

Gangatic West Bengal Indian Weather Time Scales

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History: I have conducted many researches on the Indian weather and proposed hundreds and thousands of Indian weather Time Scale pertaining to the all Homogeneous Regions, Meteorological Subdivisions, states and districts of Indian which can help tp forecast the weather changes in advance in 1980, Sri G. Surya Rao MLA had sent these Indian weather time scales to the chief minister of Andhra Pradesh for consideration and necessary action in 2004, some consultations were made with the planning department to implement the Indian weather time scale at the directorate of Economics & Statistics department in 2006, some correspondences were made with the environment, forest, science & Technology department for implementation of the Indian weather time scale the same scales were sent to the chief minister of Andhra Pradesh in 2003. And the same was again submitted to the chief minister of Andhra Pradesh in 2006. Many consultations were made with the commissioner for disaster Management in the years of 2008,2009 about the implementation of Indian weather time scale. In 2010, these scales were consulted with the A.P state council of science & Technology in 2008, Sri T. Subbirami Reddy, Honable Union Minister of state had recommended the Indian weather time scale to the Indian Meteorological department for implementation in the services to the country. Later consultations were made with the India meteorological department about the Indian weather time scale during the years of 2008-2008.

Abstract: I have conducted many extensive researches on the astronomical forces and its effects on the earth climate particularly on various regions of the India. The variations in the solar cycle affects and stimulate the earth climate. The moon affects and stimulate the ocean tides and atmosphere too. The movement of axis of the earth inclined at 23 ½ degrees from vertical to its path around the sun affects and stimulate the earth weather and leads to formation of monsoons and seasons etc. So the astronomical forces affect and stimulate the earth climate it may be more or less but it is true. These scales may be taken as a part of scientific study of astronomical forces & its effects on the earth climate.

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Introduction:

In the time and scale of the universe some things from astronomy to atom including living beings have been repeating once in every certain time or period. For example, the south and north magnetic poles have been shifting in every certain period. The sun spots have been repeating once in every eleven years. The lunar and solar eclipses have also been occurring once in every 18.6 years. The seasons such as winter, autumn etc. also have been repeating once in every year in the same month of the year. The periodical menses in the females repeating once in every month.

Construction: On the basis of the said universal facts, I have prepared a time scale with 21 blocks, each block containing certain prescribed cycle of years in which similar calendar years repeating one after another that leads similar weather conditions of those previous years to future years likely repeating every year approximately. The rainfall of the years, have been entering in the scale in percentages or as it is pertaining to month, season, annual wise of the each and every year. If we managing the scale in this manner continuously, we may assuming the weather

conditions of the anterior years on the basis of the posteriors years weather. On the basis of the principle, we can assume that a considerable, of course it may be little chance of predication for an ensuing years by study the data of earlier years.

Studies Carried Out: Many experiments were carried out on the Indian weather Time Scale and it was successfully proved out.

Firstly, see the Indian weather time scale. In this scale, the June, July, August and September months of the summer monsoon season were taken in a table in which the each month is also divided into three parts the Telangana, Rayalaseema and Coastal Andhra regions. The monthly wise rainfall data of the months of the regions from 1870 to till available years are taken in the form of percentages or as it is and entering in the scale pertaining to the region wise of the each and every year. If we managing the scale in this manner continuously, we may assuming the weather conditions of the anterior years on the basis of the posterior years weather.

Example for assuming the dry season or suppose to predict the rainfall situation in the summer season

of the ensuing year 2019: study the 7th cycle in which wet conditions in 10 years and dry conditions in 14 years were occurred in the month of June: wet conditions in 2 years and dry conditions in 22 years were occurred in the month of July: wet conditions in 4 years and dry conditions in 20 years were occurred in the month of August and wet conditions in 8 years and dry conditions in 16 years were occurred in the month of September. On the whole, wet conditions in 24 times and dry conditions in 72 times repeated in the summer monsoon season of the 7th cycle (As a result, there were dry conditions occurred in the 2002 year also). Therefore it is a considerable chance to predict that a dry season will be repeated in the ensuing year of 2019.

Example for assuming the wet season or suppose to predict the rainfall situation in the summer season of the ensuing year 2022: study the 10th cycle in which wet conditions in 13 years and dry conditions in 8 years were occurred in the month of June: wet conditions in 13 years and dry conditions in 8 years

were occurred in the month of July: wet conditions in 9 years and dry conditions in 12 years were occurred in the month of August and wet conditions in 19 years and dry conditions in 2 years were occurred in the month of September. On the whole, wet conditions in 54 times and dry conditions 30 times were repeated in the summer monsoon season of the 10th cycle. As a result, there were wet conditions occurred in the 2005 years also. Therefore, it is a considerable chance to predict that a wet season will be occurred in the ensuing year of 2022.

In the same manner, we can study the remaining All Indian weather time scales of all Homogeneous regions and subdivisions, states and districts of India.

Conclusions:

We can make many more modifications thus bringing many more developments in the Indian weather time scale and its all additional Indian weather time scale.

