

25th IAE Ice Core data (IND-5/B5)

Depth (cm)	Age (AD)	d18O	dD	SO4
0.05	2006	-29.113	-231.423	34.691
0.1	2005.8	-27.749	-223.367	240.609
0.15	2005.6	-30.063	-242.140	75.452
0.2	2005.4	-33.489	-264.665	12.360
0.25	2005.2	-33.187	-261.723	12.896
0.3	2005	-32.094	-251.049	18.407
0.35	2004.93	-30.837	-242.123	48.592
0.4	2004.86	-29.188	-229.612	
0.45	2004.79	-29.198	-227.902	51.818
0.5	2004.71	-30.018	-236.704	
0.55	2004.64	-27.599	-217.372	76.907
0.6	2004.57	-27.551	-216.696	67.845
0.65	2004.5	-27.712	-217.789	77.722
0.7	2004.43	-26.399	-206.436	141.287
0.75	2004.36	-25.278	-196.030	13.171
0.8	2004.29	-25.045	-194.398	
0.85	2004.21	-25.803	-200.921	32.720
0.9	2004.14	-26.556	-205.717	24.004
0.95	2004.07	-27.238	-209.096	29.491
1	2004	-27.467	-213.785	32.171
1.05	2003.92	-27.848	-220.195	81.203
1.1	2003.83	-27.663	-220.129	72.620
1.15	2003.75	-26.611	-209.151	52.749
1.2	2003.67	-26.205	-204.692	32.158
1.25	2003.58	-25.924	-201.503	29.547
1.3	2003.5	-25.922	-200.903	29.666
1.35	2003.42	-26.133	-200.115	28.445
1.4	2003.33	-26.668	-205.354	27.470
1.45	2003.25	-27.451	-213.264	25.163
1.5	2003.17	-30.885	-245.742	27.727
1.55	2003.08	-30.176	-239.400	24.454
1.6	2003	-28.124	-222.622	21.881
1.65	2002.93	-26.911	-215.092	104.446
1.7	2002.87	-30.200	-239.586	171.414
1.75	2002.8	-31.191	-244.052	63.433
1.8	2002.73	-30.760	-237.890	44.750
1.85	2002.67	-29.335	-228.116	54.702
1.9	2002.6	-29.108	-225.699	49.690
1.95	2002.53	-28.788	-226.360	12.268
2	2002.47	-28.472	-223.777	15.116
2.05	2002.4	-26.311	-207.808	18.856

2.1	2002.33	-26.032	-206.686	20.784
2.15	2002.27	-26.194	-207.381	12.849
2.2	2002.2	-26.418	-210.354	52.458
2.25	2002.13	-28.752	-228.978	
2.3	2002.07	-29.837	-235.519	31.425
2.35	2002	-30.414	-239.848	86.561
2.4	2001.94	-30.293	-237.912	20.898
2.45	2001.88	-30.417	-239.174	18.518
2.5	2001.81	-30.797	-241.238	28.348
2.55	2001.75	-31.372	-246.059	35.866
2.6	2001.69	-31.428	-247.547	32.293
2.65	2001.63	-31.765	-249.472	32.677
2.7	2001.56	-30.852	-243.382	27.712
2.75	2001.5	-27.796	-217.376	17.723
2.8	2001.44	-27.528	-215.510	23.955
2.85	2001.38	-28.208	-220.694	27.103
2.9	2001.31	-29.470	-231.258	31.574
2.95	2001.25	-29.615	-234.296	19.871
3	2001.19	-30.273	-238.443	50.121
3.05	2001.13	-30.371	-244.307	49.927
3.1	2001.06	-31.131	-245.388	51.055
3.15	2001	-32.460	-254.289	
3.2	2000.93	-34.058	-264.969	31.207
3.25	2000.87	-34.837	-272.743	38.057
3.3	2000.8	-34.649	-271.886	40.424
3.35	2000.73	-34.895	-274.871	34.852
3.4	2000.67	-34.966	-274.946	41.109
3.45	2000.6	-33.907	-266.564	27.056
3.5	2000.53	-31.677	-247.304	51.174
3.55	2000.47	-30.129	-232.855	40.653
3.6	2000.4	-29.576	-229.730	45.185
3.65	2000.33	-30.629	-237.510	49.709
3.7	2000.27	-31.210	-244.040	42.170
3.75	2000.2	-31.478	-246.615	28.585
3.8	2000.13	-31.933	-250.239	30.683
3.85	2000.07	-32.471	-256.240	54.680
3.9	2000	-31.647	-249.736	70.510
3.95	1999.95	-31.909	-250.788	93.353
4	1999.89	-33.370	-260.652	50.020
4.05	1999.84	-33.641	-264.322	59.931
4.1	1999.79	-33.386	-262.728	60.608
4.15	1999.74	-33.470	-264.955	23.657
4.2	1999.68	-34.048	-269.162	14.349

4.25	1999.63	-33.466	-263.728	36.768
4.3	1999.58	-32.542	-254.647	22.738
4.35	1999.53	-31.300	-246.089	8.169
4.4	1999.47	-31.076	-242.599	
4.45	1999.42	-29.998	-236.207	11.541
4.5	1999.37	-28.893	-226.716	29.694
4.55	1999.32	-27.347	-214.872	10.084
4.6	1999.26	-27.029	-213.422	31.304
4.65	1999.21	-26.073	-205.407	33.815
4.7	1999.16	-26.124	-204.995	49.596
4.75	1999.11	-26.553	-207.076	16.916
4.8	1999.05	-27.370	-213.963	24.981
4.85	1999	-30.194	-235.234	46.130
4.9	1998.91	-32.864	-260.605	14.566
4.95	1998.82	-33.344	-264.596	29.459
5	1998.73	-31.538	-248.720	33.032
5.05	1998.64	-28.920	-225.266	37.129
5.1	1998.55	-27.400	-211.889	24.621
5.15	1998.45	-27.307	-213.350	
5.2	1998.36	-27.906	-218.764	23.619
5.25	1998.27	-28.882	-228.268	38.049
5.3	1998.18	-29.033	-228.057	75.438
5.35	1998.09	-28.339	-221.713	77.199
5.4	1998	-28.635	-222.361	38.683
5.45	1997.94	-29.283	-228.278	26.306
5.5	1997.88	-29.595	-229.613	16.216
5.55	1997.81	-29.524	-228.676	15.208
5.6	1997.75	-29.244	-228.129	22.467
5.65	1997.69	-28.362	-222.505	42.174
5.7	1997.63	-26.563	-205.649	45.907
5.75	1997.56	-24.469	-187.382	53.013
5.8	1997.5	-20.498	-153.699	33.345
5.85	1997.44	-20.418	-152.530	57.836
5.9	1997.38	-21.541	-156.028	56.495
5.95	1997.31	-24.277	-178.483	45.214
6	1997.25	-25.927	-201.868	28.822
6.05	1997.19	-29.317	-230.330	32.381
6.1	1997.13	-32.076	-252.720	103.127
6.15	1997.06	-34.051		88.574
6.2	1997	-34.920	-275.630	105.143
6.25	1996.92	-34.564	-272.219	218.917
6.3	1996.85	-34.118	-267.824	87.214
6.35	1996.77	-34.263	-270.116	75.211

6.4	1996.69	-33.979	-268.940	70.251
6.45	1996.62	-32.822	-257.921	94.607
6.5	1996.54	-30.965	-241.485	45.828
6.55	1996.46	-29.519	-221.320	32.364
6.6	1996.38	-30.503	-230.110	165.880
6.65	1996.31	-29.410	-238.682	92.381
6.7	1996.23	-32.176	-253.259	
6.75	1996.15	-32.192	-253.440	187.790
6.8	1996.08	-32.046	-257.759	65.588
6.85	1996	-32.083	-254.878	69.475
6.9	1995.91	-32.727	-258.904	43.695
6.95	1995.82	-32.579	-259.323	42.549
7	1995.73	-31.535	-250.589	53.334
7.05	1995.64	-29.767	-237.456	91.660
7.1	1995.55	-28.482	-226.092	138.850
7.15	1995.45	-29.155	-232.903	139.136
7.2	1995.36	-31.016	-248.538	100.737
7.25	1995.27	-33.145	-266.351	64.385
7.3	1995.18	-34.607	-277.388	69.324
7.35	1995.09	-35.513	-284.945	93.388
7.4	1995	-35.489	-286.935	49.228
7.45	1994.93	-32.151	-258.385	39.660
7.5	1994.86	-29.656	-235.865	64.207
7.55	1994.79	-26.605	-207.696	137.512
7.6	1994.71	-24.569	-192.253	98.212
7.65	1994.64	-24.595	-195.001	71.043
7.7	1994.57	-25.442	-203.056	47.107
7.75	1994.5	-25.599	-205.537	163.429
7.8	1994.43	-26.995	-212.976	168.621
7.85	1994.36	-28.262	-223.732	182.185
7.9	1994.29	-29.359	-235.392	191.148
7.95	1994.21	-30.441	-243.564	40.644
8	1994.14	-29.799	-235.721	60.556
8.05	1994.07	-28.202	-221.298	101.170
8.1	1994	-27.582	-216.083	99.173
8.15	1993.91	-27.661	-217.718	140.437
8.2	1993.82	-28.071	-223.699	89.700
8.25	1993.73	-28.111	-223.361	44.512
8.3	1993.64	-27.898	-221.461	28.890
8.35	1993.55	-27.385	-215.770	155.949
8.4	1993.45	-26.972	-213.541	110.185
8.45	1993.36	-27.275	-215.418	120.432
8.5	1993.27	-27.830	-222.534	164.904

