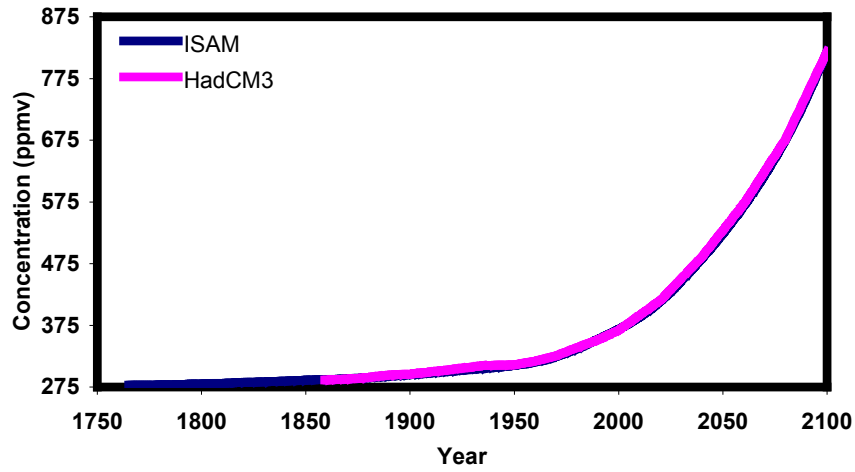


ISAM Results for SRES A2 Scenario

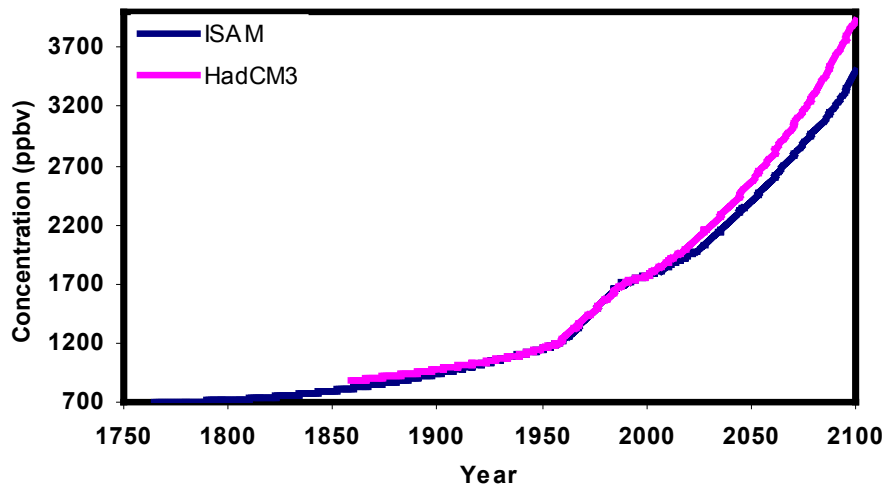
Notes:

- (1) CO₂ concentrations (1765-2100): 1765-1990 based on fossil and land use emissions from CDIAC; 1990-2100 based on A2 scenario.
- (2) CH₄ Concentration (1765-2100): 1765-1990 based observation data; 1990-2100 based on A2 scenario.
- (3) N₂O Concentration (1765-2100): 1765-1990 based observation data; 1990-2100 based on A2 emission scenario.
- (4) Total Radiative Forcings (1765-2100): The RFs for CO₂, CH₄, and N₂O are based on ISAM, Aerosol RF is based on HadCM3.
- (5) Surface Air Temperature and Sea Level Changes (1765-2100): The calculations are done using $DF_{2x}=3.74 \text{ Wm}^{-2}$ and $DT_{2x} = 3.0^{\circ}\text{C}$.

