
1263	B	15H	6	59	185.09	215.94	60	0.14	-53.3	110.3
1263	B	15H	6	79	185.29	216.14	0	4.49	58.6	130.7
1263	B	15H	6	79	185.29	216.14	8	2.75	-38.0	154.1
1263	B	15H	6	79	185.29	216.14	10	2.55	-39.2	154.0
1263	B	15H	6	79	185.29	216.14	15	2.11	-40.2	153.7

1263	B	15H	6	79	185.29	216.14	20	1.70	-41.0	152.6
1263	B	15H	6	79	185.29	216.14	25	1.30	-41.9	149.6
1263	B	15H	6	79	185.29	216.14	30	0.93	-43.8	145.3
1263	B	15H	6	79	185.29	216.14	40	0.53	-42.1	136.0
1263	B	15H	6	79	185.29	216.14	60	0.21	-43.5	127.3
1263	B	15H	6	99	185.49	216.34	0	4.92	64.5	148.0
1263	B	15H	6	99	185.49	216.34	8	2.30	-14.1	150.4
1263	B	15H	6	99	185.49	216.34	10	2.12	-16.4	150.4
1263	B	15H	6	99	185.49	216.34	15	1.77	-18.7	149.8
1263	B	15H	6	99	185.49	216.34	20	1.42	-19.1	148.2
1263	B	15H	6	99	185.49	216.34	25	1.11	-23.0	146.5
1263	B	15H	6	99	185.49	216.34	30	0.80	-23.5	141.9
1263	B	15H	6	99	185.49	216.34	40	0.48	-32.6	136.6
1263	B	15H	6	99	185.49	216.34	60	0.18	-41.4	115.6
1263	B	15H	6	119	185.69	216.54	0	5.91	66.7	132.1
1263	B	15H	6	119	185.69	216.54	8	2.29	-8.1	145.0
1263	B	15H	6	119	185.69	216.54	10	2.12	-10.9	145.0
1263	B	15H	6	119	185.69	216.54	15	1.79	-12.3	144.3
1263	B	15H	6	119	185.69	216.54	20	1.48	-12.6	143.0
1263	B	15H	6	119	185.69	216.54	25	1.15	-14.6	143.0
1263	B	15H	6	119	185.69	216.54	30	0.82	-17.7	138.7
1263	B	15H	6	119	185.69	216.54	40	0.46	-25.3	131.6
1263	B	15H	6	119	185.69	216.54	60	0.17	-52.8	110.6
1263	B	15H	6	139	185.89	216.74	0	6.78	74.3	176.4
1263	B	15H	6	139	185.89	216.74	8	2.67	10.3	166.9
1263	B	15H	6	139	185.89	216.74	10	2.42	7.9	166.3
1263	B	15H	6	139	185.89	216.74	15	1.98	5.6	165.0
1263	B	15H	6	139	185.89	216.74	20	1.54	3.0	163.9
1263	B	15H	6	139	185.89	216.74	25	1.16	1.4	162.1
1263	B	15H	6	139	185.89	216.74	30	0.78	-4.4	159.5
1263	B	15H	6	139	185.89	216.74	40	0.38	-9.4	155.4
1263	B	15H	6	139	185.89	216.74	60	0.11	-24.5	126.6
1263	B	15H	7	9	186.09	216.94	0	5.87	68.5	173.5
1263	B	15H	7	9	186.09	216.94	8	2.29	2.6	166.5
1263	B	15H	7	9	186.09	216.94	10	2.08	0.3	166.5
1263	B	15H	7	9	186.09	216.94	15	1.73	-1.8	165.1
1263	B	15H	7	9	186.09	216.94	20	1.37	-4.2	163.6
1263	B	15H	7	9	186.09	216.94	25	1.02	-7.0	161.0
1263	B	15H	7	9	186.09	216.94	30	0.73	-12.7	158.6
1263	B	15H	7	9	186.09	216.94	40	0.33	-12.8	146.8
1263	B	15H	7	9	186.09	216.94	60	0.16	-51.3	124.2
1263	A	21H	1	31	183.11	216.94	0	3.94	55.4	305.1
1263	A	21H	1	31	183.11	216.94	8	1.79	9.5	260.9
1263	A	21H	1	31	183.11	216.94	10	1.56	9.4	259.8
1263	A	21H	1	31	183.11	216.94	15	1.26	7.3	260.0
1263	A	21H	1	31	183.11	216.94	20	0.94	7.6	260.6
1263	A	21H	1	31	183.11	216.94	25	0.66	5.5	260.8
1263	A	21H	1	31	183.11	216.94	30	0.42	-0.2	263.1
1263	A	21H	1	31	183.11	216.94	40	0.15	-7.0	273.7
1263	A	21H	1	31	183.11	216.94	60	0.09	-71.0	292.4
1263	B	15H	7	29	186.29	217.14	0	4.14	67.7	119.4
1263	B	15H	7	29	186.29	217.14	8	1.90	-30.6	142.5
1263	B	15H	7	29	186.29	217.14	10	1.78	-32.7	143.6
1263	B	15H	7	29	186.29	217.14	15	1.49	-34.5	142.8
1263	B	15H	7	29	186.29	217.14	20	1.19	-35.6	143.0
1263	B	15H	7	29	186.29	217.14	25	0.93	-37.3	139.0
1263	B	15H	7	29	186.29	217.14	30	0.71	-44.5	136.0
1263	B	15H	7	29	186.29	217.14	40	0.38	-41.3	119.8
1263	B	15H	7	29	186.29	217.14	60	0.18	-42.2	93.7
1263	B	15H	7	49	186.49	217.34	0	4.90	75.7	134.1
1263	B	15H	7	49	186.49	217.34	8	1.49	-20.3	144.2
1263	B	15H	7	49	186.49	217.34	10	1.40	-24.8	144.5
1263	B	15H	7	49	186.49	217.34	15	1.18	-27.2	143.1
1263	B	15H	7	49	186.49	217.34	20	0.97	-28.1	143.0
1263	B	15H	7	49	186.49	217.34	25	0.77	-31.5	138.3
1263	B	15H	7	49	186.49	217.34	30	0.62	-35.3	137.9
1263	B	15H	7	49	186.49	217.34	40	0.35	-34.5	120.7
1263	B	15H	7	49	186.49	217.34	60	0.14	-54.4	124.9
1263	A	21H	1	131	184.11	217.94	0	3.52	68.4	349.9
1263	A	21H	1	131	184.11	217.94	8	0.88	42.7	247.8

