

East Rajasthan 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		
		R	C	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
1	2020	-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	299.5	-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	-38.2	-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																		
	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	70.3	-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	72.0	+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	+138.3	+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	+39.9	+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	-36.4	+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	?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	-28.9	-23.0	-530	-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	?	-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			

8	JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER		REMARKS	
	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
2025	+11.3	-14.8	-21.6	-7.57	+22.3	-0.9	?7.85	-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	+20.3	-43.6	-1	-5	-3	
1986	?9.92	+11.3	-37.4	-27.99	+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	-27.99	+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	-25.0	+85.6	-7.2	+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	+148.0	+16	+31.9	+49	+62	+40	
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	-29.5	-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	?83.3	+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	?53.3	+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	-16.9	-6.9	-22.9	+80.3	-29.6	?249.7	-48.4	-32.1	+11	-11	-5	
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	-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	-18.8	+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	-4.86	-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	?75.9	-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	?159.0	-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	-3.47	-48.1	-34.6	+32.1	-26.5	+42.4	+12.8	+39.4	-1	+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	27.89	-31.3	-32.3	-61.3	-26.6	-57.4	-19.4	-25.4	-24.6	-14.3	-49.7	+5.1	-29	-35	-10	
1954	-27.1	-54.6	-9.4	-30.0	+93.4	-4.8	-40.2	-17.3	-26.6	?78.9	-52.8	?39.9	+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	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	-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	?95.6	233.3	+25	215.8	-34.1	-36.1	+25.8	+13.9	?77.7	+89.8	+81.7	?82.2	+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	?83.3	+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	70.96	+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		
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	+138.8	+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	+57.8	-70.2	-33.4	-48.3	2269	+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	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	73.97	-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		

18 EAST RAILROAD												
