

East Rajasthan Indian Weather Time Scales

Gangadhara Rao Irlapati

H.No.5-30-4/1, Saibaba Nagar, Jeedimetla, Hyderabad – 500 055, Telangana State, India

Email ID: scientistgangadhar@gmail.com

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 to 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 $23\frac{1}{2}$ 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.

[Gangadhara Rao Irlapati. **East Rajasthan Indian Weather Time Scales.** *Academ Arena* 2018;10(3s): 23-30]. (ISSN 1553-992X). <http://www.sciencepub.net/academia>. 4. doi: [10.7537/marsaaj1003s1804](https://doi.org/10.7537/marsaaj1003s1804).

Keywords: Indian weather, astronomical forces.

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.

Conslusions:

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.

	2020	June			July			August			SEPTEMBER			OVERALL SEASON			REMARKS
		T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
1	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	+16.8	+103	-10.5	234.8	-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				+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	+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	-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	714.4	-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	-16.3	-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	222	-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	

	2013	June			July			August			SEPTEMBER			OVERALL SEASON			REMARKS
		T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	
18	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	+578	-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	21.32	-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	24.76	+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	-4.33	+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	715.4	+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	

	BREAST RAJASTAN											
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2012												
1987	87.5	83.6347	-100	-70.92908	-85.18519	-71.69281	-24.0749	12.15114	8.840384	-100	-100	-100
1996	26.1625	72.55102	266.9817	-97.20769	95.37037	-79.04912	83.77173	-1.692572	-30.32319	1073.856	-100	52.7277
1928	60.5375	235.7387	94.47179	-100	-70.37037	-53.92157	1.337494	1.716912	-58.93526	401.9408	52.11268	75
1900	92.1875	-100	-100	596.1518	111.1111	82.07614	6.999664	42.38128	115.0649	90.19608	-78.87124	291.6667
1872	47.5	-81.87756	-100	-88.46154	27.77778	-4.375163	-27.29157	68.44129	-18.44487	-100	-100	127.2222
1830	121.4375	91.87755	-91.48718	-96.15185	146.2961	44.77174	24.73695	-28.89662	-80.53125	315.0327	-100	-100
2015												
1991	-100	40.81611	-61.58996	822.0769	-100	-51.10858	14.04169	25.07514	-66.51567	-100	8.450704	118.8889
1974	-100	-100	-100	-96.15285	152.7778	-45.42984	26.89843	-32.76089	-76.04563	508.8038	-100	52.77278
1962	368.75	-100	230.2594	-76.97898	-70.37037	72.28862	38.11225	-2.61915	-25	6.798732	-61.97183	-66.44444
1935	120.1125	42.85714	-47.4332	-100	84.25956	-45.26948	28.86567	-45.94246	65.96968	5.882253	-81.08859	261.1111
1918	-45.1125	-100	-18.46154	-88.46154	62.96796	-49.4344	-73.58244	-20.614	-77.09125	-100	-50.70723	-100
1901	207.8125	95.91837	-21.07682	-81.29077	-30.55656	-68.28125	-28.17885	250.2513	-95.26715	-16.11087	-100	83.33333
1874	-50	371.6694	-43.58374	-47.30759	92.59759	125.1614	-54.30882	101.43168	2.091275	49.01961	100	75
2014												
1997	-87.5	-87.7551	58.97426	765.1846	246.0741	54.08457	-27.28489	2.447402	-17.71164	293.1961	181.4401	-412.2222
