

## Punjab 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 7<sup>th</sup> 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 7<sup>th</sup> 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 10<sup>th</sup> 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 10<sup>th</sup> 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			
1	2020																					
	1992	?7.18	-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	-20.8	-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	-38.2	-44.6	-34.6	-42.3	-27.5	+13.9	2398	-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																					
	1996	+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	-5	-3						
	1912	-61.1	-53.3	-74.3	+12.5	-20	-5.6	-11.8	+20.0	+15.3	-12.1	+41.4	?0.3	-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	+5.15	+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	283.3	+133.1	+506	+148.0	+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	264.9	-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	+33.9	+446.6	-1	-24	-34						
	1944	-17.7	+99.9	-0.2	-1.96	+5.6	-17.4	-310	+33.6	-35.4	+74.8	-1.92	-10.9	-39	+15	-2						
	1916	+42.2	-36.5	-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	-28	-14	-39						
6	2018																					
	2001	214.4	-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	-35.3	-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	722	-19.7	+48.8	-42.6	-19.7	-35.1	?	-74.6	-53.6	-18.4	-1.2	-64.4	-8	-28	-19						
	1890	+1.86	+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						

	JUNE	JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER	NOVEMBER	DECEMBER	REMARKS
		T	R	C	T	R	C	T	R	C	T	R	C				
8	2025	+11.3	-14.8	-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	+5.6	-19.6	-21.4	-28.4	+52.9	+47.3	-54.8	+31.1	-34.3	+29.3	-43.6	-1	-5	-3	
	1966	79.92	+6.09	+11.3	-37.4	77.99	+11.0	-5.0	-26.4	+53.5	-57.1	-78.9	-73.9	-20.6	+9	+44	-22
	1969	+6.09	+11.3	-37.4	77.99	+11.0	-5.0	-25.0	+85.6	-7.2	264.9	70.8	+28.8	+35	-3	+19	
	1947	-56.9	-16	-46.5	-29.3	-25.6	-3.5	-41.8	-62.7	-48.7	+410	+35.1	-17.6	-17	-39	-8	
	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	-8	
	1913	-32.1	-66.5	-13.3	+25.3	-18.9	-9.7	-48.6	-69.7	-63.8	-3.9	-3.52	-33	-18	+74	-17	
	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	+14	
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	+7	
	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	-19	
	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	-38	
	1892	+20.1	+16.5	+2.4	-23.5	+5.41	-32.6	283.3	+133.1	+50.6	+148.0	+16	+31.9	+49	+62	+40	
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	+50	
	1960	-29.2	+5.97	-12.1	-39.3	+23.1	-17.2	-67.6	-88.5	-59.9	+105.2	+167	+60.4	-9	+29	+12	
	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	+47	
	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	+23	
	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	+22	
	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	+19	
	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	-18	
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	+42	
	1967	+17.4	-25.4	-1.7	+51.5	+6.11	-0.4	-25.2	-72.2	-55	+28.3	+8	-16.7	+19	-10	+2	
	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	-9	
