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Supplement of

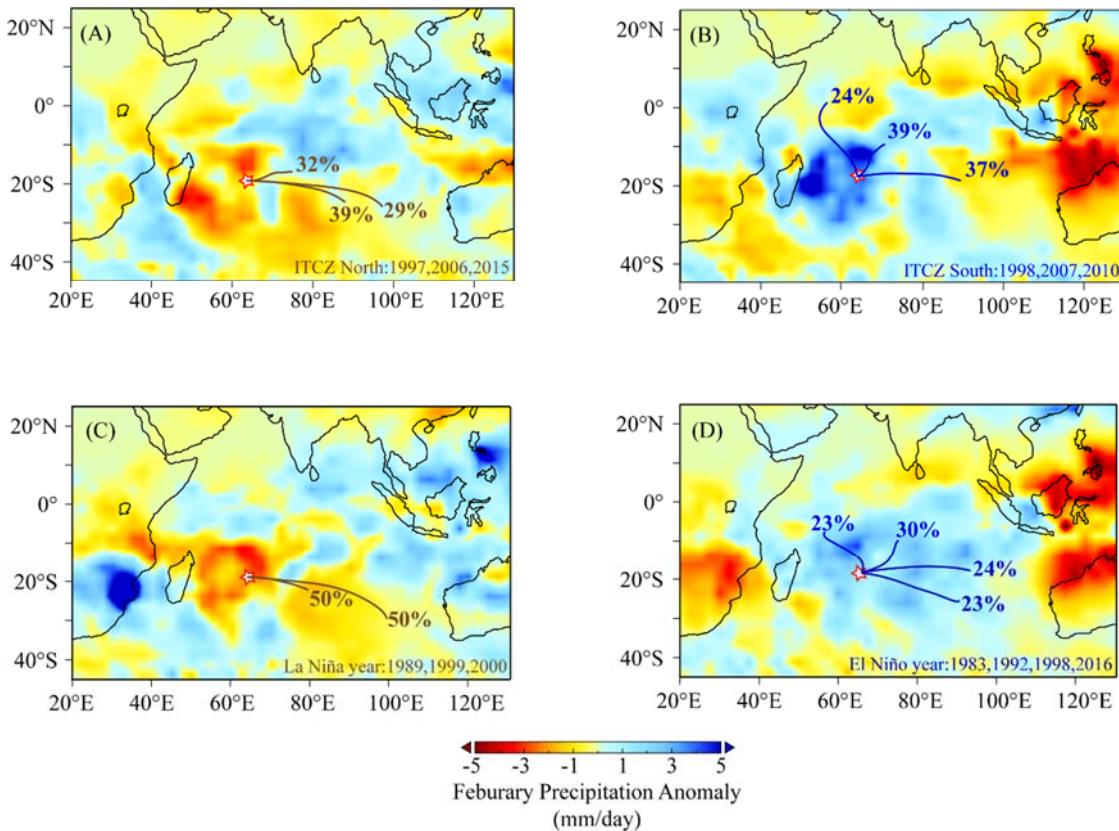
Hydro-climatic variability in the southwestern Indian Ocean between 6000 and 3000 years ago

Hanying Li et al.

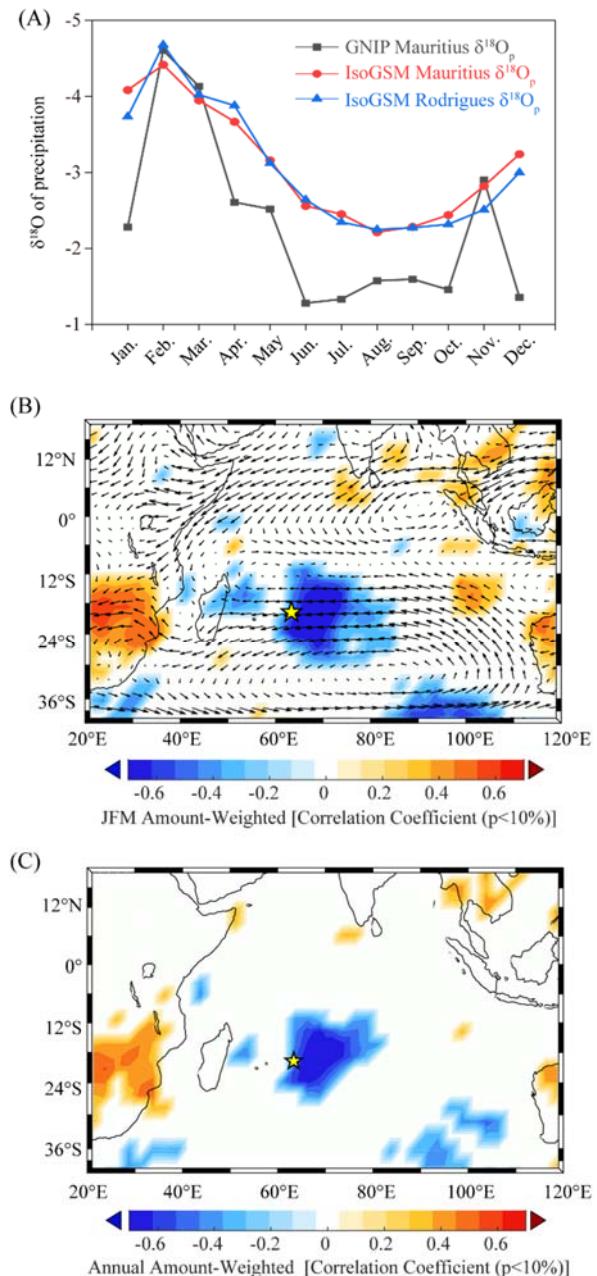
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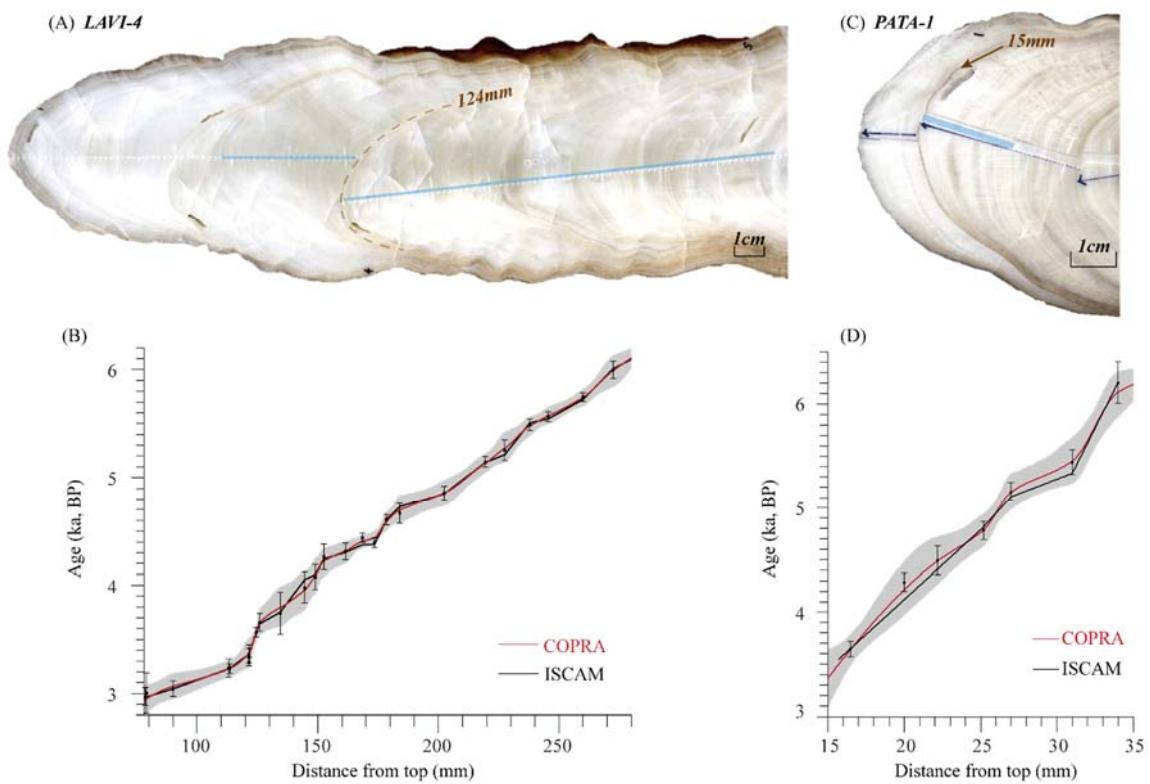
Supplementary Figures:



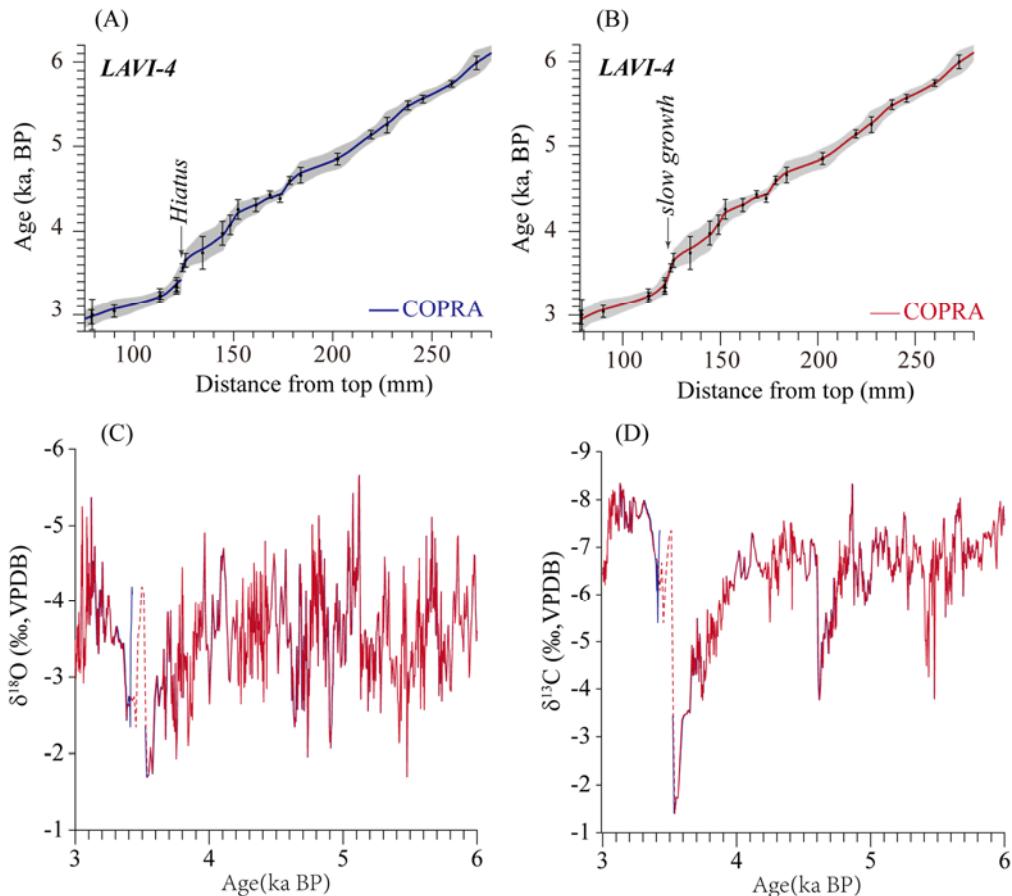
Supplementary Fig. 1. ITCZ and ENSO dynamics. **(A and B)** Spatial composite maps of precipitation anomalies for February (anomalies calculated with respect to the period 1981-2010) for the years marked by anomalous northward (A, 1997, 2006, 2015) and southward (B, 1998, 2007, 2010) locations of the southern boundary of the ITCZ (Lashkari et al., 2017; Freitas et al., 2017). The maps are overlain by backward (120 hours) low-level air parcel trajectory clusters and their relative contributions. **(C and D)** Same as in A and B but for La Niña (C, 1989, 1999, 2000) and El Niño (D, 1983, 1992, 1998, 2016) years. Precipitation data from GPCP (Adler et al., 2018).