8.55	1993.18	-28.485	-227.531	120.817
8.6	1993.09	-28.907	-232.282	36.750
8.65	1993	-28.983	-232.477	101.589
8.7	1992.94	-28.800	-230.825	125.478
8.75	1992.88	-29.045	-232.406	44.518
8.8	1992.81	-29.087	-230.435	81.804
8.85	1992.75	-29.111	-229.762	60.545
8.9	1992.69	-29.485	-232.321	176.078
8.95	1992.63	-30.124	-238.523	66.031
9	1992.56	-31.298	-247.092	43.138
9.05	1992.5	-31.260	-248.730	48.803
9.1	1992.44	-29.778	-237.425	45.639
9.15	1992.38	-27.630	-220.345	54.784
9.2	1992.31	-26.415	-207.587	
9.25	1992.25	-25.139	-198.667	59.644
9.3	1992.19	-24.637	-194.729	187.304
9.35	1992.13	-24.763	-197.873	174.443
9.4	1992.06	-26.282	-209.714	138.272
9.45	1992	-27.866	-224.142	154.887
9.5	1991.92	-29.996	-242.777	116.503
9.55	1991.83	-32.755	-264.110	68.040
9.6	1991.75	-31.943	-257.506	82.992
9.65	1991.67	-32.919	-262.449	69.998
9.7	1991.58	-31.862	-252.787	101.943
9.75	1991.5	-30.062	-234.454	100.354
9.8	1991.42	-28.831	-223.896	50.774
9.85	1991.33	-28.168	-216.815	24.302
9.9	1991.25	-28.069	-215.519	32.371
9.95	1991.17	-28.371	-218.113	25.632
10	1991.08	-28.860	-225.105	60.000
10.05	1991	-29.463	-234.384	n.a.
10.1	1990.93	-29.916	-239.424	146.636
10.15	1990.86	-30.787	-245.497	47.824
10.2	1990.79	-31.092	-247.781	30.724
10.25	1990.71	-31.354	-252.123	31.072
10.3	1990.64	-30.884	-248.175	37.373
10.35	1990.57	-30.651	-245.238	111.528
10.4	1990.5	-28.482	-226.214	65.965
10.55	1990.29	-28.709	-229.815	85.597
10.6	1990.21	-30.439	-241.310	98.611
10.65	1990.14	-30.770	-245.096	153.591
10.7	1990.07	-31.654	-252.144	72.485
10.75	1990	-31.920	-254.921	93.485

10.8	1989.93	-32.116	-257.303	61.095
10.85	1989.86	-32.129	-257.388	59.094
10.9	1989.79	-31.572	-252.751	95.097
10.95	1989.71	-31.079	-249.202	217.695
11	1989.64	-30.914	-246.426	331.714
11.05	1989.57	-29.918	-238.429	
11.1	1989.5	-29.925	-239.778	200.468
11.15	1989.43	-30.705	-242.816	177.794
11.2	1989.36	-30.767	-244.145	174.840
11.25	1989.29	-30.452	-241.251	157.140
11.3	1989.21	-30.238	-238.005	127.006
11.35	1989.14	-30.973	-243.736	108.018
11.4	1989.07	-31.913	-254.939	98.295
11.45	1989	-33.782	-267.629	53.904
11.5	1988.92	-34.224	-272.100	50.851
11.55	1988.83	-33.814	-266.023	
11.6	1988.75	-32.962	-261.367	86.960
11.65	1988.67	-31.103	-245.000	66.184
11.7	1988.58	-29.534	-231.227	73.248
11.75	1988.5	-28.458	-222.004	
11.8	1988.42	-29.321	-221.085	144.423
11.85	1988.33	-28.554	-220.956	130.370
11.9	1988.25	-28.955	-225.857	145.292
11.95	1988.17	-29.705	-229.557	
12	1988.08	-30.080	-232.382	113.612
12.05	1988	-30.088	-235.368	
12.1	1987.93	-30.000	-236.105	65.272
12.15	1987.87	-30.261	-238.215	
12.2	1987.8	-30.439	-239.621	118.083
12.25	1987.73	-31.803	-247.279	
12.3	1987.67	-31.844	-253.520	71.958
12.35	1987.6	-32.162	-254.006	71.736
12.4	1987.53	-32.061	-252.446	47.764
12.45	1987.47	-30.251	-239.051	32.698
12.5	1987.4	-29.790	-234.202	72.343
12.55	1987.33	-28.603	-224.972	83.927
12.6	1987.27	-27.485	-219.379	
12.65	1987.2	-26.495	-210.587	104.812
12.7	1987.13	-25.506	-202.775	
12.75	1987.07	-25.212	-203.446	105.171
12.8	1987	-26.213	-211.105	
12.85	1986.95	-26.712	-215.352	119.053
12.9	1986.9	-26.899	-216.298	98.099

12.95	1986.85	-26.640	-212.281	72.918
13	1986.8	-26.137	-207.141	62.144
13.05	1986.75	-26.364	-209.856	66.953
13.1	1986.7	-26.564	-211.193	85.196
13.15	1986.65	-27.978	-221.942	126.878
13.2	1986.6	-29.779	-237.579	89.553
13.25	1986.55	-31.733	-253.072	53.991
13.3	1986.5	-33.459	-265.964	
13.35	1986.45	-33.709	-267.964	56.676
13.4	1986.4	-33.776	-270.039	52.473
13.45	1986.35	-33.602	-260.017	36.627
13.5	1986.3	-32.669	-268.041	58.423
13.55	1986.25	-31.317	-250.619	168.901
13.6	1986.2	-30.498	-243.935	365.840
13.65	1986.15	-30.001	-240.024	110.355
13.7	1986.1	-29.929	-238.993	
13.75	1986.05	-30.682	-240.839	51.723
13.8	1986	-31.316	-246.007	54.798
13.85	1985.91	-31.808	-250.299	63.563
13.9	1985.82	-31.555	-248.503	65.039
13.95	1985.73	-31.270	-243.879	60.298
14	1985.64	-29.982	-236.188	65.833
14.05	1985.55	-28.546	-225.765	111.039
14.1	1985.45	-27.813	-221.601	156.893
14.15	1985.36	-27.998	-222.945	110.968
14.2	1985.27	-28.926	-232.028	52.477
14.25	1985.18	-30.403	-233.409	41.515
14.3	1985.09	-29.229	-238.493	116.194
14.35	1985	-29.892	-246.695	65.755
14.4	1984.86	-30.999	-254.132	24.597
14.45	1984.71	-31.901	-242.923	32.461
14.5	1984.57	-31.928	-256.247	34.471
14.55	1984.43	-29.422	-232.119	90.996
14.6	1984.29	-29.529	-235.044	75.915
14.65	1984.14	-30.230	-242.883	115.048
14.7	1984	-30.678	-242.237	77.859
14.75	1983.9	-30.574	-238.719	41.063
14.8	1983.8	-30.415	-225.764	37.646
14.85	1983.7	-28.758	-239.351	71.989
14.9	1983.6	-28.268	-219.632	67.508
14.95	1983.5	-28.297	-221.052	88.680
15	1983.4	-29.208	-222.787	20.829
15.05	1983.3	-30.215	-243.897	85.108

15.1	1983.2	-31.605	-256.866	76.781
15.15	1983.1	-32.421	-262.596	75.799
15.2	1983	-32.351	-260.863	64.137
15.25	1982.93	-32.089	-257.069	106.433
15.3	1982.87	-31.880	-255.556	32.789
15.35	1982.8	-31.960	-256.545	67.223
15.4	1982.73	-32.612	-265.026	54.388
15.45	1982.67	-33.011	-267.299	54.786
15.5	1982.6	-32.938	-266.677	59.860
15.55	1982.53	-32.432	-263.507	53.334
15.6	1982.47	-31.477	-254.146	
15.65	1982.4	-29.680	-236.919	70.478
15.7	1982.33	-30.056	-242.608	79.752
15.75	1982.27	-29.629	-236.611	68.025
15.8	1982.2	-29.776	-235.585	89.537
15.85	1982.13	-31.029	-246.731	87.489
15.9	1982.07	-31.277	-249.229	96.544
15.95	1982	-31.307	-250.932	139.962
16	1981.9	-31.156	-235.394	57.776
16.05	1981.8	-29.663	-225.813	81.763
16.1	1981.7	-29.599	-237.029	48.425
16.15	1981.6	-29.537	-230.604	42.842
16.2	1981.5	-29.096	-223.775	25.489
16.25	1981.4	-28.849		18.641
16.3	1981.3	-28.446	-227.652	29.962
16.35	1981.2	-28.290	-230.464	59.002
16.4	1981.1	-29.174	-234.706	51.825
16.45	1981	-29.835	-211.898	143.678
16.5	1980.92	-30.526	-229.302	141.650
16.55	1980.85	-30.303	-238.090	119.711
16.6	1980.77	-30.718	-244.876	134.793
16.65	1980.69	-30.782	-246.976	92.387
16.7	1980.62	-29.818	-240.288	47.070
16.75	1980.54	-28.451	-228.744	75.631
16.8	1980.46	-27.484	-220.972	60.654
16.85	1980.38	-27.487	-220.915	167.860
16.9	1980.31	-28.107	-227.410	156.345
16.95	1980.23	-29.029	-234.417	138.823
17	1980.15	-29.571	-240.853	156.976
17.05	1980.08	-30.180	-245.536	275.015
17.1	1980	-30.586	-245.896	105.834
17.15	1979.89	-30.497	-244.746	55.572
17.2	1979.78	-30.487	-243.535	65.621