	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	-5	
	1911	+0.78	+3.47	-22.9	-36.6	-26.4	-22.2	-28.4	-58.8	-62.5	+1.00	-22	-13.5	-20	-32	-18	
	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	-7	
	1877	-43.2	+5.41	-70	-75.6	-65.4	-53.4	-58.5	-48.5	-56.3	+15.9	+7.20	+21.4	-39	-19	+21	
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	-2	
	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	-21	
	1951	-17.0	-15.9	+3.1	-5.77	-7.8	+28.6	+405	-62.2	-26.4	-0.3	-33.6	-31.4	-10	-33	+11	
	1934	-3.04	+25.6	-4.5	+22.8	+27.0	+5.9	+0.3	-68.0	-16.8	+11.5	-62.4	-40.4	+5	-30	-1	
	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	+38	
	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	+19	
13	2008																
	1980	+66.0	-17.6	+80	-34.3	-28.4	-11.6	-99.9	+2017	-6.6	+2.48	-447	-37.1	+5	-25	+20	
	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	-39	
	1924	-4.8.6	-58.8	-56.6	-36.1	-13.3	-45.2	-16.7	-38.6	-32.8	+105.9	+81.4	+7.4	-7	-3	+8	
	1896	-34.0	-32.3	-22.8	-18.7	-38.8	-29.3	+0.18	+21.8	-25.3	+0.82	-31.2	-16.5	-24	-32	6	
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	-33	
	1970	275.9	-5.1	+41.5	-39.9	-2.8	-39.7	+63.4	+77.2	+9.0	+36.3	+83.0	+477.5	+25	+39	-5	
	1953	-20.3	-26.5	+0.8	-56.1	+4.1	-40.1	-35.7	-48.4	-20.4	+214.6	+54.8	-10.3	+25	+10	-3	
	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	-12	
	1914	2159.0	-13.6	-7.9	+11.6	-23.1	-19.7	-6.43	+42.1	-31.3	+67.9	+60.8	+44	+27	+20	+18	
	1897	-34	-42.6	-57.2	+47.5	-9.47	-48.1	-34.6	-49.2	+24.4	-12.6	+58.3	-14.9	+10	+35	-2	
	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	-6.3	
	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	-10	
	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	+19	
	1937	-50.8	+15.9	-89.6	+10.9	-9.48	-35.2	-43.5	+63.1	-31.4	+11.3	+86.7	+444.8	-18	-11	-28	
	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	+21	
	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	-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	+4	
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	-21.4	
	1977	20.93	+39.5	-17.6	-42.6	-67.6	-49.6	-58.4	-85.1	+22.9	-37.2	+39.9	+446.6	-39	-24	-34	
	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	+3	
	1938	295.6	733.3	+25	+15.8	-34.1	-36.1	+25.8	+13.9	77.7	+89.8	+81.7	282.2	+48	+58	-45	
	1921	+44.2	-4.16	-39.8	-660	+75.5	+2	-47.2	+45.7	-30.7	+50.6	-23.2	+2.5	-1	-5	+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	-32	
	1882	+20.1	+165	+2.4	-23.5	+5.41	-32.6	783.3	+133.1	+50.6	+148.0	+16	+31.9	+49	+62	+40	
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	-23	
	1956	26.875	+21.8	+32.8	20.96	+809	+37.8	-30.7	-38.4	-14.3	+503.6	+38	+19.6	+24	+20	+40	
	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	-5	-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	-12	
	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	

18		June			July			August			SEPTEMBER			OVERALL SEASON			REMARKS
		T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
	2013	+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	
	1991	-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		
	1974	-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	
	1957	-6.87	+43.4	-45.1	+11.5	+4.16	-30.6	-31.1	+138.4	+346.3	+51.0	-11.3	-21.8	+2	+35	-24	