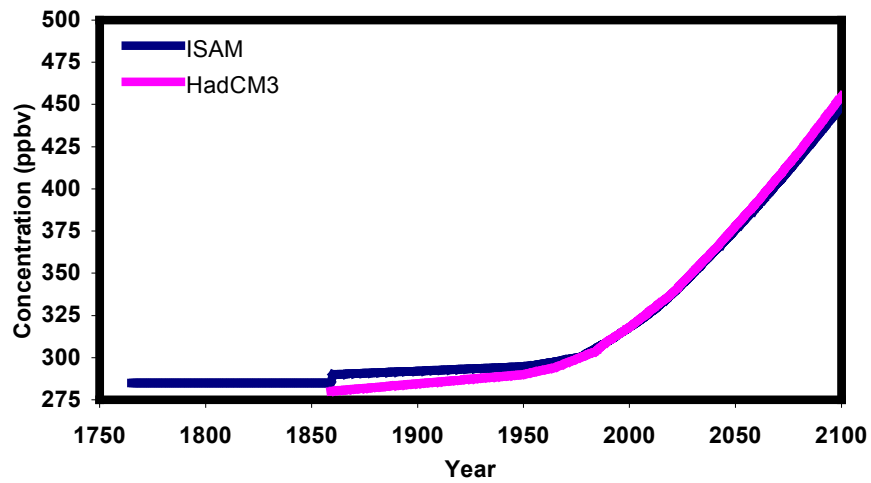
CO2 Concentrations for Scenario A2



CH4 Concentrations for Scenario A2



N2O Concentrations for Scenario A2



Year	CO2 (ppmv)	CH4 (ppbv)	N2O (ppbv)	RF (W/m2)	Tem (deg C)	Sea Level (cm)
1765	278.000	700.013	285.000	0.00	0.000	0.000
1766	278.000	700.052	285.000	0.00	0.000	0.000
1767	278.001	700.117	285.000	0.00	0.000	0.000
1768	278.002	700.208	285.000	0.00	0.000	0.001
1769	278.005	700.325	285.000	0.00	0.000	0.001
1770	278.009	700.468	285.000	0.00	0.000	0.001
1771	278.014	700.637	285.000	0.00	0.000	0.002
1772	278.021	700.832	285.000	0.00	0.000	0.002
1773	278.034	701.053	285.000	0.00	0.000	0.002
1774	278.050	701.300	285.000	0.00	0.000	0.003
1775	278.078	701.573	285.000	0.00	0.001	0.004
1776	278.119	701.872	285.000	0.00	0.001	0.004
1777	278.165	702.197	285.000	0.00	0.001	0.005
1778	278.214	702.548	285.000	0.01	0.002	0.007
1779	278.266	702.925	285.000	0.01	0.002	0.008
1780	278.321	703.328	285.000	0.01	0.002	0.010
1781	278.380	703.757	285.000	0.01	0.003	0.011
1782	278.444	704.212	285.000	0.01	0.004	0.013
1783	278.514	704.693	285.000	0.01	0.004	0.015
1784	278.588	705.200	285.000	0.01	0.005	0.018
1785	278.664	705.733	285.000	0.02	0.006	0.020
1786	278.744	706.292	285.000	0.02	0.006	0.023
1787	278.824	706.877	285.000	0.02	0.007	0.026
1788	278.906	707.488	285.000	0.02	0.008	0.030
1789	278.989	708.125	285.000	0.02	0.009	0.033
1790	279.074	708.788	285.000	0.03	0.010	0.037
1791	279.160	709.477	285.000	0.03	0.011	0.041
1792	279.248	710.192	285.000	0.03	0.012	0.045
1793	279.337	710.933	285.000	0.03	0.013	0.050
1794	279.426	711.700	285.000	0.03	0.014	0.054
1795	279.517	712.493	285.000	0.04	0.015	0.059
1796	279.610	713.312	285.000	0.04	0.016	0.064
1797	279.702	714.157	285.000	0.04	0.017	0.070
1798	279.797	715.028	285.000	0.04	0.018	0.075
1799	279.894	715.925	285.000	0.05	0.019	0.081
1800	279.992	716.848	285.000	0.05	0.021	0.087
1801	280.091	717.797	285.000	0.05	0.022	0.093
1802	280.192	718.772	285.000	0.05	0.023	0.100
1803	280.297	719.773	285.000	0.06	0.024	0.106
1804	280.406	720.800	285.000	0.06	0.026	0.113
1805	280.516	721.853	285.000	0.06	0.027	0.121
1806	280.628	722.932	285.000	0.06	0.029	0.128
1807	280.739	724.037	285.000	0.07	0.030	0.136