Year	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1881	87.5	88.67347	-100	-100	85.18519	-11.62031	-24.0709	12.15114	8.841034	-100	-100	-100
1886	26.5125	-7.55102	268.68137	-17.30769	95.31037	-39.03492	83.37713	1.692572	-30.32219	1073.856	-100	52.2337
1888	60.9375	235.7363	94.31339	-100	-100	53.93157	1.333694	1.169112	58.93536	401.5608	52.11268	75
1890	92.1875	-100	-100	94.15138	111.1111	80.02614	6.999654	47.39129	115.00916	90.19608	-71.27124	291.6667
1893	47.5	41.87755	-100	88.46154	27.77778	4.5175163	-22.29157	68.44129	-18.49487	-100	-100	127.2333
1894	127.8375	-61.87755	79.48718	96.15385	146.2951	44.77124	28.73695	-28.85652	-60.53333	315.0327	-100	100
1895												
1896	-100	-40.41613	-61.53896	873.0169	-100	-51.10458	-14.04383	75.07514	66.51002	-100	8.450708	139.8889
1897	-100	-100	-100	96.15385	152.7778	-45.42484	26.91943	-32.76084	-76.04563	120.8035	-100	52.2337
1898	368.75	-100	230.2564	-76.97508	-10.37037	27.38562	36.31125	-2.61915	-25	8.495733	-61.09183	66.66667
1899	120.3125	43.85314	-47.41333	-900	88.25606	-45.36948	38.318567	45.90246	65.96968	5.887353	-81.09869	261.1111
1900	45.3125	-100	-18.46154	-88.46154	62.96296	-49.4168	-73.56344	-20.614	-77.09125	-100	90.70223	-100
1901	207.8125	95.91837	-23.03683	-61.23077	30.55856	-69.38125	28.10655	-29.02513	95.24715	-16.33987	-100	83.33333
1903	-50	373.4694	-43.58474	-41.30793	92.50259	125.16134	-56.30852	101.4166	2.001255	49.01961	200	75
1914												
1915	87.5	-87.7551	58.57436	365.1846	249.0741	54.08497	27.28489	244.7402	-17.71754	291.1961	181.6601	472.2322
1916	-47.1875	-67.34934	38.46154	-100	-42.95793	52.77778	5.03895	23.81291	66.34481	97.38862	-100	-100
1918	-17.1875	-87.7551	-79.48718	53.84615	-79.62463	-38.72569	32.50111	-24.30628	142.3858	-17.61708	47.88732	-27.77778
1941	100	65.30431	-53.89615	96.15385	11.11111	-20.91503	54.01429	13.48218	-55.70342	-94.77124	-100	5.555555
1919	259.375	-100	47.12949	111.5385	60.18519	-41.30083	9.733126	93.32203	-48.6693	93.38563	230.9859	119.4444
1902	-37.8125	95.91837	-100	31.61538	-1.851652	45.26144	6.464556	59.67238	58.03585	-9.801522	-100	-11.11111
1885	17.1875	-100	-43.30785	3.886154	115.1407	109.6424	0.580879	44.39674	86.21673	-19.45764	-100	263.8889
2015												
1918	-88.4375	34.69388	-23.03682	142.1227	43.57037	10.29442	25.18948	47.15554	-4.269567	180.2022	69.01408	100
1921	17.1875	-77.55102	158.60464	-56.15385	-4.481481	5.226358	47.25524	-37.18803	-11.65393	32.67924	102.1570	46.66667
1919	-42.8125	97.95918	-100	-3.845154	258.33333	7.026144	17.385109	10.71898	41.92035	182.5812	6.242254	-100
1943	341.75	85.79992	-100	-15.18462	-1.281853	7.076144	31.12795	65.43581	4.562738	-100	-100	-81.11111
1925	-18.4375	-100	-96.15385	62.03704	122.7124	0.689146	-29.3903	-79.41263	85.51248	134.507	-100	-100
1903	-71.4375	-76.5102	61.53846	-100	38.88889	-24.18201	3.956552	6.354029	66.44487	22.28758	-100	-100
1886	-42.1875	-100	-23.07093	-42.30669	143.51185	31.04575	10.01121	7.685702	-62.45247	84.31173	83.00859	-100
2016												
1933	46.875	-87.7551	100.6973	31.61538	60.18519	30.55556	8.114133	5.195353	-20.62738	8.481732	-87.18131	83.33333