17.25	1979.67	-30.021	-238.382	97.548
17.3	1979.56	-29.370	-232.220	102.476
17.35	1979.44	-29.067	-230.810	52.787
17.4	1979.33	-29.036	-232.087	49.190
17.45	1979.22	-29.468	-236.138	142.565
17.5	1979.11	-29.810	-237.986	90.833
17.55	1979	-30.989	-241.430	64.577
17.6	1978.94	-30.126	-248.098	41.920
17.65	1978.89	-31.510	-251.840	48.825
17.7	1978.83	-31.695	-253.640	45.995
17.75	1978.78	-31.465	-251.312	93.793
17.8	1978.72	-31.504	-251.453	94.279
17.85	1978.67	-31.895	-253.375	100.360
17.9	1978.61	-32.157	-257.220	70.898
17.95	1978.56	-32.523	-259.634	40.433
18	1978.5	-33.206	-264.540	44.282
18.05	1978.44	-33.447	-268.165	45.525
18.1	1978.39	-33.198	-264.891	41.341
18.15	1978.33	-32.182	-257.508	57.033
18.2	1978.28	-31.405	-250.979	139.355
18.25	1978.22	-31.042	-246.800	203.082
18.3	1978.17	-30.899	-246.165	86.084
18.35	1978.11	-30.958	-246.690	55.256
18.4	1978.06	-32.325	-258.607	64.561
18.45	1978	-32.595	-261.152	84.264
18.5	1977.91	-32.923	-263.292	80.166
18.55	1977.82	-32.097	-256.229	61.705
18.6	1977.73	-31.162	-247.525	88.369
18.65	1977.64	-30.377	-240.750	47.095
18.7	1977.55	-30.430	-239.327	94.604
18.75	1977.45	-30.894	-242.887	41.431
18.8	1977.36	-31.634	-247.974	69.714
18.85	1977.27	-32.429	-257.728	97.924
18.9	1977.18	-32.649	-257.713	41.524
18.95	1977.09	-32.789	-258.545	116.771
19	1977	-32.474	-256.343	74.562
19.05	1976.89	-31.895	-249.345	67.805
19.1	1976.78	-31.177	-248.107	32.243
19.15	1976.67	-29.817	-236.382	51.609
19.2	1976.56	-28.798	-228.867	169.789
19.25	1976.44	-28.205	-222.775	243.994
19.3	1976.33	-28.332	-223.774	193.784
19.35	1976.22	-29.357	-230.092	282.996

19.4	1976.11	-30.795	-242.629	188.629
19.45	1976	-31.812		96.553
19.5	1975.9	-32.716	-261.830	202.188
19.55	1975.8	-31.370	-250.494	380.491
19.6	1975.7	-30.106	-238.215	203.540
19.65	1975.6	-29.163	-231.582	280.288
19.7	1975.5	-29.990	-238.512	146.214
19.75	1975.4	-30.632	-243.334	79.937
19.8	1975.3	-32.265	-257.760	102.632
19.85	1975.2	-33.885	-271.755	120.032
19.9	1975.1	-34.728	-275.707	144.332
19.95	1975	-31.276	-248.056	71.536
20	1974.93	-29.549	-233.948	95.196
20.05	1974.87	-27.803	-218.695	172.104
20.1	1974.8	-26.855	-209.542	81.458
20.15	1974.73	-26.385	-206.787	52.151
20.2	1974.67	-26.326	-206.477	193.128
20.25	1974.6	-27.753	-220.230	60.429
20.3	1974.53	-28.254	-224.157	94.367
20.35	1974.47	-29.686	-236.464	145.432
20.4	1974.4	-30.908	-246.477	28.750
20.45	1974.33	-31.945	-252.496	38.426
20.5	1974.27	-31.954	-253.230	64.702
20.55	1974.2	-30.769	-243.808	111.244
20.6	1974.13	-31.137	-245.023	104.281
20.65	1974.07	-32.035	-253.596	73.267
20.7	1974	-33.284	-263.445	85.399
20.75	1973.94	-33.778	-268.936	65.106
20.8	1973.88	-34.195	-271.543	30.305
20.85	1973.82	-33.816	-265.140	70.730
20.9	1973.76	-32.768	-257.924	202.310
20.95	1973.71	-32.472	-255.229	140.095
21	1973.65	-32.156	-253.232	66.570
21.05	1973.59	-31.749	-250.233	46.815
21.1	1973.53	-31.257	-245.682	86.197
21.15	1973.47	-30.710	-241.817	41.311
21.2	1973.41	-30.667	-241.063	96.874
21.25	1973.35	-31.074	-245.503	157.797
21.3	1973.29	-31.693	-252.321	76.425
21.35	1973.24	-33.030	-261.807	46.729
21.4	1973.18	-33.191	-265.859	37.899
21.45	1973.12	-33.455	-266.140	81.890
21.5	1973.06	-33.182	-262.251	

21.55	1973	-31.741	-252.580	40.100
21.6	1972.94	-31.545	-248.278	34.076
21.65	1972.87	-30.204	-237.168	46.625
21.7	1972.81	-28.671	-225.061	23.492
21.75	1972.75	-27.506	-215.964	39.110
21.8	1972.69	-27.018	-214.026	22.783
21.85	1972.62	-27.293	-216.064	31.772
21.9	1972.56	-27.213	-217.359	57.526
21.95	1972.5	-26.835	-216.771	32.278
22	1972.44	-26.796	-213.062	78.343
22.05	1972.37	-25.255	-197.137	87.900
22.1	1972.31	-25.844		84.557
22.15	1972.25	-27.274	-217.422	80.675
22.2	1972.19	-29.601	-234.426	98.749
22.25	1972.12	-31.456	-249.167	110.550
22.3	1972.06	-31.835	-252.539	58.067
22.35	1972	-32.782	-259.779	66.851
22.4	1971.92	-32.375	-256.495	29.151
22.45	1971.83	-30.063	-238.169	63.328
22.5	1971.75	-28.414	-223.192	76.965
22.55	1971.67	-26.911	-209.780	44.920
22.6	1971.58	-26.400	-205.406	78.157
22.65	1971.5	-26.478	-206.807	64.744
22.7	1971.42	-27.210	-212.801	128.089
22.75	1971.33	-28.198	-221.809	141.080
22.8	1971.25	-29.187	-230.274	134.156
22.85	1971.17	-30.263	-238.675	98.411
22.9	1971.08	-31.023	-242.702	95.962
22.95	1971	-31.732	-248.798	126.182
23	1970.92	-32.706	-256.410	45.914
23.05	1970.83	-33.235	-262.714	27.135
23.1	1970.75	-33.556	-266.454	45.186
23.15	1970.67	-33.419	-265.697	99.817
23.2	1970.58	-33.150	-263.410	78.095
23.25	1970.5	-32.116	-253.928	62.947
23.3	1970.42	-30.357	-239.685	106.449
23.35	1970.33	-29.294	-231.500	69.121
23.4	1970.25	-28.982	-225.313	82.738
23.45	1970.17	-29.217	-228.546	49.408
23.5	1970.08	-29.922	-234.851	107.161
23.55	1970	-30.898	-244.361	80.957
23.6	1969.91	-31.207	-247.628	34.559
23.65	1969.82	-30.712	-244.194	39.081