1808	280.851	725.168	285.000	0.07	0.031	0.144
1809	280.964	726.325	285.000	0.07	0.033	0.152
1810	281.078	727.508	285.000	0.08	0.034	0.161
1811	281.193	728.717	285.000	0.08	0.036	0.170
1812	281.310	729.952	285.000	0.08	0.038	0.179
1813	281.429	731.213	285.000	0.08	0.039	0.188
1814	281.549	732.500	285.000	0.09	0.041	0.198
1815	281.669	733.813	285.000	0.09	0.042	0.208
1816	281.791	735.152	285.000	0.09	0.044	0.218
1817	281.914	736.517	285.000	0.10	0.046	0.228
1818	282.039	737.908	285.000	0.10	0.048	0.239
1819	282.164	739.325	285.000	0.10	0.049	0.250
1820	282.290	740.768	285.000	0.11	0.051	0.261
1821	282.413	742.237	285.000	0.11	0.053	0.273
1822	282.529	743.732	285.000	0.11	0.055	0.285
1823	282.642	745.253	285.000	0.12	0.056	0.297
1824	282.750	746.800	285.000	0.12	0.058	0.309
1825	282.856	748.373	285.000	0.12	0.060	0.322
1826	282.960	749.972	285.000	0.12	0.062	0.334
1827	283.062	751.597	285.000	0.13	0.063	0.347
1828	283.163	753.248	285.000	0.13	0.065	0.360
1829	283.264	754.925	285.000	0.13	0.067	0.373
1830	283.365	756.628	285.000	0.14	0.069	0.387
1831	283.466	758.357	285.000	0.14	0.071	0.400
1832	283.569	760.112	285.000	0.14	0.072	0.414
1833	283.674	761.893	285.000	0.14	0.074	0.428
1834	283.781	763.700	285.000	0.15	0.076	0.443
1835	283.892	765.533	285.000	0.15	0.078	0.457
1836	284.006	767.392	285.000	0.15	0.080	0.472
1837	284.124	769.277	285.000	0.16	0.081	0.487
1838	284.247	771.188	285.000	0.16	0.083	0.502
1839	284.375	773.125	285.000	0.16	0.085	0.518
1840	284.510	775.088	285.000	0.17	0.087	0.534
1841	284.650	777.077	285.000	0.17	0.089	0.551
1842	284.794	779.092	285.000	0.18	0.092	0.567
1843	284.941	781.133	285.000	0.18	0.094	0.585
1844	285.088	783.200	285.000	0.18	0.096	0.602
1845	285.235	785.293	285.000	0.19	0.098	0.620
1846	285.381	787.412	285.000	0.19	0.100	0.638
1847	285.525	789.557	285.000	0.19	0.103	0.657
1848	285.665	791.728	285.000	0.20	0.105	0.676
1849	285.802	793.925	285.000	0.20	0.107	0.695
1850	285.936	796.148	285.000	0.21	0.109	0.714
1851	286.066	798.397	285.000	0.21	0.112	0.734
1852	286.192	800.672	285.000	0.21	0.114	0.754
1853	286.315	802.973	285.000	0.22	0.116	0.774