Supplementary Fig. 2. Modelled and observational data of $\delta^{18}\text{O}$ in precipitation in the study area. **(A)** Monthly means of simulated $\delta^{18}\text{O}_p$ for Mauritius (red) and Rodrigues (blue) from IsoGSM (Yoshimura et al., 2008). Also shown are monthly means of $\delta^{18}\text{O}_p$ from six GNIP stations in Mauritius (black) covering the periods 1992-1995 and 2009-2014. **(B and C)** Spatial correlation maps for JFM **(B)** and annual **(C)** amount-weighted IsoGSM $\delta^{18}\text{O}_p$ from the nearest grid point to Rodrigues and the GPCP precipitation (GPCP v2.3) (Adler et al., 2018) for the period 1979 to 2016.



Supplementary Fig. 3. Age models of LAVI-4 and PATA-1 stalagmites. (A and C) scan pictures of stalagmite LAVI-4 and PATA-1, respectively. The blue bars line on the stalagmite slabs showing the stable isotope tracks. Dash line in **A** marks the layer at 124 mm. Arrow in **C** marks the layer at 15mm. **(B)** LAVI-4 age models and age uncertainties obtained using COPRA (Breitenbach et al., 2012) (red) and ISCAM (Fohlmeister, 2012) (black). The gray band depicts the 95% confidence interval from COPRA. Error bars on ^{230}Th dates represent 2σ analytical errors. **(D)** Same as in **(B)** but for sample PATA-1.



Supplementary Fig. 4. Comparison of COPRA age model results. (A and B) COPRA age models (Breitenbach et al., 2012) of LAVI-4 with a hiatus at 124 mm (A) and no hiatus (B). (C) $\delta^{18}\text{O}$ time series based on the age models in A and B. (D) $\delta^{13}\text{C}$ time series based on the age models in A and B. The blue and red lines are the age model results from A and B, respectively. There is a small offset between the two models, except for the period between 3.55 and 3.4 ka BP marked by red dashed lines. The main hydroclimate variations between 6 and 3 ka BP are robust irrespective of the age model used.

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Supplementary Tables

Table S1

^{230}Th dating results. The error is 2s error.

Sample Number	dft(mm)	^{238}U (ppb)	^{232}Th (ppt)	$^{230}\text{Th} / ^{232}\text{Th}$ (atomic $\times 10^{-6}$)	$\delta^{234}\text{U}^*$ (measured)	$^{230}\text{Th} / ^{238}\text{U}$ (activity)	^{230}Th Age (yr) (uncorrected)	^{230}Th Age (yr) (corrected)	$\delta^{234}\text{U}_{\text{Initial}}^{**}$ (corrected)	^{230}Th Age (yr) (corrected)
LAVI-4										
LAVI4-78.5	78.5	91 ±0	14 ±1	3154 ±293	65.9 ±1.3	0.0293 ±0.0008	3043 ±83	3039 ±83	66 ±1	2972 ±83
*LAVI4-80	79	72.4 ±0.1	26 ±2	1380 ±141	69.8 ±2.3	0.0298 ±0.0018	3079 ±185	3069 ±185	70 ±2	3002 ±185
LAVI4-90	90	97.1 ±0.1	33 ±1	1479 ±66	67.5 ±1.6	0.0301 ±0.0007	3118 ±72	3109 ±73	68 ±2	3042 ±73
LAVI4-113.5	113.5	136 ±0	32 ±1	2217 ±87	65.4 ±1.3	0.0318 ±0.0004	3304 ±45	3298 ±45	66 ±1	3231 ±45
*LAVI4-113	113	148.8 ±0.2	21 ±2	3656 ±335	69.0 ±1.8	0.0319 ±0.0008	3304 ±82	3300 ±82	70 ±2	3233 ±82
LAVI4-121.5	121.5	135.5 ±0.2	19 ±2	3881 ±369	70.7 ±1.7	0.0332 ±0.0008	3434 ±84	3430 ±84	71 ±2	3363 ±84
*L4-123	121.5	117.2 ±0.2	41 ±1	1543 ±42	67.0 ±1.5	0.0325 ±0.0003	3369 ±37	3359 ±37	68 ±2	3292 ±37
*L4-124-5	121.5	132.2 ±0.1	24 ±2	2979 ±221	68.9 ±1.3	0.0329 ±0.0008	3406 ±81	3401 ±81	70 ±1	3334 ±81
LAVI-4-4	124.5	70.9 ±0.1	15 ±2	2747 ±317	69.1 ±2.4	0.0351 ±0.0004	3639 ±46	3634 ±46	70 ±2	3567 ±46
L4-124-6	126	76.9 ±0.1	95 ±2	480 ±14	66.7 ±1.7	0.0361 ±0.0007	3755 ±78	3721 ±81	67 ±2	3654 ±81
L4-134.5	134.5	49.1 ±0.0	45 ±2	687 ±44	117.1 ±1.2	0.0386 ±0.0019	3834 ±194	3810 ±195	118 ±1	3743 ±195
L4-144.5	144.5	66.8 ±0.1	170 ±4	257 ±10	72.3 ±1.5	0.0397 ±0.0013	4113 ±133	4044 ±142	73 ±2	3977 ±142
L4-1	148.5	66.7 ±0.1	113 ±1	393 ±11	67.5 ±1.3	0.0403 ±0.0010	4190 ±110	4144 ±115	68 ±1	4077 ±115
L4-152.5	152.5	76.6 ±0.1	39 ±2	1362 ±65	72.3 ±1.6	0.0419 ±0.0011	4340 ±115	4326 ±116	73 ±2	4259 ±116
L4-161.5	161.5	91.0 ±0.1	74 ±2	864 ±26	71.3 ±1.6	0.0424 ±0.0007	4399 ±76	4377 ±77	72 ±2	4310 ±77
LAVI4-168.5	168.5	131 ±0	29 ±1	3273 ±126	71.0 ±1.4	0.0434 ±0.0004	4507 ±43	4501 ±43	72 ±1	4434 ±43
L4-173.5	173.5	131.3 ±0.1	31 ±1	3030 ±111	70.6 ±1.3	0.0429 ±0.0004	4462 ±46	4456 ±46	71 ±1	4389 ±46
L4-180-8	178.5	137.7 ±0.2	21 ±1	4778 ±234	69.1 ±1.4	0.0449 ±0.0004	4673 ±48	4669 ±48	70 ±1	4602 ±48
L4-2	184	84.9 ±0.1	94 ±1	679 ±15	70.2 ±1.3	0.0458 ±0.0008	4762 ±90	4732 ±93	71 ±1	4665 ±93
L4-3	202.5	113.6 ±0.1	36 ±1	2471 ±92	70.5 ±1.2	0.0473 ±0.0006	4929 ±66	4920 ±66	71 ±1	4853 ±66
LAVI4-209	219.5	120 ±0	47 ±1	2098 ±62	72.1 ±1.2	0.0501 ±0.0004	5219 ±47	5209 ±48	73 ±1	5142 ±48
L4-4	227.5	76.2 ±0.1	44 ±1	1475 ±51	69.9 ±1.2	0.0511 ±0.0009	5336 ±92	5320 ±93	71 ±1	5253 ±93
LAVI4-228	238	108 ±0	61 ±2	1551 ±43	72.5 ±1.2	0.0534 ±0.0005	5570 ±53	5555 ±55	74 ±1	5488 ±55
L4-251	245.5	93.9 ±0.1	56 ±1	1495 ±36	75.0 ±1.4	0.0543 ±0.0004	5647 ±44	5631 ±46	76 ±1	5564 ±46
LAVI4-5	260	131.7 ±0.2	45 ±2	2710 ±103	74.6 ±2.1	0.0559 ±0.0003	5820 ±38	5811 ±39	76 ±2	5744 ±39
LAVI4-262.5	272.5	76 ±0	109 ±2	672 ±17	73.0 ±1.3	0.0584 ±0.0007	6100 ±75	6061 ±80	74 ±1	5994 ±80

^{230}Th dating results. The error is 2s error.

Sample		^{238}U	^{232}Th	$^{230}\text{Th} / ^{232}\text{Th}$	$\delta^{234}\text{U}^*$	$^{230}\text{Th} / ^{238}\text{U}$	^{230}Th Age (yr)	^{230}Th Age (yr)	$\delta^{234}\text{U}_{\text{Initial}}^{**}$	^{230}Th Age (yr BP)***
Number	dft(mm)	(ppb)	(ppt)	(atomic $\times 10^{-6}$)	(measured)	(activity)	(uncorrected)	(corrected)	(corrected)	(corrected)
<i>PATA-1</i>										
PATA-1-1	16.5	182.9 \pm 0.2	506 \pm 10	226 \pm 6	108.8 \pm 1.7	0.0379 \pm 0.0005	3786 \pm 55	3713 \pm 75	110 \pm 2	3650 \pm 75
P1-20	20	198.7 \pm 0.3	848 \pm 17	171 \pm 4	105.7 \pm 1.3	0.0444 \pm 0.0004	4464 \pm 36	4352 \pm 87	107 \pm 1	4284 \pm 87
P1-22.2	22.2	203.8 \pm 0.3	1455 \pm 29	109 \pm 2	105.3 \pm 1.6	0.0471 \pm 0.0004	4750 \pm 38	4562 \pm 138	107 \pm 2	4494 \pm 138
A1-1	25.2	169 \pm 0.2	636 \pm 13	215 \pm 5	107.5 \pm 1.4	0.0492 \pm 0.0005	4947 \pm 49	4848 \pm 85	109 \pm 1	4784 \pm 85
P1-27	27	143.4 \pm 0.2	553 \pm 11	226 \pm 5	107.4 \pm 1.8	0.0528 \pm 0.0005	5327 \pm 56	5225 \pm 91	109 \pm 2	5158 \pm 91
P1-31	31	164.1 \pm 0.3	961 \pm 19	158 \pm 3	107.4 \pm 2.1	0.0561 \pm 0.0005	5665 \pm 48	5511 \pm 119	109 \pm 2	5444 \pm 119
PATA1-34	34	134.4 \pm 0.2	1421 \pm 29	101 \pm 2	104.8 \pm 1.4	0.0645 \pm 0.0005	6553 \pm 50	6275 \pm 203	107 \pm 1	6209 \pm 203

U decay constants: $\lambda_{238} = 1.55125 \times 10^{-10}$ (Jaffey et al., 1971) and $\lambda_{234} = 2.82206 \times 10^{-6}$ (Cheng et al., 2013).