		June				July				August				SEPTEMBER				OVERALL SEASON				REMARKS		
		T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C		
1	2020	-77.18	-9.5	-54.0	-39.2	+5	-15.8	+4.70	-11.2	-10.8	-35.2	-19.1	-26	-1	-12	-6								
	1992	-77.18	-9.5	-54.0	-39.2	+5	-15.8	+4.70	-11.2	-10.8	-35.2	-19.1	-26	-1	-12	-6								
	1964	-31.6	+21.3	-15.0	-36.6	+108	-13.4	799.5	-17.8	-11.8	+1503	+139	+95.4	+17	+16	+44								
	1936	+31.7	-9.16	-13.0	-14.1	-35.3	-7.00	-12.5	-65.7	-32.3	+7.82	+21.2	-39.2	-3	-29	-5								
	1908	-32.3	-62.9	+69.9	+5.8	-29.4	-50.9	-9.13	-57.2	-25.2	+10.8	+84.9	+48.4	+38	-9	-2								
	1880	+21.5	+15.2	-99	-24.0	-50.2	-46	-60.7	+2.63	-99.4	+56.2	+19.7	-51	-11	-18	-30								
2	2017																							
	1995	-1.01	-11.5	-36.2	-13.6	+6.5	-20.9	-46.7	-20	-23.0	-71.7	-17.3	-49.3	-33.5	-27.1	-16.3								
	1978	-78.2	-7.7	+26.2	-1.17	+57.5	+6.9	+47.0	-13.1	+31.7	+169.0	+100	+8.0	+50	+37	+55								
	1961	+34.0	+27.8	+70.9	-37.9	+32.9	-24.3	-8.35	-4.9	+13.3	+20.0	-49.6	-6.1	+12	+1	+30								
	1939	-38.0	-20.5	-35.2	-44.6	-34.6	-42.3	-27.5	+13.9	7398	-3.95	+81.7	-13.5	-28	-12	-23								
	1922	-12.3	-50.4	-90.2	-27.6	-516	-31	-36.8	-30.3	-42.0	+22.6	-1.2	-48.3	-18	-29	-15								
	1905	-17.6	+8.61	-29.3	-64.4	-62.2	-72.7	+16.8	+103	-10.5	734.8	-58.1	-6.5	-5	-4	-18								
	1883	+60	+23.3	-25.1	-8.24	-23.5	-55.1	+32.2	+36.4	-10.6	+85.1	-32.1	-56.6	+31	-4	-21								
3	2024																							
	1995	+13.5	+29.4	+13.7	-32.4	-21.4	-17.3	+21.1	+96.6	-9.8	-4.49	+51.2	+19.3	-3.6	+83.1	+46								
	1968	-330	-28.3	-38.7	-28.0	-39.4	-38.4	-82.5	-34.2	-99.4	+1.007	+55.6	-26.6	-20	-18	-39								
	1940	-19.8	+24.3	-2.0	+9.24	-159	-34.0	-89.9	-33.9	-18.4	-26.2	+35.0	-21.5	-5	-3									
	1912	-61.1	-53.3	-74.3	+12.5	-20	-5.6	-11.8	+20.0	+15.3	-12.1	+41.4	20.3	-15	+1	+10								
	1884	-38.8	-53.7	-69.4	+40.7	-43.1	-33.7	-23.1	-25.0	-15.3	+65.6	-30.9	+8.1	+12	-48	-1								
4	1999	-24.2	-25.8	-13.9	-23.5	-30.1	-48.8	-2.28	+7.8	-40.9	+25.8	-24.0	-18.4	-9.1	-20	-15.9								
	1982	+515	+59.3	-34.4	+27.6	+0.5	-24.1	-28.6	-66.3	-40.9	+12.4	+17.0	-27.0	+1	-5	+13								
	1965	-51.1	+40.2	-36.6	-44.5	-23.3	-24.2	-27.0	+2.08	-9.7	+80.8	-7.04	?22.0	+10	+3	+3								
	1943	+13.5	-54.8	-20.8	-31.4	-30.9	-35.8	-50.5	-9.5	+27.8	+99.1	+1.76	-14.9	-5	-20	-20								
	1926	-69.7	+32.3	+298.6	-10.8	-33.5	+1.8	-19.4	-31.4	-36.5	-18.6	-36.7	-5.3	-25	-2	-1								
	1909	-6.87	-45.4	-32.6	+0.71	-45.4	-22.4	-35.9	+2.06	-4.5	+1.24	+26	+4.3	-12	+44	+7								
	1887	+20.1	+165	+2.4	-23.5	+5.41	-32.6	?83.3	+133.1	+506	+148.0	+0.16	+31.9	+49	+62	+40								
	1870		+11.5	-64.1		-89.5	-42.4		+50.6	-22.8		-58.1	+25.5	-29	+25	-7								
5	2000	+56.9	+75.4	+47.8	-22.9	-7.8	-34.8	+66.5	+145	764.9	-57.0	-25.1	-57.9	+11	+39	+23								
	1972	70.93	+39.5	-77.6	-42.6	-67.6	-49.6	-58.4	-85.1	+29.9	-37.2	+39.8	+446.6	-1	-24	-34								
	1944	-17.7	+99.9	-0.2	-1.96	+5.6	-17.4	-31.0	+33.6	-35.4	+74.8	-1.92	-10.9	-39	+15	-2								
	1916	+42.2	-35.5	-2.4	+9.79	+12	+36	-24.3	+17.9	-11.5	+92.0	+54.0	-38.4	+19	+45	+18								
	1888	-18.3	-55.3	-56.2	-4.76	-53.2	-32.5	-43.6	-42.2	-57.4	-49.3	+72	-57.6	-26	-14	-39								
6	2018																							
	2001	?14.4	-61.8	-13.4	-6.5	-44.4	-52.0	-53.8	-22.4	-94.3	-28.4	+10.9	+15.1	-25.1	+2.1	-1.2								
	1979	-18.7	-26.9	-23.0	-530	-40.4	-60.9	-50.4	-578	-64.2	+99.3	+37.8	+12.1	-8	-20	-21								
	1962	-48.5	+54.0	-36.1	-24.9	-47.1	+2.5	-27.6	+6.1	-10.5	+103	+4.4	+58.9	+14	-11	+30								
	1945	+17.1	-58.3	-67.7	+14.2	+112	-6.7	-2.23	+17.7	-26.6	+18.9	-15.6	+6.3	+8	+15	-1								
	1923	-80.1	-11.2	-75.5	+3.97	-53.4	-57.5	-54.2	-80.7	-99.4	+73.8	+33.5	-99.3	-17	-29	-13								
	1906	+95.6	+57.6	+180.6	-10.7	-18.0	-34.9	-3.33	+13.8	+10.9	+34.8	+47.4	-45.6	+10	+29	+18								
	1889	-16.6	-25.8	+50.1	+2.55	+43.6	-27.4	+24.0	+28.8	-33.2	+76.8	+17.8	+45.2	+18	-34	+23								
7	2019																							
	2002	-23.0	+16.5	+478	-70.2	-50.1	-69.6	+5.43	-44.2	+64.9	-58.4	-23.4	57.9	-37.1	-31.5	-35.1								
	1985	+19.3	-21.8	-4.6	-15.4	-85.6	-6.8	-44.5	-18.3	-24.8	-39.2	-62.0	-44.1	-23	-20	-4								
	1963	-24.0	-7.7	-36.3	-43.0	+4.5	-22.2	-25.0	+60.6	-7.2	-27.1	-35.4	-4.3	+11	+2	-3								
	1946	+270	-31.6	-22.0	+5.69	-39.7	-9.8	-18.3	-16.6	-30.5	-47.4	+6.4	-16.1	-8	-20	-15								
	1929	-31.6	-20.2	+46.2	-56.6	-44.5	-65.4	-39.9	-69.5	-22.5	+79.3	+58.1	-4.1	-18	-12	-3								
	1907	?22	-19.7	+48.8	-42.6	-19.7	-35.1	2	-74.6	-53.6	-18.4	-1.2	-64.4	-8	-28	-19								
	1890	+1.66	+84.1	+2.3	-7.57	-11.6	-39.7	-25.0	+9.21	-50.7	+78.5	+38.5	-30.7	+10	+22	-15								
	1873	-13.5	-47.7	-48.2	-64.5	-53.2	-39.4	-31.5	-24.7	-16.7	+39.8	+25.6	-39.9	-27	-19	-20								