1263	A	21H	1	131	184.11	217.94	10	0.77	44.1	246.3
1263	A	21H	1	131	184.11	217.94	15	0.59	40.2	246.2
1263	A	21H	1	131	184.11	217.94	20	0.45	38.1	242.8
1263	A	21H	1	131	184.11	217.94	25	0.32	36.3	241.3
1263	A	21H	1	131	184.11	217.94	30	0.23	35.5	239.2
1263	A	21H	1	131	184.11	217.94	40	0.09	34.9	226.9
1263	A	21H	1	131	184.11	217.94	60	0.04	-31.0	174.6
1263	A	21H	2	81	185.11	218.94	0	4.47	38.4	354.4
1263	A	21H	2	81	185.11	218.94	8	1.11	2.7	3.7
1263	A	21H	2	81	185.11	218.94	10	0.93	1.5	3.1
1263	A	21H	2	81	185.11	218.94	15	0.74	-1.9	4.1
1263	A	21H	2	81	185.11	218.94	20	0.59	-3.4	5.9
1263	A	21H	2	81	185.11	218.94	25	0.47	-6.0	9.1
1263	A	21H	2	81	185.11	218.94	30	0.39	-6.8	17.5
1263	A	21H	2	81	185.11	218.94	40	0.29	1.5	34.7
1263	A	21H	2	81	185.11	218.94	60	0.15	-9.5	38.0
1263	A	21H	3	31	186.11	219.94	0	3.79	52.2	314.6
1263	A	21H	3	31	186.11	219.94	8	1.21	2.8	273.1
1263	A	21H	3	31	186.11	219.94	10	1.08	0.4	272.1
1263	A	21H	3	31	186.11	219.94	15	0.87	-0.4	272.8
1263	A	21H	3	31	186.11	219.94	20	0.65	-3.4	272.8
1263	A	21H	3	31	186.11	219.94	25	0.47	-5.2	271.7
1263	A	21H	3	31	186.11	219.94	30	0.30	-2.9	271.2
1263	A	21H	3	31	186.11	219.94	40	0.12	5.9	271.8
1263	A	21H	3	31	186.11	219.94	60	0.04	34.5	221.0
1263	A	21H	3	131	187.11	220.94	0	5.78	76.2	329.8
1263	A	21H	3	131	187.11	220.94	8	1.31	71.1	205.5
1263	A	21H	3	131	187.11	220.94	10	1.10	69.4	204.2
1263	A	21H	3	131	187.11	220.94	15	0.86	69.1	206.6
1263	A	21H	3	131	187.11	220.94	20	0.68	68.3	213.3
1263	A	21H	3	131	187.11	220.94	25	0.50	66.3	200.7
1263	A	21H	3	131	187.11	220.94	30	0.34	73.9	214.1
1263	A	21H	3	131	187.11	220.94	40	0.21	75.9	178.5
1263	A	21H	3	131	187.11	220.94	60	0.09	74.2	49.1
1263	A	21H	4	81	188.11	221.94	0	3.79	61.2	350.7
1263	A	21H	4	81	188.11	221.94	8	0.31	37.0	36.3
1263	A	21H	4	81	188.11	221.94	10	0.23	39.8	38.4
1263	A	21H	4	81	188.11	221.94	15	0.15	31.9	40.2
1263	A	21H	4	81	188.11	221.94	20	0.12	28.1	39.0
1263	A	21H	4	81	188.11	221.94	25	0.05	28.7	64.9
1263	A	21H	4	81	188.11	221.94	30	0.07	69.1	59.2
1263	A	21H	4	81	188.11	221.94	40	0.09	47.8	78.9
1263	A	21H	4	81	188.11	221.94	60	0.05	62.8	118.2
1263	A	21H	5	31	189.11	222.94	0	5.84	49.8	314.5
1263	A	21H	5	31	189.11	222.94	8	1.79	13.6	277.2
1263	A	21H	5	31	189.11	222.94	10	1.60	12.6	274.9
1263	A	21H	5	31	189.11	222.94	15	1.29	11.9	274.2
1263	A	21H	5	31	189.11	222.94	20	0.97	11.2	273.6
1263	A	21H	5	31	189.11	222.94	25	0.70	10.5	273.4
1263	A	21H	5	31	189.11	222.94	30	0.43	11.2	275.3
1263	A	21H	5	31	189.11	222.94	40	0.18	19.2	275.4
1263	A	21H	5	31	189.11	222.94	60	0.05	45.7	180.1
1263	A	21H	5	131	190.11	223.94	0	6.46	63.4	359.5
1263	A	21H	5	131	190.11	223.94	8	1.05	57.8	3.1
1263	A	21H	5	131	190.11	223.94	10	0.84	56.4	5.7
1263	A	21H	5	131	190.11	223.94	15	0.62	55.2	5.6
1263	A	21H	5	131	190.11	223.94	20	0.46	57.1	2.4
1263	A	21H	5	131	190.11	223.94	25	0.38	58.8	7.6
1263	A	21H	5	131	190.11	223.94	30	0.27	62.5	25.4
1263	A	21H	5	131	190.11	223.94	40	0.19	58.2	43.5
1263	A	21H	5	131	190.11	223.94	60	0.09	27.1	87.1
1263	A	21H	6	81	191.11	224.94	0	4.41	66.6	12.9
1263	A	21H	6	81	191.11	224.94	8	0.54	55.7	111.6
1263	A	21H	6	81	191.11	224.94	10	0.41	48.8	119.7
1263	A	21H	6	81	191.11	224.94	15	0.32	50.9	128.5
1263	A	21H	6	81	191.11	224.94	20	0.24	37.2	128.0
1263	A	21H	6	81	191.11	224.94	25	0.19	44.0	117.2
1263	A	21H	6	81	191.11	224.94	30	0.14	42.0	152.1
1263	A	21H	6	81	191.11	224.94	40	0.10	40.5	128.2
1263	A	21H	6	81	191.11	224.94	60	0.07	-10.3	135.2

