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Indian Weather Time Scales

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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 affect and stimulate the earth climate. The moon affects and stimulates 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.

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.

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.

I have prepared a model Indian weather time scale along with hundreds of additional scales (1617 scales, 12 months, 4 seasons, 50 regions & 150 above years were studied) in which all weather conditions such as rainfall, temperature, cyclones, river water etc of all homogeneous regions sub-divisions of India were studied and analyzed elaborately.

Studies carried out:

Firstly, see the Indian weather forecasting study model 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

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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 Indian Homogeneous regions and subdivisions, states and districts of India.

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.

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-			June		July			August			SEPTEMBER			OVERA	LL SEAS	ON	REMAR	KS
	0000		R		T	R	C	T	R	C	T	R	C	T	R	C		-
	2020	T	and the same of the same of	-	-			and the same of th	-11.2	Action Control	-35.2	-19.1	-26	-1	-12	-6		1
	1992	77.18		-54.0	-39.2	+5	-15.8	+4.70				+139	+95.4	+17	+16	+44		
1	1964		+21.3	-15.0	-36.6	+108	-13.4	799.5	-17.8				-39.2		-29	-5		_
	1936	+31.7	-9.16	-13.0	-14.1	-35.3	-7.00	-12.5	-65.7	-32.3				-3	-9	-2	_	-
-	1908	-32.3	-62.9	+69.9	+5.8	-29.4	-50.9	-9.13		-25.2			+48.4	+38		Action Comments	_	-
	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	-	-
	1	-																-
	2017		1															-
	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		+57.5	+6.9	+47.0	-13.1	+31.7	+169.0	+100	+8.0	+50	+37	+55		
				+70.9		+32.9	-24.3	-8.35	-4.9	+13.3	+20.0	-49.6	-6.1	+12	+1	+30		
	1961		+27.8		-44.6	-34.6	-42.3	-27.5	+13.9		-3.95	+81.7	-13.5	-28	-12	-23		
-	1939	-38.0	-20.5	-38.2					-30.3		422.b	-1.2	-48.3	-18	-29	-15		
	1922		-50.4	-90.2	-27.6	-516	-31	-36.8			734.8	-58.1	-6.5	-5	-4	-18		
	1905	-17.6	+8.61	-29.3	-64.4	-62.2	-72.7	+16.8	+103		+85.1	-32.1	-56.6		-4	-21	_	
	1883	+60	+23.3	-25.1	-8.24	-23.5	-55.1	+32.2	+36.4	-10.6	+00.1	-32.1	-30.0	+31	- 14	-21	27 10	
				1														-
	2024	10.7	.00.1	107	20 4	-21.4	17.2	+21.1	+96.6	-0 B	-4.49	+51.2	+19.3	-3.6	+63.1	+46		
	1996			+13.7			-17.3		-34.2			+55.6	-26.6	-20	-18	-39		
	1968	-330	-28.3	-38.7	-28.0	-39.4	-38.4	-82.5			-26.2	+35.0	-21.5	-5	-5	-3		