8	JUNE		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		REMARKS	
	T	R	C	T	R	C	T	R	C	T	R	C	T	R
2025	-14.6	-21.6	-7.57	+22.3	-0.9	77.85	-6.2	-28.8	-1.86	-20.1	-13.2	-8.2	8	+3.2
2003	+11.3	-14.6	-19.6	-21.4	-28.4	+52.9	+47.3	-54.8	+31.1	34.3	+20.3	-43.6	-1	-5
1986	+9.92	+5.6	-19.6	-21.4	-28.4	+52.9	+47.3	-54.8	+31.1	-78.9	-73.9	-20.6	+9	+44
1969	+6.09	+11.3	-37.4	27.99	+11.0	-5.0	-26.4	+53.5	-57.1	-78.9	-73.9	-20.6	+9	+22
1947	-56.9	-16	-46.5	-29.3	+25.6	-3.5	-25.0	+85.6	-7.2	764.9	70.8	+28.8	+35	-3
1930	+40.5	+42.7	+39.8	-46.6	-61.0	-44.4	-41.8	-62.7	-48.7	+410	+35.1	-17.6	-17	-39
1913	-32.1	-65.5	-13.3	+25.3	-18.9	-9.7	-48.6	-69.7	-63.8	-3.9	-3.52	-33	-18	+74
1874	-45.9	+39.5	+7.3	-4.1	+50.6	-13.4	-43.8	-58.1	-59.8	+15	+252.0	+32.3	-2	-12
9	2004													
1976	-30.7	-2.6	-63.3	+77.3	-23.9	+24.8	+2.73	+83.1	+17.4	20	-54.4	-52.3	+18	-2
1948	-69.0	-48.1	-61.5	-45.8	-35.6	-26.6	-58.7	-15.6	-48.9	+66.3	-19.3	-8.1	-10	-30
1920	-39.6	-39.5	-42.8	-40.6	-71.8	-99.4	+55.5	36.6	-47.4	-22.7	+24.3	-35.6	66	-30
1892	+20.1	+16.5	+2.4	-23.5	+5.41	-32.6	783.3	+133.1	+50.6	+148.0	+16	+31.9	+49	+62
10	2005													
1983	+7.42	+17.6	+19.8	+2.92	-88.9	+7.0	+85.1	+77.8	+22.4	+127	+160	+39.6	+51	+65
1960	-29.2	+5.97	-12.1	-39.3	+23.1	-17.2	-67.6	-88.5	-59.9	7105.2	+167	+60.4	-9	+28
1949	-26.3	+51.6	-8.4	-24.4	+13.7	+3.1	-11.9	+29.5	+8.9	+106.1	+109.0	+61.1	+5	+50
1927	+55.6	+25.9	+34.2	+4.10	+26.3	-23.5	-35.7	+46.0	-9.3	+7.67	-94.1	+16.4	+1	+24
1910	+81.6	-22.2	+20	-36.6	+76.6	+2.1	-34.1	+62.9	-17.8	+76.6	+55.2	+4.8	+10	+45
1893	+42.3	+53.4	-13.4	+10.5	+98.2	-55.1	+67.6	-35	-10.6	+15.0	-8.96	-56.6	+45	+16
1871	-41.2	-59.5	+399.6	-44.5	+31.0	+65.6	-77.8	+6200	-99.9	+65.4	+26.6	+714	-36	-7
11	2006													
1989	+71.8	-47.9	-20.3	+72.1	+26.5	+80.2	+2.64	-79.6	-10.5	753.3	+59.8	-99.3	+43	+49
1957	+17.4	-25.4	-1.7	+51.5	+6.11	-0.4	-25.2	-72.2	-55	+28.3	+8	-16.7	+19	-10
1950	-51.7	-12.2	-40.7	-33.7	-20.8	-9.4	-67.6	-7.19	-59.9	+31.5	+11.3	+2.8	+1	-5
1933	+87.3	-76.1	-52.5	+116	-18.9	-6.9	-22.9	+80.3	-29.6	749.7	-48.4	-32.1	+11	-11
1911	+0.78	+3.47	-22.9	-36.6	-26.4	-22.2	-28.4	-59.8	-62.5	+1.00	-22	-13.5	-20	-32
1894	+7.8	-45.4	-8.2	+25.4	+15.3	-51.4	+14.6	-78.6	-31.4	+3.0	-17.3	-0.06	+19	+11
1877	-43.2	+5.41	-70	-75.6	-65.4	-53.4	-58.5	-49.5	-56.3	+15.9	+7.20	+21.4	-39	-19
12	2007													
1990	+48.6	-29.3	-9.3	-39.0	-45.2	-54.4	+49.2	-2.2	+6.1	+10	+32.3	-99.3	+11	+8
1973	+0.31	+0.5	-33.6	-9.41	-29.8	-48.7	+42.2	+15.4	-19.9	-40.0	+10.1	-31.5	+1	-8
1951	-17.0	-15.9	+3.1	-5.77	-7.8	+28.6	-405	-62.2	-28.4	-0.3	-33.6	-31.4	-10	-33
1934	-3.04	+25.6	-4.5	+22.8	+27.0	+5.9	+0.3	-68.0	-18.8	+11.5	-62.4	-40.4	+5	-30
1917	+43.9	+36.3	+87.7	+7.94	-38.8	-38.4	-17.2	+52.1	+3.2	+11.3	+22.0	+30	+25	+17