1263	B	16H	5	31	192.81	225.94	0	2.58	39.2	7.8
1263	B	16H	5	31	192.81	225.94	8	0.55	35.2	15.0
1263	B	16H	5	31	192.81	225.94	10	0.47	32.7	12.8
1263	B	16H	5	31	192.81	225.94	15	0.40	30.9	15.0
1263	B	16H	5	31	192.81	225.94	20	0.33	34.6	17.7
1263	B	16H	5	31	192.81	225.94	25	0.30	33.3	5.0
1263	B	16H	5	31	192.81	225.94	30	0.20	36.9	19.9
1263	B	16H	5	31	192.81	225.94	40	0.09	42.8	2.5
1263	B	16H	5	31	192.81	225.94	60	0.07	23.6	77.5
1263	B	16H	5	131	193.81	226.94	0	5.15	64.7	355.3
1263	B	16H	5	131	193.81	226.94	8	1.90	66.6	57.6
1263	B	16H	5	131	193.81	226.94	10	1.69	65.6	57.5
1263	B	16H	5	131	193.81	226.94	15	1.36	64.2	57.6
1263	B	16H	5	131	193.81	226.94	20	1.11	65.0	57.0
1263	B	16H	5	131	193.81	226.94	25	0.86	64.6	50.1
1263	B	16H	5	131	193.81	226.94	30	0.59	67.2	50.1
1263	B	16H	5	131	193.81	226.94	40	0.42	43.5	14.7
1263	B	16H	5	131	193.81	226.94	60	0.27	86.5	270.5
1263	B	16H	6	15	194.15	227.28	0	1.59	81.6	219.4
1263	B	16H	6	15	194.15	227.28	8	0.69	-3.4	146.3
1263	B	16H	6	15	194.15	227.28	10	0.63	-4.1	142.6
1263	B	16H	6	15	194.15	227.28	15	0.52	-5.0	138.3
1263	B	16H	6	15	194.15	227.28	20	0.42	-6.0	134.1
1263	B	16H	6	15	194.15	227.28	25	0.34	-7.4	128.4
1263	B	16H	6	15	194.15	227.28	30	0.22	-8.1	122.6
1263	B	16H	6	15	194.15	227.28	40	0.13	-17.1	113.6
1263	B	16H	6	15	194.15	227.28	60	0.06	-34.1	133.0
1263	B	16H	6	50	194.50	227.63	0	2.72	70.5	254.1
1263	B	16H	6	50	194.50	227.63	8	0.61	4.8	194.1
1263	B	16H	6	50	194.50	227.63	10	0.53	0.2	190.4
1263	B	16H	6	50	194.50	227.63	15	0.39	-13.4	186.4
1263	B	16H	6	50	194.50	227.63	20	0.23	-19.8	185.6
1263	B	16H	6	50	194.50	227.63	25	0.19	-18.1	178.8
1263	B	16H	6	50	194.50	227.63	30	0.15	-18.7	179.2
1263	B	16H	6	50	194.50	227.63	40	0.04	-31.5	144.0
1263	B	16H	6	50	194.50	227.63	60	0.13	-19.4	97.9
1263	B	16H	6	81	194.81	227.94	0	1.96	56.6	334.2
1263	B	16H	6	81	194.81	227.94	8	0.31	-31.5	139.7
1263	B	16H	6	81	194.81	227.94	10	0.33	-33.6	137.5
1263	B	16H	6	81	194.81	227.94	15	0.27	-30.3	127.9
1263	B	16H	6	81	194.81	227.94	20	0.19	-15.0	117.9
1263	B	16H	6	81	194.81	227.94	25	0.17	-7.7	111.4
1263	B	16H	6	81	194.81	227.94	30	0.17	-13.9	94.9
1263	B	16H	6	81	194.81	227.94	40	0.16	13.4	65.7
1263	B	16H	6	81	194.81	227.94	60	0.16	42.4	47.3
1263	B	16H	7	35	195.85	228.98	0	4.71	57.8	342.8
1263	B	16H	7	35	195.85	228.98	8	0.77	8.5	354.1
1263	B	16H	7	35	195.85	228.98	10	0.66	-0.6	358.8
1263	B	16H	7	35	195.85	228.98	15	0.53	-2.1	357.3
1263	B	16H	7	35	195.85	228.98	20	0.44	-1.2	3.0
1263	B	16H	7	35	195.85	228.98	25	0.29	-6.8	353.9
1263	B	16H	7	35	195.85	228.98	30	0.29	-10.8	7.1
1263	B	16H	7	35	195.85	228.98	40	0.25	5.3	12.9
1263	B	16H	7	35	195.85	228.98	60	0.06	29.8	118.9
1263	B	16H	6	137	195.37	228.50	0	2.83	63.2	222.8
1263	B	16H	6	137	195.37	228.50	8	1.00	-33.8	189.4
1263	B	16H	6	137	195.37	228.50	10	0.93	-36.2	187.8
1263	B	16H	6	137	195.37	228.50	15	0.75	-40.1	185.4
1263	B	16H	6	137	195.37	228.50	20	0.55	-44.7	184.5
1263	B	16H	6	137	195.37	228.50	25	0.42	-39.2	181.4
1263	B	16H	6	137	195.37	228.50	30	0.26	-40.3	174.4
1263	B	16H	6	137	195.37	228.50	40	0.10	-44.9	135.6
1263	B	16H	6	137	195.37	228.50	60	0.10	-32.4	69.2

**Table S4** Magnetostratigraphy ODP 1263

Chron	Top			Bottom			Mean		
	Site, Hole, Core, Section, Interval (cm)	Depth (mbsf)	Depth (rmcd)	Site, Hole, Core, Section, Interval (cm)	Depth (mbsf)	Depth (rmcd)	Depth (mbsf)	Depth (rmcd)	Error (m)
C20n (y)	1263B-10H-4, 30	136.30	160.34	1263B-10H-4, 50	136.50	160.54	136.40	160.44	± 0.1
C20n (o)	1263B-11H-4, 141	146.91	171.94	1263B-11H-5, 11	147.11	172.14	147.01	172.04	± 0.1
C21n (y)	1263A-19H-5, 108	170.88	199.94	1263B-14H-1, 97	170.47	200.14	170.68	200.04	± 0.1
C21n (o)	1263B-15H-6, 99	185.49	216.34	1263B-15H-6, 39	185.89	216.74	185.69	216.54	± 0.2

**Table S5** Hole 702B and Site 1263 Calcareous Nannofossil datums

Bioevent	Age <sup>§</sup>	Position in <sup>§</sup> Magneto- stratigraphy	Top Core, section interval (cm)	Bottom Core, section interval (cm)	Top Depth (m)	Bottom Depth (m)	Mean Depth (m)	error (±m)
<b>Hole 702B*</b>								
LO R. umbilicus >14µm	43.06	C20n.42	702B11X-5,5	702B11X-5,45	97.85	98.25	98.05	0.20
<b>Site 1263<sup>#</sup></b>								
HO <i>Nannotetraena</i> spp.	43.06	C20n.42	1263A15H-CC	1263A16H-1,45	155.27	157.16	156.22	0.94
HO <i>N. fulgens</i> ( <i>alata</i> )	43.72	C20n	1263A15H-CC	1263B11H-4,80	169.84	171.34	170.59	0.75
HO <i>C. gigas</i>	43.96	C20r.07	1263B12H-1,40	1263B12H-1,140	177.09	178.09	177.59	0.50
LO <i>C. gigas</i>	46.11	C20r.94	1263B13H-3,120	1263B13H-4,40	192.38	193.08	192.73	0.35
LO <i>N. fulgens</i> ( <i>alata</i> )	46.80	C21n.32	1263B14H-3,40	1263B14H-3,120	202.58	203.39	202.99	0.40
HO <i>D. lodoensis</i>	48.37	C21r.41	1263A21H-2,40	1263A21H-2,140	215.04	215.56	215.06	0.26

Note: HO = highest occurrence, LO = lowest occurrence; <sup>§</sup>Agnini et al. 2014, \*Pea 2011, <sup>#</sup>Shipboard Scientific Party 2004, Position in Magnetochron is from Top of Chron; depth in 702B is mbsf and 1262 is rmcd.