	1935	-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	
	1918	-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	
	1901	-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	7269	+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	74.76	+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	+87	
	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	?39.97	-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	

		param												
		Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	
1984	-90.10983	150.24331	111.49918	81.264463	68.076602	24.27885	18.712036	14.222494	11.131821	9.7135023	7.1153385	-7.337973		
1985	74.12582	-68.48738	42.11213	60.38058	99.35897	12.25962	17.38801	31.61766	79.86315	541.01382	92.30268	66.891389		
1986	-1.841932	-15.631095	92.17933	-47.10741	87.17949	25	47.19873	29.46058	39.8827	96.313364	535	133.1081		
1987	53.84915	75.21008	91.00391	86.77086	33.97426	-45.29422	9.565596	105.7099	218.1818	-100	-535	104.6797		
1988	1.831567	25.61005	-45.26778	28.09917	54.48718	17.25962	47.75158	40.289173	26.73118	97.235023	295	18.24528		
1989	17.71612	10.5042	-91.13423	23.96694	-40.18467	11.289423	33.77378	-70.8998	15.34707	92.656728	84.61518	16.71602		
2013														
1991	-100	181.71665	-72.89029	25.710248	-32.88231	111.29881	-45.71367	1.422644	-51.6129	94.470896	-100	122.973		
1992	88.73338	76.43059	-46.74055	75.03286	-32.25128	34.66345	-9.038855	42.49471	78.45462	-100	-100	27.08703		
1993	295.6344	73.57941	-60.49544	-31.8841	-17.94862	-57.69921	2.317919	5.401189	26.68622	36.267281	84.42538	139.4595		
1994	155.6773	78.57143	89.70424	293.08286	-26.78205	-85.52885	14.13347	-11.6993	67.16657	-77.880184	142.1877	25		
1995	88.14298	97.889916	-5.9997343	334.9981	-88.71395	76.58674	-77.537	10.19863	-71.35875	-100	21.15385	-80.27027		
1996	101.4652	107.563	-63.05993	23.565372	106.4103	-38.56711	8.136535	22.64375	66.76442	93.162589	-100	79.75973		
1997														
2014														
1997	94.11915	85.711429	-67.40548	97.52066	82.68931	187.4513	68.44669	13.29555	67.74193	-100	100	25.35135		
1998	53.11112	56.46218	-71.29873	66.94215	3.205128	67.78848	23.57294	34.87894	290.3715	98.617512	100	-100		
1999	67.89177	81.513361	-80.27184	25.20661	-100	76.20192	-28.11889	33.90614	269.2082	71.732719	100	231.0811		
2001	87.54575	62.18487	88.52672	99.17355	-6.410256	127.5952	-18.18758	6.938348	-61.5914	82.949399	100	29.75676		
2012	229.5421	51.88087	-83.3338	34.549515	29.48718	-85.13934	3.688076	25.62512	58.45852	-94.617512	39.61528	231.0811		
2002	-100	95.79652	84.61538	1.3057285	110.89794	18.34615	-34.6273	33.66934	20.82111	-51.456221	-100	-100		
2003	162.77711	72.18808	-88.48348	110.7918	348.7179	-74.51931	-49.63002	27.14878	-78.49467	97.235023	-100	232.973		
2013														
1998	98.5348	158.41038	-61.77271	24.38012	95.12821	37.64471	38.31926	-18.31654	92.37532	178.80184	-100	-100		
2001	104.0103	17.64705	28.61118	85.95641	69.230177	-43.02485	1.39108	22.29174	79.86315	45.313344	813.4615	-100		
1999	52.34025	2.30088	87.61408	12.19008	48.71395	-43.26921	25.31712	19.29846	26.19286	24.881293	296.1538	-100		
2003	20.87913	162.18489	37.44459	26.56628	3.205128	11.53846	4.704012	57.62535	30.80303	26.958925	-100	164.2679		