1975	-47.1875	-67.34934	28.46154	-100	-43.96798	52.77778	5.037894	23.87291	66.34881	97.28662	-100	-100
1958	17.1875	-87.7551	-79.48718	53.84615	-79.62962	-38.73549	17.50111	-24.30828	142.2858	-17.64706	-82.8732	-77.77778
1941	-100	65.32812	-63.89615	96.15285	11.11111	-20.91503	54.03472	13.48818	-55.20242	-84.77124	-100	-5.955556
1919	259.375	-100	-47.17979	111.5285	60.18519	-41.30065	9.219326	90.32904	-48.6852	57.38562	230.9859	118.4444
1902	-37.8125	-65.91837	-100	34.61528	-1.851852	-45.26144	6.464566	50.67214	58.09385	-9.821822	-100	-11.11111
1885	17.1875	-100	-87.30768	3.896154	115.7407	109.9425	0.580879	41.29674	86.21673	-19.80784	-100	263.8889
2013												
1918	-98.4375	-34.69388	-73.07682	147.3027	-45.37037	10.79447	25.18948	47.15524	-4.269947	180.2922	60.01408	-100
1881	17.1875	27.55102	158.9044	-86.11285	-4.481981	5.228758	47.76524	-37.19810	-21.05298	37.67974	300.9577	-66.66667
1859	-42.8125	97.95918	-100	-3.948154	258.3333	7.026144	17.85109	10.21898	41.92835	187.5812	7.042754	-100
1942	341.75	85.79592	-100	-15.18462	-1.851852	-7.026144	91.17795	65.43581	4.562728	-100	-100	-85.11111
1925	-48.4375	-100	-100	-96.15285	62.03704	122.7124	-0.889164	-24.3003	-79.17162	89.54344	184.507	-100
1908	-21.4375	-75.1022	61.52846	-100	18.48815	-74.18201	3.556152	-6.354029	66.44817	22.87582	-100	100
1886	-42.1875	-100	-21.07692	-42.30769	143.5185	81.04575	10.01123	-7.685702	-62.45247	84.31172	-83.08859	-100
2016												
1984	-46.875	-87.7551	100.0922	34.61528	-60.18519	10.59554	8.114153	5.195363	-20.62728	8.491632	-97.1821	83.33333
1966	92.1875	-8.182625	-100	-96.15285	94.44444	43.93475	-38.47526	26.23444	-21.48789	96.73203	-43.66197	-100
1932	-84.375	-75.5102	170.9221	-1.896154	-38.88889	-5.026144	1.021654	24.96127	-30.68494	-96.9081	-100	88.88889
1904	-17.5	27.48838	294.8718	-100	193.6667	-24.1008	17.29284	-7.428081	-48.47994	-97.38567	-25.35711	333.3333
1876	-100	-45.70612	-60.73077	-15.18462	55.55556	-34.80059	52.29601	-53.6711	62.1673	57.28728	-64.28673	91.66667
2017												
1996	421.875	-63.28511	24.25892	-70.92308	-25	-90.35948	32.01227	11.02978	-19.77186	-73.84621	-100	95
1978	-100	167.1446	-100	69.38962	-100	83.21969	72.7587	19.57922	38.68821	-60.28414	52.11268	173.2121
1961	92.1875	32.65306	-47.4332	-51.84615	-52.77778	38.0719	-10.68896	-1.778448	216.1597	32.02614	-21.32676	52.77778
1939	81.25	175.5102	151.7471	-100	-100	6.045752	-88.28256	-47.1447	19.77186	94.77124	-100	-100
1922	-21.875	-91.87756	-100	-76.92308	-38.88889	10.94771	-3.678734	-45.24841	71.57914	-86.9281	-81.69034	269.4444
1905	-42.1875	79.59184	2.584103	23.07982	-70.37037	71.07843	-47.66602	-88.92728	-21.95437	-100	-100	86.11111
1883	171.4375	-100	5.328205	-96.15185	387.5928	30.55556	-25.85829	-63.47596	88.44817	-50.3268	-100	-100
2018												
2001	-100	-100	92.30769	373.0969	159.2282	120.7516	22.42542	-43.24603	-52.49049	-18.33942	-100	-100
1979	50	808.1833	25.64103	23.07692	216.8667	0	3.17082	-35.0386	-91.1597	-63.39483	885.9156	75
1962	-81.25	-73.48838	120.7692	42.30769	-40.34024	-85.29912	23.16157	-21.26766	49.57471	-100	-83.66666	118.8889
1945	151.5625	-100	-100	161.5285	12.01704	123.0292	78.87061	2.018033	40.01901	-79.08492	-100	-100
1927	-65.625	79.59184	28.28212	92.30769	73.14815	-81.01302	49.84286	16.61652	-43.44108	-82.15294	-92.95775	136.1111
1908	-96.875	349.2878	41.02584	-100	-73.14815	1.302715	16.06585	-58.85451	69.29658	80.9281	-100	-55.55556
1889	29.6875	24.59184	2.584103	167.6922	125	122.1888	-8.719126	87.67711	-95.22241	-37.2549	-100	-100