Th decay constant: $\lambda_{230} = 9.1705 \times 10^{-6}$ (Cheng et al., 2013).

* $\delta^{234}\text{U} = ([^{234}\text{U}/^{238}\text{U}]_{\text{activity}} - 1) \times 1000$. ** $\delta^{234}\text{U}_{\text{initial}}$ was calculated based on ^{230}Th age (T), i.e., $\delta^{234}\text{U}_{\text{initial}} = \delta^{234}\text{U}_{\text{measured}} \times e^{\lambda_{234} \times T}$.

Corrected ^{230}Th ages assume the initial $^{230}\text{Th}/^{232}\text{Th}$ atomic ratio of $4.4 \pm 2.2 \times 10^{-6}$. Those are the values for a material at secular equilibrium, with the bulk earth $^{232}\text{Th}/^{238}\text{U}$ value of 3.8. The errors are arbitrarily assumed to be 50%.

***B.P. stands for “Before Present” where the “Present” is defined as the year 1950 A.D.

Sample numbers started with * are dated for replication, not used for age model.

Table S2**LAVI-4**

DFT(mm)	Copra_Age (yr BP)	$\delta^{13}\text{C}(\text{\textperthousand})$	$\delta^{18}\text{O}(\text{\textperthousand})$	Iscam_Age (yr BP)
81	2999.467	-6.446	-3.485	2981
81.2	3001.092	-6.428	-3.129	2982
81.4	3002.737	-6.576	-3.103	2983
81.6	3004.403	-6.447	-2.979	2985
81.8	3006.087	-6.289	-3.082	2986
82	3007.788	-6.271	-3.292	2988
82.2	3009.504	-6.331	-3.305	2989
82.4	3011.234	-6.685	-3.205	2990
82.6	3012.977	-6.722	-3.446	2992
82.8	3014.73	-6.645	-3.651	2993
83	3016.493	-6.651	-3.489	2994
83.2	3018.264	-6.207	-3.391	2996
83.4	3020.041	-6.51	-3.678	2997
83.6	3021.823	-6.699	-3.373	2998
83.8	3023.609	-6.329	-3.076	3000
84	3025.396	-6.511	-3.625	3001
84.2	3027.184	-6.709	-3.85	3002
84.4	3028.971	-6.657	-3.592	3004
84.6	3030.755	-6.724	-3.116	3005
84.8	3032.536	-6.838	-3.232	3007
85	3034.311	-6.663	-3.233	3008
85.2	3036.079	-7.133	-3.14	3009
85.4	3037.838	-7.147	-3.054	3011
85.6	3039.588	-7.187	-3.102	3012
85.8	3041.325	-7.279	-3.183	3013
86	3043.051	-7.569	-3.798	3015
86.2	3044.761	-7.305	-4.442	3016
86.4	3046.456	-7.7	-4.746	3017
86.6	3048.133	-8.032	-4.205	3019
86.8	3049.791	-7.955	-4.412	3020
87	3051.43	-7.906	-5.251	3021
87.2	3053.046	-7.876	-5.181	3023
87.4	3054.638	-7.796	-4.663	3024
87.6	3056.206	-7.638	-4.084	3026
87.8	3057.748	-7.169	-3.246	3027
88	3059.261	-7.364	-3.451	3028
88.2	3060.746	-7.389	-3.331	3030
88.4	3062.199	-7.177	-2.922	3031
88.6	3063.62	-7.712	-3.15	3032
88.8	3065.007	-7.974	-3.098	3034
89	3066.359	-7.904	-3.117	3035
89.2	3067.675	-8.07	-3.505	3036
89.4	3068.952	-8.107	-3.439	3038
89.6	3070.189	-7.708	-3.237	3039
89.8	3071.385	-7.661	-3.189	3040

90	3072.538	-7.814	-3.268	3042
90.2	3073.669	-7.672	-3.22	3043
90.4	3074.798	-7.909	-3.146	3045
90.6	3075.927	-8.036	-3.257	3047
90.8	3077.055	-8.203	-3.408	3048
91	3078.182	-8.158	-3.389	3050
91.2	3079.309	-7.922	-3.926	3052
91.4	3080.435	-8.031	-3.866	3053
91.6	3081.561	-7.902	-3.644	3055
91.8	3082.686	-7.883	-3.984	3056
92	3083.811	-8.129	-4.021	3058
92.2	3084.937	-7.93	-4.266	3060
92.4	3086.062	-8.025	-5.113	3061
92.6	3087.188	-8.123	-4.881	3063
92.8	3088.314	-8.138	-3.913	3064
93	3089.44	-8.004	-3.863	3066
93.2	3090.567	-8.151	-4.464	3068
93.4	3091.695	-8.167	-4.835	3069
93.6	3092.823	-8.018	-4.16	3071
93.8	3093.952	-7.817	-3.917	3073
94	3095.083	-7.666	-3.752	3074
94.2	3096.214	-7.546	-3.69	3076
94.4	3097.347	-7.482	-3.809	3077
94.6	3098.481	-7.607	-4.098	3079
94.8	3099.616	-7.572	-4.223	3081
95	3100.753	-7.587	-4.366	3082
95.2	3101.892	-7.704	-4.205	3084
95.4	3103.033	-7.569	-4.323	3085
95.6	3104.175	-7.527	-4.508	3087
95.8	3105.32	-7.675	-4.509	3089
96	3106.466	-7.788	-4.376	3090
96.2	3107.615	-7.8	-4.088	3092
96.4	3108.767	-7.865	-3.892	3093
96.6	3109.92	-7.798	-3.683	3095
96.8	3111.077	-7.879	-3.737	3097
97	3112.236	-7.797	-3.838	3098
97.2	3113.398	-7.696	-4.077	3100
97.4	3114.563	-7.49	-4.199	3102
97.6	3115.731	-7.474	-4.087	3103
97.8	3116.902	-7.55	-3.815	3105
98	3118.076	-7.544	-3.812	3106
98.2	3119.254	-7.44	-4.254	3108
98.4	3120.436	-7.345	-4.991	3110
98.6	3121.621	-7.354	-5.369	3111
98.8	3122.809	-7.386	-4.972	3113
99	3124.002	-7.625	-4.902	3114
99.2	3125.199	-7.719	-4.514	3116
99.4	3126.399	-7.769	-4.068	3118
99.6	3127.604	-7.803	-4.049	3119
99.8	3128.814	-7.965	-4.173	3121
100	3130.027	-8.08	-4.121	3123

100.2	3131.246	-8.346	-4.078	3124
100.4	3132.469	-8.339	-4.181	3126
100.6	3133.696	-8.314	-4.323	3127
100.8	3134.929	-8.279	-4.531	3129
101	3136.166	-8.287	-4.385	3131
101.2	3137.409	-8.181	-4.131	3132
101.4	3138.657	-8.156	-4.122	3134
101.6	3139.911	-7.964	-4.247	3135
101.8	3141.169	-7.708	-4.329	3137
102	3142.434	-7.638	-4.37	3139
102.2	3143.704	-7.694	-4.378	3140
102.4	3144.98	-7.949	-4.433	3142
102.6	3146.262	-8.083	-4.714	3143
102.8	3147.55	-8.171	-4.73	3145
103	3148.843	-8.18	-4.594	3147
103.2	3150.144	-8.106	-4.382	3148
103.4	3151.45	-8.073	-4.25	3150
103.6	3152.764	-8.071	-4.233	3152
103.8	3154.083	-8.047	-4.155	3153
104	3155.41	-8.161	-4.034	3155
104.2	3156.743	-8.213	-3.958	3156
104.4	3158.084	-8.094	-3.816	3158
104.6	3159.431	-8.051	-3.764	3160
104.8	3160.786	-8.069	-3.857	3161
105	3162.147	-7.97	-3.653	3163
105.2	3163.517	-7.875	-3.543	3164
105.4	3164.894	-7.594	-3.42	3166
105.6	3166.278	-7.39	-3.479	3168
105.8	3167.67	-7.401	-3.566	3169
106	3169.07	-7.452	-3.707	3171
106.2	3170.478	-7.629	-3.893	3173
106.4	3171.894	-7.677	-3.742	3174
106.6	3173.319	-7.721	-3.624	3176
106.8	3174.752	-7.73	-3.486	3177
107	3176.193	-7.742	-3.304	3179
107.2	3177.642	-7.669	-3.329	3181
107.4	3179.101	-7.628	-3.508	3182
107.6	3180.568	-7.641	-3.687	3184
107.8	3182.044	-7.672	-3.976	3185
108	3183.529	-7.542	-3.924	3187
108.2	3185.023	-7.513	-4.11	3189
108.4	3186.527	-7.46	-4.14	3190
108.6	3188.04	-7.42	-4.155	3192
108.8	3189.562	-7.462	-4.143	3193
109	3191.094	-7.477	-4.021	3195
109.2	3192.635	-7.444	-4.106	3197
109.4	3194.187	-7.48	-3.939	3198
109.6	3195.748	-7.355	-3.902	3200
109.8	3197.319	-7.317	-3.797	3202
110	3198.901	-7.384	-3.916	3203
110.2	3200.493	-7.328	-3.923	3205