1955	92.1875	-8.183285	-100	96.15385	64.44565	43.93475	-38.47526	26.23444	-21.48393	96.73203	-43.66197	-100
1937	-84.375	-75.5102	176.3251	1.846154	-33.88889	-5.021614	3.031654	24.00112	-33.08859	96.50181	100	88.88889
1954	-17.5	22.44633	358.8718	-100	191.6662	-24.50568	17.340284	7.428081	-48.47933	97.38862	-35.15711	333.33333
1876	-100	-65.30617	-69.73077	-15.18463	55.55556	-34.80369	52.29063	53.67111	62.1673	51.28753	64.78863	91.66667
2017												
1995	421.875	-63.26531	24.35897	-76.51308	-25	-40.35948	32.0120	11.05478	-19.71186	-23.85623	-100	50
1978	-100	167.1469	100	65.38962	-100	89.21569	72.2580	19.57022	38.68821	60.28431	52.11268	107.2222
1961	92.1875	32.68306	47.4135	-51.89615	52.77778	38.0719	-10.18956	-1.778949	216.1597	32.93614	-71.12676	-52.23338
1939	81.25	172.5102	151.7871	-100	100	6.045752	-48.28256	-47.1447	19.77186	96.73124	-100	-100
1923	-21.875	91.87755	-100	-75.52703	38.88889	10.94771	-3.878734	-45.29341	215.77119	-86.93881	-83.09034	202.4444
1935	-42.1875	71.59184	2.584103	71.02707	-71.07843	-42.66607	-88.31228	-21.95437	-100	-100	-86.11111	-100
1883	121.4375	-100	5.528205	56.15118	387.50036	30.55556	-25.85883	62.37596	85.44383	50.3068	-100	-100
2018												
2001	-100	-100	97.30369	373.0169	159.2193	120.7516	22.42532	-63.24603	-50.48049	16.33987	-100	-100
1979	50	888.1843	25.68103	23.01692	216.8867	0	3.12082	-35.0309	-91.1597	63.39869	885.9155	75
1962	-81.25	-73.48335	110.7692	42.30669	-40.74204	-35.29312	23.36153	-21.26465	49.52471	150	-83.06849	138.8888
1955	151.5625	-100	-100	161.5385	12.03704	121.0392	78.2051	3.018031	40.01901	-70.08457	-100	-100
1923	-65.625	79.59184	28.39513	42.30369	73.14815	-41.01307	49.84396	16.61653	41.44106	82.15294	-92.95775	136.1111
1926	96.875	369.38768	41.02564	-100	-23.14815	1.30719	16.00638	-59.85423	63.29858	86.5281	-100	55.55556
1888	29.6875	79.59184	2.584103	100.6973	125	120.3858	9.319126	87.67731	-95.72241	-37.7549	-100	-100

Year	Month	Week	Day	Hour	Min	Sec	Lat	Long	Alt	Speed	Course	Angle	Dist	Time
2002	-06.5625	385.7143	-01.0359	-01.02003	37.03104	72.54802	-90.53339	-05.20109	58.15019	-05.62042	31.09320	-25		
1983	-60.9375	-100	-21.07027	-150	52.77708	85.68627	30.04571	-3.177379	68.44106	575.1634	-100	708.3333		
1963	84.375	99.18367	18.46154	-17.30169	-77.77708	73.36601	20.58791	31.64448	-19.30608	26.34139	130.42295	-66.44446		
1946	-100	152.1829	-100	-18.46154	2.037708	160.0323	16.9416	31.59333	9.220537	35.94071	43.32394	638.1223		
1923	-60.9375	62.34694	-100	21.07027	-30.58566	0.328193	19.12617	-11.42123	-61.44867	66.20843	-100	130.5556		
1917	14.0625	589.70569	30.36633	442.3033	29.62963	-81.04525	-42.20204	35.72345	93.67357	-100	-100	-100		
1890	-100	-100	87.17949	-34.61518	-65.74029	150.61004	-9.139965	-29.54551	32.506034	54.90196	-95.73465	108.3233		
1872	-31.125	316.3265	88.61538	42.39768	111.48115	61.36471	18.580117	-7.711526	64.06884	65.350988	78.159851	88.88889		
2000														
1960	24.5625	-25.51027	-30.36603	-100	21.2963	70.91503	-19.032	52.21125	48.38403	182.3529	98.54128	-100		
1964	100	100	-100	-100	170.31204	24.01961	-20.06242	24.30208	38.61213	-08.62081	-100	-46.11111		