East Angles

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
2009												
1987	73.4375	-24.4898	61.53846	-88.46154	141.6667	-74.8333	-75.52385	2.103907	-79.27757	-14.37987	-100	555.5556
1970	39.0675	414.2857	56.41026	-96.15385	-85.74074	73.38801	-23.40615	30.614	37.3673	-65.78912	-100	-100
1953	47.5	-100	-100	73.07692	-77.22222	14.37908	-30.51054	24.73164	-42.49049	-80.29214	-100	-83.33333
1931	96.875	-38.77551	74.35897	-100	-30.55556	-79.41176	4.81498	74.83899	58.74575	275.817	-95.77465	-66.66667
1914	-100	-81.67347	-84.61538	-30.76923	-17.03704	64.70588	48.95105	-48.76106	0.285171	-19.60784	-11.26761	-100
1897	-40.625	-100	89.74359	50	-46.7963	-94.11765	5.349978	11.12065	-23.0008	47.05882	-100	-100
1875	-87.5	253.0617	23.07692	92.30769	-100	-67.9085	76.61634	-37.8553	229.0875	45.75163	-100	152.7778
2027												
2010												
1993	-97.1875	42.85714	-10.25641	169.2308	-6.483481	233.0093	2.987071	-53.15584	13.40304	-65.35048	-97.95775	-100
1971	-66.675	83.67347	-97.4358	-30.76923	309.2555	204.4118	29.82613	-21.64319	85.91255	-34.64052	-60.95775	-100
1954	-31.25	293.8776	15.80744	-100	-98.14615	-3.594771	22.54834	-48.13225	146.1977	61.43791	-91.5493	-100
1937	-100	187.7551	-97.4358	-53.84615	-35.18519	88.79085	82.20465	-77.34865	8.305019	-70.58824	-95.77465	55.55556
1915	253.125	597.9592	738.4635	-50	-25.82593	-40.15048	-67.7218	-57.34006	-67.96578	364.7059	-100	-77.77778
1898	-100	371.4286	-94.87175	-88.46154	39.81481	4.575363	-5.884975	-56.88137	-4.897928	-100	-100	363.8889
1881	98.4375	10.30408	317.9487	57.69731	-48.14815	-17.15466	63.93273	3.30614	-51.57091	-83.63092	-100	27.77778
2028												
2020	-96.875	-38.77551	-79.48718	103.8462	362.963	-28.92157	17.1717	-61.31387	-59.12548	-94.77124	-91.5493	86.11111
1972	-95.3125	17.2949	-97.4358	-34.61538	-84.25926	18.46405	-62.63932	1.37908	84.98099	-88.88888	-88.75229	-100
1944	221.4375	53.08172	556.4103	303.8462	-65.74074	27.61438	24.6099	61.74324	-64.8289	-45.75163	-94.3662	55.55556
1916	-100	-38.77551	-100	-76.92308	4.62963	50.98099	37.18993	99.51095	27.6616	84.31373	-84.73229	-100
1888	134.375	281.6177	-5.128205	-3.846154	-98.14815	94.08997	-16.4066	29.11121	-70.34221	11.11111	11.26761	-100
2007	-75	476.5304	125.681	61.53846	21.2982	28.76797	1.849576	-17.20268	-11.50119	90.84567	-100	33.33333
1990	-100	577.551	87.17999	-53.84615	-44.44444	27.71242	1.69416	17.56119	51.90114	-40.52788	-28.16991	94.44444