23.7	1969.73	-29.936	-235.391	
23.75	1969.64	-28.949	-229.280	7.757
23.8	1969.55	-28.624	-223.258	94.881
23.85	1969.45	-28.616	-224.727	63.631
23.9	1969.36	-29.675	-232.821	
23.95	1969.27	-30.786	-245.813	96.972
24	1969.18	-32.326	-258.365	59.243
24.05	1969.09	-32.593	-260.611	69.184
24.1	1969	-32.496	-258.763	59.029
24.15	1968.87	-31.563	-249.663	32.665
24.2	1968.75	-30.183	-238.552	33.545
24.25	1968.62	-29.149	-229.486	33.814
24.3	1968.5	-28.224	-221.546	103.217
24.35	1968.37	-28.026	-219.500	152.623
24.4	1968.25	-28.382	-223.835	90.275
24.45	1968.12	-29.253	-229.922	171.358
24.5	1968	-29.334	-229.038	24.403
24.55	1967.92	-29.328	-228.950	97.871
24.6	1967.85	-29.092	-228.359	114.510
24.65	1967.77	-29.116	-228.393	70.747
24.7	1967.69	-28.477	-222.829	35.766
24.75	1967.62	-27.242	-211.860	62.435
24.8	1967.54	-27.373	-210.147	55.126
24.85	1967.46	-27.502	-213.058	114.493
24.9	1967.38	-28.693	-224.602	166.188
24.95	1967.31	-30.063	-235.961	80.937
25	1967.23	-31.815	-252.347	33.960
25.05	1967.15	-32.266	-255.690	69.040
25.1	1967.08	-32.084	-253.291	98.272
25.15	1967	-30.674	-243.832	118.853
25.2	1966.92	-30.148	-238.543	101.346
25.25	1966.85	-29.808	-237.199	74.082
25.3	1966.77	-29.870	-236.471	39.024
25.35	1966.69	-29.991	-237.456	21.177
25.4	1966.62	-30.132	-239.481	29.341
25.45	1966.54	-30.200	-239.847	52.780
25.5	1966.46	-28.486	-236.969	78.088
25.55	1966.38	-29.318	-232.803	64.636
25.6	1966.31	-29.724	-236.086	118.942
25.65	1966.23	-31.316	-248.530	186.656
25.7	1966.15	-33.769	-271.735	79.618
25.75	1966.08	-36.128	-289.475	149.376
25.8	1966	-36.743	-293.017	82.986

25.85	1965.89	-36.025	-285.125	55.695
25.9	1965.78	-34.678	-272.522	59.318
25.95	1965.67	-33.739	-265.085	83.858
26	1965.56	-33.227	-259.573	64.528
26.05	1965.44	-32.513	-255.829	187.846
26.1	1965.33	-31.718	-248.947	218.660
26.15	1965.22	-31.540	-247.103	38.470
26.2	1965.11	-32.203	-253.974	65.196
26.25	1965	-32.981	-260.607	73.501
26.3	1964.89	-33.076	-263.606	62.068
26.35	1964.78	-32.104	-253.821	104.472
26.4	1964.67	-30.786	-243.244	129.159
26.45	1964.56	-29.422	-231.340	123.336
26.5	1964.44	-28.798	-225.304	179.897
26.55	1964.33	-29.124	-227.718	35.095
26.6	1964.22	-29.995	-236.675	91.544
26.65	1964.11	-30.945	-246.426	80.843
26.7	1964	-31.435	-250.872	37.788
26.75	1963.92	-31.255	-247.217	103.997
26.8	1963.83	-29.957	-237.127	83.580
26.85	1963.75	-29.135	-229.033	122.393
26.9	1963.67	-28.350	-223.417	130.136
26.95	1963.58	-27.761	-219.154	98.677
27	1963.5	-27.569	-218.735	117.547
27.05	1963.42	-27.623	-220.275	80.463
27.1	1963.33	-28.120	-212.858	60.157
27.15	1963.25	-28.235	-212.565	143.488
27.2	1963.17	-28.658	-216.850	123.442
27.25	1963.08	-29.775	-214.728	129.153
27.3	1963	-30.634	-243.208	96.378
27.35	1962.93	-31.106	-247.655	139.403
27.4	1962.86	-31.545	-252.566	144.539
27.45	1962.79	-30.781	-246.363	127.157
27.5	1962.71	-29.689	-236.499	106.292
27.55	1962.64	-27.574	-219.407	111.164
27.6	1962.57	-26.797	-213.036	92.537
27.65	1962.5	-26.703	-209.250	129.625
27.7	1962.43	-27.749	-219.109	89.748
27.75	1962.36	-28.162	-221.817	68.001
27.8	1962.29	-29.332	-227.192	186.709
27.85	1962.21	-30.581	-241.920	109.864
27.9	1962.14	-30.301	-241.820	124.608
27.95	1962.07	-29.657	-235.186	131.556

28	1962	-29.330	-231.808	90.632
28.05	1961.93	-29.836	-236.297	173.194
28.1	1961.87	-30.934	-245.425	107.523
28.15	1961.8	-31.689	-252.665	86.294
28.2	1961.73	-32.389	-257.792	115.946
28.25	1961.67	-32.302	-256.571	123.747
28.3	1961.6	-31.643	-250.772	193.035
28.35	1961.53	-30.025	-236.164	120.706
28.4	1961.47	-29.746	-232.915	121.555
28.45	1961.4	-30.261	-238.152	122.103
28.5	1961.33	-30.838	-244.258	132.478
28.55	1961.27	-32.989	-262.850	130.646
28.6	1961.2	-34.400	-274.741	109.726
28.65	1961.13	-34.812	-277.067	96.241
28.7	1961.07	-34.694	-277.304	132.865
28.75	1961	-33.857	-267.219	90.647
28.8	1960.92	-32.663	-255.851	80.922
28.85	1960.85	-30.838	-241.565	99.365
28.9	1960.77	-29.868	-235.201	116.731
28.95	1960.69	-29.297	-231.601	85.500
29	1960.62	-28.660	-226.117	108.835
29.05	1960.54	-27.929	-224.373	129.787
29.1	1960.46	-28.186	-224.146	187.109
29.15	1960.38	-29.088	-230.182	159.744
29.2	1960.31	-30.890	-245.361	128.098
29.25	1960.23	-32.653	-257.934	92.239
29.3	1960.15	-34.105	-273.499	99.126
29.35	1960.08	-34.445	-275.313	167.874
29.4	1960	-33.691	-268.626	179.255
29.45	1959.91	-32.757	-259.742	117.636
29.5	1959.82	-31.992	-253.907	206.626
29.55	1959.73	-32.133	-252.018	135.114
29.6	1959.64	-32.053	-252.471	146.550
29.65	1959.55	-32.092	-252.843	104.316
29.7	1959.45	-31.762	-247.887	122.979
29.75	1959.36	-32.073	-250.673	38.923
29.8	1959.27	-32.367	-252.389	144.857
29.85	1959.18	-33.243	-259.571	104.896
29.9	1959.09	-34.046	-268.420	109.971
29.95	1959	-33.763	-263.665	108.033
30	1958.91	-33.340	-260.587	
30.05	1958.82	-31.274	-243.282	161.391
30.1	1958.73	-29.960	-234.414	142.735

30.15	1958.64	-29.493	-230.855	119.763
30.2	1958.55	-29.332	-228.751	156.172
30.25	1958.45	-29.539	-230.766	139.282
30.3	1958.36	-29.915	-233.310	45.693
30.35	1958.27	-30.329	-238.132	57.255
30.4	1958.18	-30.426	-238.551	107.610
30.45	1958.09	-30.239	-236.998	141.991
30.5	1958	-30.478	-237.567	96.190
30.55	1957.9	-30.862	-241.742	116.108
30.6	1957.8	-31.358	-247.869	119.808
30.65	1957.7	-31.936	-252.347	54.258
30.7	1957.6	-31.771	-250.306	165.557
30.75	1957.5	-31.255	-246.070	93.889
30.8	1957.4	-30.609	-239.456	81.630
30.85	1957.3	-30.648	-239.844	127.638
30.9	1957.2	-31.486	-247.252	126.707
30.95	1957.1	-32.071	-255.034	110.331
31	1957	-33.032	-261.631	122.505
31.05	1956.89	-32.881	-260.178	70.299
31.1	1956.78	-32.369	-255.569	229.356
31.15	1956.67	-30.442	-236.512	141.912
31.2	1956.56	-29.811	-231.097	115.708
31.25	1956.44	-27.407	-210.280	57.887
31.3	1956.33	-26.575	-203.481	81.096
31.35	1956.22	-26.194	-204.671	87.782
31.4	1956.11	-27.852		153.583
31.45	1956	-28.003	-220.172	154.585
31.5	1955.91	-29.002	-228.310	146.965
31.55	1955.82	-28.917	-228.440	109.315
31.6	1955.73	-28.899	-228.226	139.880
31.65	1955.64	-28.005	-223.207	109.140
31.7	1955.55	-27.099	-216.520	113.109
31.75	1955.45	-27.200	-216.381	104.493
31.8	1955.36	-28.100	-222.927	191.199
31.85	1955.27	-29.001	-233.048	153.546
31.9	1955.18	-30.011	-241.672	268.411
31.95	1955.09	-31.035	-249.140	95.213
32	1955	-31.400	-251.098	124.371
32.05	1954.91	-31.532	-252.329	164.079
32.1	1954.82	-31.611	-251.854	88.625
32.15	1954.73	-31.632	-252.484	106.813
32.2	1954.64	-32.511	-258.685	97.024
32.25	1954.55	-32.501	-259.420	90.815