2005	26.16033	97.85718	98.95672	37.19008	37.82051	158.4135	69.50317	6.461134	90.01584	63.59442	98.01692	-100		
2007	-2.183849	95.63866	-27.1794	47.60331	23.64103	-89.58348	22.68013	20.68761	42.30649	58.003918	-100	25.81081		
2008	88.73338	81.10938	-13.95046	29.33884	98.71395	268.62288	38.06550	40.18968	77.51711	15.120424	67.30669	36.21677		
2014														
1998	84.56168	26.42059	-47.58801	85.95641	77.5691	2.163943	36.15222	4.122228	288.561	47.235023	61.38662	175.6757		
1999	99.6337	44.36975	73.14211	73.55372	111.5285	165.8554	-27.00896	7.64877	42.52649	-14.101382	-100	88.51335		
2001	33.33333	34.81399	56.95158	15.33713	-22.429	-43.52952	10.51707	16.1824	44.32001	44.700241	99.15385	149.3341		
2003	9.53381	91.27731	79.45845	80.08284	-13.46154	-49.51873	-45.96195	32.54758	29.03226	40.2300415	81.46154	83.91392		
2006	78.75458	47.12882	-54.7588	263.30595	-8.333333	-74.35913	30.33827	-38.13403	-61.30311	44.238611	-100	-100		
2017														
1995	105.63608	210.50492	-75.74567	47.10244	-45.29749	60.51683	-4.052054	29.12167	111.7307	-94.610241	65.38662	81.75576		
1998	81.18848	5.862753	-2.864318	-39.68347	-71.69967	138.9473	24.69395	22.11025	-11.31938	32.165385	24.86415	-58.94935		
2001	100.36663	30.162802	-92.43807	51.23567	-47.17949	31.45638	29.380122	43.30413	5.186344	16.129423	-44.230177	-60.410481		
2003	-67.62667	153.76115	-17.34029	-51.23567	-43.15215	12.58077	-51.24613	53.41639	-55.31523	-54.430046	-100	-100		
2005	-2.022308	33.35294	93.43546	83.47107	-48.24359	-48.11373	-75.052385	-55.16884	41.54448	-68.473263	-100	147.473		
2006	104.2857	61.36471	69.36115	96.69471	-85.24359	-68.02885	-36.31028	25.21458	-5.326344	-97.235023	-100	25.13514		
2008	156.7366	93.69348	-90.4829	53.71901	111.5385	-77.64423	35.8355	58.20988	33.60124	97.235023	112.6933	-15		
2018														
2001	25.51282	91.59564	87.22295	185.4545	225	127.40388	23.30352	-60.48607	-59.43104	-100	100	-18.86486		
1999	39.04762	134.87315	36.11473	33.8843	32.69323	0.961528	-11.94593	68.04969	-51.6129	-80.861051	65.38862	-72.93797		
1997	10.25691	35.71142	28.68318	16.512803	-71.13385	-24.75962	23.0444	23.05888	277.4682	-66.159447	28.89615	99.17437		
1945	183.4066	100	25.09728	9.917055	-38.20513	24.75962	23.0444	23.05888	277.4682	-66.159447	28.89615	99.17437		
1993	55.31136	700.4252	91.6958	12.39669	194.87118	-30.76973	21.35507	80.61629	88.93406	28.753456	-44.230177	186.1351		
1996	81.31868	267.6471	28.68318	81.81818	-79.48718	-4.480769	-46.36021	8.730478	79.17889	-100	-100	90.54104		
1889	121.6117	288.7153	93.56714	77.68595	58.33333	14.66396	0.4755889	15.47125	83.38221	90.539171	-100	-100		

Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2019											
2002	-90.84248	12.64604	-47.39838	-2.476239	112.6205	4.336623	-44.71389	-34.70549	44.77028	92.165899	-100
1985	87.17949	93.68048	-47.17213	-35.06041	-48.71395	21.15888	23.48773	9.036024	67.25318	133.64056	-88.46154
1963	300	52.52101	-53.71528	-35.05041	51.92308	34.375	-29.15138	14.76993	39.8827	94.930876	15.38917
1996	93.77288	22.74681	43.43603	-77.68949	35.89744	70.19231	-36.4222	-14.5821	-96.56993	58.535346	-88.46154
1959	15.13402	96.13186	-100	-42.14876	50.18463	14.66239	-15.53331	-36.51452	-97.76637	94.101382	-100
1937	10.04753	40.7.5832	-29.58695	28.7.6033	12.43159	33.24038	51.69133	40.30731	97.66867	95.151705	-100