1956	-84.375	12.2443	338.4615	-88.46154	-44.44444	115.0327	-47.57993	-41.4703	8.345509	-100	147.8875	-35.88889		
1908	123.4375	65.38767	89.73839	-76.93308	-50	21.87582	61.52424	59.16702	35.36127	99.34643	-77.46479	-94.44444		
1890	-100	12.2443	-100	-100	26.85165	14.37903	21.327	-34.1776	43.34601	120.2914	-69.01408	102.2228		
1971														
1959	-60.9375	129.5306	-100	-100	18.51852	86.75473	10.47804	-69.03544	11.69202	27.45098	-100	-100		
1982	246.875	-19.30408	189.7416	214.6154	270.3104	-39.70588	-38.08738	9.183441	-87.64259	5.883353	128.169	63.11111		
1955	-6.75	17.2449	-43.58574	15.38462	67.50259	-87.3451	4.37539	-50.66552	25.28517	69.05229	-100	-100		
1941	23.4375	100	100	94.23072	54.70387	11.11111	73.07118	61.18596	21.6697	-100	-100	86.11111		
1926	-1.5625	93.8755	710.2564	3.896154	87.03704	-37.77728	-4.458315	83.63248	93.58612	-100	-100	88.88889		
1909	29.6875	69.38776	-100	1619.231	70.37037	104.035	31.65403	7.642785	8.760962	88.88889	-100	405.5556		
1882	73.4375	-24.4808	-61.51846	-88.46154	141.66667	-34.8156	75.53385	2.10393	79.2757	16.33567	-100	505.5556		
2022														
2005	85.9375	-14.32653	189.7416	280.7992	28.7037	6.991141	32.5457	-68.37282	47.81369	-100	-100	-100		
1981	-42.1875	65.30612	-100	3456.154	251.8549	16.655113	11.73537	-0.343435	29.72085	118.9542	-100	-91.44444		
1960	-32.5	-100	41.02564	-10.70971	-36.11111	16.65552	-22.96032	18.18553	-28.51711	66.04667	-100	-81.44444		
1949	-71.125	67.34698	-100	-88.46154	-36.11111	33.49573	32.40526	-60.65932	22.71863	-62.0015	-64.38371	-100		
1937	-100	116.3265	-97.4359	-47.30309	-39.81481	65.52728	15.11369	18.5212	-43.58612	-60.78431	263.6056	835.1111		
1910	7.4375	-77.55102	-100	21.02694	83.33333	119.1126	-52.1127	5.203316	25.099406	139.8693	85.91584	-100		
1891	207.8125	280.8163	143.58117	-84.61538	191.60667	211.41218	3.4123902	-5.968222	25.88551	22.70778	529.5775	88.88884		
1871	15.625	202.0408	-100	93.30269	205.7407	132.1835	-64.49398	71.8334	58.46008	-100	-100	581.6666		
2023														
2006	85.9375	100	292.3017	-76.92308	131.4815	56.69335	-6.955554	23.10004	16.63403	-62.26115	-100	-66.11111		
1989	55	-100	12.82013	91.15383	99.00407	58.01693	-33.30361	26.14858	57.50951	-100	-71.02634	40.33333		
1967	399	100	1438.462	31.46154	92.55959	49.18303	21.62263	15.88224	54.27757	94.77124	-81.09859	872.2332		
1950	87.5	93.8755	5.128295	-100	27.77708	27.77708	5.7.06643	-17.6.04908	121.6692	-100	-98.44444			
1933	100	2.040816	-42.58574	719.2308	207.4104	271.712	-12.18592	21.6.0412	91.53612	24.83166	51.5.031	-52.27338		
1911	107.8125	83.67347	417.9487	-61.23077	99.00407	30.39214	-70.37384	-66.25153	48.28897	-67.12026	112.6761	91.44444		
1894	207.8125	-73.46939	-35.28744	84.61538	65.74074	245.7521	3.7056488	-31.82652	30.00802	-67.50786	-100	711.1111		
1877	37.5	187.7561	-10.70973	57.69321	94.44444	-16.76471	-63.44182	-89.43251	-53.42205	386.2745	-59.70423	1177.708		
2024														
1990	-15.625	93.8755	-42.58574	132.1092	11.11111	315.6411	21.13241	20.36883	30.51331	42.46366	-53.1831	-100		
1968	9.375	55.10204	-84.65517	91.15383	-39.81481	-65.09304	34.55194	-35.92958	-88.78327	72.13418	-100	97.33332		