**Table S6** Relative and absolute 405-kyr eccentricity cycle age model for ODP Hole 702B and Site 1263

405-kyr cycle	Site 702B depth (mbsf)	Site 1263 depth (rmcd)	relative age	absolute age	
			(Ma)	405-kyr cycle	La2011 (Ma)
# 1	-	158.60	0.405	# 104	41.904
# 2	-	161.25	0.810	# 105	42.308
# 3	-	165.10	1.215	# 106	42.708
# 4	108.20	168.70	1.620	# 107	43.112
# 5	115.20	172.20	2.025	# 108	43.516
# 6	121.60	175.50	2.430	# 109	43.928
# 7	128.00	178.90	2.835	# 110	44.336
# 8	133.80	183.00	3.240	# 111	44.740
# 9	-	186.70	3.645	# 112	45.140
# 10	148.20	(192.10)	4.050	# 113	45.540
# 11	154.40	197.20	4.455	# 114	45.948
# 12	161.60	202.40	4.860	# 115	46.360
# 13	168.50	207.10	5.265	# 116	46.768
# 14	175.30	211.70	5.670	# 117	47.176
# 15	183.00	216.30	6.075	# 118	47.572
# 16	189.70	220.90	6.480	# 119	47.972
# 17	195.30	225.70	6.885	# 120	48.372

**Table S7** Offsets applied to cores from Holes 1263A, 1263B, 1263C

Core	Offset Ship (m)	Revised Offset (m)	$\Delta$ Ship – Revised (m)	Depth (mbsf)	Depth (rmcd)	Source
208-1263A-						
1H	0.00	0.00	0.00	0.00	0.00	ship
2H	0.41	0.41	0.00	2.30	2.71	ship
3H	2.12	2.12	0.00	11.80	13.92	ship
4H	3.83	3.83	0.00	21.30	25.13	ship
5H	3.85	3.85	0.00	30.80	34.65	ship
6H	7.25	7.25	0.00	40.30	47.55	ship
7H	9.11	9.06	0.05	49.80	58.86	this study
8H	10.71	10.11	0.60	59.30	69.41	this study
9H	11.77	11.14	0.63	68.80	79.94	this study
10H	11.79	11.29	0.50	78.30	89.59	this study
11H	13.17	12.67	0.50	87.80	100.47	this study
12H	13.73	13.23	0.50	97.30	110.53	this study
13H	17.53	17.03	0.50	106.80	123.83	this study
14H	17.75	21.03	-3.28	116.30	137.33	this study
15H	20.52	23.73	-3.21	125.80	149.53	this study
16H	21.89	25.13	-3.24	135.30	160.43	this study
17H	23.02	26.34	-3.32	144.80	171.14	this study
18H	23.94	27.44	-3.50	154.30	181.74	this study
19H	25.47	29.06	-3.59	163.80	192.86	this study
20H	27.77	31.36	-3.59	173.30	204.66	this study
21H	30.34	33.83	-3.49	182.80	216.63	this study
22H*	32.34	31.86	0.48	192.30	224.16	this study
23H	32.55	32.55	0.00	201.80	234.35	ship
24H	34.65	34.65	0.00	208.10	242.75	ship
25H	35.85	35.85	0.00	217.60	253.45	ship
26H	36.85	36.85	0.00	222.60	259.45	ship
27H	40.03	40.03	0.00	232.10	272.13	ship
28H	42.52	42.52	0.00	241.60	284.12	ship
29H	43.70	43.78	-0.08	251.10	294.88	W07
30H	45.71	45.79	-0.08	260.60	306.39	W07
31H	46.40	46.48	-0.08	270.10	316.58	W07
32H	48.38	49.08	-0.70	271.60	320.68	W07
33H	51.00	50.60	0.40	281.10	331.70	W07
34X	51.24	50.86	0.38	284.10	334.96	W07
35X	52.36	51.98	0.38	290.30	342.28	W07
36X	54.10	53.72	0.38	300.00	353.72	W07
37X	55.38	55.00	0.38	307.10	362.10	W07
38X	57.11	56.73	0.38	316.70	373.43	W07
39X	58.85	58.47	0.38	326.40	384.87	W07
40X	60.58	60.20	0.38	336.00	396.20	W07
208-1263B-						
1H	7.31	7.30	0.01	46.00	53.30	this study
2H	9.41	9.00	0.41	55.50	64.50	this study
3H	11.04	10.45	0.59	65.00	75.45	this study
4H	12.09	11.43	0.66	74.50	85.93	this study
5H	14.69	14.25	0.44	84.00	98.25	this study
6H	15.64	15.27	0.37	93.50	108.77	this study
7H	16.98	20.32	-3.34	103.00	123.32	this study
8H	18.34	21.57	-3.23	112.50	134.07	this study
9H	19.95	23.23	-3.28	122.00	145.23	this study
10H	20.78	24.04	-3.26	131.50	155.54	this study
11H	21.78	25.03	-3.25	141.00	166.03	this study
12H	22.68	26.20	-3.52	150.50	176.70	this study
13H	24.57	28.17	-3.60	160.00	188.17	this study
14H	26.12	29.67	-3.55	169.50	199.17	this study
15H	27.35	30.85	-3.50	177.00	207.85	this study
16H	29.69	33.13	-3.44	186.50	219.63	this study
17H*	29.69	29.21	0.48	196.00	225.21	this study
18H*	31.11	30.63	0.48	197.20	227.83	this study
19H	32.60	32.60	0.00	201.00	233.60	ship
20H	33.71	33.71	0.00	204.90	238.61	ship
21H	35.92	35.92	0.00	214.40	250.32	ship
22H	38.33	38.33	0.00	223.90	262.23	ship
23H	40.47	40.47	0.00	233.40	273.87	ship