1930	-78.75158	76.88076	68.44831	-1.958678	35.81244	38.07602	4.439746	7.943284	84.11412	68.136659	1.923077
1873	81.58768	100	89.1.1601	95.124132	93.18374	94.13962	10.18735	-16.71608	-15.34709	41.213825	-100
2020											
1992	83.88078	85.54527	-77.70535	-71.00438	0	7.650308	39.209373	16.535802	-40.89927	87.557604	711.62973
1964	-64.10256	88.03545	85.26728	-42.14876	51.92308	-73.21151	20.453	47.59999	30.30393	-100	-100
1936	-55.9307	144.3118	73.53375	-19.56826	61.53848	121.5096	1.012685	7.053042	-46.52981	37.718854	-94.23077
1998	55.9307	59.66188	-99.73004	208.3068	32.69213	-79.32692	-52.11416	128.0579	-55.66355	-100	-31.92308
1880	70.32967	140.33151	-100	95.04132	84.71359	163.625	53.24101	71.84361	-68.32841	100	-12.69231
2021											
1999	87.54579	73.16624	93.62558	-95.86777	85.89744	45.29538	24.53552	9.475015	-21.21112	94.930876	50.38947
1982	17.45421	-6.722588	17.52218	306.8595	185.2564	51.20192	-47.14588	27.52862	-96.42155	66.359447	155.3692
1965	-41.71795	0.8940336	-77.11083	123.1405	166.66817	93.96038	30.56029	48.19216	-94.62166	96.734154	252.6923
1943	110.3697	93.21731	88.16597	-33.8843	-35.25941	-50	-26.80752	26.42206	-61.27566	-59.028341	-100
1926	-37.72894	68.06773	-37.54689	71.07418	107.5641	-92.78846	3.776256	47.03653	-47.99669	-89.539173	-75
1926	26.00758	32.50512	99.184962	346.781	81.91943	84.61518	10.73339	10.15413	100.391	94.420345	-100
1982	29.10403	14.181723	69.21597	-10.74148	470.9231	-36.05768	-79.54545	54.21153	90.90009	14.285714	88.46154
1870											
2022											
2005	114.2857	102.27331	67.52585	-55.37119	-91.65663	64.18269	-71.71124	-32.30587	2.248189	-92.136728	-90.38467
1983	136.26317	16.80322	-68.59885	208.3471	233.3333	-41.58954	-30.44373	18.43509	-44.52478	-26.14562	-100
1960	-45.89945	-100	61.66751	-62.12692	-87.12949	15.38942	28.69979	38.70777	-89.61813	-98.417513	100
1949	-41.1216	153.28113	93.48111	-60.11068	-48.38992	14.93085	18.38173	-45.15388	-47.80381	94.930876	-100
1927	-38.52348	53.10084	78.74837	-50.41123	35.89744	43.15601	5.496289	30.41409	-51.18671	49.829493	-17.30763
1915	3.682004	-72.62008	-98.69162	-47.93188	41.41026	168.18165	-24.78828	41.67361	-17.70772	35.413737	-100
1891	183.1502	243.6975	74.31551	18.52393	162.805	190.3854	32.55814	-60.64033	140.00388	-100	-31.2973
1871	85.71412	205.8882	-100	-75.20061	35.89744	106.49304	-80.50909	-81.33553	-29.70591	-100	-5.405405
2023											
2006	-65.30147	86.97475	39.32203	97.52066	304.93258	32.93369	-7.715702	-39.41089	3.325806	75.563124	36.97308
1989	57.74725	-67.73029	62.18224	81.81818	-46.07932	10.57662	2.854121	-6.935388	63.44286	-98.417512	110.893
1967	-55.60494	46.21849	1.654915	-100	90.38482	-77.16346	3.638478	55.77021	-43.89052	1.3043475	-71.07699
1950	85.81219	13.41533	-49.89179	46.77686	51.53895	65.14423	2.875264	32.18231	394.3011	-100	-100
1933	-78.38828	4.201681	56.04258	49.58578	74.48718	-26.48073	-0.053894	106.9354	312.219	-15.760155	53.84615
1913	280.9524	-66.80672	42.11364	-55.37128	38.21712	88.74192	88.31926	-30.46483	-59.50123	-17.768013	601.9151
1894	251.6484	24.38975	-64.03546	56.19821	-33.25681	707.9323	20.37421	-4.505039	32.16031	-100	15.38467
1877	143.5887	200	-69.4719	185.124	33.13322	-37.40385	50.05091	82.0984	77.71201	29.493088	508.8464