1895	-17.5	-44.5	-21.4	-7.9	+27.6	-17.4	-15.4	-27.6	-4.8	-60.3	+41.3	+25.5	+45	+2
13	2008													
1980	+66.0	-17.6	+80	-34.3	-28.4	-11.6	-99.9	?017	-6.6	+2.48	-447	-37.1	+5	-25
1952	-50	+34	-37.8	-59.7	-45.3	-45.0	-60.4	-42.1	-51.0	-40.1	-63.6	-53.2	-30	-41
1924	-4.86	-58.8	-56.6	-36.1	-13.3	-45.2	-16.7	-38.6	-32.8	+105.9	+81.4	+7.4	-7	+8
1896	-34.0	-32.3	-22.8	-18.7	-38.8	-29.3	+0.18	-21.8	-25.3	+08.2	-31.2	-16.5	-24	-32
14	2009													
1987	-31.1	-36.5	-53.8	-12.6	-6.2	-53.6	+0.63	+30	-20.9	-52.1	-18.0	-60.6	-18	-21
1970	775.9	-5.1	+41.5	-39.9	-2.8	-39.7	+63.4	+77.2	+9.0	+36.3	+83.0	+477.5	+25	+39
1953	-20.3	-26.5	+0.8	-56.1	+4.1	-40.1	-35.7	-48.4	-20.4	?14.6	+54.8	-10.3	+25	+10
1931	+50	-440	+768.9	+12.3	-2.70	-24.0	+38.0	-26.8	+39.2	+14.3	-33.2	+12.8	+18	-11
1914	+1159.0	-13.6	-7.9	+11.6	-23.1	-19.7	-6.43	+42.1	-31.3	+67.9	+60.8	+44	+27	+20
1897	-34	-42.6	-57.2	+47.5	-9.47	-48.1	-34.6	+32.1	-26.5	+42.4	+12.8	+39.4	-1	+35
1875	-	+11.5	-64.1	-	-89.5	-47.4	+50.6	-22.8	-	+58.1	+25.5	-29	+25	-7
15	2010													
1993	-37.1	-46.1	-58.6	-17.1	+19.3	-36.9	-27.9	+43.4	-40.1	-2.40	+9.9	-1.8	-17.5	-12.8
1971	77.89	-31.3	-32.3	-61.3	-26.6	-57.4	-19.4	-25.4	-24.6	-14.3	-46.7	+5.1	-29	-35
1954	-27.1	-54.6	-9.4	-30.0	+93.4	-4.8	-40.2	-17.3	-26.6	778.9	-52.8	739.9	+24	-10
1937	-50.8	+15.9	-89.6	+10.9	-9.48	-35.2	+43.5	+63.1	-31.4	+11.3	+88.7	+444.8	-18	-11
1915	+99.4	-39.0	+18.1	-15.2	+58.2	-24.4	-8.40	-49.2	+24.4	-12.6	+58.3	-14.9	+10	+6
1898	-20	-37.2	+5.3	+47.8	-30.2	-18.1	-34.6	-42.1	-51.4	+42.4	+106.4	-8.5	+18	+3
1881	-18.9	+15.0	+41.2	-56.7	-78.3	-73.3	-34.2	+75.1	-123	+41.0	+12	+10.4	-36	+5
16	2011													
1994	-29.0	-40	-55.7	-20.0	-98.9	-9.7	+6.71	-10.8	-37.2	-71.7	-71.3	-49.3	-23.5	-34.9
1977	70.93	+39.5	-17.6	-42.6	-67.6	-49.6	-58.4	+85.1	+22.9	37.2	+39.9	+446.6	-39	-24
1955	-49.8	-48.3	-37.6	-55.5	+17.2	-39.2	-16.5	+94.7	+3.2	+29.2	+10.6	+1.0	+35	+20
1938	795.6	733.3	+25	715.8	-34.1	-36.1	+25.8	+13.9	+87.7	+89.8	+81.7	782.2	+48	+58
1921	+44.2	-4.16	-39.8	-66.0	-75.5	+2	-47.2	+45.7	-30.7	+50.6	-23.2	+2.5	-1	+13
1899	-17.2	-85.4	-57.8	-74.7	-88.4	-68.4	-38.1	-37.7	-34.1	-10	+43.5	-22.9	-43	-36
1862	+20.1	+165	+2.4	-23.5	+5.41	-32.6	783.3	+133.1	+50.6	+148.0	+16	+31.9	+49	+62
17	2012													
1984	-34.6	-56.1	-37.4	+0.50	+49.4	-15.2	-58.5	-84.1	-71.6	+24.6	-22	-37.8	-20	-30
1956	76.875	+21.8	+32.8	70.96	+809	+37.8	-30.7	-38.4	-14.3	+503.6	+38	+19.6	+24	+20
1928	+37.3	+21.8	-56.2	-21.5	-38.5	-20.2	-27.5	-17.4	-29.7	+102	-3.44	+9.5	+9	-2
1900	-10.9	-30.1	-47.8	+29.3	+48.5	-19.3	-38.7	-78.6	-63.6	+90.3	+53.8	+10.0	+10	-2
1872	-44.5	-13.8	-0.2	-29.9	-17.7	-18.1	-45.0	-99.1	-9.49	+44.4	+54.3	+16	-25	+4