	1940	-19.8	+24.3	-2.0	+9.24	-159	-34.0	-89.9	-33.9					w) Cristing	+1	+10	_	
	1912	-61.1	-53.3	-74.3	+12.5	-20	-5.6	-11.8		+15.3	-12.1	+41.4	?0.3	-15			_	-
	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	-	-
		1.00									1					45.0	-	-
	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		4593	-34.4	+27.6	+0.5	-24.1	-28.6	-66.3	-40.9	+12.4	+17.0	-27.0	+1	-5	+13		
	1965		+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		-54.8	-20.8	-31.4	-30.9	-35.8	-50.5		+27.8	+99.1	+1.76	-14.9	-5	-20	-20		
1	1926		+32.3	+298.6		-33.5	+1.8	-19.4	-31.4	-36.5	-18.6	-36.7	-5.3	-25	-2	-1		
				-32.6	+0.71	-45.4	-22.4	-35.9	+2.06		+1.24		+4.3	-12	+44	+7		
	1909	-6.87	-45.4							+506	+148.0		+31.9	+49	+62	+40		
	1887	+20.1	+165	+2.4	-23.5	+5.41	-32.6	783.3	+50.6		1 110.0	-58.1	+25.5	-29	+25	-7		
	1870		+11.5	-64.1	-	-89.5	-42.4	-	+30.0	722.0		-50,1	T.C.0.0	-23	1.60	-		
	0000		20.4	17.0	70.0	7.0	-34.8		+145	264.9	-57.0	-25.1	-57.9	+11	+39	+23		
	2000		+75.4	+47.8		-7.8		+66.5		+29.9	-37.2	+39.9	+446.6		-24	-34		
	1972		+39.5	-77.6	-42.6	-67.5	-49.6	-58,4			+74.8	-1.92	-10.9		+15	-2		
	1944	-17.7	+99.9	-0.2	-1.96	+5.6	-17.4	-310	+33.6					-39				-
	1916	+42.2	-36.5	-2.4	+9.79	+12	+36	-24.3	+17.9		+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		-
		1			-					-	-		-	-	-			-
	2018	-	-		-					040	20.4	100	. 45.4	05.4	.21	-1.2		-
	2001	714.4		-13.4	-6.5	-44.4	-52.0	-53.8	-22.4		-28.4	+10.9	+15.1	-25.1	+2.1	-21		-
	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		-	-
	1962	-48.5	+54.0	-36.1	-24.9	-47.1	+2.5	-27.6	+6.1		+103	+4.4	+58.9	+14	-11	+30	-	-
	1945	+17.1	-58.3	-67.7	+14.2	+112	-6.7	-2.23	+17.7		+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		+73.8	+33.5	-99.3	-17	-29	-13		
	1906		+57.6	+180.		+18.0	-34.9	-3.33		+10.9	+34.8	+47.4	-45.6	+10	+29	+18		
	1889		-25.8			+43.6	-27.4	+24.0			+76.8	+17.8	+45.2	+18	-34	+23		
	1003	-10,0	2.0.0	THU, I	1 4,00	1.10.0	201	LATIN	1									
	2019	1										Same.	-		- Marian			
	2002	-23.0	+16.5	+478	-70.2	-5001	-69.6	+5.43	-44.2	+64.9	-58.4	-23.4	57.9	-37.1	-31.5	-35.1		
	1985		-21.8	-4,6	-15.4	-85.6	-6.8	-44.5	-18.3		-39.2	-62.0	-44.1	-23	-20	-4		
							-22.2	-25.0	+60.6		-27.1	-35.4	-4.3	+11	+2	-3		
	1963	-24.0		-36.3	-43.0	+4.5			-16.6		-47.4	+6.4	-16.1	-8	-20	-15		-
	1946	+270		-22.0	+5.69		-9.8	-18.3						-	-12	-3	_	-
	1929	-31.6	-20.2	+46.2		-44.5	-65.4	-39.9		-22.5	+79.3	+58.1	-4.1	-18			-	-
	1907	722	-19.7	+48.8	-42.6	-19.7	-35.1	?		-53.6	-18.4	-1.2	-64.4	-8	-28	-19		-
	1890	+1.88	+84.1	+2.3	-7.57	-11.6	-39.7	-25.0		-50.7	+78.5	+38.5	-30.7	+10	+22	-15		-
	1873	-13.5		-48.2	-64.5	-53.2	-39.4	-31.5	-24.7	-16.7	+39.8	+25.6	-39.9	-27	-19	-20		