1854	286.433	805.300	285.000	0.22	0.119	0.795
1855	286.548	807.653	285.000	0.22	0.121	0.816
1856	286.660	810.032	285.000	0.23	0.123	0.837
1857	286.768	812.437	285.000	0.23	0.125	0.858
1858	286.875	814.868	285.000	0.23	0.127	0.879
1859	286.980	817.325	285.000	0.21	0.124	0.894
1860	287.082	819.808	289.992	0.23	0.127	0.913
1861	287.185	822.317	290.044	0.23	0.128	0.932
1862	287.289	824.852	290.096	0.23	0.129	0.951
1863	287.396	827.413	290.148	0.23	0.130	0.969
1864	287.508	830.000	290.200	0.23	0.131	0.987
1865	287.624	832.613	290.252	0.23	0.132	1.005
1866	287.744	835.252	290.304	0.23	0.133	1.023
1867	287.870	837.917	290.356	0.23	0.134	1.040
1868	288.000	840.608	290.408	0.23	0.134	1.058
1869	288.134	843.325	290.460	0.23	0.135	1.076
1870	288.276	846.068	290.512	0.23	0.136	1.093
1871	288.427	848.837	290.564	0.23	0.137	1.111
1872	288.587	851.632	290.616	0.23	0.138	1.129
1873	288.752	854.453	290.668	0.23	0.139	1.146
1874	288.921	857.300	290.720	0.24	0.140	1.164
1875	289.095	860.173	290.772	0.24	0.141	1.182
1876	289.280	863.072	290.824	0.24	0.142	1.200
1877	289.471	865.997	290.876	0.24	0.143	1.219
1878	289.671	868.948	290.928	0.24	0.144	1.237
1879	289.879	871.925	290.980	0.25	0.146	1.256
1880	290.099	874.928	291.032	0.25	0.147	1.275
1881	290.326	877.957	291.084	0.25	0.148	1.294
1882	290.560	881.012	291.136	0.25	0.150	1.313
1883	290.799	884.093	291.188	0.26	0.151	1.333
1884	291.039	887.200	291.240	0.26	0.153	1.353
1885	291.279	890.333	291.292	0.26	0.154	1.373
1886	291.523	893.492	291.344	0.26	0.156	1.394
1887	291.777	896.677	291.396	0.27	0.158	1.415
1888	292.038	899.888	291.448	0.27	0.159	1.436
1889	292.298	903.125	291.500	0.27	0.161	1.458
1890	292.558	906.388	291.552	0.28	0.163	1.480
1891	292.821	909.677	291.604	0.28	0.165	1.502
1892	293.078	912.992	291.656	0.28	0.167	1.525
1893	293.328	916.333	291.708	0.29	0.169	1.548
1894	293.578	919.700	291.760	0.29	0.171	1.571
1895	293.830	923.093	291.812	0.29	0.172	1.594
1896	294.076	926.512	291.864	0.30	0.174	1.618
1897	294.318	929.957	291.916	0.30	0.176	1.642
1898	294.559	933.428	291.968	0.30	0.178	1.666
1899	294.805	936.925	292.020	0.31	0.180	1.690

1900	295.052	940.448	292.072	0.31	0.182	1.715
1901	295.295	943.997	292.124	0.31	0.183	1.739
1902	295.539	947.572	292.176	0.31	0.185	1.763
1903	295.797	951.173	292.228	0.31	0.186	1.787
1904	296.060	954.800	292.280	0.31	0.187	1.810
1905	296.327	958.453	292.332	0.31	0.189	1.834
1906	296.611	962.132	292.384	0.31	0.190	1.857
1907	296.912	965.837	292.436	0.32	0.191	1.881
1908	297.200	969.568	292.488	0.32	0.192	1.904
1909	297.484	973.325	292.540	0.32	0.193	1.928
1910	297.788	977.108	292.592	0.32	0.195	1.952
1911	298.092	980.917	292.644	0.32	0.196	1.975
1912	298.401	984.752	292.696	0.32	0.197	1.999
1913	298.722	988.613	292.748	0.33	0.198	2.023
1914	299.013	992.500	292.800	0.33	0.200	2.047
1915	299.292	996.413	292.852	0.33	0.201	2.071
1916	299.609	1000.352	292.904	0.33	0.202	2.095
1917	299.939	1004.317	292.956	0.33	0.203	2.119
1918	300.251	1008.308	293.008	0.34	0.205	2.143
1919	300.528	1012.325	293.060	0.34	0.206	2.167
1920	300.841	1016.368	293.112	0.34	0.207	2.191
1921	301.146	1020.437	293.164	0.34	0.208	2.216
1922	301.437	1024.532	293.216	0.34	0.210	2.240
1923	301.783	1028.653	293.268	0.34	0.211	2.265
1924	302.108	1032.800	293.320	0.35	0.212	2.289
1925	302.407	1036.973	293.372	0.35	0.214	2.314
1926	302.704	1041.172	293.424	0.35	0.215	2.339
1927	303.016	1045.397	293.476	0.35	0.216	2.364
1928	303.320	1049.648	293.528	0.35	0.217	2.389
1929	303.615	1053.925	293.580	0.35	0.219	2.414
1930	303.884	1058.228	293.632	0.36	0.220	2.439
1931	304.106	1062.557	293.684	0.36	0.221	2.463
1932	304.328	1066.912	293.736	0.36	0.222	2.488
1933	304.583	1071.293	293.788	0.36	0.223	2.512
1934	304.874	1075.700	293.840	0.36	0.224	2.537
1935	305.158	1080.133	293.892	0.36	0.225	2.561
1936	305.449	1084.592	293.944	0.36	0.226	2.586
1937	305.749	1089.077	293.996	0.36	0.227	2.610
1938	306.009	1093.588	294.048	0.36	0.228	2.635
1939	306.273	1098.125	294.100	0.37	0.229	2.660
1940	306.571	1099.311	294.152	0.37	0.230	2.684
1941	306.868	1102.944	294.204	0.37	0.231	2.708
1942	307.156	1106.771	294.256	0.37	0.232	2.733
1943	307.454	1110.795	294.308	0.37	0.233	2.757
1944	307.761	1115.013	294.360	0.37	0.234	2.781
1945	308.042	1119.427	294.412	0.37	0.235	2.806