2024											
1996	60.80385	305.042	-21.70795	14.87603	-82.41131	344.9519	-45.048183	-3.497333	15.83576	9.7165899	-100
1968	-73.80932	40.3563	-45.18905	85.17397	-91.65663	5.760221	15.22484	5.097807	-99.89485	-30.414047	-75
1947	24.90842	40.75163	-89.17862	-100	-44.42129	93.50962	63.003213	29.77475	200.01218	88.473263	100
1912	84.61533	79.81153	9.17731	100.06009	-38.84615	-81.75	-4.1.5426	21.67315	-67.36558	-100	298.0.029
1884	51.65958	18.65549	-78.80875	25.411041	56.61026	64.66246	7.610994	22.58447	31.79212	-41.915484	-100
2025											
2001	22.71062	311.80265	77.41572	50.41132	-60.89764	107.3327	-17.752643	24.36277	1.173021	-99.589171	-75
1988	94.50649	56.30252	63.75489	71.072418	133.9764	176.2031	27.06131	-11.20312	59.23754	47.718894	94.23007
1969	37.31364	2.10084	68.4785	-14.87601	46.51282	16.77835	-12.54.057	-35.70392	-28.174731	-88.940092	13.46154
1947	24.90842	-60.7563	-89.17862	-100	-44.42129	33.22032	-62.26211	33.77975	202.0528	88.473263	-100
1930	17.73632	10.5047	-31.13423	23.96624	-40.18462	11.09423	33.77378	-20.8288	-15.34702	90.626728	50.389462
1913	-96.6044	136.1345	31.29824	95.04132	212.3755	37.08264	32.63939	12.50791	-86.51026	95.391705	1.760221
1891	223.4432	28.65546	0.012647	16.52803	64.74315	-11.36528	-44.56312	51.71517	-49.75563	66.510276	50.389462
1879	34.43223	51.13281	-70.40417	64.46281	54.87175	111.2081	52.16302	57.61071	-32.23635	100	-100

runjob

2006	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2009	-25.30403	-18.05773	-69.23077	-10.7438	476.9231	36.05769	-79.34543	-54.71251	-50.90029	14.285714	-88.46354	-72.97297
1970	109.6923	-21.11293	89.43937	91.73554	19.37175	234.1346	-56.31638	71.58026	-7.135875	82.02765	-399	-100
1983	73.62637	93.63748	-100	12.39668	50.38463	0.488769	67.60043	-11.91464	-15.91352	-100	-92.39789	-95.77007
1931	45.28755	14.28573	-70.66493	-73.55337	10.85794	-82.45192	0.317175	17.22584	-29.13001	34.101382	-199	98.64806
1914	31.26813	30.2521	-81.70274	323.1405	41.68667	43.50962	45.19007	-54.71251	98.24047	109.21669	94.33922	-41.89189
1897	16.48352	33.61349	89.91917	153.719	-56.452076	-21.07692	27.17158	4.386481	67.05267	92.16889	-399	55.40541
1875	-100	16.38655	88.95638	-100	42.94873	-54.08654	24.385375	37.96668	266.0802	23.041475	-100	-62.83091
2007												
2010												
1958	61.93407	21.84874	-45.74112	46.18009	98.15185	47.11538	184.8833	-85.95139	16.81329	-100	-84.61539	-100
1971	-74.72527	35.4958	97.65819	-27.33233	131.2949	89.42.908	26.33848	124.4813	209.6246	92.636728	11.53348	-100
1954	11.76471	-44.68085	-51.67156	269.697	-44.02985	-47.31183	594.0476	-169.0476	91.56007	7.560159	-833.1311	11
1937	-29.48718	336.9748	84.22402	255.3319	-12.82051	39.90385	7.452433	83.27466	-47.12549	62.672811	-90.18452	80.40541
1915	41.50103	157.1473	-26.72751	31.40486	-60.88744	52.40385	-77.25193	56.58684	29.83427	5.9867034	-100	81.75616
1898	41.83402	367.8993	-100	97.17066	-14.70358	41.10577	29.58724	68.16111	36.79505	-100	-399	143.2437
1881	-89.51729	26.41176	-20.8605	14.04956	24.35859	154.20077	72.14588	13.57409	-75.56207	92.7154023	-399	-100
2008												
2000	33.46923	77.31092	49.54368	90.30509	182.05113	287.74008	43.26331	56.13515	-54.0667	-100	-78.84535	-100
