

22 IAE Ice Core data (IND-22/B4)

Depth	Age	d18O	dD	nssSO4	NO3
0	2002	-23.982	-181.930	--	--
0.25	1992.988	-25.207	-192.806	177.837	143.720
0.5	1989.482	-23.087	-173.675	64.100	--
0.75	1985.977	-24.449	-184.562	56.359	48.270
1	1982.471	-25.16	-191.070	111.633	57.390
1.26	1978.965	-25.326	--	63.659	214.772
1.52	1975.459	-25.208	-192.521	108.551	105.152
1.77	1971.953	-25.534	-196.758	23.543	110.360
2.02	1968.447	-24.6	-185.830	40.865	26.962
2.255	1964.963	-24.973	-190.804	232.741	152.599
2.49	1962.738	-23.502	-178.182	178.582	135.843
2.74	1960.513	-23.778	-179.556	71.923	57.692
2.99	1959.772	-22.558	-168.807	88.877	93.834
3.11	1957.547	-22.479	-167.243	92.086	80.705
3.36	1955.322	-22.289	-165.528	48.157	47.300
3.61	1953.097	-25.241	-188.858	73.218	54.979
3.855	1950.873	-25.054	-187.596	76.660	62.201
4.1	1948.648	-25.262	-187.841	120.544	59.828
4.345	1946.423	-25.215	-188.140	31.615	26.511
4.59	1944.198	-26.1	-195.532	94.513	39.608
4.825	1941.974	-26.87	-200.110	12.155	21.555
5.06	1939.749	-27.286	-206.714	86.057	37.805
5.325	1937.524	-27.135	-206.518	115.592	64.110
5.59	1935.299	-26.123	-193.311	40.568	54.081
5.855	1931.509	-25.163	-188.882	40.146	29.761
6.12	1931.591	-28.506	-222.882	17.567	25.058
6.295	1929.366	-27.99	-218.031	13.942	67.969
6.47	1927.883	-26.335	-201.086	55.562	86.864
6.635	1926.4	-24.84	-189.093	108.299	67.513
6.8	1925.658	-22.26	-171.730	73.591	41.529
6.95	1924.175	-22.51	-171.576	146.706	59.427
7.1	1922.692	-23.655	-181.166	112.543	71.268
7.24	1921.209	-23.567	1052.000	93.392	136.810
7.38	1918.984	-23.7	-179.049	64.402	41.112
7.645	1916.759	-24.82	-192.056	68.443	54.695
7.91	1913.773	-23.685	-184.669	63.750	49.398
8.16	1911.282	-23.629	-180.726	148.191	94.914
8.41	1909.413	-23.74	-180.018	130.505	67.642
8.68	1906.922	-24.91	-190.127	43.940	50.255
8.95	1905.054	-24.511	-187.230	158.443	148.644

9.17	1903.186	-23.341	-183.899	154.356	103.036
9.39	1901.618	-23.271	-176.950	49.085	55.329
9.615	1898.827	-24.551	-188.967	77.369	69.234
9.84	1896.959	-24.038	-188.841	30.247	45.081
10.1	1894.468	-24.343	-188.520	62.149	103.066
10.36	1892.149	-25.944	-201.620	65.950	54.428
10.625	1889.97	-29.098	-229.043	48.017	92.257
10.89	1887.791	-25.555	-196.743	128.109	99.327
11.16	1885.067	-26.109	-201.673	70.460	50.161
11.43	1882.887	-24.363	-188.770	55.752	85.952
11.67	1881.253	-25.205	-198.345	19.037	42.204
11.91	1879.074	-26.893	-208.918	70.028	100.606
12.135	1877.439	-26.849	-211.927	58.205	67.080
12.36	1876.895	-25.016	-194.217	29.928	77.093
13.16	1872.536	-25.908	-207.056	78.757	30.852
13.92	1870.357	-27.552	-215.432	22.736	43.085
14	1867.633	-25.134	-193.234	27.113	28.267
14.23	1865.454	-22.723	-178.502	21.358	49.290
14.46	1863.275	-25.084	-197.548	7.535	33.998
14.725	1862.73	-23.731	-187.131	51.636	65.837
14.99	1860.551	-25.692	-200.156	68.514	133.091
15.26	1858.916	-26.897	-212.531	52.533	67.799
15.53	1856.737	-25.536	-201.609	38.152	99.492
15.77	1854.013	-24.469	-190.594	87.387	86.642
16.01	1851.834	-25.368	-198.891	29.426	68.206
16.25	1849.655	-23.867	-185.796	128.507	36.399
16.475	1847.475	-26.551	-207.720	48.510	35.000
16.7	1845.296	-23.086	-182.452	3.440	10.000
16.86	1843.117	-23.825	-188.534	109.119	27.013
17.02	1841.483	-23.056	-181.262	33.550	31.541
17.3	1839.303	-27.56	-215.131	66.080	168.502
17.555	1837.669	-29.16	-226.461	93.108	131.378
17.81	1836.579	-23.741	-181.644	195.252	103.789
18.035	1834.4	-22.975	-180.819	5.953	42.194
18.26	1831.676	-24.647	-190.403	22.797	144.302
18.51	1829.497	-23.48	-183.951	88.279	76.334
18.76	1828.952	-27.697	-218.323	23.515	61.882
18.91	1825.684	-27.861	-219.257	81.184	50.292
19.06	1823.504	-24.557	-190.168	0.693	41.349
19.205	1822.021	-23.649	-182.265	19.524	46.512
19.35	1820.696	-24.156	-190.267	14.280	69.928
19.535	1819.371	-27.324	-201.345	35.996	152.790
19.72	1818.047	-32.159	-256.240	168.717	138.749