1973	-45.3125	-20.49818	-48.71795	-100	1.851852	-35.13072	21.177	57.0395	99.90494	-54.90196	-100	44.44444
1951	-73.4375	-100	112.8205	23.07692	-6.483481	5.392157	-52.74186	-40.61879	-89.73364	-86.5081	246.4789	-100
1934	25.6875	-100	215.3845	61.53846	-97.22722	988.1699	50.06687	99.74238	11.69202	-100	-60.01428	94.44444
1917	55.125	73.48929	-5.128205	269.2308	712.2663	155.8874	7.807051	61.22799	227.1863	595.4298	-100	-100
1895	139.0675	83.67347	176.9231	248.1538	-99.07407	16.83007	15.51494	-13.00988	-71.29278	84.31373	-100	-33.33333
1878	15.625	4.081633	-84.61538	15.38462	338.5385	-8.169925	5.349978	31.30099	-15.39004	-100	-100	57.72727
2011												
1994	104.6875	-81.67347	-84.61538	707.6923	-50	-31.46673	-42.71066	-62.08673	33.46008	-96.34641	94.59155	-100
1977	7.8125	-63.76531	-100	15.38462	9.293759	38.88889	-79.64779	-87.09532	-43.53612	-100	-84.73229	-83.33333
1955	-53.125	-27.56102	17.94877	-84.61538	-33.88889	-65.68627	-94.9673	9.100619	-16.53892	-1.30719	-100	91.66667
1938	-75	-100	-100	-88.46154	-73.14815	-1.960784	-75.75635	-70.88586	-97.74325	-68.01927	-100	-77.77778
1921	-100	-100	-100	-96.15385	-100	-90.35948	-45.16273	-83.03993	-43.72624	-90.14626	-100	-91.66667
1899	100	-100	100	53.84615	-92.59259	56.20915	-91.5292	-99.6565	-98.09886	-100	-100	-91.66667
1882	128.5625	-30.61224	100	96.15385	37.40741	-40.35948	-29.73696	-73.72263	-52.94677	-100	-94.3662	-97.22727
2004	-68.75	-100	-100	15.38462	-65.74074	-60.29412	90.77129	-63.58952	-84.79087	-1.30719	-100	66.66667
1976	1.5625	40.81813	-89.74359	-30.76923	18.51852	-10.13072	-45.43075	-45.9854	-0.190114	-100	171.831	-100
1948	271.875	238.7755	-41.02564	69.23077	-100	86.43791	58.21476	64.74882	-97.62357	98.69281	-100	86.11111
1920	-45.3125	-28.57343	-100	15.38462	438.8889	15.52788	-61.25724	-78.31587	-99.42966	-100	-100	100
1892	131.25	-79.59184	-100	-100	52.77778	-53.92157	-41.0165	-44.61142	9.220532	92.81046	-100	368.3333
2008	-46.875	-95.91817	-64.10256	450	241.6667	0.326717	-78.15476	-54.31516	-67.87072	-96.73203	-98.59155	713.8889
1980	-90.675	-100	107.6923	-34.61538	12.03704	-34.39889	-52.15228	-87.18549	85.70149	83.66013	-76.05634	130.5556
1952	-100	-38.77551	-58.97416	-69.23077	-68.51852	-70.02804	-48.06063	-63.95792	-100	-100	-100	-91.66667
1934	-20.3125	-75.5102	-94.87175	-84.61538	-11.11111	-85.62092	-63.7539	-79.81987	-3.612167	-100	-100	227.7778
1894	-100	-100	-100	-100	-100	-31.04667	15.80699	47.88587	-37.61733	-78.80184	-100	-100