18	June			July			August			SEPTEMBER			OVERALL SEASON			REMARKS	
	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C		
1991	+42.1	+17.7	+64.5	-11.9	-16.1	-30.2	-39.0	-17.8	-93.7	+1.31	-11.6	+32.7	-9.6	+14.7	+22.6		
1974	-26.6	-5.5	-14.3	-46.9	-12.2	-99.9	-22.6	-20.7	-37.2	+17.6	+10.3	+33.6	-24	+19			
1957	-16.9	+19.5	+45.3	-49.0	-12.9	-30.4	-1.91	-26.6	+21.3	+12.4	-22.4	-12.1		+8	+24		
1935	-6.87	+43.4	-45.1	+11.5	+4.16	-30.6	-31.1	+138.6	+346.3	+51.0	-11.3	-21.8	+2	+35	-24		
1918	-93.3	-45.9	-16.8	-46.1	-56.3	-62.1	-57.0	-38.2	-40.5	+1.00	+18.1	-13.2	-40	-29	-20		
1901	-21.0	-6.25	-40.7	-11.5	-69.7	-43.8	-16.3	+10.4	-42.2	-44.0	+30.1	-28.9	-19	-29	-24		
1879	-8.51	+18.8	+3.2	-27.8	+48.1	-116.5	+31.4	-10.4	-99.4	+56.7	+19.7	-51	-9	-6	-16		
19	2014																
1997	-59.7	+7.9	-65.1	-40.2	-54.2	-37.2	-33.8	-40.7	-48.2	+10.6	+134	+109	-33.2	+14.1	+15		
1975	-15.4	-4.9	+53.8	+7.44	+48.3	-16.3	-10.9	-14.9	-28.5	+149	+31.6	+7.2	+21	+11	+20		
1958	-60.6	-19.5	-42.3	-10.1	-16.7	+22.7	-32.0	+105	-15.9	+13.0	-10.4	-12.7	+8	+10			
1941	+18.0	-47.0	+82.5	-67.5	+578	-70.2	-33.4	-48.3	?269	+37.2	+53.6	+1.2	-32	+8	-5		
1919	+26.6	+6.66	-20.1	-41.1	+57.3	-19.7	-55.7	-80.0	-49.2	+457	+10.7	-26	-32	+2	-15		
1902	-36.6	-27.6	-47.8	-48.6	-13.6	-35.5	-12.1	-55.7	-99.4	+26.3	-13.2	+15.1	-19	-17	+4		
1885	-20.7	+19.4	-4.2	-14.1	+11.8	-31.5	-47.8	-41.8	-67.3	+38.5	-25.4	+5.5	-18	-18	-10		
20	2015																
1998	?1.32	-529	-34.5	-21.5	-58.6	29.8	+15.4	+20.2	+5.1	+49.0	+70.6	+56	-50.9	+37	+25.3		
1981	+36.3	-0.6	-26.9	+1.12	-5.9	+10.0	+7.12	-7.6	-28.9	+105.1	+61.2	+24.6	+26	+10	+25.3		
1959	-4.76	+76.3	+18.3	-11.5	+9.27	+20.5	-34.2	-165	-30.9	-99.9	+136	-28.8	+40	+10	+12		
1942	?4.76	+42.7	-12.1	-7.78	-66.7	-47.9	+22.4	-13.1	-18.4	-44.5	-24.8	+34.2	-4	-20	-20		
1925	6.28	-47.2	+1.0	+2.38	-9.2	-10	-4.93	+19.1	+2.4	-0.54	-18.4	+386	-2	-14	+4		
1903	-25.7	-680	+22.6	+54.0	-46.8	+10.2	+34.8	+30.3	+8.0	+5304	+72	+7.0	+45	+39	+37		
1886	+60.9	+3.88	+25.1	+26.6	+69.4	-4.2	+40.6	+40.1	+55.3	-39.9	+9.04	-99.3	+24	+21	+38		
21	2016																
1988	-14.2	-57.0	-57.4	+10.7	+77.7	+33.6	-25.9	+12.7	+19.4	+136	+33.4	+37.4	+65	+50	+41		
1966	-54.9	+67.3	-32.8	?15.4	+14.3	+32.3	-7.57	+0.5	+6.1	+61.3	+14.8	-27.2	+3	+20	+9		
1932	+13.2	-629	-13.1	?3.97	-24.1	-13.7	+20.1	+22.0	-36.2	+52.6	-20.32	-32.4	+1	-10	-18		
1904	+15	-33.4	-42.5	-4.6	+22.1	-51.4	-69	-83.0	-38.0	+36.9	-39.6	-41.5	-24	-55	-30		
1876	-42.2	-20.8	-33.3	-34.7	73.6	-52.1	-31.8	-42.4	-99.9	-40.6	-71.1	-50.4	-38	-53	-19		