1947	-1.5625	-24.4808	-94.47179	-76.92308	-95.37037	-64.31373	-41.0165	23.18312	298.27	-30.71895	-100	52.27338		
1912	9.375	83.67347	-10.70973	189.61538	58.33333	-41.44444	48.23889	-3.349022	55.89854	-89.54248	-21.94366	30.55556		
1884	45.3125	-37.7551	-84.61538	-100	68.51852	66.65552	-15.6041	-13.56119	154.3769	-60.13072	-88.73239	27.37708		
2025														
2003	-23.4375	151.0204	97.4359	-34.61538	84.25006	16.33982	-32.18903	-43.92443	27.28137	-96.73203	-100	30.55556		
1986	-39.5625	349.8163	-39.48218	63.23033	145.3704	14.21363	-63.79938	-29.75536	72.30643	57.51634	-100	95.44444		
1969	35.9375	77.55102	-58.93436	-3.865154	35.18519	-60.91523	4.735309	8.343883	9.315689	99.34641	-65.01403	-100		
1947	1.5625	-24.4808	-94.47179	-76.92308	49.37037	-64.31373	-41.0165	23.18312	298.27	-30.71895	-100	52.27338		
1910	123.4375	93.8755	79.48718	-96.15383	146.2963	44.77124	29.73696	28.89552	60.55133	315.0377	-100	-100		
1911	-100	61.26531	-57.3768	-100	340.2963	97.41048	-32.41195	-50.66552	-57.20033	92.15686	-95.73465	455.5556		
1893	135.9375	-100	366.65667	-53.89915	-4.67563	-71.07543	-8.158719	-21.73538	35.5019	-47.71242	103	16		
1874	93.4375	100	69.23007	-100	21.2963	36.41391	12.57345	-5.624112	-28.23194	99.34641	-100	-100		
2026														

East Aegean

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	
2009													
1987	73.4375	-24.48938	-61.51846	-88.46154	141.66867	24.8366	-75.52385	21.03907	-79.22753	-14.33983	-100	515.5656	
1970	39.0625	414.2857	56.41026	96.15185	-65.19024	73.38801	-23.40615	30.614	37.16373	-60.28433	-100	-100	
1953	437.5	-100	-100	33.07623	73.23223	14.37908	-30.31054	24.73164	-47.49049	-82.39214	-100	-81.33333	
1931	96.875	38.77551	74.35897	-100	-30.59256	-73.41176	4.81488	24.83899	58.74579	275.813	-95.77465	-86.66667	
1924	-100	-83.67347	-84.61538	-30.76923	-32.03764	64.70528	48.35108	-48.76106	0.285171	-19.60284	-11.26761	-100	
1880	-93.625	-100	-100	29.74389	-50	-46.2963	-61.11765	5.349978	11.12065	-23.0098	-47.03883	-100	-100
1875	-87.5	233.0917	24.07692	92.30769	-100	-62.90875	26.61034	-37.28533	229.0875	45.75163	-100	152.77738	
2007													
2010													
1993	-63.1875	42.85734	-10.25641	163.23038	-6.483481	233.00965	298.7071	-53.15586	13.40304	-65.35048	-63.95775	-100	
1971	-65.625	83.57347	-97.4339	30.76923	209.1593	204.4119	29.82613	-21.64019	45.91255	36.64052	-63.95775	-100	
1954	-31.25	293.8376	15.89744	-100	-98.14815	-3.394773	22.54829	-48.13225	146.1977	61.43791	-91.3493	-100	
1937	-100	187.7551	-97.4339	-53.84615	-35.18519	58.79045	82.50465	77.34865	8.366019	70.58824	-95.73465	-95.55556	
1915	258.125	597.9592	738.4615	-50	-25.92593	40.35948	-67.7218	-57.34006	-67.96548	364.7059	-100	27.77728	
1898	-100	371.4286	-94.87179	-88.46154	39.81481	4.5755163	-5.886975	-56.85137	-4.2817359	-100	-100	363.88889	
1881	98.4375	10.20408	317.9487	57.69131	-81.14815	17.15486	61.93221	3.30614	-51.57291	-35.62092	-100	27.77728	
2025													
2000	-96.875	-38.77551	-79.48718	103.8467	362.963	28.89157	17.1717	61.33387	-58.17548	-64.77124	91.5493	86.11111	