1946	308.359	1124.036	294.464	0.37	0.236	2.830
1947	308.759	1128.840	294.516	0.38	0.237	2.856
1948	309.177	1133.840	294.568	0.38	0.239	2.881
1949	309.569	1139.035	294.620	0.39	0.240	2.907
1950	309.992	1144.425	294.600	0.39	0.242	2.934
1951	310.470	1150.011	294.793	0.38	0.242	2.958
1952	310.935	1155.792	294.988	0.37	0.241	2.981
1953	311.398	1161.768	295.185	0.37	0.240	3.001
1954	311.881	1167.940	295.383	0.36	0.238	3.020
1955	312.417	1174.338	295.584	0.35	0.237	3.038
1956	313.000	1181.427	295.787	0.35	0.235	3.055
1957	313.585	1189.717	295.991	0.34	0.233	3.071
1958	314.180	1199.145	296.197	0.34	0.232	3.086
1959	314.812	1209.648	296.406	0.33	0.230	3.100
1960	315.483	1221.166	296.616	0.33	0.229	3.115
1961	316.152	1233.637	296.828	0.33	0.228	3.129
1962	316.839	1246.999	297.042	0.33	0.227	3.144
1963	317.571	1261.190	297.258	0.33	0.226	3.158
1964	318.333	1276.148	297.476	0.33	0.226	3.173
1965	319.122	1291.811	297.696	0.33	0.226	3.188
1966	319.955	1308.119	297.918	0.33	0.226	3.204
1967	320.838	1325.008	298.141	0.34	0.226	3.220
1968	321.785	1342.417	298.367	0.34	0.227	3.238
1969	322.819	1360.285	298.595	0.35	0.229	3.257
1970	323.936	1378.550	298.824	0.36	0.231	3.277
1971	325.092	1397.150	299.055	0.37	0.233	3.298
1972	326.272	1416.022	299.289	0.37	0.236	3.322
1973	327.510	1435.106	299.524	0.38	0.239	3.346
1974	328.736	1454.340	299.761	0.39	0.243	3.373
1975	329.924	1473.661	300.000	0.40	0.246	3.400
1976	331.200	1493.008	300.241	0.43	0.252	3.432
1977	332.553	1512.320	300.500	0.45	0.260	3.469
1978	333.905	1531.534	301.206	0.48	0.268	3.510
1979	335.338	1550.588	301.912	0.50	0.277	3.556
1980	336.775	1569.340	302.618	0.53	0.288	3.606
1981	338.134	1587.650	303.324	0.55	0.298	3.659
1982	339.523	1605.172	304.030	0.58	0.309	3.717
1983	340.969	1621.906	304.736	0.60	0.320	3.778
1984	342.490	1637.853	305.442	0.63	0.332	3.844
1985	344.079	1653.012	306.148	0.66	0.344	3.913
1986	345.704	1667.384	306.854	0.68	0.356	3.986
1987	347.321	1680.969	307.560	0.71	0.369	4.063
1988	348.925	1693.765	308.266	0.74	0.382	4.144
1989	350.507	1705.775	308.972	0.76	0.395	4.227
1990	352.088	1704.372	309.678	0.78	0.407	4.314
1991	353.702	1711.386	310.625	0.81	0.420	4.403