1972	57.50916	5.040317	87.87484	21.40496	-100	-12.06731	-0.634349	-17.21103	71.06649	94.009017	132.6923	-11.40649
1944	31.50183	125.8313	35.85308	281.8180	43.58694	-2%	-4.594545	5.379882	76.58847	-70.752673	-84.61538	13.51351
1916	83.77289	13.02571	96.44065	56.19825	58.33333	-23.9669	33.19738	16.85679	31.56481	28.110560	-399	-100
1888	16.48352	-47.28574	30.01559	87.31818	96.15385	7.687308	5.049934	25.54837	-41.15347	-79.752673	142.3073	95.94595
1909	-46.81319	215.9664	41.88137	-26.44638	-37.68231	109.6154	-31.14465	-20.62833	-71.652	89.408972	-46.15385	-71.62162
1960	90.10988	121.4286	47.84876	-49.58618	-42.5641	58.41346	35.67463	7.46888	74.58456	98.617512	11.53348	181.75688
1973	-37.96703	17.18487	39.17867	60.03264	223.7179	129.0865	45.08457	119.7386	-75.34076	83.649329	5.269331	156.0811
1951	12.83051	-45.71479	-31.39007	15.70248	68.58974	87.58677	5.0366881	28.3936	92.86413	-90.78341	507.6923	91.89189
1934	37.23443	-45.30113	55.41069	-76.33884	-71.79487	10.51669	-19.66173	28.57143	-88.746079	-100	-100	75
1917	-74.88571	97.20949	125.89192	607.7228	245.0709	123.98612	-64.048003	94.867739	220.38824	61.936882	-100	-96.1064607
1893	152.381	6.772689	84.87614	24.79339	-67.30469	190.8664	-67.91753	20.984	-100	96.133384	-98.07929	92.90297
1878	3.663004	45.71479	93.35072	306.2645	282.69273	67.35760	0.799958	86.79177	-80.84066	-100	-100	-41.89189
2011												
1934	0	21.88674	-95.41677	-8.264463	-16.66667	51.20159	66.86047	58.26817	-29.22726	-94.930876	-100	-16.84186
1977	41.75824	-32.28574	95.17661	242.9752	137.1795	176.4423	4.781184	-4.386485	-5.669393	-73.089475	-100	21.62162
1955	12.83051	-41.03277	69.6119	37.19008	5.769021	3.884619	-14.21776	5.063648	34.50635	185.9028	-100	-75
1933	183.8828	23.10908	-96.47979	-6.61157	-74.33897	218.0288	-45.87758	-31.06306	-41.69883	-36.40553	-100	96.62162
1921	-26.85744	-85.71429	59.68680	-95.69421	-92.54872	57.45193	-42.86462	-32.70539	-47.22669	45.62212	-100	36.48649
1899	-100	56.72269	58.95658	47.93388	-50	46.83452	-54.80258	-67.16064	-95.08993	-85.861751	-100	-100
1887	102.9304	30.2521	-95.21173	12.39669	65.38462	-55.04808	18.0326	-24.48111	-64.96259	-399	-100	-58.64485
2004	94.83179	63.02521	-100	46.78099	210.2564	12.25962	-42.41015	-0.355663	-95.70668	57.603687	-76.97308	88.70541
1976	23.44123	96.21889	-70.66413	1.652891	-43.58274	52.25962	-5.456829	107.88338	0.684262	-76.492695	-100	-100
1948	-41.62564	121.4286	-7.553084	43.63388	-25.88794	18.99008	-21.57946	21.88886	-51.6124	-100	80.760078	41.91817
1930	3.296701	-15.12605	-70.37558	-33.38843	32.00231	-0.482369	-10.62368	-35.24392	-25.07331	-100	-100	41.21627
1892	-55.67766	56.72269	-45.41348	-95.04132	42.94872	-69.71154	30.076	75.28156	56.58925	-100	-100	70.27027
2008	26.11353	-76.88076	100	104.1322	332.06113	96.64713	-51.30275	76.22399	12.31672	-68.663394	80.76078	-41.16219
1989	32.38703	54.63182	-61.27771	-42.14826	89.10254	13.89473	135.0951	43.33136	30.59629	36.40553	-100	77.3784
1957	77.81881	9.143388	-81.27771	-98.90329	-65.02354	56.03808	-23.62579	37.28513	-100	-98.617512	98.076907	75.22971
1934	32.80071	108.7227	-91.74055	-93.38843	-8.133333	56.825	-2.43129	-29.46058	44.96529	97.695853	84.61538	343.2037
1894	251.6484	24.16976	-94.01565	56.19835	35.75641	707.6923	26.37421	-4.505039	-32.16031	-100	15.38467	177.2971