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Exports, in tonnage												
2012												
1934	30.553261	-93.65079	-95.62644	21.21212	-25.56391	124.4477	6.357279	43.98207	-27.00297	25.112628	-988	-100
1956	82.08855	85.18519	144.1606	-54.11255	82.70677	39.17397	-11.4431	4.931598	54.33975	13.81427	-42.0364	-14.0425
1938	21.54175	-74.60317	-86.49635	15.15152	28.24919	78.55853	52.71363	9.314981	-49.0727	44.35917	-99.11504	-98.4375
1900	58.95523	28.04233	-43.08585	44.58874	33.08271	-12.89111	-8.341259	2.936953	121.3279	-60.55257	-99.55253	-12.5
1872	94.02985	41.16884	-81.38886	-41.29304	-25.24168	9.219858	-35.06039	-32.75528	-29.22889	120.0307	-92.0354	-57.8125
1930	-57.01493	-22.75133	-18.9783	-67.31622	-3.003519	-3.133957	40.24158	-2.016645	-3.264095	58.17345	404.4248	-100
2013	63.68857	-26.48413	77.73721	-30.78593	-26.4732	2.048222	11.79275	-13.63636	0	30.16117	-84.51327	1790.625
1991	63.68857	-26.48413	77.73721	-30.78593	-26.4732	2.048222	11.79275	-13.63636	0	30.16117	-84.51327	1790.625
1978	-78.35821	-100	308.0293	-16.65657	3.148378	52.69712	51.14431	32.93854	10.42085	12.42085	-96.46038	-100
1952	295.5224	43.93154	-68.61314	91.99134	91.29968	11.93158	8.960051	-23.23344	5.823442	-75.44129	-100	-100
1905	-17.16418	41.28884	46.71533	21.21212	60.79484	-6.925323	-11.89729	-0.736236	-34.12463	-93.86032	-100	-90.75
1918	-85.02963	-100	-36.86131	8.008658	38.01365	81.72716	-40.55944	21.47887	-29.71068	-90.63008	-99.11504	-36.5625
1901	226.1194	230.6878	66.05839	50.64935	3.007519	-22.77847	-5.848697	-5.409723	0.500472	-45.20308	289.421	-100
1879	-100	71.95767	96.35036	91.99134	-28.78625	-29.0363	-16.68786	-21.99923	-5.378038	-25.63315	-100	57.8125
2014												
1997	53.73134	34.92863	171.7326	150.64934	23.84533	-20.73875	67.00572	57.628246	9.198813	-72.21796	16.37168	496.875
1975	-11.08955	-35.97884	-58.79912	11.47186	-37.7014	-40.75928	12.36491	-0.992318	12.46291	12.66309	15.62812	-100
1958	2.089075	6.878323	-21.35766	27.48918	-32.116	-64.7476	9.027336	-11.65813	29.465288	19.95395	-52.21239	-100
1941	140.29885	-56.81254	-98.90511	-55.19481	-16.32653	72.90449	38.33429	20.23047	-34.7181	91.17421	244.6901	-100
1919	247.0149	46.03175	-68.61314	2.164502	77.76584	38.5899	-10.36236	41.35723	-37.75964	-65.46431	71.23884	-100
1902	-100	-88.35929	37.59124	120.7792	51.77229	-42.72007	20.82069	15.78105	-8.827093	-57.02226	-16.72564	112.5
1885	-91.04878	242.8571	-66.75882	73.17662	24.91944	2.836879	18.08446	37.08707	-5.378038	-35.10315	-11.62812	309.125
2015												
1988	304.4776	164.0212	518.6131	0	-23.73792	-38.88194	-4.164018	-17.31754	-2.037151	87.33691	315.9393	-100
1981	47.01493	258.7884	127.0073	129.6537	178.4103	-1.209846	39.15084	-13.1939	-32.36647	-92.3254	-47.16814	1071.875
1959	105.22739	36.50794	70.80292	-24.74242	-25.02685	-22.90363	-15.85141	3.873239	46.88427	202.5326	-100	-93.1875
1947	82.08955	-17.46032	29.50701	52.5974	-31.81525	34.16771	18.18183	22.5032	51.3774	60.33508	-21.68142	-100
1925	20.89552	16.68781	40.14599	51.25867	-2.295639	-35.71191	7.893563	-20.51857	-43.11117	63.31943	-12.12389	-84.375
1903	32.08955	24.60317	14.9635	-40.04339	-23.84533	-10.59058	-39.93237	-16.38924	-1.4465888	67.531645	-54.42426	-100
1886	-69.41791	-58.4127	162.7737	-82.46753	61.11708	-12.05674	3.782583	-15.621	31.78763	-9.201517	-75.66372	-84.375
2016												
1988	38.89597	158.7303	109.854	-14.06926	22.44858	65.70713	2.823563	-13.22023	-24.48071	-35.14965	44.69027	95.875
2014	161.194	-43.48148	-85.0365	-42.39779	-41.24597	20.23363	-42.0534	19.22816	26.70628	-9.132773	92.47788	3.125
1932	-100	4.529101	-85.0365	-16.66667	153.4909	39.75975	8.264463	8.514725	-29.48813	41.25259	424.7788	-100
1904	100	4.878307	6.934307	-57.14266	67.884	33.50021	30.38779	-9.411012	-41.6543	-57.63622	75.66372	-86.875
1876	-100	-48.35979	39.41606	-34.63103	12.35231	5.548603	36.26828	10.37132	-12.0549	39.14945	84.51327	-100
2017												
1995	35.8209	141.7989	-64.23358	80.30303	240.7088	-25.82395	63.69458	16.8094	81.23345	24.32847	661.0619	57.8125
1978	85.07463	10.05291	112.4088	24.19913	18.47476	4.964539	-22.1868	9.538052	109.1988	34.58121	-52.21239	14.0625
1953	-28.35821	390.1587	-84.30657	-89.19394	-5.370568	48.01335	-34.20216	8.546725	48.6276	-12.66309	95.13279	-43.75
1933	51.45954	177.7778	40.51055	-50.8848	-18.04511	2.711097	19.51685	55.6338	-1.817507	83.825285	69.03655	-73.4375
1922	95.712388	-71.01587	-88.32117	61.68831	-41.56621	183.4293	-21.55372	28.87534	-17.69579	-15.29394	66.81416	60.9375
1905	185.0746	174.6032	291.6058	58.22511	61.58754	-70.83855	69.23077	-10.3073	4.228487	9.746238	-100	107.8125
1883	47.01493	-21.69312	94.16058	29.65368	-8.055854	9.762203	29.24348	3.265045	-47.14353	-85.95318	-86.72566	450
2018												
2003	-100	-41.00529	55.10649	-27.05628	102.7929	53.56656	-9.731087	-22.69526	-25.79377	21.7074	64.15929	-100
1973	28.35821	17.56614	-66.78802	-41.55884	-72.93239	8.385487	-9.372029	-29.18654	-31.82453	-61.16193	53.09735	168.75
1953	-14.1791	-24.33862	-80.29197	50.4129	-6.015038	19.23237	-20.22792	-18.4379	-8.718837	20.72141	-100	-93.75
1945	61.15403	-26.36813	-66.25839	57.57526	34.26423	12.47395	-41.43738	-17.1895	-11.90653	141.7988	-80.06885	95.3125
1923	-100	519.5267	89.05109	-57.57526	0.322234	26.44573	5.433474	50.44614	-63.42582	-51.72628	53.53982	-79.6875
1904	185.0746	521.2804	130.65649	-98.70123	0.75188	20.27534	0.190718	-17.15749	-20.51187	-2.686109	-75.66372	-98.4375
1883	50.74627	171.9623	80.65693	-54.11255	-14.07039	20.15019	-21.84234	-23.71959	-31.63347	-17.88181	434.9558	98.4375