110.4	3202.095	-7.483	-4.152	3206
110.6	3203.708	-7.687	-4.245	3208
110.8	3205.331	-7.889	-4.52	3210
111	3206.965	-7.975	-4.469	3211
111.2	3208.61	-7.834	-4.257	3213
111.4	3210.266	-7.807	-4.055	3214
111.6	3211.932	-7.704	-3.919	3216
111.8	3213.611	-7.351	-3.575	3218
112	3215.3	-7.402	-3.762	3219
112.2	3217.001	-7.369	-3.753	3221
112.4	3218.713	-7.298	-3.699	3223
112.6	3220.437	-7.495	-3.653	3224
112.8	3222.173	-7.608	-3.458	3226
113	3223.921	-7.75	-3.5	3227
113.2	3225.68	-7.845	-3.502	3229
113.4	3227.452	-7.948	-3.597	3231
113.6	3229.249	-8.051	-3.544	3233
113.8	3231.145	-7.995	-3.659	3236
114	3233.153	-8.011	-3.673	3240
114.2	3235.271	-8.045	-3.903	3243
114.4	3237.497	-7.984	-3.778	3246
114.6	3239.829	-7.962	-3.858	3250
114.8	3242.265	-7.965	-3.817	3253
115	3244.805	-7.939	-4.078	3256
115.2	3247.446	-7.857	-3.998	3260
115.4	3250.187	-7.816	-3.926	3263
115.6	3253.026	-7.645	-4.08	3266
115.8	3255.961	-7.651	-3.92	3270
116	3258.991	-7.646	-3.88	3273
116.2	3262.114	-7.666	-3.776	3276
116.4	3265.329	-7.601	-3.602	3280
116.6	3268.633	-7.621	-3.526	3283
116.8	3272.026	-7.61	-3.443	3286
117	3275.506	-7.676	-3.487	3290
117.2	3279.07	-7.651	-3.449	3293
117.4	3282.717	-7.72	-3.526	3296
117.6	3286.447	-7.709	-3.419	3300
117.8	3290.256	-7.788	-3.511	3303
118	3294.143	-7.834	-3.529	3306
118.2	3298.107	-7.92	-3.569	3309
118.4	3302.147	-7.911	-3.639	3313
118.6	3306.259	-7.989	-3.665	3316
118.8	3310.443	-7.943	-3.625	3319
119	3314.698	-7.882	-3.585	3323
119.2	3319.021	-7.836	-3.512	3326
119.4	3323.41	-7.8	-3.457	3329
119.6	3327.865	-7.765	-3.496	3333
119.8	3332.383	-7.698	-3.459	3336
120	3336.964	-7.706	-3.449	3339
120.2	3341.604	-7.635	-3.374	3343
120.4	3346.303	-7.623	-3.427	3346

120.6	3351.059	-7.568	-3.372	3349
120.8	3355.87	-7.377	-3.444	3353
121	3360.735	-7.337	-3.295	3356
121.2	3365.652	-7.314	-3.138	3359
121.4	3370.619	-7.229	-2.927	3363
121.6	3375.891	-7.059	-2.859	3371
121.8	3382.915	-6.928	-2.43	3384
122	3391.722	-6.848	-2.648	3398
122.2	3402.075	-6.76	-2.618	3411
122.4	3413.741	-6.644	-2.75	3424
122.6	3426.482	-6.092	-2.688	3438
122.8	3440.065	-6.672	-2.741	3451
123	3454.252	-5.398	-2.345	3464
123.2	3468.809	-6.268	-3.52	3478
123.4	3483.499	-6.806	-3.734	3491
123.6	3498.089	-7.244	-4.195	3505
123.8	3512.341	-7.354	-4.1	3518
124	3526.021	-3.446	-2.352	3531
124.2	3538.893	-1.408	-1.695	3545
124.4	3550.722	-1.744	-1.726	3558
124.6	3561.898	-1.727	-2.081	3570
124.8	3575.584	-2.49	-1.739	3581
125	3591.226	-3.353	-2.707	3592
125.2	3607.601	-3.468	-3.014	3602
125.4	3623.49	-3.472	-2.62	3613
125.6	3637.67	-3.56	-2.868	3624
125.8	3648.92	-3.499	-2.834	3635
126	3656.018	-3.93	-2.999	3645
126.2	3660.585	-4.379	-3.365	3648
126.4	3665.055	-4.921	-2.582	3650
126.6	3669.429	-4.426	-3.005	3653
126.8	3673.711	-4.284	-2.181	3655
127	3677.902	-4.858	-2.722	3658
127.2	3682.004	-4.301	-2.86	3660
127.4	3686.019	-4.442	-3.697	3663
127.6	3689.948	-4.653	-3.855	3665
127.8	3693.796	-4.444	-3.733	3668
128	3697.562	-4.302	-3.461	3671
128.2	3701.249	-4.343	-3.2	3673
128.4	3704.859	-5.478	-3.34	3676
128.6	3708.395	-4.625	-3.577	3678
128.8	3711.857	-4.824	-3.872	3681
129	3715.249	-4.99	-2.941	3683
129.2	3718.572	-4.16	-2.652	3686
129.4	3721.828	-5.16	-3.012	3688
129.6	3725.019	-5.099	-2.668	3691
129.8	3728.147	-4.868	-2.439	3693
130	3731.215	-4.441	-2.547	3696
130.2	3734.223	-4.676	-3.032	3698
130.4	3737.175	-3.833	-2.354	3701
130.6	3740.072	-4.032	-2.394	3703

130.8	3742.916	-4.087	-2.282	3706
131	3745.71	-3.77	-2.451	3708
131.2	3748.454	-4.015	-3.178	3711
131.4	3751.152	-3.926	-2.375	3713
131.6	3753.805	-4.284	-1.931	3716
131.8	3756.416	-4.589	-2.129	3718
132	3758.985	-4.317	-2.15	3721
132.2	3761.516	-4.377	-2.371	3723
132.4	3764.01	-4.172	-2.783	3726
132.6	3766.469	-4.234	-3.37	3728
132.8	3768.896	-4.266	-3.442	3731
133	3771.291	-4.409	-2.995	3734
133.2	3773.658	-4.433	-2.948	3736
133.4	3775.999	-4.938	-3.284	3739
133.6	3778.315	-4.994	-3.949	3741
133.8	3780.607	-5.546	-3.851	3744
134	3782.88	-5.667	-3.36	3746
134.2	3785.133	-5.01	-2.817	3749
134.4	3787.37	-4.974	-3.305	3751
134.6	3789.604	-5.155	-3.073	3755
134.8	3791.899	-4.795	-2.93	3761
135	3794.267	-4.699	-2.735	3767
135.2	3796.704	-4.771	-4.109	3773
135.4	3799.209	-4.541	-4.449	3779
135.6	3801.78	-5.159	-3.822	3785
135.8	3804.414	-4.972	-4.081	3791
136	3807.109	-5.578	-2.73	3797
136.2	3809.865	-5.565	-2.995	3803
136.4	3812.677	-5.046	-3.305	3809
136.6	3815.545	-5.072	-3.277	3815
136.8	3818.467	-5.502	-3.267	3821
137	3821.44	-5.175	-3.093	3827
137.2	3824.462	-5.472	-3.1	3833
137.4	3827.531	-4.725	-3.275	3839
137.6	3830.646	-4.743	-3.016	3845
137.8	3833.804	-5.408	-2.948	3851
138	3837.003	-5.322	-3.318	3857
138.2	3840.242	-5.098	-2.302	3863
138.4	3843.517	-5.093	-2.1	3868
138.6	3846.828	-4.681	-2.208	3874
138.8	3850.172	-5.427	-2.4	3880
139	3853.546	-5.124	-2.65	3886
139.2	3856.95	-5.133	-2.81	3892
139.4	3860.381	-5.1	-3.273	3898
139.6	3863.836	-5.559	-2.508	3904
139.8	3867.315	-5.733	-2.484	3910
140	3870.814	-5.865	-2.655	3916
140.2	3874.332	-5.663	-2.44	3922
140.4	3877.867	-5.784	-2.803	3928
140.6	3881.417	-5.453	-3.598	3934
140.8	3884.979	-5.239	-3.591	3940

141	3888.552	-5.444	-2.961	3946
141.2	3892.134	-5.469	-3.718	3952
141.4	3895.722	-5.645	-3.71	3958
141.6	3899.315	-6.349	-3.976	3964
141.8	3902.911	-6.253	-3.339	3970
142	3906.507	-5.815	-3.23	3976
142.2	3910.101	-5.894	-3.573	3982
142.4	3913.692	-6.012	-3.384	3988
142.6	3917.277	-5.773	-3.516	3993
142.8	3920.855	-5.863	-3.956	3999
143	3924.423	-6.388	-3.733	4005
143.4	3931.522	-6.126	-3.348	4017
143.6	3935.049	-5.844	-3.869	4023
143.8	3938.558	-5.794	-3.67	4029
144	3942.047	-5.766	-3.986	4035
144.2	3945.514	-6.286	-3.517	4041
144.6	3952.487	-6.146	-3.631	4051
144.8	3956.74	-6.29	-3.821	4053
145	3961.753	-6.225	-4.245	4055
145.2	3967.445	-6.188	-4.906	4058
145.4	3973.736	-6.216	-3.793	4060
145.6	3980.546	-6.082	-3.35	4062
145.8	3987.797	-6.379	-3.429	4064
146	3995.406	-6.515	-3.343	4066
146.2	4003.296	-6.673	-2.649	4068
146.4	4011.385	-6.71	-3.072	4071
146.6	4019.594	-6.925	-3.382	4073
146.8	4027.843	-6.794	-4.089	4075
147	4036.051	-6.35	-3.788	4077
147.2	4044.14	-6.434	-3.507	4079
147.4	4052.029	-6.502	-3.606	4081
147.6	4059.638	-6.792	-3.621	4084
147.8	4066.887	-6.32	-4.003	4086
148	4073.697	-6.355	-3.606	4088
148.2	4079.986	-6.342	-3.687	4090
148.6	4090.87	-6.506	-4.603	4094
148.8	4096.575	-6.576	-4.41	4097
149	4102.889	-6.601	-4.605	4099
149.2	4109.726	-7.027	-4.706	4107
149.4	4117	-7.297	-4.432	4115
149.6	4124.624	-7.242	-4.261	4123
149.8	4132.513	-7.005	-3.76	4131
150	4140.58	-6.947	-3.473	4139
150.2	4148.739	-6.749	-2.978	4148
150.4	4156.904	-6.673	-2.933	4156
150.6	4164.99	-6.59	-3.275	4164
150.8	4172.909	-6.686	-3.602	4172
151	4180.576	-6.473	-3.784	4180
151.2	4187.905	-6.527	-3.724	4188
151.4	4194.81	-6.373	-3.497	4196
151.6	4201.204	-6.474	-3.649	4205