32.3	1954.45	-32.005	-254.884	92.475
32.35	1954.36	-30.600	-247.115	83.157
32.4	1954.27	-29.881	-234.379	111.909
32.45	1954.18	-29.749	-231.030	106.591
32.5	1954.09	-29.779	-230.819	97.864
32.55	1954	-30.829	-239.547	174.927
32.6	1953.91	-31.116	-245.573	87.587
32.65	1953.82	-30.964	-243.569	88.023
32.7	1953.73	-30.445	-240.206	40.773
32.75	1953.64	-30.412	-240.205	107.889
32.8	1953.55	-30.590	-241.153	60.138
32.85	1953.45	-31.175	-247.279	26.541
32.9	1953.36	-31.244	-245.910	49.120
32.95	1953.27	-31.304	-246.696	63.248
33	1953.18	-31.418	-248.123	64.050
33.05	1953.09	-31.252	-246.470	205.399
33.1	1953	-31.722	-251.562	98.217
33.15	1952.92	-31.738	-250.487	109.824
33.2	1952.83	-31.585	-247.772	106.794
33.25	1952.75	-31.643	-248.083	75.451
33.3	1952.67	-31.449	-246.586	84.179
33.35	1952.58	-31.062	-243.672	39.009
33.4	1952.5	-30.225	-238.636	
33.45	1952.42	-29.883	-234.967	
33.5	1952.33	-29.570	-234.950	
33.55	1952.25	-30.004	-240.641	
33.6	1952.17	-30.551	-244.266	88.463
33.65	1952.08	-30.532	-245.503	33.870
33.7	1952	-30.063	-236.985	63.331
33.75	1951.92	-29.681	-233.613	38.440
33.8	1951.85	-29.378	-230.309	76.738
33.85	1951.77	-28.600	-225.746	119.072
33.9	1951.69	-28.068	-223.939	199.184
33.95	1951.62	-27.879	-221.684	134.232
34	1951.54	-28.548	-224.442	72.055
34.05	1951.46	-29.542	-231.384	108.880
34.1	1951.38	-30.789	-240.392	96.327
34.15	1951.31	-32.384	-254.374	168.621
34.2	1951.23	-34.211	-269.031	67.352
34.25	1951.15	-35.456	-278.918	60.283
34.3	1951.08	-35.998	-282.937	70.136
34.35	1951	-36.090	-282.560	58.051
34.4	1950.93	-35.873	-280.759	59.116

34.45	1950.87	-35.497	-278.277	65.318
34.5	1950.8	-35.153	-275.942	62.546
34.55	1950.73	-34.724	-271.392	64.022
34.6	1950.67	-33.684	-266.472	50.737
34.65	1950.6	-32.658	-259.064	49.738
34.7	1950.53	-31.275	-249.176	175.590
34.75	1950.47	-29.495	-234.339	359.474
34.8	1950.4	-29.166	-229.953	97.298
34.85	1950.33	-29.725	-234.935	100.976
34.9	1950.27	-30.903	-246.137	111.549
34.95	1950.2	-32.587	-256.714	117.852
35	1950.13	-33.867	-267.021	69.554
35.05	1950.07	-34.556	-277.007	72.288
35.1	1950	-35.289	-279.212	119.713
35.15	1949.93	-35.576	-281.631	53.209
35.2	1949.87	-34.942	-276.994	58.219
35.25	1949.8	-33.987	-267.858	33.734
35.3	1949.73	-32.740	-255.923	55.163
35.35	1949.67	-31.369	-245.061	56.400
35.4	1949.6	-30.781	-239.508	42.827
35.45	1949.53	-30.599	-238.441	74.226
35.5	1949.47	-31.130	-243.450	72.866
35.55	1949.4	-32.227	-253.680	85.578
35.6	1949.33	-33.155	-262.657	115.969
35.65	1949.27	-33.750	-268.554	82.764
35.7	1949.2	-33.512	-266.594	131.179
35.75	1949.13	-31.308	-248.795	
35.8	1949.07	-29.744	-235.401	108.781
35.85	1949	-29.292	-231.225	78.007
35.9	1948.9	-29.007	-229.676	128.473
35.95	1948.8	-29.151	-227.856	
36	1948.7	-29.418	-233.421	38.263
36.05	1948.6	-29.315	-233.906	50.557
36.1	1948.5	-28.775	-227.984	61.400
36.15	1948.4	-28.635	-226.920	161.034
36.2	1948.3	-29.473	-233.897	82.793
36.25	1948.2	-29.972	-237.748	36.531
36.3	1948.1	-31.361	-249.749	80.059
36.35	1948	-32.545	-259.952	34.852
36.4	1947.9	-32.532	-259.009	43.543
36.45	1947.8	-32.234	-253.886	
36.5	1947.7	-31.397	-246.570	81.016
36.55	1947.6	-30.685	-241.228	

36.6	1947.5	-30.574	-239.716	109.088
36.65	1947.4	-30.907	-242.929	121.742
36.7	1947.3	-31.551	-247.817	59.643
36.75	1947.2	-31.675	-251.763	51.025
36.8	1947.1	-31.948	-251.849	47.408
36.85	1947	-31.823	-250.358	41.911
36.9	1946.94	-31.792	-250.433	50.267
36.95	1946.88	-31.977	-252.756	32.329
37	1946.81	-32.445	-256.707	84.093
37.05	1946.75	-32.983	-262.262	43.391
37.1	1946.69	-33.201	-264.246	61.942
37.15	1946.63	-32.617	-260.249	28.246
37.2	1946.56	-31.381	-250.964	30.251
37.25	1946.5	-29.239	-233.099	41.030
37.3	1946.44	-28.801	-230.221	59.258
37.35	1946.38	-28.116	-223.048	155.550
37.4	1946.31	-30.030	-236.012	151.968
37.45	1946.25	-30.310	-239.152	62.594
37.5	1946.19	-32.008	-254.075	43.418
37.55	1946.13	-34.788	-274.589	68.710
37.6	1946.06	-35.151	-277.423	28.079
37.65	1946	-35.344	-276.964	
37.7	1945.92	-33.872	-265.236	32.077
37.75	1945.85	-33.627	-261.759	36.502
37.8	1945.77	-32.346	-251.241	26.778
37.85	1945.69	-30.127	-234.256	33.470
37.9	1945.62	-29.321	-230.487	53.105
37.95	1945.54	-27.702	-214.970	74.460
38	1945.46	-27.934	-214.463	28.971
38.05	1945.38	-28.280	-231.696	32.786
38.1	1945.31	-29.150	-244.810	74.928
38.15	1945.23	-29.769	-220.016	43.626
38.2	1945.15	-31.258	-225.422	156.785
38.25	1945.08	-32.219	-252.647	382.083
38.3	1945	-32.399	-254.702	129.444
38.35	1944.92	-32.785	-258.127	346.513
38.4	1944.85	-31.631	-248.667	223.562
38.45	1944.77	-30.396	-238.866	314.645
38.5	1944.69	-29.037	-229.843	282.635
38.55	1944.62	-28.452	-225.778	408.331
38.6	1944.54	-27.951	-223.016	248.993
38.65	1944.46	-28.290	-223.558	498.879
38.7	1944.38	-28.925	-228.076	62.776

38.75	1944.31	-29.562	-231.944	45.596
38.8	1944.23	-30.076	-237.920	29.303
38.85	1944.15	-30.376	-240.014	119.520
38.9	1944.08	-30.356	-240.056	409.053
38.95	1944	-30.525	-238.275	215.495
39	1943.93	-30.670	-239.061	77.112
39.05	1943.87	-31.987	-256.675	60.403
39.1	1943.8	-32.331	-259.970	66.161
39.15	1943.73	-34.058	-274.742	85.634
39.2	1943.67	-34.650	-278.432	90.878
39.25	1943.6	-34.278	-277.112	51.717
39.3	1943.53	-32.947	-263.329	75.473
39.35	1943.47	-32.516	-258.956	140.566
39.4	1943.4	-31.212	-247.598	95.491
39.45	1943.33	-30.047	-239.404	27.779
39.5	1943.27	-29.531	-235.152	34.532
39.55	1943.2	-30.118	-241.230	44.572
39.6	1943.13	-31.036	-247.809	40.242
39.65	1943.07	-32.204	-258.384	47.843
39.7	1943	-33.156	-266.496	54.529
39.75	1942.92	-32.804	-263.692	79.058
39.8	1942.85	-32.691	-262.400	78.634
39.85	1942.77	-31.116	-249.641	96.449
39.9	1942.69	-30.924	-245.362	79.019
39.95	1942.62	-30.530	-244.988	73.067
40	1942.54	-30.676	-246.236	153.653
40.05	1942.46	-30.752	-246.700	182.758
40.1	1942.38	-30.345	-242.533	122.672
40.15	1942.31	-30.754	-246.733	123.042
40.2	1942.23	-31.513	-253.340	47.243
40.25	1942.15	-31.365	-253.650	22.583
40.3	1942.08	-31.000	-249.882	23.326
40.35	1942	-30.469	-244.399	112.815
40.4	1941.89	-29.435	-234.768	96.221
40.45	1941.78	-28.885	-229.831	80.813
40.5	1941.67	-28.090	-222.662	102.878
40.55	1941.56	-27.975	-223.830	88.563
40.6	1941.44	-28.554	-230.278	130.307
40.65	1941.33	-30.098	-243.499	279.717
40.7	1941.22	-31.186	-253.427	132.957
40.75	1941.11	-31.544	-256.587	74.100
40.8	1941	-33.068	-266.931	77.609
40.85	1940.91	-32.988	-264.647	61.868