24H	42.29	42.29	0.00	242.90	285.19	ship
25H	42.95	43.03	-0.08	252.40	295.43	W07
26X	44.12	44.20	-0.08	261.90	306.10	W07
27X	47.38	49.28	-1.90	271.10	320.38	W07
28X	50.83	50.58	0.25	280.70	331.28	W07
29X	52.56	52.16	0.40	290.30	342.46	W07
30X	54.30	53.90	0.40	300.00	353.90	W07
31X	56.03	55.63	0.40	309.60	365.23	W07
32X	57.76	57.36	0.40	319.20	376.56	W07
33X	59.51	59.11	0.40	328.90	388.01	W07
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208-1263C-						
1H	13.11	12.72	0.39	90.00	102.72	this study
2H	14.98	17.5	-2.52	99.50	117.00	this study
3H	18.26	21.48	-3.22	109.00	130.48	this study
4H*	32.32	31.84	0.48	193.00	224.84	this study
5H	33.00	33.00	0.00	202.50	235.50	ship
6H	33.83	33.83	0.00	212.00	245.83	ship
7H	34.27	34.27	0.00	221.50	255.77	ship
8H	36.94	36.94	0.00	225.40	262.34	ship
9H	39.79	39.79	0.00	234.90	274.69	ship
10H	41.88	41.88	0.00	244.40	286.28	ship
11H	43.71	43.79	-0.08	253.90	297.69	W07
12H	45.42	45.5	-0.08	263.40	308.90	W07
13H	47.21	47.98	-0.77	272.90	320.88	W07
14H	50.31	49.91	0.40	282.40	332.31	W07
15H	50.31	49.91	0.40	285.60	335.51	W07
16X	50.83	51.08	-0.25	285.70	336.78	W07
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208-1263D-						
1H	46.48	45.76	0.72	272.00	317.76	W07
2H	48.38	47.73	0.65	275.20	322.93	W07
3H	50.61	50.34	0.27	281.50	331.84	W07
4H	50.63	50.30	0.33	284.30	334.60	W07

\* strong core disturbance

**Table S8** List of tie points to create the revised composite depth scale (rmcd) for Site 1263

Hole, core, section interval (cm)	Depth		Hole, core, section interval (cm)	Depth		Source	
	(mbsf)	(rmcd)		(mbsf)	(rmcd)		
1263A-1H-2, 50	2.00	2.00	Append to	1263A-2H-1, 0	2.30	2.71	ship
1263A-2H-7, 30	11.60	12.01	Append to	1263A-3H-1, 0	11.80	13.92	ship
1263A-3H-7, 30	21.10	23.22	Append to	1263A-4H-1, 0	21.30	25.13	ship
1263A-4H-7, 35	30.65	34.48	Tie to	1263A-6H-1, 0	40.30	47.55	ship
1263A-6H-5, 12.5	46.425	53.675	Tie to	1263B-1H-1, 37.5	46.375	53.675	this study
1263B-1H-6, 57.5	54.075	61.385	Tie to	1263A-7H-2, 102.5	52.325	61.385	this study
1263A-7H-5, 47.5	56.275	65.345	Tie to	1263B-2H-1, 85	56.35	65.345	this study
1263B-2H-5, 52.5	62.025	71.035	Tie to	1263A-8H-2, 12.5	60.925	71.035	this study
1263A-8H-6, 42.5	67.225	77.345	Tie to	1263B-3H-2, 40	66.90	77.345	this study
1263B-3H-5, 47.5	71.475	81.935	Tie to	1263A-9H-2, 50	70.80	81.935	this study
1263A-9H-7, 7.5	77.375	88.525	Tie to	1263B-4H-2, 110	77.10	88.525	this study
1263B-4H-6, 45	82.45	93.89	Tie to	1263A-10H-3, 130	82.60	93.89	this study
1263A-10H-7, 42.5	87.725	99.025	Tie to	1263B-5H-1, 77.5	84.775	99.025	this study
1263B-5H-7, 17.5	92.705	106.965	Tie to	1263C-1H-3, 125	94.25	106.965	this study
1263C-1H-6, 12.5	97.625	110.37	Tie to	1263B-6H-2, 10	95.10	110.37	this study
1263B-6H-6, 127.5	102.275	117.545	Tie to	1263C-2H-1, 55	100.05	117.545	this study
1263C-2H-7, 6	108.06	125.54	Tie to	1263B-7H-2, 72	105.22	125.54	this study
1263B-7H-6, 137.5	111.875	132.075	Tie to	1263C-3H-2, 10	110.60	132.075	this study
1263C-3H-4, 47.5	113.975	135.465	Tie to	1263B-8H-1, 140	113.90	135.465	this study
1263B-8H-4, 55	117.55	139.13	Tie to	1263A-14H-2, 30	118.10	139.13	this study
1263A-14H-6, 150	123.89	144.93	Append to	1263B-9H-1, 0	122.00	145.23	this study
1263B-9H-4, 115	127.65	150.88	Tie to	1263A-15H-1, 135	127.15	150.88	this study
1263A-15H-5, 40	132.20	155.94	Tie to	1263B-10H-1, 40	131.90	155.94	this study
1263B-10H-5, 30	137.80	161.85	Tie to	1263A-16H-1, 142.5	136.725	161.85	this study
1263A-16H-6, 17.5	142.975	168.105	Tie to	1263B-11H-2, 57.5	143.075	168.105	this study
1263B-11H-6, 75	149.25	174.29	Tie to	1263A-17H-3, 15	147.95	174.29	this study
1263A-17H-6, 15	152.45	178.80	Tie to	1263B-12H-2, 60	152.60	178.80	this study
1263B-12H-6, 80	157.50	183.71	Tie to	1263A-18H-2, 47.5	156.275	183.71	this study
1263A-18H-5, 102.5	161.325	188.765	Tie to	1263B-13H-1, 60	160.60	188.765	this study
1263B-13H-4, 132.5	165.825	194.005	Tie to	1263A-19H-1, 115	164.95	194.005	this study
1263A-19H-5, 102.5	170.825	199.895	Tie to	1263B-14H-1, 72.5	170.225	199.895	this study
1263B-14H-5, 137.5	176.875	206.555	Tie to	1263A-20H-2, 40	175.20	206.555	this study
1263A-20H-5, 70	180.00	211.37	Tie to	1263B-15H-3, 52.5	180.525	211.37	this study
1263B-15H-7, 5	186.05	216.90	Tie to	1263A-21H-1, 27.5	183.075	216.90	this study
1263A-21H-3, 97.5	186.775	220.605	Tie to	1263B-16H-1, 97.5	187.475	220.605	this study
1263B-16H-7, 57.5	196.075	229.215	<b>strong coring disturbance from 229.22 to 233.60</b>				
				1263B-19H-1	201.00	233.60	W07
1263B-19H-3, 8	204.08	236.68	Tie to	1263A-23H-2, 83.5	204.13	236.68	W07
1263A-23H-4, 48	206.76	239.31	Tie to	1263B-20H-1, 70	205.60	239.31	W07
1263B-20H-7, 33	214.22	247.93	Tie to	1263A-24H-4, 67.5	213.28	247.93	W07
1263A-24H-7, 25	217.25	251.90	Tie to	1263B-21H-2, 7.5	215.98	251.90	W07
1263B-21H-5, 103	221.42	257.34	Tie to	1263C-7H-2, 11	223.07	257.34	W07
1263C-7H-4, 15	225.28	259.55	Tie to	1263A-26H-1, 10	222.70	259.55	W07
1263A-26H-3, 120	226.80	263.65	Tie to	1263B-22H-1, 142	225.32	263.65	W07
1263B-22H-7, 65	233.55	271.88	Append to	1263A-27H-1, 0	232.10	272.13	W07
1263A-27H-6, 55	240.15	280.18	Tie to	1263C-9H-4, 98.5	240.39	280.18	W07
1263C-9H-7, 65	244.55	284.34	Tie to	1263A-28H-1, 22.5	241.82	284.34	W07
1263A-28H-3, 78	245.38	287.90	Tie to	1263B-24H-2, 121	245.61	287.90	W07
1263B-24H-6, 20	250.60	292.89	Tie to	1263C-10H-5, 61	251.01	292.89	W07
1263C-10H-7, 122	254.12	296.00	Tie to	1263A-29H-1, 112	252.22	296.00	W07
1263A-29H-5, 120	258.30	302.00	Tie to	1263C-11H-3, 138.5	258.29	302.08	W07
1263C-11H-7, 5	263.35	307.06	Tie to	1263A-30H-1, 75	261.35	307.14	W07
1263A-30H-7, 33	269.92	315.63	Tie to	1263C-12H-5, 81	270.21	315.71	W07
1263C-12H-CC, 28	273.09	318.59	Tie to	1263D-1H-1, 82.5	272.825	318.585	W07
1263D-1H-2, 115	274.65	320.41	Tie to	1263B-27X-1, 3	271.13	320.41	W07
1263B-27X-1, 145	272.55	321.83	Tie to	1263A-32H-1, 115	272.75	321.83	W07
1263A-32H-5, 30	277.90	326.98	Tie to	1263C-13H-5, 10	279.00	326.98	W07
1263C-13H-cc, 10	282.87	330.77	Append to	1263D-3H-1, 0.0	281.50	331.84	R07
1263D-3H-1, 90	282.40	332.74	Tie to	1263C-14H-1, 43	282.83	332.74	R07
1263C-14H-2, 149	285.39	335.30	Tie to	1263D-4H-1, 70	285.00	335.30	R07
1263D-4H-1, 90	285.20	335.50	Tie to	1263A-34X-1, 54	284.64	335.50	R07
1263A-34X-2, 146	287.06	337.92	Tie to	1263C-16X-1, 114	286.84	337.92	R07
1263C-16X-3, 60	288.80	339.88	end of splice				