151.8	4207.002	-6.558	-4.014	4213
152	4212.117	-6.543	-3.618	4221
152.2	4216.463	-6.677	-2.95	4229
152.4	4219.954	-6.492	-2.886	4237
152.6	4222.627	-6.39	-2.895	4242
152.8	4225.16	-6.331	-3.303	4243
153	4227.672	-6.44	-3.342	4245
153.2	4230.163	-6.337	-3.559	4246
153.4	4232.633	-6.588	-3.659	4247
153.6	4235.083	-6.677	-3.457	4249
153.8	4237.512	-6.459	-2.646	4250
154	4239.92	-6.588	-3.149	4251
154.2	4242.308	-6.075	-3.24	4253
154.4	4244.675	-5.956	-3.835	4254
154.6	4247.022	-5.769	-3.645	4255
154.8	4249.349	-5.407	-4.027	4257
155	4251.655	-5.937	-4.308	4258
155.2	4253.941	-6.352	-3.921	4259
155.4	4256.207	-6.258	-3.842	4261
155.6	4258.453	-6.137	-3.56	4262
155.8	4260.679	-6.381	-2.866	4263
156	4262.885	-6.54	-2.871	4265
156.2	4265.071	-6.922	-3.203	4266
156.4	4267.238	-6.739	-3.336	4268
156.6	4269.385	-6.905	-3.578	4269
156.8	4271.512	-6.86	-2.926	4270
157	4273.62	-7.166	-3.257	4272
157.2	4275.708	-7.041	-3.311	4273
157.4	4277.777	-6.862	-3.282	4274
157.6	4279.826	-6.935	-3.171	4276
157.8	4281.856	-6.938	-3.34	4277
158	4283.868	-7.029	-3.254	4278
158.2	4285.859	-6.353	-3.263	4280
158.4	4287.832	-6.706	-3.57	4281
158.6	4289.786	-6.765	-3.928	4282
158.8	4291.721	-6.435	-3.992	4284
159	4293.637	-6.589	-4.193	4285
159.2	4295.535	-6.294	-3.93	4286
159.4	4297.414	-6.629	-3.764	4288
159.6	4299.274	-6.721	-3.91	4289
159.8	4301.115	-6.279	-3.815	4290
160	4302.939	-6.131	-3.766	4292
160.2	4304.743	-6.186	-3.032	4293
160.4	4306.53	-6.339	-3.29	4294
160.6	4308.298	-6.595	-3.762	4296
160.8	4310.048	-5.982	-3.598	4297
161.2	4313.493	-6.164	-4.245	4300
161.4	4315.189	-6.672	-3.988	4301
161.6	4316.888	-6.834	-3.843	4303
161.8	4318.715	-6.953	-2.985	4305
162	4320.682	-7.004	-2.983	4307

162.2	4322.779	-7.249	-3.352	4309
162.4	4324.998	-7.111	-3.985	4311
162.6	4327.328	-6.842	-3.604	4313
162.8	4329.761	-6.886	-3.599	4315
163	4332.287	-6.676	-3.584	4317
163.2	4334.896	-7.04	-4.509	4319
163.4	4337.58	-7.306	-4.357	4321
163.6	4340.329	-7.225	-3.726	4323
163.8	4343.133	-6.979	-3.421	4325
164	4345.983	-6.964	-3.729	4327
164.2	4348.87	-7.013	-3.457	4329
164.4	4351.784	-7.552	-4.019	4331
164.6	4354.716	-7.454	-4.397	4333
164.8	4357.657	-7.398	-4.065	4335
165	4360.597	-7.347	-3.345	4337
165.2	4363.527	-7.288	-2.971	4339
165.4	4366.437	-6.925	-3.829	4341
165.6	4369.318	-7.161	-3.663	4343
165.8	4372.161	-6.952	-3.615	4345
166	4374.956	-6.825	-3.73	4347
166.2	4377.694	-6.633	-3.422	4349
166.4	4380.365	-6.727	-4.334	4351
166.6	4382.961	-6.755	-4.395	4353
166.8	4385.471	-6.514	-3.348	4355
167	4387.886	-6.61	-3.325	4357
167.2	4390.198	-6.595	-3.532	4359
167.4	4392.396	-6.698	-3.218	4361
167.6	4394.471	-6.561	-3.822	4363
167.8	4396.414	-6.832	-4.351	4365
168	4398.216	-6.878	-2.948	4367
168.2	4399.867	-6.949	-3.041	4369
168.4	4401.357	-7.214	-3.452	4371
168.6	4402.695	-7.505	-3.456	4373
168.8	4403.987	-7.337	-3.443	4373
169	4405.254	-7.382	-3.343	4373
169.2	4406.501	-7.193	-2.674	4373
169.4	4407.733	-7.519	-2.93	4373
169.6	4408.953	-7.18	-2.997	4373
169.8	4410.166	-7.494	-3.48	4373
170	4411.377	-7.449	-3.511	4373
170.2	4412.59	-7.057	-3.605	4373
170.4	4413.81	-6.647	-3.433	4373
170.6	4415.042	-5.668	-3.791	4373
170.8	4416.289	-6.49	-4.231	4373
171	4417.556	-6.937	-4.403	4373
171.2	4418.848	-6.859	-4.794	4373
171.4	4420.169	-7.341	-4.295	4373
171.6	4421.524	-7.113	-3.921	4373
171.8	4422.917	-7.188	-4.345	4373
172	4424.353	-7.065	-4.039	4373
172.2	4425.836	-7.225	-4.145	4374

172.4	4427.371	-7.156	-3.574	4374
172.6	4428.962	-6.869	-2.844	4374
172.8	4430.613	-6.933	-3.305	4374
173	4432.329	-6.89	-3.61	4374
173.2	4434.116	-7.216	-4.202	4374
173.4	4435.976	-7.143	-4.035	4374
173.6	4438.011	-7.077	-3.739	4378
173.8	4440.774	-6.951	-3.953	4388
174	4444.302	-6.839	-3.563	4397
174.2	4448.533	-6.836	-3.597	4406
174.4	4453.405	-6.694	-3.675	4415
174.6	4458.855	-6.736	-3.873	4425
174.8	4464.82	-6.733	-3.9	4434
175	4471.24	-6.777	-4.234	4443
175.2	4478.051	-6.64	-4.384	4452
175.4	4485.191	-7.06	-4.636	4461
175.6	4492.598	-7.154	-4.444	4471
175.8	4500.21	-6.852	-3.664	4480
176	4507.964	-6.877	-3.695	4489
176.2	4515.799	-6.49	-3.048	4498
176.4	4523.652	-6.289	-3.535	4507
176.6	4531.46	-6.397	-3.877	4517
176.8	4539.162	-6.415	-4.198	4526
177	4546.695	-6.502	-4.054	4535
177.2	4553.997	-7.118	-3.693	4544
177.4	4561.005	-7.175	-3.923	4554
177.6	4567.659	-7.034	-4.295	4563
177.8	4573.894	-7.044	-4.686	4572
178	4579.649	-7.086	-3.813	4581
178.2	4584.862	-6.949	-3.45	4590
178.4	4589.471	-6.734	-3.384	4600
178.6	4593.515	-6.612	-3.489	4606
178.8	4597.564	-6.839	-3.45	4611
179	4601.705	-6.81	-3.503	4615
179.2	4605.924	-5.982	-3.712	4620
179.4	4610.207	-4.696	-3.643	4624
179.6	4614.542	-4.027	-3.4	4629
179.8	4618.915	-3.774	-2.694	4633
180	4623.312	-3.875	-3.133	4638
180.2	4627.72	-4.068	-3.034	4642
180.4	4632.125	-4.556	-2.555	4647
180.6	4636.514	-4.982	-2.449	4651
180.8	4640.873	-4.65	-2.347	4656
181	4645.189	-4.444	-2.463	4660
181.2	4649.449	-5.064	-2.414	4665
181.4	4653.638	-5.161	-3.161	4669
181.6	4657.743	-5.057	-3.401	4674
181.8	4661.752	-5.072	-2.574	4678
182	4665.65	-5.386	-2.966	4683
182.2	4669.424	-5.6	-2.906	4687
182.4	4673.06	-5.48	-3.39	4692

182.6	4676.545	-5.435	-4.323	4696
182.8	4679.866	-5.352	-4.494	4701
183	4683.008	-5.136	-4.415	4705
183.2	4685.959	-4.872	-3.931	4710
183.4	4688.705	-4.746	-4.241	4714
183.6	4691.233	-5.005	-3.653	4719
183.8	4693.528	-5.242	-2.818	4723
184	4695.578	-5.157	-2.592	4728
184.2	4697.494	-5.3	-2.572	4729
184.4	4699.396	-5.406	-2.967	4730
184.6	4701.285	-5.396	-3.348	4732
184.8	4703.161	-5.342	-2.795	4733
185	4705.024	-5.067	-3.316	4734
185.2	4706.876	-5.273	-3.539	4736
185.4	4708.715	-5.665	-2.694	4737
185.6	4710.542	-5.096	-2.975	4738
185.8	4712.359	-5.584	-2.559	4740
186	4714.164	-5.332	-2.716	4741
186.2	4715.959	-5.098	-2.879	4742
186.4	4717.743	-5.237	-3.311	4744
186.6	4719.518	-5.4	-3.688	4745
186.8	4721.282	-5.282	-3.21	4746
187	4723.038	-5.56	-3.216	4748
187.2	4724.784	-5.715	-4.141	4749
187.4	4726.521	-5.885	-3.602	4750
187.6	4728.25	-6.353	-3.604	4752
187.8	4729.971	-6.333	-3.702	4753
188	4731.685	-6.339	-3.616	4754
188.2	4733.391	-6.132	-3.079	4755
188.4	4735.089	-6.27	-2.504	4757
188.6	4736.781	-5.323	-1.957	4758
188.8	4738.467	-5.251	-2.186	4759
189	4740.146	-5.413	-2.263	4761
189.2	4741.819	-5.943	-2.602	4762
189.4	4743.487	-5.84	-3.025	4763
189.6	4745.15	-5.308	-3.107	4765
189.8	4746.808	-5.796	-2.941	4766
190	4748.462	-5.896	-2.758	4767
190.2	4750.111	-6.14	-3.067	4769
190.4	4751.756	-6.162	-2.994	4770
190.6	4753.398	-6.055	-3.248	4771
190.8	4755.036	-6.125	-3.875	4773
191	4756.672	-6.295	-4.023	4774
191.2	4758.305	-6.288	-3.703	4775
191.4	4759.935	-6.208	-3.39	4777
191.6	4761.564	-6.492	-3.351	4778
191.8	4763.191	-6.218	-3.477	4779
192	4764.817	-6.568	-3.991	4781
192.2	4766.442	-6.689	-3.701	4782
192.4	4768.066	-6.699	-4.064	4783
192.6	4769.69	-7.138	-5.007	4785