40.9	1940.82	-32.192	-257.664	27.599
40.95	1940.73	-32.205	-256.951	36.899
41	1940.64	-31.144	-249.127	44.010
41.05	1940.55	-30.267	-239.550	49.119
41.1	1940.45	-30.031	-238.923	67.093
41.15	1940.36	-30.960	-247.250	191.851
41.2	1940.27	-32.174	-257.807	42.460
41.25	1940.18	-32.539	-260.729	59.415
41.3	1940.09	-32.387	-259.800	47.007
41.35	1940	-31.680	-252.883	38.820
41.4	1939.92	-31.349	-249.223	49.781
41.45	1939.83	-30.158	-240.475	67.858
41.5	1939.75	-29.834	-237.571	84.446
41.55	1939.67	-29.604	-235.087	160.761
41.6	1939.58	-30.113	-241.351	120.092
41.65	1939.5	-31.815	-253.553	143.438
41.7	1939.42	-32.685	-262.952	82.149
41.75	1939.33	-33.188	-265.494	81.490
41.8	1939.25	-32.553	-258.916	57.436
41.85	1939.17	-32.367	-255.807	23.508
41.9	1939.08	-32.458	-256.783	31.556
41.95	1939	-33.260	-262.778	107.153
42	1938.94	-34.068	-270.100	46.033
42.05	1938.89	-34.673	-275.361	54.687
42.1	1938.83	-35.264	-280.880	68.421
42.15	1938.78	-34.409	-273.849	60.171
42.2	1938.72	-33.039	-262.984	45.045
42.25	1938.67	-31.757	-251.019	55.687
42.3	1938.61	-30.529	-241.746	72.271
42.35	1938.56	-30.165	-239.623	113.924
42.4	1938.5	-30.618	-243.051	101.566
42.45	1938.44	-30.577	-243.318	73.319
42.5	1938.39	-30.916	-247.176	43.255
42.55	1938.33	-31.034	-246.685	40.287
42.6	1938.28	-30.957	-246.404	94.013
42.65	1938.22	-32.380	-256.786	99.574
42.7	1938.17	-33.794	-268.575	36.485
42.75	1938.11	-35.083	-278.908	31.430
42.8	1938.06	-35.604	-282.921	53.926
42.85	1938	-35.479	-283.642	46.130
42.9	1937.92	-33.906	-269.710	74.510
42.95	1937.83	-32.394	-256.207	34.562
43	1937.75	-31.155	-245.104	87.402

43.05	1937.67	-30.927	-246.338	159.780
43.1	1937.58	-31.118	-248.339	49.899
43.15	1937.5	-31.864	-256.149	59.599
43.2	1937.42	-31.179	-251.913	44.216
43.25	1937.33	-30.158	-241.661	48.557
43.3	1937.25	-28.663	-228.771	63.750
43.35	1937.17	-26.682	-212.179	62.017
43.4	1937.08	-26.057	-207.343	68.551
43.45	1937	-26.565	-211.209	78.397
43.5	1936.94	-27.509	-220.335	
43.55	1936.89	-29.057	-232.581	86.099
43.6	1936.83	-30.421	-244.212	77.361
43.65	1936.78	-32.004	-259.034	82.088
43.7	1936.72	-32.362	-260.081	32.308
43.75	1936.67	-32.148		33.801
43.8	1936.61	-30.417	-240.193	95.841
43.85	1936.56	-29.551	-233.000	134.665
43.9	1936.5	-29.963	-235.430	126.790
43.95	1936.44	-30.896	-244.141	79.103
44	1936.39	-31.835	-251.404	127.321
44.05	1936.33	-32.718	-257.589	62.272
44.1	1936.28	-33.169	-260.537	87.565
44.15	1936.22	-33.351	-261.700	66.243
44.2	1936.17	-33.370	-261.633	39.476
44.25	1936.11	-33.271	-261.394	38.263
44.3	1936.06	-33.417	-262.937	59.334
44.35	1936	-33.426	-263.441	72.072
44.4	1935.91	-33.255	-261.158	57.921
44.45	1935.82	-32.937	-259.975	62.595
44.5	1935.73	-32.745	-258.398	85.199
44.55	1935.64	-32.145	-254.356	47.562
44.6	1935.55	-30.958	-242.021	18.748
44.65	1935.45	-30.184	-237.055	37.774
44.7	1935.36	-29.496	-232.087	66.550
44.75	1935.27	-28.529		70.147
44.8	1935.18	-28.512		65.029
44.85	1935.09	-29.824	-236.728	132.847
44.9	1935	-32.522	-255.631	54.708
44.95	1934.92	-32.697	-255.899	24.579
45	1934.83	-32.762	-257.848	22.394
45.05	1934.75	-29.461	-252.273	35.578
45.1	1934.67	-32.122	-250.851	140.345
45.15	1934.58	-32.051	-249.841	116.346

45.2	1934.5	-32.230	-250.907	57.219
45.25	1934.42	-33.028	-258.550	48.117
45.3	1934.33	-33.241	-260.094	103.107
45.35	1934.25	-32.874	-254.933	94.059
45.4	1934.17	-31.850	-246.229	133.465
45.45	1934.08	-31.798	-246.256	92.714
45.5	1934	-31.788	-247.664	58.500
45.55	1933.91	-31.858	-248.433	98.730
45.6	1933.82	-31.967	-248.297	28.688
45.65	1933.73	-31.046	-240.531	64.813
45.7	1933.64	-30.268	-232.550	
45.75	1933.55	-30.024	-230.715	51.856
45.8	1933.45	-31.531	-243.770	80.419
45.85	1933.36	-33.031	-257.424	91.036
45.9	1933.27	-35.219	-275.274	76.461
45.95	1933.18	-35.186	-274.440	36.531
46	1933.09	-33.681	-261.113	32.175
46.05	1933	-31.419	-241.573	93.106
46.1	1932.86	-31.457	-242.679	37.813
46.15	1932.71	-31.301	-240.550	178.295
46.2	1932.57	-33.045	-256.163	91.462
46.25	1932.43	-33.214	-256.427	61.269
46.3	1932.29	-33.704	-263.042	80.620
46.35	1932.14	-33.519	-257.644	29.892
46.4	1932	-32.027	-246.750	88.741
46.45	1931.86	-31.586	-243.058	86.155
46.5	1931.71	-31.338	-241.348	37.117
46.55	1931.57	-30.808	-239.670	67.853
46.6	1931.43	-31.243	-243.188	94.792
46.65	1931.29	-31.724	-248.319	65.991
46.7	1931.14	-31.816	-250.309	61.499
46.75	1931	-31.240	-247.037	150.894
46.8	1930.86	-30.273	-239.161	36.081
46.85	1930.71	-29.396	-232.006	152.357
46.9	1930.57	-28.330	-224.273	165.878
46.95	1930.43	-28.562	-224.956	237.260
47	1930.29	-29.398	-229.768	87.850
47.05	1930.14	-30.278	-236.915	56.143
47.1	1930	-31.242	-245.758	36.617
47.15	1929.91	-31.837	-250.426	74.909
47.2	1929.82	-31.398	-246.144	61.766
47.25	1929.73	-30.890	-241.638	70.870
47.3	1929.64	-30.424	-236.355	154.490

47.35	1929.55	-30.313	-234.951	51.728
47.4	1929.45	-30.439	-238.913	62.134
47.45	1929.36	-31.447	-246.602	61.675
47.5	1929.27	-31.921	-251.600	41.800
47.55	1929.18	-32.027	-251.536	39.157
47.6	1929.09	-32.123	-248.526	35.225
47.65	1929	-32.006	-249.077	70.748
47.7	1928.9	-30.878	-243.354	45.242
47.75	1928.8	-30.526	-236.310	47.361
47.8	1928.7	-29.155	-226.368	44.596
47.85	1928.6	-28.285	-218.405	47.802
47.9	1928.5	-28.119	-217.188	57.213
47.95	1928.4	-28.431	-219.191	47.697
48	1928.3	-29.400	-226.367	52.404
48.05	1928.2	-30.608	-238.390	
48.1	1928.1	-31.563	-244.425	75.039
48.15	1928	-32.026	-249.889	33.787
48.2	1927.92	-32.181	-251.593	79.214
48.25	1927.83	-32.047	-250.478	46.367
48.3	1927.75	-31.704	-248.306	104.844
48.35	1927.67	-30.840	-242.703	51.416
48.4	1927.58	-28.925	-226.691	102.539
48.45	1927.5	-28.903	-225.123	89.960
48.5	1927.42	-28.041	-218.784	54.635
48.55	1927.33	-27.713	-217.332	154.453
48.6	1927.25	-28.700	-224.619	157.601
48.65	1927.17	-29.583	-232.014	92.174
48.7	1927.08	-30.306	-237.811	75.968
48.75	1927	-30.647	-240.942	77.490
48.8	1926.91	-29.966	-235.214	54.230
48.85	1926.82	-28.995	-227.664	173.533
48.9	1926.73	-27.797	-212.720	
48.95	1926.64	-27.296	-209.807	
49	1926.55	-27.050	-206.753	
49.05	1926.45	-26.972	-205.910	
49.1	1926.36	-27.118	-206.857	72.574
49.15	1926.27	-27.489	-212.060	40.565
49.2	1926.18	-27.888	-215.182	38.422
49.25	1926.09	-28.293	-219.719	38.653
49.3	1926	-28.764	-221.672	55.117
49.35	1925.93	-29.666	-229.205	52.224
49.4	1925.87	-30.396	-234.503	44.002
49.45	1925.8	-31.888	-248.875	