**Table S9** Paleomagnetic data interpretation from ODP 1263

Site	Hole	Core Type	Section	Section depth (cm)	Depth mbsf	Depth rmcd	Inclination (°)	Declination (°)	MAD (°)	steps used
1263	A	15H	4	91	131.21	154.94	61.9	245.7	3.3	2,3,4,5,6,7,8
1263	B	10H	1	40	131.90	155.94	42.4	159.5	5.9	2,3,4,5,6,7,8
1263	B	10H	1	140	132.90	156.94	52.1	75.2	3.8	2,3,4,5,6,7
1263	B	10H	2	90	133.90	157.94	3.8	11.3	7.1	2,3,4,5,6
1263	B	10H	3	40	134.90	158.94	48.1	32.9	5.0	2,3,4,5,6,7,8
1263	B	10H	3	140	135.90	159.94	80.2	93.3	3.3	2,3,4,5,6
1263	B	10H	4	10	136.10	160.14	56.3	307.5	2.5	2,3,4,5,6,7
1263	B	10H	4	30	136.30	160.34	65.3	43.6	4.2	2,3,4,5,6,7
1263	B	10H	4	50	136.50	160.54	-48.7	279.4	8.4	2,3,4,5,6
1263	B	10H	4	70	136.70	160.74	-64.0	224.3	4.0	2,3,4,5,6,7,8
1263	B	10H	4	90	136.90	160.94	-80.8	272.7	5.2	2,3,4,5,6,7
1263	B	10H	5	40	137.90	161.94	-49.3	223.9	4.9	2,3,4,5,6,7,8
1263	A	16H	2	101	137.81	162.94	-42.4	112.1	5.4	2,3,4,5,6,7,8
1263	A	16H	3	51	138.81	163.94	-37.0	170.3	2.6	2,3,4,5,6,7,8
1263	A	16H	4	1	139.81	164.94	-9.8	160.5	3.1	2,3,4,5,6,7,8
1263	A	16H	4	101	140.81	165.94	-20.8	114.9	5.5	2,3,4,5,6
1263	A	16H	5	51	141.81	166.94	-45.0	155.8	3.0	2,3,4,5,6,7,8
1263	A	16H	6	1	142.81	167.94	-29.2	159.8	2.0	2,3,4,5,6,7,8
1263	B	11H	2	141	143.91	168.94	-20.7	245.0	3.7	2,3,4,5,6
1263	B	11H	3	91	144.91	169.94	-24.4	247.1	4.0	2,3,4,5,6,7
1263	B	11H	4	41	145.91	170.94	-35.8	212.7	1.7	2,3,4,5,6,7,8
1263	B	11H	4	141	146.91	171.94	-46.2	161.1	5.0	3,4,5,6,7,8
1263	B	11H	5	11	147.11	172.14	37.0	189.3	5.8	2,3,4,5,6
1263	B	11H	5	31	147.31	172.34	27.5	259.2	4.7	3,4,5,6
1263	B	11H	5	51	147.51	172.54	66.6	269.7	4.2	2,3,4,5,6,7
1263	B	11H	5	71	147.71	172.74	-4.7	213.8	5.6	2,3,4,5,6,7
1263	B	11H	5	91	147.91	172.94	71.0	134.7	2.1	3,4,5,6,7
1263	B	11H	6	41	148.91	173.94	54.2	117.2	7.2	2,3,4,5,6
1263	A	17H	3	80	148.60	174.94	-56.9	3.2	6.7	2,3,4
1263	A	17H	4	30	149.60	175.94	64.8	341.3	3.4	2,3,4,5,6
1263	A	17H	4	130	150.60	176.94	70.8	312.5	3.5	2,3,4,5,6,7,8
1263	A	17H	5	80	151.60	177.94	16.3	315.3	5.0	2,3,4,5,6
1263	B	12H	2	74	152.74	178.94	-14.7	296.4	5.1	4,5,6,7
1263	B	12H	3	24	153.74	179.94	45.8	23.4	6.6	2,3,4,5,6
1263	B	12H	4	39	154.74	180.94	14.3	313.8	3.7	2,3,4,5,6,7,8
1263	B	12H	5	54	155.74	181.94	-9.3	53.9	1.6	4,5,6,7,
1263	B	12H	6	4	156.74	182.94	12.8	295.3	1.5	2,3,4,5,6,7,8,
1263	A	18H	2	70	180.44	183.94	86.5	228.4	4.4	2,3,4,5,6,7,8,
1263	A	18H	3	20	181.44	184.94	79.6	140.7	3.5	2,3,4,5,6,7,8,
1263	A	18H	3	120	182.44	185.94	53.2	145.5	2.5	2,3,4,5,6,7,
1263	A	18H	4	70	183.44	186.94	73.0	51.2	3.7	2,3,4,5,6,7,8,
1263	A	18H	5	20	184.44	187.94	72.8	122.2	2.4	2,3,4,5,6,7,8,
1263	B	13H	1	77	160.77	188.94	82.6	339.8	2.3	2,3,4,5,6,7,8,
1263	B	13H	2	27	161.77	189.94	62.9	131.6	2.6	2,3,4,5,6,7,
1263	B	13H	2	127	162.77	190.94	44.0	147.8	5.5	2,3,4,5,6,7,
1263	B	13H	3	77	163.77	191.94	47.8	121.9	2.3	2,3,4,5,6,7,8,
1263	B	13H	4	27	164.77	192.94	49.2	146.5	5.5	3,4,5,6,7,
1263	B	13H	4	127	165.77	193.94	69.4	253.3	6.6	2,3,4,5,6,7,