1992	355.320	1718.753	311.441	0.83	0.433	4.496
1993	356.942	1725.708	312.255	0.85	0.445	4.591
1994	358.571	1732.273	313.068	0.88	0.458	4.690
1995	360.208	1738.484	313.880	0.90	0.471	4.792
1996	361.854	1744.375	314.691	0.92	0.484	4.896
1997	363.509	1749.976	315.500	0.95	0.497	5.004
1998	365.174	1755.314	316.308	0.97	0.510	5.114
1999	366.851	1760.413	317.115	0.99	0.524	5.228
2000	368.538	1765.297	317.921	1.02	0.537	5.344
2001	370.256	1770.417	318.743	1.04	0.550	5.463
2002	372.024	1776.323	319.579	1.06	0.563	5.584
2003	373.840	1782.953	320.431	1.09	0.577	5.709
2004	375.704	1790.225	321.298	1.11	0.590	5.837
2005	377.612	1798.063	322.180	1.14	0.604	5.968
2006	379.565	1806.402	323.077	1.16	0.619	6.103
2007	381.561	1815.185	323.988	1.19	0.633	6.241
2008	383.599	1824.362	324.914	1.22	0.648	6.383
2009	385.678	1833.888	325.854	1.24	0.664	6.529
2010	387.798	1843.725	326.808	1.27	0.679	6.679
2011	389.984	1853.680	327.785	1.30	0.695	6.832
2012	392.256	1863.504	328.784	1.33	0.712	6.990
2013	394.613	1873.189	329.805	1.36	0.728	7.152
2014	397.053	1882.748	330.847	1.40	0.746	7.318
2015	399.573	1892.195	331.912	1.43	0.763	7.489
2016	402.173	1901.542	332.997	1.46	0.781	7.665
2017	404.851	1910.802	334.104	1.50	0.800	7.845
2018	407.605	1919.988	335.232	1.54	0.819	8.030
2019	410.436	1929.109	336.381	1.57	0.838	8.221
2020	413.342	1938.177	337.550	1.61	0.858	8.416
2021	416.317	1947.600	338.731	1.65	0.879	8.617
2022	419.358	1957.958	339.925	1.69	0.899	8.823
2023	422.465	1969.201	341.130	1.73	0.921	9.035
2024	425.638	1981.243	342.346	1.77	0.942	9.252
2025	428.876	1994.005	343.575	1.81	0.965	9.474
2026	432.179	2007.412	344.815	1.85	0.987	9.703
2027	435.547	2021.398	346.066	1.90	1.011	9.937
2028	438.979	2035.899	347.329	1.94	1.034	10.176
2029	442.475	2050.855	348.603	1.98	1.058	10.422
2030	446.036	2066.211	349.888	2.03	1.083	10.673
2031	449.637	2081.949	351.173	2.07	1.107	10.930
2032	453.255	2097.920	352.459	2.12	1.133	11.193
2033	456.891	2114.071	353.746	2.16	1.158	11.460
2034	460.548	2130.382	355.033	2.21	1.183	11.734
2035	464.228	2146.832	356.321	2.25	1.209	12.012
2036	467.933	2163.403	357.609	2.30	1.235	12.295
2037	471.664	2180.080	358.897	2.34	1.261	12.583