49.5	1925.73	-33.021	-260.149	102.467
49.55	1925.67	-32.967	-262.030	36.658
49.6	1925.6	-32.758	-256.863	38.619
49.65	1925.53	-32.207	-252.628	30.330
49.7	1925.47	-30.455	-235.670	66.025
49.75	1925.4	-27.257	-207.631	129.015
49.8	1925.33	-26.559	-202.432	166.637
49.85	1925.27	-26.631	-202.822	76.049
49.9	1925.2	-27.325	-207.925	122.681
49.95	1925.13	-27.884	-213.819	123.773
50	1925.07	-29.422	-227.075	63.649
50.05	1925	-30.305	-233.276	59.394
50.1	1924.94	-31.136	-241.360	36.983
50.15	1924.88	-31.260	-241.347	28.199
50.2	1924.82	-31.233	-240.112	115.914
50.25	1924.76	-30.716	-237.909	93.450
50.3	1924.71	-31.122	-239.163	96.661
50.35	1924.65	-31.015	-238.754	46.171
50.4	1924.59	-31.320	-243.164	32.967
50.45	1924.53	-31.477	-242.729	32.669
50.5	1924.47	-30.723	-234.399	
50.55	1924.41	-30.544	-232.534	284.359
50.6	1924.35	-30.247	-230.823	79.362
50.65	1924.29	-31.381	-243.128	53.162
50.7	1924.24	-32.220	-249.041	40.902
50.75	1924.18	-32.627	-253.493	48.663
50.8	1924.12	-32.870	-253.299	81.569
50.85	1924.06	-33.679	-260.508	144.522
50.9	1924	-34.303	-266.935	79.582
50.95	1923.95	-34.745	-268.854	67.060
51	1923.89	-34.277	-264.503	49.832
51.05	1923.84	-32.919	-252.725	52.227
51.1	1923.79	-31.815	-245.072	64.036
51.15	1923.74	-31.155	-240.528	137.348
51.2	1923.68	-31.065	-240.293	87.896
51.25	1923.63	-31.649	-245.571	123.518
51.3	1923.58	-31.504	-245.260	122.571
51.35	1923.53	-30.958	-240.261	93.872
51.4	1923.47	-30.772	-237.824	166.822
51.45	1923.42	-30.775	-238.747	259.351
51.5	1923.37	-31.279		164.059
51.55	1923.32	-31.248	-242.551	46.216
51.6	1923.26	-31.159	-239.803	63.450

51.65	1923.21	-30.305	-230.570	99.344
51.7	1923.16	-30.724	-233.871	80.365
51.75	1923.11	-32.171	-248.155	86.532
51.8	1923.05	-32.814	-254.251	79.412
51.85	1923	-32.716	-254.093	47.251
51.9	1922.92	-31.704	-245.253	33.197
51.95	1922.83	-31.139	-239.563	67.161
52	1922.75	-30.440	-233.010	93.000
52.05	1922.67	-30.293	-230.948	35.731
52.1	1922.58	-30.302	-230.963	66.688
52.15	1922.5	-30.248	-235.074	90.136
52.2	1922.42	-30.840	-240.950	50.788
52.25	1922.33	-31.697	-239.688	32.381
52.3	1922.25	-31.399	-236.271	111.209
52.35	1922.17	-31.130	-236.847	227.460
52.4	1922.08	-31.195	-237.359	180.009
52.45	1922	-31.016	-246.553	117.610
52.5	1921.94	-32.290	-256.563	55.180
52.55	1921.88	-33.200	-268.928	117.606
52.6	1921.82	-34.630	-274.360	88.041
52.65	1921.76	-35.351	-271.698	61.799
52.7	1921.71	-33.049	-256.366	108.267
52.75	1921.65	-33.353	-239.497	75.410
52.8	1921.59	-31.405	-228.434	241.912
52.85	1921.53	-30.267	-229.510	116.155
52.9	1921.47	-29.935	-229.555	104.331
52.95	1921.41	-29.810	-224.293	40.241
53	1921.35	-29.250	-219.662	31.938
53.05	1921.29	-27.897	-213.298	52.855
53.1	1921.24	-28.286	-214.824	93.420
53.15	1921.18	-28.884	-219.839	98.476
53.2	1921.12	-29.736	-228.525	66.302
53.25	1921.06	-30.929	-238.631	107.983
53.3	1921	-32.042	-250.255	72.945
53.35	1920.88	-32.877	-255.871	36.475
53.4	1920.75	-32.783	-253.331	121.783
53.45	1920.63	-30.994	-238.251	113.725
53.5	1920.5	-30.084	-231.998	133.882
53.55	1920.38	-29.489	-226.517	56.940
53.6	1920.25	-28.798	-226.977	55.670
53.65	1920.13	-29.195	-228.784	255.471
53.7	1920	-30.301	-234.528	101.588
53.75	1919.89	-30.576	-239.004	65.510

53.8	1919.78	-30.526	-236.889	50.714
53.85	1919.67	-30.383	-236.189	51.900
53.9	1919.56	-29.246	-225.550	132.387
53.95	1919.44	-29.465	-225.504	67.984
54	1919.33	-29.438	-225.373	107.357
54.05	1919.22	-30.381	-235.505	232.624
54.1	1919.11	-30.657	-239.543	104.195
54.15	1919	-31.321	-244.562	218.741
54.2	1918.92	-31.252	-244.257	149.503
54.25	1918.83	-30.258	-235.720	107.440
54.3	1918.75	-28.844	-224.727	45.204
54.35	1918.67	-27.437	-211.389	338.024
54.4	1918.58	-26.941	-208.061	54.974
54.45	1918.5	-30.612	-237.068	69.905
54.5	1918.42	-29.382	-227.463	75.406
54.55	1918.33	-27.678	-212.198	108.813
54.6	1918.25	-30.988	-239.720	27.661
54.65	1918.17	-31.886	-245.956	59.500
54.7	1918.08	-31.757	-245.474	100.454
54.75	1918	-31.849	-245.310	62.285
54.8	1917.93	-31.162	-244.795	157.943
54.85	1917.87	-31.373	-244.459	76.039
54.9	1917.8	-31.610	-242.232	21.155
54.95	1917.73	-31.110	-237.377	18.889
55	1917.67	-30.830	-238.133	33.213
55.05	1917.6	-30.599	-235.562	56.485
55.1	1917.53	-30.708	-235.439	42.232
55.15	1917.47	-30.076	-231.692	42.188
55.2	1917.4	-29.276	-225.137	45.657
55.25	1917.33	-29.909	-232.360	112.162
55.3	1917.27	-29.810	-231.552	63.452
55.35	1917.2	-30.415	-237.484	42.456
55.4	1917.13	-30.526	-237.865	46.408
55.45	1917.07	-30.066	-230.629	226.708
55.5	1917	-29.878	-227.667	280.421
55.55	1916.94	-30.300	-232.359	125.728
55.6	1916.89	-30.546	-233.600	65.855
55.65	1916.83	-31.497	-243.352	30.398
55.7	1916.78	-31.569	-244.344	25.736
55.75	1916.72	-31.124	-239.624	31.447
55.8	1916.67	-29.046	-218.799	41.740
55.85	1916.61	-27.883	-211.081	44.810
55.9	1916.56	-27.746	-210.970	56.418