1263	A	19H	2	58	165.88	194.94	29.7	225.4	4.3	2,3,4,5,6,
1263	A	19H	3	8	166.88	195.94	53.4	296.0	3.7	2,3,4,5,6,7,8,
1263	A	19H	3	108	167.88	196.94	49.1	141.1	4.8	3,4,5,6,
1263	A	19H	4	58	168.88	197.94	28.1	159.4	4.1	2,3,4,5,6,7,8,
1263	A	19H	5	8	169.88	198.94	47.5	321.9	4.6	2,3,4,5,6,
1263	A	19H	5	108	170.88	199.94	35.4	355.1	3.8	2,3,4,5,
1263	B	14H	1	77	170.27	200.94	39.6	305.4	3.8	2,3,4,5,
1263	B	14H	1	97	170.47	200.14	-43.5	259.1	6.0	2,3,4,5,6,7,8
1263	B	14H	1	117	170.67	200.34	-22.4	238.1	8.9	3,4,5,6
1263	B	14H	1	137	170.87	200.54	-9.4	279.2	5.3	4,5,6
1263	B	14H	2	7	171.02	200.74	-29.7	259.5	5.4	2,3,4,5,6
1263	B	14H	2	27	171.26	200.94	-28.6	249.0	8.1	4,5,6
1263	B	14H	2	47	171.47	201.14	-82.1	270.8	1.5	2,3,4,5,6,
1263	B	14H	2	127	172.27	201.94	-67.0	300.2	5.1	3,4,5,6,7
1263	B	14H	3	77	173.27	202.94	23.8	305.1	6.3	2,3,4,5,6,7,8
1263	B	14H	4	27	174.27	203.94	-57.7	301.9	3.5	2,3,4,5,6
1263	B	14H	4	127	175.27	204.94	-32.9	344.6	5.9	4,5,6,7
1263	B	14H	5	77	176.27	205.94	-74.0	315.8	3.4	4,5,6,7,8
1263	A	20H	2	78	175.58	206.94	-18.0	238.8	1.8	2,3,4,5,6,7

1263	A	20H	3	28	176.58	207.94	10.3	212.4	7.4	2,3,4,5,6
1263	A	20H	3	128	177.58	208.94	-0.4	256.3	2.4	4,5,6,7
1263	A	20H	4	78	178.58	209.94	8.7	238.2	2.4	2,3,4,5,6,7,8
1263	B	15H	3	20	180.20	211.05	-40.4	143.9	2.7	2,3,4,5,6,7,8
1263	B	15H	3	109	181.09	211.94	-8.7	124.4	2.0	2,3,4,5,6,7,8
1263	B	15H	4	59	182.09	212.94	-18.5	216.9	6.4	2,3,4,5,6,7
1263	B	15H	5	9	183.09	213.94	-15.7	147.0	3.8	2,3,4,5,6,7,8
1263	B	15H	5	109	184.09	214.94	-36.7	146.0	3.8	2,3,4,5,6,7,8
1263	B	15H	6	39	184.89	215.74	-46.0	169.5	1.1	2,3,4,5,6,7,8
1263	B	15H	6	59	185.09	215.94	-44.8	158.5	4.7	2,3,4,5,6,7,8
1263	B	15H	6	79	185.29	216.14	-36.7	158.3	2.2	2,3,4,5,6,7,8
1263	B	15H	6	99	185.49	216.34	-12.0	155.1	2.7	3,4,5,6,7
1263	B	15H	6	119	185.69	216.54	-6.9	147.6	2.1	3,4,5,6
1263	B	15H	6	139	185.89	216.74	16.5	170.6	3.6	2,3,4,5,6
1263	B	15H	7	9	186.09	216.94	5.7	169.8	1.2	4,5,6,7
1263	A	21H	1	31	183.11	216.94	11.9	260.4	2.3	2,3,4,5,6
1263	B	15H	7	29	186.29	217.14	-25.3	145.5	4.5	2,3,4,5,6
1263	B	15H	7	49	186.49	217.34	-12.7	148.6	6.1	2,3,4,5,6,7
1263	A	21H	1	131	184.11	217.94	46.6	251.3	3.1	2,3,4,5,6,7
1263	A	21H	2	81	185.11	218.94	10.0	1.0	2.7	2,3,4,5
1263	A	21H	3	31	186.11	219.94	2.5	272.8	3.1	3,4,5,6,7
1263	A	21H	3	131	187.11	220.94	70.8	203.5	4.5	2,3,4,5,6,7
1263	A	21H	4	81	188.11	221.94	52.3	37.0	2.6	3,4,5
1263	A	21H	5	31	189.11	222.94	12.0	274.6	2.1	3,4,5,6,7,8
1263	A	21H	5	131	190.11	223.94	57.3	2.8	3.8	2,3,4,5,6
1263	A	21H	6	81	191.11	224.94	63.9	87.7	9.0	2,3,4,5
1263	B	16H	5	31	192.81	225.94	32.0	15.5	8.4	2,3,4,5,6,7,8
1263	B	16H	5	131	193.81	226.94	66.1	62.1	3.1	2,3,4,5,6,7
1263	B	16H	6	15	194.15	227.28	-1.6	153.2	4.9	3,4,5,6,7
1263	B	16H	6	50	194.50	227.63	-9.2	191.4	5.5	4,5,6,7
1263	B	16H	6	81	194.81	227.94	-49.0	168.0	6.2	3,4,5
1263	B	16H	6	137	195.37	228.50	-35.2	192.0	6.8	3,4,5,6,7
1263	B	16H	7	35	195.85	228.98	3.7	0.9	9.0	3,4,5,6