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2012												
1807	203.70125	-93.63078	4.014589	54.67825	41.78303	37.54693	6.125695	35.81946	6.88913	-17.12203	138.3183	-98.4375
1583	-34.33839	15.34132	-90.56394	-63.52636	-1.82594	21.9441	-21.9428	12.9616	-28.24528	-4.221028	-98.13224	-100
1583	-47.01493	-76.81591	-91.9308	21.31212	6.93134	17.31301	-36.30542	-34.12202	-3.225538	-5.52871	-63.23434	-96.1075
1946	-100	-10.13017	-54.0146	190.7597	35.11835	11.0972	4.414323	11.61942	14.50303	21.75748	18.51840	-100
1929	285.83009	12.16911	90.36496	18.30827	-52.52412	3.629537	37.47516	11.77977	-45.16386	92.09513	-100	296.875
1907	-100	57.04286	246.7153	3.679654	-11.38561	44.76429	29.56135	9.967196	13.35112	-94.16731	-100	262.1875
1890	85.07463	-97.39445	30.65693	63.85281	17.98006	51.10959	1.789338	-35.81096	-6.53819	89.68534	95.75221	-84.375
1873	-91.03448	-100	71.25766	2.813853	7.302974	-56.08837	25.39733	-8.994878	54.71068	-25.99478	66.81416	-4.6875
2013												
1992	-39.55724	136.5079	-100	-53.65201	20.83281	-45.51523	11.75168	-20.99372	24.10679	-50.80123	-75.66372	-88.875
1961	-91.04448	-75.66138	-41.59435	-17.661701	-10.55596	-41.56607	21.41475	-11.36234	-9.755193	6.753845	-41.20254	-100
1936	-26.86562	-16.40212	10.21838	-53.29675	128.3566	41.30413	8.010172	-7.010241	-4.710682	-32.61304	-61.27434	-25
1908	107.4623	81.48148	-97.81023	-85.93034	26.53061	48.01836	12.45073	-2.048656	36.53561	-88.11358	-100	-100
1880	-62.68653	299.4709	30.29189	-25.12982	57.67991	42.80315	-12.68277	43.13343	2.670603	41.05909	-61.06195	-73.4125
2021												
1999	-100	-100	95.62044	77.06408	175.725	1.41344	15.32104	26.00493	57.18131	86.95318	51.32043	100
1982	-85.07463	155.67668	794.3798	-70.56217	-62.34307	-14.81519	-21.62475	16.13316	-62.61178	-76.59248	-42.0584	-100
1965	-56.26393	129.1186	97.81022	-23.20667	-50.72073	-1.712349	-0.285038	-7.426376	39.34718	-11.33584	-99.55752	-90.625
1943	220.4493	-83.55788	-93.23942	118.8312	49.30183	-3.385482	39.31333	4.257962	-5.488647	-23.10284	-100	-100
1926	160.4473	-65.65847	118.2482	-60.66036	21.85451	-41.51773	30.38378	35.46735	3.301187	-21.33518	-49.55752	88.75
1909	-15.67164	-70.85947	-31.27007	231.8182	8.183268	17.58965	22.82263	71.97567	4.154303	-24.30345	90.26249	116.875
1887	-88.89397	68.78107	-11.51825	33.54978	12.56713	-31.65529	16.13157	45.38052	6.750742	-81.73446	81.41593	-21.4375
1870												
2022												
2006	211.9403	-25.39683	183.2113	-16.23377	3.653987	-25.57363	14.24603	-17.22151	-12.57418	244.3592	-100	-59.375
1983	-5.970149	116.4031	93.63504	19.04762	20.19134	-26.49191	-33.63069	18.758	-22.06902	22.37145	95.84071	100
1900	-94.07683	-98.4173	35.29199	94.58874	20.35704	-45.88888	19.55262	-4.275252	2.818691	20.72341	94.09077	100
1989	-14.1793	90.47619	32.11679	238.5714	169.3838	3.565327	15.79784	3.617157	20.32641	16.03391	95.46018	100
1977	158.9552	102.1164	-15.15328	93.0303	27.19687	27.70129	20.02363	19.01708	41.46889	63.54366	87.30088	100
1910	5.970149	88.35899	66.05838	20.56377	4.296455	-0.091719	1.438867	26.88689	13.64985	29.31586	-99.55752	-100
1893	46.263818	503.1796	248.1486	151.15152	257.88947	27.60831	-0.1827118	-15.03713	20.8457	18.33625	-97.47788	-100
1871	-100	-74.029407	219.4153	93.45485	114.19331	21.82144	7.224793	24.23175	14.91068	21.41585	-100	-50.625
2023												
2009	-100	-100	-45.60343	-10.45022	36.515987	-21.528116	56.47205	1.403039	38.04629	42.21026	27.87611	-100
1989	98.50348	-76.15048	-15.93433	32.62426	25.62687	37.07128	18.38536	-21.49313	21.36499	-26.7122	-22.12389	118.125
1967	323.1343	-57.14186	88.69513	63.63636	-42.16066	-18.00534	29.50113	33.9041	52.67062	-1.534919	-100	-45.3125
1950	-100	-52.38166	-41.62038	-61.80476	10.53162	43.37839	18.4946	17.86172	31.15727	-25.94894	366.8142	-100
1933	80.41233	142.0636	-31.27037	59.30736	80.77336	27.32582	25.39733	54.9936	7.780318	45.41161	90.26549	93.75
1911	-97.76129	-95.76762	24.81752	-23.80952	17.61547	31.49771	-45.70684	-1.952625	1.668139	28.73567	-93.11504	-100
1894	-97.25128	-30.18173	-86.05635	-32.46753	58.43179	23.86941	26.50685	7.106224	32.46291	5.995186	264.60118	-42.1875
1877	297.01471	226.455	7.6661234	16.28312	20.16308	-14.68502	-1.748252	10.53779	-33.32303	43.66846	33.23039	300
2024												
1995	8.2038155	50.29365	-49.63584	-12.98701	-24.16756	21.69328	19.58047	51.15217	33.12315	-11.34213	-42.0354	-100
1968	-48.93746	-58.20106	-66.05839	28.78788	73.14715	45.39508	25.58805	11.82458	-45.727	-7.444359	188.3115	-95.3125
1947	60.44776	19.04762	28.68612	75.10823	5.048335	-24.73343	16.28202	-2.016943	-4.25905	-21.11538	45.57522	587.5
1912	90.29853	61.50476	124.4526	27.70561	4.833512	-16.77035	21.67833	-10.26248	50.37092	-30.15168	276.1052	-100
1884	88.58208	-28.04783	-82.48175	-4.761905	32.68306	-13.22549	20.54723	-16.30384	2.114243	17.88181	-100	-93.1425
2025												
2001	97.01453	7.407407	177.0073	-27.03675	11.70794	10.34527	20.85188	1.952573	-43.61573	188.1611	-64.60177	115.625
1985	-32.63583	-31.43915	-74.45759	23.80937	43.50161	-17.53382	-0.026446	-18.34833	21.55049	23.10728	351.3274	195.35
1963	-76.1194	74.80317	-31.38846	61.77485	9.881867	-42.71344	-32.58106	17.7393	17.61809	64.00614	7.0179645	-92.1825
1943	-60.44776	-14.04762	38.48612	-25.10373	-5.048335	-24.29345	16.08092	-2.016443	4.327005	16.88411	550.385	-100
1935	-97.01453	-27.75132	-18.1781	-47.31222	-3.007519	-3.111333	-40.24128	-3.014445	-3.264933	58.13345	404.4248	-100
1933	-30.00569	312.5661	31.18646	-81.76471	39.38627	108.47795	31.08075	-5.951325	-33.299919	1.688411	36.54867	1.3425
1911	59.47661	121.2604	359.854	-61.99134	105.80302	-35.71133	-4.769746	24.45583	-30.03672	90.10302	51.32243	-100
1874	140.3985	131.2129	34.45355	-47.61235	-21.05263	17.41846	-45.40814	-18.18183	-10.75663	104.9885	-43.0354	-100