55.95	1916.5	-27.728	-211.019	174.051
56	1916.44	-30.114	-230.245	101.530
56.05	1916.39	-30.266	-235.532	89.734
56.1	1916.33	-32.530	-255.391	57.913
56.15	1916.28	-32.408	-260.504	136.512
56.2	1916.22	-33.732	-261.847	128.652
56.25	1916.17	-33.262	-258.652	67.189
56.3	1916.11	-32.532	-251.575	76.473
56.35	1916.06	-32.022	-246.888	96.573
56.4	1916	-31.643	-244.985	76.140
56.45	1915.96	-31.159	-242.551	97.393
56.5	1915.91	-30.579	-238.493	62.653
56.55	1915.87	-30.012	-233.892	55.968
56.6	1915.83	-30.203	-234.446	74.328
56.65	1915.78	-30.084	-233.157	72.478
56.7	1915.74	-30.473	-235.934	84.179
56.75	1915.7	-30.144	-235.398	98.426
56.8	1915.65	-30.134	-234.409	74.827
56.85	1915.61	-29.611	-230.761	89.712
56.9	1915.57	-28.790	-222.924	62.681
56.95	1915.52	-28.596	-219.914	185.863
57	1915.48	-25.386	-193.452	127.498
57.05	1915.43	-24.692	-185.059	117.407
57.1	1915.39	-24.656	-184.952	70.567
57.15	1915.35	-24.381	-184.836	70.223
57.2	1915.3	-24.757	-187.373	145.202
57.25	1915.26	-24.924	-189.922	124.171
57.3	1915.22	-25.694	-195.392	184.138
57.35	1915.17	-27.126	-206.110	93.744
57.4	1915.13	-27.921	-213.373	34.518
57.45	1915.09	-28.649	-221.223	39.423
57.5	1915.04	-29.389	-227.130	52.797
57.55	1915	-29.781	-230.730	69.679
57.6	1914.9	-30.252	-232.998	61.290
57.65	1914.8	-30.729	-236.732	79.509
57.7	1914.7	-31.270	-242.861	69.195
57.75	1914.6	-31.265	-243.035	33.192
57.8	1914.5	-31.166	-240.916	91.239
57.85	1914.4	-30.200	-231.715	162.465
57.9	1914.3	-29.917	-231.006	80.562
57.95	1914.2	-31.003	-239.396	60.986
58	1914.1	-31.987	-246.914	84.187
58.05	1914	-32.243	-251.158	58.839

58.1	1913.9	-32.125	-252.188	46.237
58.15	1913.8	-31.824	-248.341	59.120
58.2	1913.7	-31.472	-244.829	109.209
58.25	1913.6	-31.028	-240.614	58.105
58.3	1913.5	-31.223	-240.965	138.031
58.35	1913.4	-31.343	-242.803	35.305
58.4	1913.3	-31.566	-244.493	49.463
58.45	1913.2	-31.783	-244.071	37.586
58.5	1913.1	-32.190	-247.454	38.486
58.55	1913	-32.203	-248.766	91.437
58.6	1912.93	-32.425	-252.050	41.746
58.65	1912.86	-32.059	-248.424	58.085
58.7	1912.79	-31.483	-244.627	60.987
58.75	1912.71	-30.739	-240.483	56.155
58.8	1912.64	-30.424	-235.923	42.502
58.85	1912.57	-29.869	-230.710	46.830
58.9	1912.5	-28.345	-218.764	68.635
58.95	1912.43	-28.348	-217.257	92.697
59	1912.36	-28.248	-218.609	94.017
59.05	1912.29	-29.033	-223.315	111.102
59.1	1912.21	-30.120	-232.071	86.020
59.15	1912.14	-30.949	-241.616	35.116
59.2	1912.07	-31.685	-245.959	82.920
59.25	1912	-32.534	-253.436	30.374
59.3	1911.92	-31.708	-247.375	32.220
59.35	1911.83	-31.624	-246.213	69.544
59.4	1911.75	-30.183	-233.543	103.498
59.45	1911.67	-29.000	-221.507	186.253
59.5	1911.58	-28.915	-220.700	102.975
59.55	1911.5	-29.342	-225.079	34.997
59.6	1911.42	-30.213	-232.135	65.949
59.65	1911.33	-30.413	-233.364	35.308
59.7	1911.25	-30.918	-237.120	32.532
59.75	1911.17	-31.015	-238.649	25.759
59.8	1911.08	-31.144	-238.741	100.179
59.85	1911	-31.257	-239.483	94.813
59.9	1910.95	-31.460	-240.792	40.487
59.95	1910.89	-31.501	-240.945	35.895
60	1910.84	-31.529	-241.367	50.937
60.05	1910.79	-31.146	-240.817	72.505
60.1	1910.74	-30.617	-235.833	87.605
60.15	1910.68	-30.012	-230.543	162.525
60.2	1910.63	-30.061	-229.393	57.415

60.25	1910.58	-29.893	-228.228	45.891
60.3	1910.53	-29.776	-227.600	26.184
60.35	1910.47	-29.686	-227.245	42.969
60.4	1910.42	-29.564	-226.396	34.881
60.45	1910.37	-29.104	-224.635	65.288
60.5	1910.32	-29.102	-225.783	53.203
60.55	1910.26	-29.117	-226.434	55.605
60.6	1910.21	-28.751	-222.276	43.549
60.65	1910.16	-28.724	-220.867	48.199
60.7	1910.11	-28.516	-221.353	25.089
60.75	1910.05	-29.239	-226.672	75.853
60.8	1910	-29.614	-230.065	69.724
60.85	1909.86	-29.638	-229.913	55.648
60.9	1909.71	-27.001	-206.145	34.262
60.95	1909.57	-26.863	-204.646	60.255
61	1909.43	-27.659	-212.947	115.421
61.05	1909.29	-28.441	-221.173	99.487
61.1	1909.14	-29.846	-233.420	87.918
61.15	1909	-30.395	-237.052	87.131
61.2	1908.93	-32.181	-250.700	49.205
61.25	1908.86	-33.119	-259.297	71.636
61.3	1908.79	-33.607	-263.236	56.650
61.35	1908.71	-33.744	-264.027	69.191
61.4	1908.64	-32.633	-254.321	92.837
61.45	1908.57	-30.656	-237.032	96.548
61.5	1908.5	-30.030	-232.308	95.401
61.55	1908.43	-29.816	-229.888	65.242
61.6	1908.36	-29.724	-231.119	72.813
61.65	1908.29	-30.092	-232.987	68.337
61.7	1908.21	-30.573	-235.372	102.880
61.75	1908.14	-30.686	-236.991	130.523
61.8	1908.07	-31.487	-243.148	42.741
61.85	1908	-31.855	-245.350	86.367
61.9	1907.92	-31.121	-238.446	70.958
61.95	1907.83	-30.745	-235.670	67.068
62	1907.75	-30.520	-233.390	48.413
62.05	1907.67	-30.018	-232.750	34.288
62.1	1907.58	-29.683	-229.919	34.014
62.15	1907.5	-29.607	-229.807	52.928
62.2	1907.42	-29.687	-230.762	48.475
62.25	1907.33	-29.968	-232.381	61.006
62.3	1907.25	-29.979	-234.008	45.067
62.35	1907.17	-30.011	-234.074	245.590

62.4	1907.08	-30.211	-235.397	144.865
62.45	1907	-30.403	-237.243	107.989
62.5	1906.89	-30.502	-237.718	103.195
62.55	1906.78	-30.468	-237.281	77.397
62.6	1906.67	-29.639	-233.237	55.371
62.65	1906.56	-29.391	-225.581	108.901
62.7	1906.44	-29.601	-226.038	54.920
62.75	1906.33	-29.635	-226.678	48.816
62.8	1906.22	-30.833	-238.091	56.907
62.85	1906.11	-31.305	-242.209	56.953
62.9	1906	-31.704	-245.170	45.423
62.95	1905.91	-31.520	-244.707	60.346
63	1905.82	-31.322	-242.870	65.206
63.05	1905.73	-30.968	-240.695	67.678
63.1	1905.64	-30.863	-240.272	176.183
63.15	1905.55	-31.068	-240.835	182.525
63.2	1905.45	-31.116	-240.694	119.945
63.25	1905.36	-31.252	-241.752	126.574
63.3	1905.27	-31.178	-241.206	60.359
63.35	1905.18	-30.916	-237.866	47.124
63.4	1905.09	-30.814	-235.745	131.787
63.45	1905	-30.516	-233.273	78.256
63.5	1904.93	-30.905	-237.105	71.885
63.55	1904.86	-30.946	-238.509	63.682
63.6	1904.79	-30.344	-233.450	
63.65	1904.71	-28.898	-221.260	190.557
63.7	1904.64	-28.561	-219.494	223.359
63.75	1904.57	-27.560	-209.716	177.529
63.8	1904.5	-27.351	-208.984	122.201
63.85	1904.43	-27.565	-210.553	106.777
63.9	1904.36	-27.509	-212.254	133.620
63.95	1904.29	-27.738	-215.945	53.711
64	1904.21	-28.089	-218.976	116.202
64.05	1904.14	-28.255	-220.948	78.833
64.1	1904.07	-28.444	-221.873	70.196
64.15	1904	-28.596	-223.680	39.447
64.2	1903.93	-29.119	-224.863	48.048
64.25	1903.86	-29.507	-230.431	31.161
64.3	1903.79	-30.513	-236.539	107.644
64.35	1903.71	-31.934	-248.084	124.248
64.4	1903.64	-32.431	-253.244	160.050
64.45	1903.57	-33.058	-257.728	63.767
64.5	1903.5	-32.735	-254.957	53.514

64.55	1903.43	-32.327	-251.135	36.058
64.6	1903.36	-31.640	-245.523	112.023
64.65	1903.29	-30.795	-239.017	107.341
64.7	1903.21	-30.271	-236.254	98.881
64.75	1903.14	-30.196	-234.580	244.165
64.8	1903.07	-30.026	-233.964	102.284
64.85	1903	-30.101	-233.472	54.842
64.9	1902.93	-29.888	-230.773	87.046
64.95	1902.86	-29.663	-228.448	77.691

For chronological constraints & methods, pls refer:

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