**Table S10** Astronomical tuning age tie points

ODP 1263		ODP 702B	
depth (rmcd)	Age La2011 (Ma)	depth (mbsf)	Age La2011 (Ma)
150.69	40.945968	91.69	41.621043
152.14	41.136030	94.92	41.818290
158.17	41.816454	98.23	42.083093
161.86	42.287809	103.22	42.513360
164.64	42.679338	112.04	43.344957
168.04	43.063264	115.02	43.522767
172.93	43.618246	116.70	43.619268
175.41	43.895737	121.26	43.894984
178.85	44.294868	126.92	44.293018
186.25	45.161553	133.80	44.740000
192.10	45.540000	148.20	45.540000
197.23	45.895194	154.36	45.898210
202.53	46.377953	162.16	46.381028
207.07	46.761879	168.83	46.757840
211.77	47.142004	175.94	47.225596
217.13	47.628564	181.74	47.545265
220.76	47.981547	190.89	48.082781
226.47	48.472441		

**Table S11** Comparison of magnetostratigraphic boundary ages in million years

Chron	standard GPTS			tuned			tuned – this study <sup>†</sup>		
	CK95	GPTS 2004	GPTS 2012	PEAT Sites <sup>#</sup>	Contessa Hyw	ODP Site 1260	ODP Site 1258 opt.2	ODP Site 1263	ODP Site 702B
C18n.2n (o)	40.130	39.464	40.145	40.076 ± 5	40.120				
C19n (y)	41.257	40.439	41.154	41.075 ± 7	41.250	41.061 ± 9		41.030 ± 13	
C19n (o)	41.521	40.671	41.390	41.306 ± 5	41.510	41.261 ± 4		41.180 ± 11	
C20n (y)	42.536	41.590	42.301	42.188 ± 15	42.540	42.152 ± 7		42.107 ± 13	42.124 ± 4
C20n (o)	43.789	42.774	43.432		43.790	43.449 ± 18		43.517 ± 11	43.426 ± 3
C21n (y)	46.264	45.346	45.724		46.310			46.151 ± 9	46.080 ± 3
C21n (o)	47.906	47.235	47.349				47.723 ± 118	47.575 ± 18	
C22n (y)	49.037	48.599	48.566				48.954 ± 16		
C22n (o)	49.714	49.427	49.344				49.593 ± 42		
C23n.1n (y)	50.778	50.730	50.628				51.051 ± 21		
C23n.1n (o)	50.946	50.932	50.835				51.273 ± 39		
C23n.2n (y)	51.047	51.057	50.961				51.344 ± 32		
C23n.2n (o)	51.743	51.901	51.833				51.721 ± 23		
C24n.1n (y)	52.364	52.648	52.620				52.525 ± 23		
C24n.1n (o)	52.663	53.004	53.074				52.915 ± 29		
C24n.2n (y)	52.757	53.116	53.199				53.037		
C24n.2n (o)	52.801	53.167	53.274				53.111		
C24n.3n (y)	52.903	53.286	53.416				53.249 ± 17		
C24n.3n (o)	53.347	53.808	53.983				53.806 ± 20		

<sup>†</sup> tuned to the orbital solution La2011 (Laskar et al. 2011)<sup>#</sup> combined ages based on Pacific Equatorial Age Transect Sites 1218, U1333 and U1334 (Westerhold et al. 2014)**Table S12** Comparison of magnetostratigraphic boundary durations in million years

Chron	standard GPTS			tuned			tuned – this study <sup>†</sup>		
	CK95	GPTS 2004	GPTS 2012	PEAT Sites <sup>#</sup>	Contessa Hyw	ODP Site 1260	ODP Site 1258 opt.2	ODP Site 1263	ODP Site 702B
C18n.2r	1.127	0.975	1.009	0.999 ± 12					
C19n	0.264	0.232	0.236	0.231 ± 12	0.260	0.200 ± 7		0.150 ± 24	
C19r	1.015	0.919	0.911	0.882 ± 20	1.030	0.891 ± 6		0.927 ± 24	
C20n	1.253	1.184	1.131		1.250	1.297 ± 13		1.410 ± 24	1.302 ± 7
C20r	2.475	2.572	2.292		2.520			2.634 ± 20	2.654 ± 6
C21n	1.642	1.889	1.625				1.424 ± 27		
C21r	1.131	1.364	1.217				1.231 ± 134		
C22n	0.677	0.828	0.778				0.639 ± 58		
C22r	1.064	1.303	1.284				1.458 ± 63		
C23n.1n	0.168	0.202	0.207				0.222 ± 60		
C23n.1r	0.101	0.125	0.126				0.071 ± 71		
C23n.2n	0.696	0.844	0.872				0.377 ± 55		
C23n.2r	0.621	0.747	0.787				0.804 ± 46		
C24n.1n	0.299	0.356	0.454				0.390 ± 52		
C24n.1r	0.094	0.112	0.125				0.122		
C24n.2n	0.044	0.051	0.075				0.074		
C24n.2r	0.102	0.119	0.142				0.138		
C24n.3n	0.444	0.522	0.567				0.557 ± 37		

<sup>†</sup> tuned to the orbital solution La2011 (Laskar et al. 2011)<sup>#</sup> combined ages based on Pacific Equatorial Age Transect Sites 1218, U1333 and U1334 (Westerhold et al. 2014)