Georgi-Bel Snydal

2009	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1987	-88.30593	-68.78307	-27.51825	39.54578	12.56713	-31.63599	16.1157	45.39052	6.750702	-81.73446	31.91593	-23.4175
1988	-17.16418	-16.42013	38.45715	-78.78788	-18.43476	24.72326	5.524027	-26.30443	82.91069	71.32375	13.71681	-100
1989	115.3731	19.53632	-88.32117	-41.59138	-42.85714	28.69031	9.428373	20.55038	-5.5640534	-40.98235	264.60118	-100
1990	-70.14025	408.4456	23.9902	-60.80626	23.41568	-38.70503	25.66434	9.857873	-16.98813	61.78951	143.36228	-93.75
1991	-100	96.82554	-29.92701	10.18861	155.4242	1.209846	23.53372	-30.48176	38.58504	64.69585	-100	245.93276
1992	-41.29104	69.31213	127.0073	65.55409	23.44888	26.23446	-3.883026	3.457106	-28.41246	53.72218	32.74336	-93.625
1993	93.252073	-65.60847	-67.88321	36.14719	67.34694	31.66458	-2.479335	-4.065301	-21.55045	38.21949	-100	-93.4375
2000												
2001												
1994	-77.63139	35.71429	144.8905	131.3893	58.00215	44.68085	-2.034579	40.52495	88.09347	8.503279	30.53997	-100
1995	87.33343	-14.28571	-73.35766	289.2288	41.03115	10.6383	94.58668	73.47964	8.382789	55.10361	41.59292	-100
1996	-34.32816	-68.75297	-58.54035	86.79534	-11.49302	-25.53191	-33.2039	-4.813343	-3.338279	48.50345	-999	535.93175
1997	-100	575.1123	-69.70803	71.64932	57.67991	16.06174	-14.11316	7.554417	23.44214	0.997698	37.28761	-93.1875
1998	JD.803552	-42.85714	158.5401	-31.23887	44.75349	4.841288	-18.53147	-18.53393	5.378338	-20.8349	184.51133	-100
1899	-44.77612	-66.13757	-98.17518	-44.33729	-6.444683	73.42511	-2.415366	28.07298	6.973094	57.55948	-100	-93.75
1881	-94.53239	94.70899	134.6715	-28.11863	61.43931	29.11973	59.94954	49.10371	-42.5816	10.38196	47.34613	-48.875
2008												
2009	-14.77613	181.4813	-78.46715	35.73429	171.25881	-9.345015	20.24793	-27.1767	39.46888	-71.79125	-88.0531	-100
1970	-90.39851	125.92559	91.90038	-67.31659	-76.15467	-46.55695	10.40178	70.93987	-25.96429	41.86725	83.62837	-100
1994	341.791	11.64021	27.71323	34.19913	-60.58023	94.32624	30.57851	51.63252	38.03838	19.49348	-100	-100
1995	82.06855	39.41793	-68.36511	1.731602	-43.3942	68.88605	-19.45963	6.017906	29.52527	147.2755	798.7301	-93.75
1996	71.64179	110.0529	-63.13866	-1.731602	-2.700323	50.98836	27.42238	80.28159	-35.49331	63.62301	24.95575	-98.4375
2000	-78.35821	262.4339	29.19708	-75.55368	15.44526	-18.81519	134.1132	24.64789	62.31454	43.05905	46.46018	-100
1990	-100	334.8677	333.5766	117.0556	62.15038	26.6166	17.80038	-35.24338	22.80157	40.67338	144.24778	-45.3125
1993	-86.56716	-49.79545	181.0719	-48.91775	35.73469	5.596321	-11.15957	-0.256082	66.91395	49.11742	7.079646	400
1994	-100	151.45599	-63.20346	-23.09345	-3.821565	-6.706929	-23.03939	-20.06577	14.81197	62.18898	-100	-100
1994	69.40299	12.60841	-98.54015	-17.74887	-44.68314	11.84834	-34.36109	-8.88165	-28.59199	-37.14605	52.71239	250.375
1995	-100	71.95467	-43.08569	-44.37229	89.90333	66.12432	15.8164	-25.22407	-25.59347	218.1888	88.93885	-100
1996	56.37615	39.41793	-58.79311	14.50216	2.579873	11.63955	-24.06409	-34.76312	-34.23393	25.17268	98.23888	-98.625
1998	47.01493	20.63492	35.03855	27.05638	69.49517	44.86060	-23.03692	26.98454	7.789318	26.247312	599	65.875
2011												
1994	58.20896	216.3331	-37.95653	58.65801	30.50483	52.60743	36.77586	31.42766	-38.13086	-2.931063	41.15044	-100
1977	-17.16418	-0.529321	-68.61314	61.50476	66.20988	44.29741	44.08773	-2.784291	-47.13938	-30.95165	121.2989	503.5
1995	-85.07463	-88.33971	-67.68221	-24.89177	-45.02426	-20.06053	13.93992	12.50013	-31.37682	23.17328	346.0177	-45.4075
1998	41.79104	79.68113	-97.08029	-91.34199	147.04662	-21.9841	-19.73935	21.5749	-15.60831	-36.60783	35.38628	-100
1999	172.3881	-81.37566	-57.66423	56.39841	-42.17186	7.509387	-8.10393	33.54673	28.30119	-47.42903	-100	-100
1999	38.08097	38.62434	92.20073	7.575158	28.88258	27.53614	54.06898	-18.18182	-2.448801	-22.03693	-100	40.5
1999	-100	71.95767	6.70438	-8.008658	69.17293	4.7136	15.92498	-2.036845	-16.24829	58.17395	23.85281	-100
2004	78.35821	-30.42228	-44.16058	27.05638	25.56291	20.56338	-22.50477	19.81434	-11.23887	103.4536	-100	87.5
1979	-100	64.55026	-11.31387	6.080608	44.03867	-43.22066	17.84148	-18.81202	-19.58457	55.35384	75.66332	-100
1993	680.593	112.69884	77.00773	0	48.87218	-19.44897	13.80458	11.49168	-2.260611	16.88411	550.885	-100
1999	-300	29.36508	448.5401	-64.71861	-9.667025	50.35463	21.26888	1.072983	-34.23391	27.47506	-98.67932	-100
1999	-300	60.84656	-100	-25.32468	-14.03089	-2.044222	-31.48853	-44.91037	-20.51187	-21.10514	284.5133	-100
2008	706.7154	-5.820106	-79.19708	-1.1946052	5.800215	44.47228	-5.278542	11.54033	-12.46291	-16.88411	-100	-100
1990	0.746209	9.52381	151.26348	-67.56537	38.34586	20.06875	20.21025	24.43662	-43.9911	3.633807	-37.38613	-90.625
1992	-47.53731	-89.41795	14.5633	77.20653	-24.4898	25.74051	30.88441	-0.096031	-16.54303	62.54757	-48.03805	-100
1994	-66.31791	63.06878	-53.17518	-16.66667	-39.08774	24.46723	-30.92118	-20.10243	4.896147	-34.38219	225.2212	-100
1994	-97.76119	-30.68783	-88.49635	-32.46753	-58.43179	20.85941	26.50985	7.106274	-37.46291	9.996188	264.60118	-42.1875