19.92	1817.384	-29.123	-234.100	91.719	66.814
20.135	1816.059	-26.456	-212.546	376.526	193.683
20.35	1814.378	-25.487	-205.489	57.949	161.235
20.54	1812.68	-25.219	-197.810	69.942	178.394
20.73	1810.521	-22.068	-172.314	315.427	167.712
20.945	1807.912	-21.567	-170.111	31.958	76.328
21.57	1806.067	-21.331	-167.264	81.391	49.088
21.79	1804.492	-24.2	-191.819	132.730	272.957
22.01	1802.077	-26.919	-212.808	120.641	117.540
22.235	1800.468	-25.708	-202.123	39.478	30.600
22.46	1798.053	-22.543	-180.670	67.422	89.372
22.82	1794.764	-22.333	-178.938	9.548	23.419
23.02	1792.946	-22.013	-174.000	58.701	57.299
23.22	1791.128	-23.517	-187.826	54.570	22.015
23.415	1788.097	-22.482	-179.666	34.197	69.432
23.61	1786.279	-24.897	187.234	69.473	13.800
23.78	1784.461	-27.716	-217.233	78.197	21.300
23.95	1782.643	-27.233	-213.032	148.560	36.500
24.12	1780.825	-27.669	-219.072	45.469	14.000
24.29	1779.007	-22.399	-173.500	47.105	35.500
24.48	1778.401	-21.625	-167.093	188.374	10.000
24.67	1775.37	-23.831	-185.964	42.296	10.000
24.89	1773.552	-23.131	-182.522	29.699	10.000
25.11	1771.734	-24.35	-186.865	202.081	159.171
25.49	1769.916	-28.594	-219.814	88.010	109.842
25.675	1768.704	-27.798	-218.397	20.717	19.068
25.86	1766.886	-25.297	-196.630	64.556	26.333
26.075	1766.28	-26.268	-207.020	20.177	57.177
26.29	1762.643	-28.086	-210.998	32.614	32.018
26.5	1760.825	-27.16	-210.560	31.200	73.278
26.71	1759.007	-21.702	170.100	41.450	60.727
26.99	1757.189	-26.738	-203.325	-2.630	19.923
27.225	1755.371	-22.946	-179.148	56.381	59.947
27.46	1753.553	-24.046	-186.846	29.887	24.416
27.63	1751.128	-23.276	-180.803	45.715	27.399
27.8	1749.31	-23.34	-181.719	45.407	170.280
27.965	1747.492	-24.882	-195.215	28.054	161.520
28.13	1745.068	-29.06	-225.822	175.694	202.661
28.375	1742.644	-25.123	-196.155	-2.211	89.212
28.62	1740.219	-26.239	-202.850	100.290	153.496
28.79	1737.795	-28.879	-227.479	41.559	85.926
28.96	1735.977	-26.28	-203.172	94.764	103.597
29.18	1734.765	-24.921	-193.110	32.750	111.717

29.4	1732.947	-24.684	-193.745	59.022	153.040
29.595	1731.129	-25.873	-203.408	21.326	103.958
29.79	1729.311	-23.795	-186.544	133.723	133.002
29.97	1726.886	-22.184	-174.983	45.786	127.212
30.15	1725.068	-22.916	-183.909	45.092	75.698
30.305	1723.25	-22.62	-180.394	12.465	124.751
30.46	1721.432	-23.108	-183.499	45.619	144.229
30.705	1719.008	-23.896	-190.336	44.321	147.864
30.95	1717.19	-21.847	-173.259	12.869	82.910
31.15	1715.371	-23.932	-187.257	38.512	126.036
31.39	1713.553	-26.053	-203.841	150.097	156.875
31.63	1711.735	-28.78	-224.289	95.881	225.065
31.84	1710.523	-28.132	-217.776	14.228	190.055
32.035	1708.705	-26.689	-207.626	104.768	125.145
32.23	1706.281	-24.375	-187.117	11.309	141.928
32.43	1704.462	-25.191	-195.823	109.659	74.356
32.65	1702.038	-26.12	-207.234	62.364	153.269
32.87	1699.614	-27.992	-217.224	68.141	190.801
33.13	1697.796	-28.142	-214.322	43.696	110.394
33.4	1695.372	-29.164	-222.506	20.425	164.271
33.67	1693.554	-30.69	-237.227	44.247	147.205
33.83	1691.735	-26.645	-206.136	38.661	225.560
33.99	1689.917	-27.303	-207.631	162.767	220.211
34.22	1687.493	-27.073	-207.913	38.915	246.278
34.45	1685.675	-28.505	-218.413	-0.194	164.249
34.665	1682.645	-25.808	-196.808	48.465	195.289
34.88	1680.22	-24.485	-185.271	7.295	83.060
35.125	1677.796	-23.807	-181.265	8.895	99.948
35.37	1675.978	-27.695	-213.489	18.426	122.973
35.61	1674.766	-29.059	-222.694	43.402	267.833
35.85	1672.342	-24.454	-185.166	27.529	132.374
36.115	1670.524	-26.275	-203.513	36.519	101.918
36.38	1668.099	-27.594	-215.865	93.891	129.815
36.625	1666.281	-27.066	-207.126	16.375	72.795
36.87	1663.857	-27.115	-203.473	169.673	306.010
37.035	1661.433	-28.461	-217.604	101.707	225.729
37.2	1659.009	-27.653	-210.559	14.420	120.117
37.37	1656.584	-26.436	-198.181	41.513	186.382
37.605	1654.16	-27.42	-208.583	12.653	212.545
37.84	1651.736	-26.437	-199.108	45.816	88.216
38.09	1649.312	-25.746	-193.452	11.120	229.224
38.34	1646.888	-24.597	-185.567	56.663	110.448
38.49	1645.07	-25.218	-189.882	50.752	229.680