192.8	4771.313	-6.455	-5.014	4786
193	4772.937	-6.202	-4.537	4787
193.2	4774.562	-6.648	-4.102	4789
193.4	4776.188	-6.001	-3.395	4790
193.6	4777.815	-6.125	-3.761	4791
193.8	4779.443	-6.497	-4.016	4793
194	4781.073	-6.804	-4.676	4794
194.2	4782.706	-6.299	-4.106	4795
194.4	4784.341	-6.026	-4.534	4797
194.6	4785.979	-5.932	-4.143	4798
194.8	4787.62	-6.322	-4.07	4799
195	4789.265	-6.424	-3.928	4801
195.2	4790.914	-6.399	-4.096	4802
195.4	4792.566	-6.592	-4.65	4803
195.6	4794.224	-6.638	-4.103	4805
195.8	4795.886	-6.425	-3.828	4806
196	4797.553	-6.773	-4.342	4807
196.2	4799.226	-6.67	-4.056	4809
196.4	4800.904	-6.688	-3.731	4810
196.6	4802.588	-6.677	-3.454	4811
196.8	4804.279	-6.801	-4.357	4813
197	4805.977	-7.047	-4.373	4814
197.2	4807.682	-6.948	-3.712	4815
197.4	4809.394	-6.309	-3.951	4817
197.6	4811.114	-6.43	-3.666	4818
197.8	4812.842	-6.351	-3.146	4819
198	4814.578	-6.493	-3.656	4820
198.2	4816.323	-6.487	-4.408	4822
198.4	4818.077	-6.9	-5.134	4823
198.6	4819.84	-7.019	-4.666	4824
198.8	4821.613	-6.596	-4.336	4826
199	4823.396	-6.754	-4.479	4827
199.2	4825.189	-6.442	-4.821	4828
199.4	4826.993	-6.707	-4.105	4830
199.6	4828.807	-6.499	-4.17	4831
199.8	4830.633	-6.66	-4.507	4832
200	4832.471	-6.802	-4.283	4834
200.2	4834.32	-6.665	-3.937	4835
200.4	4836.182	-6.637	-4.674	4836
200.6	4838.056	-6.983	-3.896	4838
200.8	4839.943	-6.921	-3.874	4839
201	4841.843	-6.874	-4.051	4840
201.2	4843.757	-7.439	-4.348	4842
201.4	4845.685	-7.684	-4.251	4843
201.6	4847.626	-7.347	-4.061	4844
201.8	4849.583	-7.378	-3.675	4846
202	4851.554	-7.583	-3.772	4847
202.2	4853.54	-7.712	-3.226	4848
202.4	4855.541	-7.705	-3.489	4850
202.6	4857.565	-7.815	-4.192	4852
202.8	4859.648	-7.893	-4.564	4855

203	4861.795	-8.334	-4.087	4859
203.2	4864.006	-8.313	-3.567	4862
203.4	4866.278	-7.599	-3.45	4866
203.6	4868.611	-6.874	-2.873	4869
203.8	4871.002	-6.943	-2.986	4873
204	4873.452	-6.485	-3.523	4876
204.2	4875.958	-5.764	-3.818	4879
204.4	4878.52	-6.358	-3.527	4883
204.6	4881.135	-6.547	-3.872	4886
204.8	4883.803	-6.686	-3.914	4890
205	4886.522	-6.604	-3.851	4893
205.2	4889.291	-6.532	-3.349	4897
205.4	4892.109	-6.62	-3.26	4900
205.6	4894.974	-6.526	-3.055	4904
205.8	4897.885	-6.196	-2.291	4907
206	4900.841	-6.179	-2.143	4910
206.2	4903.84	-5.957	-2.286	4914
206.4	4906.881	-6.133	-2.067	4917
206.6	4909.963	-6.509	-2.331	4921
206.8	4913.085	-6.839	-2.372	4924
207	4916.245	-7.012	-2.71	4928
207.2	4919.441	-7.106	-2.884	4931
207.4	4922.673	-6.779	-2.911	4934
207.6	4925.94	-6.969	-3.357	4938
207.8	4929.239	-6.876	-3.65	4941
208	4932.57	-6.45	-3.688	4945
208.2	4935.931	-6.344	-3.62	4948
208.4	4939.321	-6.067	-3.969	4952
208.6	4942.738	-6.487	-3.918	4955
208.8	4946.182	-6.283	-3.725	4958
209	4949.651	-6.312	-4.183	4962
209.2	4953.144	-6.035	-4.236	4965
209.4	4956.659	-5.762	-3.595	4969
209.6	4960.196	-6.053	-3.317	4972
209.8	4963.752	-5.927	-3.486	4976
210	4967.327	-5.85	-3.671	4979
210.2	4970.918	-5.844	-3.995	4982
210.4	4974.526	-5.943	-3.823	4986
210.6	4978.148	-6.255	-3.463	4989
210.8	4981.783	-6.311	-3.127	4993
211	4985.43	-6.231	-3.153	4996
211.2	4989.088	-6.057	-3.203	5000
211.4	4992.755	-6.01	-3.296	5003
211.6	4996.431	-6.026	-3.715	5006
211.8	5000.112	-6.446	-3.826	5010
212	5003.8	-6.316	-3.763	5013
212.2	5007.491	-6.62	-3.815	5017
212.4	5011.185	-6.925	-3.154	5020
212.6	5014.88	-7.15	-3.195	5024
212.8	5018.575	-6.892	-3.208	5027
213	5022.27	-6.928	-3.781	5030

213.2	5025.961	-7	-3.868	5034
213.4	5029.649	-7.091	-3.832	5037
213.6	5033.332	-7.123	-4.424	5041
213.8	5037.008	-7.214	-4.93	5044
214	5040.677	-7.42	-4.828	5048
214.2	5044.336	-6.982	-4.407	5051
214.4	5047.985	-7.023	-4.713	5054
214.6	5051.623	-7.06	-4.01	5058
214.8	5055.247	-6.599	-3.55	5061
215	5058.857	-6.819	-3.591	5065
215.2	5062.451	-7.084	-3.564	5068
215.4	5066.029	-7.08	-4.094	5072
215.6	5069.588	-7.238	-5.019	5075
215.8	5073.127	-7.313	-5.428	5078
216	5076.646	-7.187	-4.217	5082
216.2	5080.143	-7.135	-4.405	5085
216.4	5083.616	-7.138	-4.341	5089
216.6	5087.064	-6.908	-3.914	5092
216.8	5090.486	-6.741	-4.451	5096
217	5093.88	-6.97	-4.148	5099
217.2	5097.246	-7.136	-4.141	5102
217.4	5100.582	-6.896	-4.439	5106
217.6	5103.886	-7.031	-4.572	5109
217.8	5107.158	-7.269	-4.282	5113
218	5110.396	-7.431	-4.343	5116
218.2	5113.598	-7.34	-5.095	5120
218.4	5116.764	-7.246	-5.622	5123
218.6	5119.892	-7.359	-5.666	5127
218.8	5122.98	-7.207	-4.577	5130
219	5126.028	-6.977	-4.374	5133
219.2	5129.034	-6.769	-3.368	5137
219.4	5131.997	-6.537	-2.707	5140
219.6	5134.931	-6.997	-3.56	5143
219.8	5137.922	-6.99	-3.002	5145
220	5140.983	-6.96	-3.263	5146
220.2	5144.108	-6.576	-3.431	5148
220.4	5147.296	-6.703	-3.193	5150
220.6	5150.541	-6.584	-3.101	5152
220.8	5153.84	-6.394	-3.401	5153
221	5157.189	-6.521	-3.541	5155
221.2	5160.585	-6.499	-3.596	5157
221.4	5164.022	-6.266	-3.622	5159
221.6	5167.499	-6.323	-3.586	5160
221.8	5171.01	-6.631	-3.131	5162
222	5174.552	-6.47	-3.111	5164
222.2	5178.122	-6.411	-3.454	5166
222.4	5181.715	-6.679	-3.518	5168
222.6	5185.327	-6.506	-2.552	5169
222.8	5188.955	-6.61	-2.9	5171
223	5192.595	-6.841	-3.218	5173
223.2	5196.243	-7.238	-3.422	5175

223.4	5199.895	-6.783	-2.807	5176
223.6	5203.548	-7.009	-3.419	5178
223.8	5207.198	-6.593	-3.497	5180
224	5210.84	-6.667	-3.509	5182
224.2	5214.471	-6.766	-3.509	5183
224.4	5218.087	-6.608	-3.32	5185
224.6	5221.685	-6.473	-2.957	5187
224.8	5225.26	-6.698	-3.429	5189
225	5228.809	-6.812	-2.72	5190
225.2	5232.328	-6.931	-3.028	5192
225.4	5235.812	-7.177	-3.336	5194
225.6	5239.259	-6.988	-2.997	5196
225.8	5242.665	-6.865	-2.948	5198
226	5246.025	-7.45	-3.41	5199
226.2	5249.336	-7.731	-3.594	5201
226.4	5252.594	-7.59	-3.614	5203
226.6	5255.795	-7.591	-3.754	5205
226.8	5258.935	-7.656	-3.823	5206
227	5262.011	-7.37	-3.739	5208
227.2	5265.018	-7.313	-3.851	5210
227.4	5267.954	-6.964	-3.382	5212
227.6	5270.84	-6.788	-3.05	5215
227.8	5273.837	-6.45	-3.123	5221
228	5276.965	-6.046	-3.531	5227
228.2	5280.22	-5.664	-2.528	5232
228.4	5283.594	-6.343	-2.848	5238
228.6	5287.084	-6.809	-3.207	5244
228.8	5290.683	-6.681	-3.356	5249
229	5294.385	-6.213	-3.412	5255
229.2	5298.186	-6.35	-4.074	5260
229.4	5302.078	-6.462	-3.583	5266
229.6	5306.058	-6.72	-3.933	5272
229.8	5310.119	-6.471	-4.59	5277
230	5314.255	-6.601	-4.357	5283
230.2	5318.462	-6.858	-4.05	5289
230.4	5322.733	-7.253	-4.009	5294
230.6	5327.062	-7.048	-3.439	5300
230.8	5331.445	-7.023	-3.407	5306
231	5335.875	-6.958	-3.968	5311
231.2	5340.348	-7.085	-4.388	5317
231.4	5344.856	-6.867	-3.768	5322
231.6	5349.396	-6.765	-3.225	5328
231.8	5353.96	-6.662	-3.253	5334
232	5358.544	-6.801	-3.179	5339
232.2	5363.142	-7.007	-2.914	5345
232.4	5367.749	-6.846	-3.087	5351
232.6	5372.358	-7.023	-3.238	5356
232.8	5376.964	-6.724	-3.054	5362
233	5381.561	-6.628	-2.946	5368
233.2	5386.145	-6.353	-2.873	5373
233.4	5390.709	-6.626	-3.092	5379