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-	JUNE		JUNE			JULY			AUGUST			EPTERMBER			Ovesca		REM	RKS	
1	2025	T	R	C	T	R	C		B	C		R	C	T	R	C			1
	2003	+11.3			-7.57		-0.9	77.85	6.2	-28.8		20.1		-8.2		+3.2			
-	1986	79.92				-28.4	+52.9	+47.3	54.8	+31.1		+20.3		-1	-5	-3		J. C.	-
- 1	1969	+6.09			77.99	+11.0	-5.0	-26.4	+53.5	-57.1	78.9			+9	+44	-22			1
				-46.5	-29.3	+25.6	-3.5	-25.0	185.6	7.2	264.9	8.09	+28.8	+35	-3	+19			
	1947	-56.9	-10				-44.4	-41.8	69.7			+35.1	-17.6	-17	-39	-8			
	1930	740.5 -32.1	+42.7			-61.0						3.52	-17.6 -33	-18	+74	-17			1
	1913	-32.1	-66.5	-13.3		-18.9	-9.7	-48.6			+15	+ 252.0	+32.2	-2	-12	+14			
- 27	1874	-45.9	+39.5	+7.3	-4.1	+50.6	-13.4	-43.8	-58.1	-39.0	T-10:	7 202.0	TOL.U		1	1			
	W												-			-			
9	2004							-	-	100	0.0	54.4	-52.3	+18	2	4.7			+
	1976	-30.7 -69.0	-2.6	-63.3	+77.3	-23.9	+24.8	+2.73		+17.4				-10	-30	-19			
	1948	-69.0	-48.1	-61.5	45.8	-35.6	-26,6	-58.7	-15.6	-48.9		-19.3		66	-30	-38		-	+
п	1920	-39.6	-39.5	-42.8	-40.6	-71.8	-99.4	+55.5	-36.6						+62	+40	_		+
	1892		+16.5		-23.5	+5.41	-32.6	?83.3	+133.1	+50.6	+148.0	+16	+31.9	+49	+02	4-4U	_		+
	1000	3 2011	1,000	- Anna Carlo	-										-		-		+
10	2005		TE E			A - 1000							00.0	- 64	100	. 60	-		+
	1983	17.42	+17.6	+19.8	+2.92	-88.9	+7.0	+85.1	+77.8	+22.4	+127		+39.6		+65	+50	_	-	+
	1960	20.2	+5 97	-12.1	-39,3	+23.1	-17.2	-67.6	-88.5	-59.9	7105.2		+60.4		+29	7.776		-	+
	1949	00.0	1516	0.4	-24.4	+13.7	+3.1	-11.9	+29.5	+8.9	+106.1	+109.0	+61.1	+5	+50	+47			-
		-20.3	+51.6	1 24 2	+4.10	+26.3	-23.5	-35.7	+46.0	-9.3	+7.67	+94.1	+16.4	+1	+24	+23			+
	1927	+55.6	+25.9	+ 24.6	-35.6	+76.6	+21	-34.1		-17.8	+76.6	+55.2	4-4.8	+10	+45	+22			1
	1910	+81.6	-22.2	12.4		+10.0	-55 1	J-67 6	35	-10.6	+15.0	-8.96	-56.6	+45	+16	+19			
	1893	+42.3	+53.4	-10.4	+10.5	1730.6	165 F	-77.B	+6200	-99.9	+65.4	+26.6	+714	-36	-7	-18			1
	1871	-41.2	-59.5	+399.6	-44.5	+31.0	+65.6	-1100	1 0200	-									1
	-						-												
11	2006						. 00.0	62.04	70.5	-10.5	753.3	+59.8	-99.3	+43	+49	+42			T
	1989		-47.9	-20.3	+72.1	+26.5	+80.2	+2.64	79.0	-10.5		+8	-16.7	+19	-10	+2			T
	1907	+17.4	-25.4	-1.7		+6.11	0.4	-25.2 -67.6	7.10	-59.9	+31.5	+11.3	+2.8	+1	-5	-9			