38.64	1643.251	-26.133	-197.884	19.162	155.814
38.88	1642.039	-27.995	-210.867	40.141	190.773
39.12	1639.615	-25.663	-191.572	57.079	204.403
39.38	1637.191	-22.732	-166.667	154.147	166.611
39.6	1634.767	-29.28	-225.409	50.600	135.419
39.82	1632.342	-26.201	-196.256	96.620	274.244
40.085	1631.13	-24.376	-181.497	124.659	130.142
40.35	1629.312	-26.042	-195.337	32.258	118.299
40.56	1627.494	-25.5	-186.730	24.946	70.300
40.785	1625.07	-25.89	-191.345	4.740	134.888
41.01	1622.646	-26.963	-205.970	47.103	52.810
41.21	1620.828	-26.626	-196.954	98.590	154.700
41.41	1618.403	-25.339	-186.525	57.049	155.606
41.67	1615.979	-25.31	-188.787	18.665	156.273
41.93	1612.949	-26.831	-203.839	68.293	163.566
42.19	1611.131	-26.773	-198.010	22.685	94.509
42.45	1608.707	-27.559	-210.329	56.166	132.164
42.685	1606.282	-25.656	-195.241	93.440	103.755
42.92	1604.464	-31.469	-234.865	12.355	114.465
43.175	1602	-27.115	-199.621	182.890	243.295
43.43	1600.222	-27.971	-209.430	306.278	270.724
43.59	1597.798	-32.022	-243.822	49.149	119.959
43.85	1595.373	-24.617	-180.546	173.233	196.625
44.11	1592.949	-27.894	-209.301	163.268	227.231
44.37	1590.525	-27.608	-209.384	68.997	177.775
44.63	1588.101	-24.199	-184.491	6.761	124.670
44.88	1585.677	-24.643	-184.450	54.422	162.187
45.13	1583.252	-24.916	-184.760	131.646	161.802
45.38	1581.434	-27.483	-204.215	1.064	130.850
45.635	1579.01	-30.257	-229.709	12.521	90.941
45.89	1576.586	-26.9	-205.345	118.495	241.313
46.065	1574.162	-25.766	-196.979	35.737	166.367
46.24	1571.737	-24.746	-185.281	63.350	113.101
46.74	1566.889	-26.961	-201.131	60.336	243.570
46.985	1564.465	-29.013	-218.846	45.179	124.261
47.23	1562.041	-24.188	-183.689	1.479	105.908
47.405	1559.616	-23.166	-174.282	181.153	225.003
47.58	1557.798	-25.238	-191.124	126.068	170.642
47.38	1555.98	-29.049	-219.695	70.988	204.595
47.87	1553.556	-26.232	-197.426	70.244	106.194
48.36	1551.132	-25.294	-191.560	37.300	79.295
48.51	1548.708	-25.812	-193.741	23.005	128.985
48.66	1546.283	-26.545	-199.670	96.059	170.305

48.87	1544.465	-23.999	-178.049	43.898	--
49.61	1542.647	-24.594	-184.849	20.742	--
49.76	1542.041	-27.829	-214.658	91.536	--
49.91	1540.223	-25.841	-193.030	128.260	--
50.16	1535.374	-25.56	-194.642	63.943	--
50.41	1534.162	-25.872	197.120	41.230	--
50.58	1532.344	-26.497	198.230	33.843	--

For chronological constraints & methods, pls refer:

Thamban M., Naik, S. S., Laluraj, C. M., and Ravindra R. (2012). High resolution reconstructions of recent warming using instrumental and ice core records from coastal Antarctica. *Mausam*, 62: 665-672

Thamban M., Laluraj, C. M., Naik, S. S., Chaturvedi, A. (2011). Reconstruction of Antarctic climate change using ice core proxy records from the coastal Dronning Maud Land, East Antarctica. *Journal of Geological Society of India*, 78: 19-29

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