233.6	5395.248	-6.518	-3.27	5385
233.8	5399.755	-6.469	-3.273	5390
234	5404.226	-5.778	-2.962	5396
234.2	5408.655	-5.016	-2.703	5401
234.4	5413.037	-5.03	-2.638	5407
234.6	5417.364	-4.485	-2.138	5413
234.8	5421.633	-5.126	-2.156	5418
235	5425.838	-5.628	-2.809	5424
235.2	5429.972	-5.475	-3.164	5430
235.4	5434.03	-4.257	-2.428	5435
235.6	5438.008	-5.815	-3.559	5441
235.8	5441.898	-6.452	-3.413	5447
236	5445.695	-6.277	-3.469	5452
236.2	5449.395	-6.269	-4.036	5458
236.4	5452.99	-6.708	-4.465	5463
236.6	5456.477	-6.748	-3.258	5469
236.8	5459.848	-5.545	-2.848	5475
237	5463.098	-6.836	-3.785	5480
237.2	5466.223	-7.136	-4.237	5486
237.4	5469.215	-7.061	-3.842	5492
237.6	5472.07	-6.677	-3.695	5497
237.8	5474.783	-5.213	-3.302	5503
238	5477.346	-3.791	-1.699	5509
238.2	5479.843	-4.699	-2.047	5510
238.4	5482.36	-6.556	-2.904	5510
238.6	5484.893	-6.944	-3.066	5511
238.8	5487.442	-7.187	-2.923	5512
239	5490.005	-6.471	-2.659	5513
239.2	5492.58	-6.408	-2.763	5514
239.4	5495.165	-6.64	-2.898	5515
239.6	5497.759	-6.833	-3.049	5516
239.8	5500.359	-6.697	-3.116	5517
240	5502.965	-6.555	-3.162	5518
240.2	5505.574	-6.302	-3.194	5519
240.4	5508.185	-6.6	-3.339	5520
240.6	5510.796	-6.871	-3.125	5521
240.8	5513.405	-6.988	-3.212	5522
241	5516.01	-7.104	-3.457	5523
241.2	5518.611	-7.006	-3.284	5524
241.4	5521.204	-6.751	-3.304	5524
241.6	5523.788	-6.857	-2.949	5525
241.8	5526.362	-6.857	-2.864	5526
242	5528.924	-6.768	-2.882	5527
242.2	5531.472	-6.889	-3.021	5528
242.4	5534.005	-6.796	-3.016	5529
242.6	5536.52	-6.964	-3.008	5530
242.8	5539.016	-7.106	-3.335	5531
243	5541.491	-7.177	-3.464	5532
243.2	5543.944	-7.436	-3.361	5533
243.4	5546.372	-7.606	-3.53	5534
243.6	5548.775	-7.607	-3.828	5535

243.8	5551.149	-7.604	-3.87	5536
244	5553.495	-7.402	-3.898	5537
244.2	5555.809	-6.841	-4.029	5538
244.4	5558.09	-6.324	-3.526	5538
244.6	5560.336	-5.515	-3.126	5539
244.8	5562.546	-6.271	-3.687	5540
245	5564.718	-6.578	-4.283	5541
245.2	5566.851	-6.089	-3.658	5542
245.4	5568.941	-6.791	-4.574	5543
245.6	5570.996	-6.672	-3.78	5545
245.8	5573.051	-6.002	-3.739	5547
246	5575.116	-6.094	-3.843	5550
246.2	5577.189	-5.885	-3.435	5552
246.4	5579.271	-5.772	-2.588	5555
246.6	5581.362	-6.207	-3.259	5557
246.8	5583.461	-6.319	-3.439	5560
247	5585.57	-6.491	-3.656	5562
247.2	5587.687	-6.36	-3.121	5565
247.4	5589.813	-6.469	-3.391	5567
247.6	5591.948	-6.073	-3.715	5570
247.8	5594.092	-6.322	-3.403	5572
248	5596.244	-6.887	-3.831	5575
248.2	5598.407	-6.223	-2.875	5577
248.4	5600.578	-6.397	-3.386	5580
248.6	5602.758	-6.152	-3.407	5582
248.8	5604.948	-5.776	-2.606	5585
249	5607.146	-6.243	-2.569	5587
249.2	5609.354	-6.799	-3.136	5590
249.4	5611.572	-6.71	-3.308	5592
249.6	5613.799	-7.25	-3.374	5595
249.8	5616.035	-7.28	-3.724	5597
250	5618.28	-7.184	-3.953	5599
250.2	5620.536	-6.995	-3.511	5602
250.4	5622.801	-7.212	-4.863	5604
250.6	5625.075	-7.012	-3.409	5607
250.8	5627.359	-6.875	-3.593	5609
251	5629.653	-6.457	-3.908	5612
251.2	5631.956	-7.341	-3.821	5614
251.4	5634.27	-7.646	-4.039	5617
251.6	5636.593	-7.681	-3.874	5619
251.8	5638.926	-7.51	-3.717	5622
252	5641.268	-7.567	-3.835	5624
252.2	5643.621	-7.744	-3.886	5627
252.4	5645.984	-7.791	-4.061	5629
252.6	5648.357	-7.654	-4.001	5632
252.8	5650.74	-7.81	-4.373	5634
253	5653.133	-7.758	-4.537	5637
253.2	5655.537	-7.9	-4.56	5639
253.4	5657.95	-7.934	-3.85	5642
253.6	5660.374	-7.537	-4.362	5644
253.8	5662.808	-7.646	-5.113	5647

254	5665.252	-7.642	-4.867	5649
254.2	5667.707	-7.62	-4.925	5652
254.4	5670.173	-8.039	-4.319	5654
254.6	5672.649	-7.735	-3.902	5657
254.8	5675.135	-7.638	-4.059	5659
255	5677.632	-7.36	-3.922	5662
255.2	5680.139	-7.056	-4.179	5664
255.4	5682.658	-7.056	-4.06	5667
255.6	5685.186	-6.526	-3.868	5669
255.8	5687.726	-6.898	-4.833	5672
256	5690.277	-6.863	-4.247	5674
256.2	5692.838	-5.972	-3.577	5677
256.4	5695.41	-6.432	-3.544	5679
256.6	5697.993	-7.113	-4.195	5682
256.8	5700.588	-7.09	-4.51	5684
257	5703.193	-6.805	-4.005	5686
257.2	5705.809	-6.681	-3.763	5689
257.4	5708.436	-6.857	-3.367	5691
257.6	5711.075	-6.679	-3.699	5694
257.8	5713.725	-6.664	-3.604	5696
258	5716.385	-6.555	-2.752	5699
258.2	5719.058	-6.603	-2.837	5701
258.4	5721.741	-6.917	-3.215	5704
258.6	5724.436	-7.183	-3.27	5706
258.8	5727.142	-6.868	-2.917	5709
259	5729.86	-7.201	-3.751	5711
259.2	5732.59	-7.048	-4.133	5714
259.4	5735.33	-7.143	-3.255	5716
259.6	5738.083	-6.776	-2.683	5719
259.8	5740.847	-7.027	-3.34	5721
260	5743.623	-6.876	-3.276	5724
260.2	5746.453	-6.736	-3.204	5728
260.4	5749.38	-6.914	-3.464	5733
260.6	5752.399	-6.783	-3.225	5737
260.8	5755.508	-6.982	-3.179	5742
261	5758.705	-7.026	-3.562	5746
261.2	5761.985	-7.053	-3.286	5751
261.4	5765.347	-6.892	-3.131	5756
261.6	5768.787	-6.933	-3.018	5760
261.8	5772.301	-6.764	-2.946	5765
262	5775.889	-6.812	-3.082	5769
262.2	5779.545	-6.775	-3.338	5774
262.4	5783.268	-6.88	-3.591	5778
262.6	5787.055	-6.932	-3.678	5783
262.8	5790.902	-7.155	-3.387	5787
263	5794.806	-6.971	-3.326	5792
263.2	5798.765	-7.083	-2.83	5796
263.4	5802.776	-7.119	-2.845	5801
263.6	5806.835	-6.587	-2.81	5806
263.8	5810.941	-6.789	-3.154	5810
264	5815.089	-6.791	-3.303	5815

264.2	5819.276	-6.694	-3.65	5819
264.4	5823.501	-6.859	-3.985	5824
264.6	5827.76	-6.513	-4.136	5828
264.8	5832.05	-6.739	-4.091	5833
265	5836.368	-6.908	-3.706	5837
265.2	5840.711	-7.138	-3.823	5842
265.4	5845.076	-7.291	-4.096	5846
265.6	5849.46	-7.257	-4.385	5851
265.8	5853.861	-7.202	-4.83	5856
266	5858.275	-7.314	-4.867	5860
266.2	5862.699	-7.196	-4.121	5865
266.4	5867.131	-7.174	-3.733	5869
266.6	5871.567	-7.199	-3.677	5874
266.8	5876.005	-7.318	-3.713	5878
267	5880.442	-7.327	-3.809	5883
267.2	5884.874	-7.228	-3.679	5887
267.4	5889.298	-7.159	-3.542	5892
267.6	5893.713	-7.295	-3.506	5896
267.8	5898.114	-7.007	-3.333	5901
268	5902.5	-7.197	-3.825	5906
268.2	5906.866	-7.244	-4.112	5910
268.4	5911.21	-7.278	-3.758	5915
268.6	5915.529	-7.462	-3.81	5919
268.8	5919.82	-7.559	-3.799	5924
269	5924.081	-7.486	-4.204	5928
269.2	5928.307	-7.446	-4.072	5933
269.4	5932.497	-7.046	-3.756	5937
269.6	5936.647	-6.722	-3.558	5942
269.8	5940.754	-6.548	-2.996	5946
270	5944.816	-6.934	-3.057	5951
270.2	5948.829	-7.503	-3.36	5956
270.4	5952.791	-7.523	-3.5	5960
270.6	5956.698	-7.602	-3.705	5965
270.8	5960.547	-7.835	-3.802	5969
271	5964.337	-7.759	-3.99	5974
271.2	5968.063	-7.968	-4.353	5978
271.4	5971.723	-7.549	-4.208	5983
271.6	5975.314	-7.316	-4.385	5987
271.8	5978.832	-7.25	-4.62	5992
272	5982.275	-7.533	-4.603	5996
272.2	5985.641	-7.797	-4.293	6001
272.4	5988.925	-7.769	-3.872	6005
272.6	5992.135	-7.864	-3.747	6009
272.8	5995.327	-7.465	-3.474	6011
273	5998.51	-7.594	-3.565	6013
273.2	6001.684	-7.588	-3.598	6016
273.4	6004.852	-7.757	-4.134	6018
273.6	6008.012	-7.807	-4.277	6020
273.8	6011.167	-7.443	-4.161	6023
274	6014.316	-7.239	-4.311	6025