2038	475.422	2196.847	360.186	2.39	1.287	12.875
2039	479.209	2213.691	361.476	2.43	1.313	13.172
2040	483.026	2230.598	362.766	2.48	1.340	13.473
2041	486.874	2247.556	364.059	2.52	1.366	13.778
2042	490.755	2264.549	365.354	2.57	1.393	14.088
2043	494.669	2281.568	366.652	2.61	1.420	14.401
2044	498.617	2298.604	367.952	2.66	1.447	14.718
2045	502.599	2315.650	369.255	2.70	1.474	15.038
2046	506.616	2332.700	370.560	2.74	1.501	15.363
2047	510.669	2349.746	371.867	2.79	1.528	15.690
2048	514.757	2366.784	373.177	2.83	1.555	16.021
2049	518.881	2383.809	374.489	2.88	1.582	16.355
2050	523.043	2400.815	375.803	2.92	1.610	16.692
2051	527.250	2417.944	377.124	2.98	1.640	17.036
2052	531.513	2435.423	378.451	3.05	1.671	17.387
2053	535.834	2453.230	379.785	3.11	1.703	17.745
2054	540.210	2471.331	381.125	3.17	1.736	18.110
2055	544.641	2489.694	382.471	3.23	1.770	18.482
2056	549.127	2508.290	383.823	3.29	1.804	18.861
2057	553.668	2527.093	385.181	3.35	1.838	19.246
2058	558.264	2546.079	386.545	3.42	1.873	19.637
2059	562.914	2565.227	387.915	3.48	1.909	20.034
2060	567.619	2584.519	389.291	3.54	1.945	20.438
2061	572.378	2603.964	390.675	3.60	1.981	20.847
2062	577.193	2623.571	392.067	3.67	2.017	21.262
2063	582.065	2643.324	393.466	3.73	2.054	21.683
2064	586.993	2663.205	394.873	3.79	2.091	22.108
2065	591.976	2683.201	396.288	3.86	2.128	22.540
2066	597.016	2703.298	397.710	3.92	2.166	22.976
2067	602.111	2723.485	399.139	3.99	2.204	23.417
2068	607.263	2743.751	400.576	4.05	2.242	23.863
2069	612.471	2764.088	402.021	4.11	2.280	24.313
2070	617.737	2784.489	403.472	4.18	2.319	24.768
2071	623.073	2804.845	404.928	4.24	2.357	25.227
2072	628.493	2825.119	406.390	4.31	2.396	25.691
2073	633.997	2845.328	407.856	4.37	2.435	26.159
2074	639.585	2865.482	409.328	4.44	2.475	26.631
2075	645.257	2885.592	410.804	4.50	2.514	27.107
2076	651.011	2905.670	412.285	4.57	2.554	27.587
2077	656.849	2925.729	413.770	4.64	2.594	28.071
2078	662.771	2945.787	415.261	4.70	2.635	28.559
2079	668.775	2965.860	416.756	4.77	2.675	29.051
2080	674.864	2985.967	418.255	4.84	2.716	29.547
2081	681.050	3006.037	419.759	4.90	2.757	30.047
2082	687.348	3026.101	421.268	4.97	2.798	30.550
2083	693.758	3046.242	422.781	5.04	2.839	31.057

2084	700.280	3066.536	424.298	5.11	2.881	31.568
2085	706.911	3087.064	425.820	5.17	2.923	32.083
2086	713.652	3107.916	427.346	5.24	2.965	32.602
2087	720.501	3129.189	428.877	5.31	3.008	33.124
2088	727.459	3150.987	430.411	5.38	3.051	33.651
2089	734.525	3173.423	431.950	5.45	3.094	34.181
2090	741.700	3196.617	433.493	5.53	3.137	34.715
2091	748.984	3220.715	435.038	5.76	3.207	35.303
2092	756.377	3245.870	436.584	5.83	3.262	35.894
2093	763.880	3272.232	438.133	5.90	3.315	36.487
2094	771.492	3299.959	439.684	5.98	3.365	37.082
2095	779.215	3329.220	441.236	6.04	3.414	37.677
2096	787.048	3360.193	442.791	6.11	3.462	38.273
2097	794.992	3393.063	444.347	6.18	3.509	38.870
2098	803.048	3428.027	445.905	6.25	3.556	39.466
2099	811.215	3465.287	447.465	6.32	3.603	40.063
2100	819.495	3505.056	449.026	6.39	3.649	40.660