1973	49.3125	12.2449	-97.4339	-54.61538	-84.25938	18.46405	-62.63932	1.37398	84.18059	-88.85885	-88.75229	-100	
1944	221.4375	51.06123	556.4103	203.84612	-45.74024	27.61488	24.6999	61.76224	-64.8283	-45.71121	-94.3662	-55.55556	
1916	-100	-18.77551	-100	-76.92208	4.82963	50.58039	37.18903	92.51095	27.6616	84.31173	-88.73239	-100	
1888	134.375	281.6127	-5.128205	-3.846154	-88.14815	54.08497	-16.4066	29.11121	70.34221	11.11111	11.26761	-100	
2007	-75	436.1306	125.641	61.53848	21.2963	28.26797	1.649576	-17.70296	-11.5019	90.84967	-100	38.33333	
1990	-100	577.553	-87.17949	-53.84615	44.44444	22.71242	1.69416	17.56119	51.90114	40.52288	-25.16901	90.44444	
1973	45.3125	20.49316	-88.71795	-100	1.851853	35.13073	21.177	57.03935	59.50498	54.90196	-100	40.44444	
1951	73.4375	-100	112.8205	23.07692	-6.483481	5.392157	-52.74186	-49.61871	-49.73324	-86.9381	246.74783	-100	
1934	25.6875	-100	215.3894	61.53848	-97.22222	108.1699	-50.66687	99.44238	11.6902	-100	-15.01428	94.44444	
1917	55.125	75.46529	5.128205	269.2308	712.963	155.8874	7.807051	61.22995	327.1863	595.4748	-100	-100	
1895	120.0875	83.67347	176.89131	246.1538	99.07407	16.84997	-15.51494	15.09988	-71.29278	84.31373	-100	-31.33333	
1878	15.625	4.081633	-84.61538	15.38462	318.5185	-81.16995	5.349978	31.30099	-15.19924	-100	-100	50.72222	
2011													
1954	104.6875	-83.67347	-84.61538	707.6521	-50	-33.49673	-42.71066	-62.08673	33.46008	-90.34541	98.59155	-100	
1933	2.8125	-63.26531	-100	15.38462	9.259759	38.88889	-79.64779	-87.09632	-43.53612	-100	-88.73239	83.33333	
1953	-53.125	-23.55103	17.94877	-84.61538	-13.88889	-65.68027	-94.9621	9.102619	-16.53992	-1.30719	-100	91.66667	
1938	-75	-100	-100	-88.46154	-73.44815	-1.960788	-75.79635	-70.88586	-97.24325	-98.03922	-100	-77.73238	
1921	-100	-100	-100	96.15385	-100	-90.35948	-45.16273	-81.03991	-43.72626	-90.14626	-100	91.66667	
1889	100	-100	-100	53.84615	-92.59259	56.20915	-91.5292	-93.6965	-98.09886	-100	-100	91.66667	
1863	124.5625	-30.61224	-100	96.15385	32.40741	40.35948	-79.73686	-73.72263	-52.54677	-100	-94.3662	-97.33333	
2004	-68.75	-100	-100	15.38462	-65.74034	-60.29412	-90.77129	-63.58852	-89.79087	-1.30719	-100	66.66667	
1976	1.5625	40.81633	-39.74339	-30.76923	18.55852	-82.13072	-45.48073	-45.9854	-0.180114	-100	171.831	-100	
1943	271.0875	238.77551	-41.02564	63.23077	-100	88.42791	-58.31476	-64.79882	92.62357	98.69281	-100	86.33333	
1920	-45.3125	-28.57343	-100	15.38462	428.8889	15.57288	-61.25724	-78.31587	-99.42966	-100	-100	-100	
1882	131.25	-79.59184	-100	-100	52.77778	53.97157	-41.0165	-44.61142	9.220532	92.81046	-100	368.33333	
2008	-46.875	-95.91837	-64.10258	450	241.66667	0.320737	-78.15476	-54.31516	67.87072	96.73203	-98.59155	713.8889	
1980	-90.625	-100	120.63211	-34.61538	12.03704	-38.33889	-52.16378	-57.18545	-85.79144	83.66013	-76.05634	130.5556	
1952	-100	-38.77551	-58.97436	-69.23077	-68.51852	-70.03984	-48.06063	-61.95792	-100	100	-100	91.66667	
1934	-20.3325	-75.5102	-94.87179	-84.61538	-11.31111	-85.63202	-61.7539	-79.81987	-3.612167	-100	-100	227.77728	
1894	-100	-100	-100	-100	-100	-100	-31.07667	15.80699	47.88587	-37.61753	78.80184	-100	-100