PATA-I

DFT(mm)	Copra_Age (yr BP)	$\delta^{13}\text{C}(\text{\textperthousand})$	$\delta^{18}\text{O}(\text{\textperthousand})$	Iscam_Age (yr BP)
15	3363.4449	3.15777	-0.55671585	
15.1	3382.5874	2.76499	-0.58459325	
15.2	3401.6701	2.38195	-0.73685223	
15.3	3420.6913	2.22687	-0.88573008	
15.4	3439.6493	1.99382	-1.13396818	
15.5	3458.5425	1.96476	-1.17547973	
15.6	3477.3692	1.59918	-1.22699739	
15.7	3496.1277	1.43188	-1.47885025	3428
15.8	3514.8165	1.17652	-1.5196057	3450
15.9	3533.4338	0.95734	-1.75445633	3473
16	3551.978	1.02466	-1.97613696	3495
16.1	3570.4474	0.94067	-1.92721016	3517
16.2	3588.8403	0.64811	-2.07128756	3538
16.3	3607.1551	0.65025	-1.93047122	3560
16.4	3625.3902	0.90564	-1.76779583	3581
16.5	3643.5438	0.98213	-1.81884572	3602
16.6	3661.6143	0.65027	-1.85463489	3623
16.7	3679.6001	0.4409	-1.97946858	3644
16.8	3697.4994	0.32573	-1.89940695	3664
16.9	3715.3107	0.35842	-1.98987614	3684
17	3733.0322	0.52558	-2.1316146	3704
17.1	3750.6623	0.76269	-1.990947	3724
17.2	3768.1993	0.47614	-1.8064824	3744
17.3	3785.6417	1.0361	-1.63753676	3763
17.4	3802.9876	1.02639	-1.79491637	3782
17.5	3820.2355	0.82162	-1.77506523	3801
17.6	3837.3837	1.03875	-2.1081257	3820
17.7	3854.4305	0.99858	-1.86614161	3838
17.8	3871.3743	0.88846	-1.80580129	3857
17.9	3888.2133	0.75003	-1.74073523	3875
18	3904.946	0.76586	-1.65407847	3892
18.1	3921.5707	0.84449	-1.48189193	3910
18.2	3938.0858	0.64302	-1.8660618	3927
18.3	3954.4895	0.67603	-1.70098264	3944
18.4	3970.7801	0.43026	-1.76301449	3961
18.5	3986.9561	0.1503	-2.04774919	3978
18.6	4003.0158	0.11216	-2.38065489	3994
18.7	4018.9575	0.17534	-1.76814504	4010
18.8	4034.7796	0.04747	-1.67693171	4026
18.9	4050.4803	0.05985	-1.81264336	4042
19	4066.0581	-0.00207	-2.25758823	4057
19.1	4081.5112	0.14103	-2.30707962	4072
19.2	4096.8381	-0.14923	-2.35648368	4087
19.3	4112.0369	-0.34142	-2.59632155	4102
19.4	4127.1062	-0.2454	-2.46896908	4116
19.5	4142.0442	-0.1991	-2.22853134	4130
19.6	4156.8492	-0.38033	-2.10781184	4144

19.7	4171.5197	-0.68902	-2.31905841	4158
19.8	4186.0538	-0.54537	-2.62782437	4171
19.9	4200.4501	-0.53576	-2.67032564	4185
20	4214.7068	0.11522	-2.28979864	4197
20.1	4228.8222	0.79485	-1.84572343	4210
20.2	4242.7947	0.62571	-1.88333471	4222
20.3	4256.6226	0.05748	-2.24107254	4234
20.4	4270.3043	-0.43158	-2.23835478	4245
20.5	4283.8381	-0.40477	-2.39058943	4256
20.6	4297.2224	-0.10363	-2.21119697	4267
20.7	4310.4554	0.07912	-2.16564483	4277
20.8	4323.5356	-0.12984	-1.67355823	4287
20.9	4336.4612	-0.43246	-1.88570811	4297
21	4349.2306	-0.55777	-1.86832415	4307
21.1	4361.8422	-0.76552	-2.24498312	4317
21.2	4374.2942	-0.4627	-2.22130893	4326
21.3	4386.585	-0.33392	-1.8208598	4336
21.4	4398.713	-0.58661	-1.94080815	4346
21.5	4410.6765	-0.76248	-2.16383287	4355
21.6	4422.4738	-0.90713	-2.32357186	4365
21.7	4434.1033	-0.9418	-2.5504009	4375
21.8	4445.5633	-0.85134	-2.47327887	4386
21.9	4456.8521	-0.59112	-2.38612503	4396
22	4467.9681	-0.36054	-2.62296418	4407
22.1	4478.9096	-0.47817	-2.27036699	4418
22.2	4489.675	-0.92736	-2.70109522	4429
22.3	4500.2195	-0.87005	-2.58673319	4441
22.4	4510.5138	-0.819	-2.54868185	4453
22.5	4520.5798	-1.11562	-3.03908182	4465
22.6	4530.4391	-0.91019	-2.99640424	4477
22.7	4540.1133	-0.42448	-2.29055231	4489
22.8	4549.6244	-0.46266	-1.97884956	4501
22.9	4558.9939	-0.74833	-2.42869337	4513
23	4568.2435	-0.98989	-2.76537105	4525
23.1	4577.3951	-0.9918	-2.97280706	4538
23.2	4586.4702	-0.78352	-3.0546649	4550
23.3	4595.4907	-0.77896	-3.33011007	4563
23.4	4604.4782	-0.68554	-2.72274032	4576
23.5	4613.4545	-0.55268	-2.4953616	4588
23.6	4622.4412	-0.5945	-2.46750371	4601
23.7	4631.46	-0.5109	-2.41609132	4614
23.8	4640.5328	-0.46657	-2.33538318	4628
23.9	4649.6812	-0.34805	-2.10649913	4641
24	4658.9269	-0.31248	-1.74718038	4654
24.1	4668.2916	-0.29284	-2.23347115	4668
24.2	4677.7971	0.04659	-2.1301879	4681
24.3	4687.465	0.07096	-2.11811862	4695
24.4	4697.3171	0.16745	-2.09452312	4709
24.5	4707.3751	0.37622	-1.89882022	4723
24.6	4717.6607	0.32873	-2.03381165	4737
24.7	4728.1957	0.1322	-2.07613897	4751

24.8	4739.0016	0.02966	-2.1031739	4766
24.9	4750.1004	-0.30897	-2.44000574	4780
25	4761.5135	-0.20559	-2.40483748	4795
25.1	4773.2629	-0.41068	-2.3333535	4810
25.2	4785.3702	-0.62792	-2.44818762	4825
25.3	4799.0849	-0.71175	-2.50174871	4840
25.4	4815.4154	-0.42047	-2.35857489	4857
25.5	4834.0217	-0.15453	-2.21245236	4874
25.6	4854.5638	-0.30128	-2.31832682	4893
25.7	4876.7017	-0.5161	-2.05071823	4911
25.8	4900.0955	-0.76268	-2.30719509	4930
25.9	4924.4051	-0.66241	-2.55160239	4949
26	4949.2906	-1.1674	-2.79389557	4969
26.1	4974.4118	-1.18675	-2.90582974	4988
26.2	4999.429	-1.06719	-2.55826868	5007
26.3	5024.002	-0.91545	-2.44749972	5026
26.4	5047.7908	-0.7998	-2.38333539	5044
26.5	5070.4555	-0.92024	-2.38693565	5061
26.6	5091.656	-1.01794	-2.17533062	5078
26.7	5111.0525	-1.30756	-2.46347709	5093
26.8	5128.3047	-1.26197	-2.70242399	5108
26.9	5143.0729	-0.94798	-2.81933534	5121
27	5155.017	-0.74352	-2.79259719	5132
27.1	5165.2164	-0.4014	-2.4732848	5143
27.2	5174.9923	-0.23886	-2.30989649	5153
27.3	5184.367	-0.45544	-2.32235594	5163
27.4	5193.3628	-0.37883	-2.37501377	5172
27.5	5202.0021	-0.04302	-2.28981342	5180
27.6	5210.3071	-0.01669	-2.27495933	5188
27.7	5218.3003	-0.03292	-2.36728612	5196
27.8	5226.004	-0.02753	-2.19175744	5203
27.9	5233.4404	-0.12572	-2.50537026	5210
28	5240.632	0.08095	-2.18012055	5217
28.1	5247.6011	-0.10108	-2.32725256	5224
28.2	5254.3699	-0.1125	-2.29724276	5230
28.3	5260.9609	-0.20201	-2.14739567	5236
28.4	5267.3964	-0.20897	-2.4148113	5242
28.5	5273.6987	-0.20696	-2.50627054	5248
28.6	5279.8901	-0.09954	-2.42791898	5253
28.7	5285.993	-0.15542	-2.39825591	5259
28.8	5292.0298	0.02893	-2.30320826	5264
28.9	5298.0226	0.13941	-2.24499016	5269
29	5303.994	0.24925	-2.25263956	5275
29.1	5309.9662	0.20715	-1.8929424	5280
29.2	5315.9615	0.17191	-1.88983459	5286
29.3	5322.0023	0.17448	-1.98362357	5291
29.4	5328.1109	-0.15398	-2.11246146	5297
29.5	5334.3097	-0.67346	-2.37345813	5303
29.6	5340.621	-0.86355	-2.93434259	5308
29.7	5347.0672	-1.25306	-3.18755968	5315
29.8	5353.6705	-1.49353	-3.2830814	5321

29.9	5360.4533	-1.24286	-3.13915013	5328
30	5367.4379	-0.73343	-2.61335409	5335
30.1	5374.6467	-0.54266	-2.39886899	5342
30.2	5382.102	-0.79085	-2.55046344	5350
30.3	5389.8262	-0.88963	-2.45716303	5358
30.4	5397.8415	-0.37816	-2.38230569	5366
30.5	5406.1703	-0.43953	-2.80380997	5375
30.6	5414.835	-0.46214	-2.84311929	5384
30.7	5423.8578	-0.68163	-2.61022767	5394
30.8	5433.2612	-0.67234	-2.45374901	5404
30.9	5443.0675	-0.95836	-2.35905753	5415
31	5453.2989	-0.78799	-2.17198445	5427
31.1	5464.9197	-0.75929	-1.98163491	5439
31.2	5478.7714	-1.00116	-2.21110253	5453
31.3	5494.6918	-1.1593	-2.22021774	5468
31.4	5512.519	-0.71905	-2.23872433	5484
31.5	5532.0908	-0.60295	-2.4753568	5502
31.6	5553.2453	-0.92997	-2.64571451	5520
31.7	5575.8204	-1.08367	-2.16288754	5540
31.8	5599.654	-0.71507	-2.04227474	5561
31.9	5624.5842	-0.46233	-2.09412279	5583
32	5650.4488	-0.6604	-2.35352064	5606
32.1	5677.0859	-0.95472	-2.54003388	5630
32.2	5704.3334	-1.02577	-2.89094282	5654
32.3	5732.0292	-0.8645	-2.68100688	5680
32.4	5760.0114	-0.53415	-2.4355268	5706
32.5	5788.1178	-0.36002	-2.01893176	5734
32.6	5816.1864	-0.19246	-1.91845242	5762
32.7	5844.0553	-0.0215	-1.69309893	5790
32.9	5898.5454	-0.00108	-2.16239233	5849
33	5924.8426	0.3715	-2.03293876	5880
33.1	5950.2919	0.48624	-1.7312555	5911
33.2	5974.7311	0.16328	-2.07556557	5943
33.3	5997.9983	0.17989	-2.00901932	5975
33.4	6019.9313	0.41858	-1.99931282	6007
33.5	6040.3683	0.20066	-2.26049528	6040
33.6	6059.1471	0.38397	-2.3567092	6073
33.7	6076.1057	0.31015	-1.86786859	6106
33.8	6091.082	0.25471	-1.84048782	6140
33.9	6103.914	0.66644	-1.62459813	6174
34	6114.4397	1.14463	-1.94078483	6208