	1950	-51.7	-12.2	-40.7	-33.7	-20,8 -18,9	-9.4	22.0	+80.3	-29.6		-48.4	-32.1	+11	-11	-5			
	1933	+87.3	-75.1	-52.5	+116	-18.9	-6.9			-62.5	+1.00	-22	-13.5	-20	-32	-18			
	1911	+0.78	+3.47	-22.9	-36.6		-22.2	-28.4	-59.8				-0.06	+19	+11	-7			
	1894	+7.8	-45.4	-8.2	+25.4	+15.3	-51.4	+14.6	-78.6	-31.4	+3.0	-17.3			-19	+21		-	+
	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		-	+
- 10	1000000	1		100		1000									-		-	-	+
12	2007							1					-		1				+
	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	110.1	-21.5	+1	-8	-21		-	+
	1951		-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		+22.8	+27.0	+5.9	+0.3	-68.0	-18.8	+11.5	-62.4	-40.4	+5	-30	-1	_		+
	1917	+ 42 C	26.2	1.B7.7	+7.94	-38.8	-38.4	+17.2	+52.1	+3.2	+11.3	+22.0	+30	+25	+17	+38			
	1895	175	+36.3	-21.4	-7.9	+27 6	-17.4	-15.4	-27.6	-4.8	-60.3	+41.3	+25.5	+45	+2	+19		-	+
	1000	-11.0	144.0	21.7	1.0	1,441.450			1										+
13	2008	1																	
15	1980	. cc /	-17.6	+80	-34.3	-28,4	-11.6	-99.9	2017	-6.6	+2.48	-447	-37.1	+5	-25	+20	-		1
				-37.8	-59.7	-45.3	-45.0	-60.4	42.1	-51.0	-40.1	-63.6	-53.2	-30	-41	-39			
	1952		+34				-45.2	-16.7	1386	-51.0 -32.8	+105.9	+81.4	+7.4	-7	-3	+8			
	1924		-58.8	-56.6	-36.1	-13.3	-29.3	+0.18	-38.6 -21.8	-25.3	+08.2		-16.5	-24	-32	6			
	1896	-34.0	-32.3	-22.8	-18.7	-38.8	-20.0	1	2,1.0	1	1.33.00								
60	0000	-	-	-	-		-	_	1		1								
14	2009	1	1	-	1000	177	10 C	+0.63	. 20	-20.9	-52.1	-18.0	-60.6	-18	-21	-33			
	1987	-31.1		-53.8	-12.6	-6.2	-53.6	4.63	+77.2	+9.0	+36.3	+83.0	+477.5	+25	+39	-5			
	1970	275.9			-39.9	-2.8	-39.7	96.7	48.4	-20.4	714.6	+54.8	-10.3	+25	+10	-3			
	1953	-20.3	-26.5	+0.8	-56.1	+4.1	-40.1	+30.7	98.9			-33.2	+12.8	+18	-11	-12			
	1931	+50	-440	+768.	9 +12.3	-2.70	-24.0	B 43	-26.8	24.2	+67.9	160.0	+44	+27	+20	+18		1	
	1914		0 -13.6	-7.9	+11.6	-23.1	-19.7	-0.43	+42.1	-31.3	+07.9	+ 100.0	+39.4	-1	+35	-2			
	1897	-34	-42.6	-57.2	+47.5	-9.47	-48.1	-34.6	+32.1	-20.5	+ 42.4		+39.4	A second	+35	-7	-	1	+
	1875	-	+11.5	-64.1		-89.5	-47.4	-	+50.6	1.22.8	-	+58,1	1+20.0	1.50	T20	1		1	1
	1	1				-	1	1	-	-	1	-	1	1	-				+
15			1		-	1		59.0	1 40 1	10.1	-2.40	100	-1.8	-17.5	-12 0	-6.3			
	1993	-37.1		-58.6	-17.1	+19.3	-36,9	10.3	+43.4	-40.1	-14.3	+9.9	+5.1	-29	-35	-10			+
	1971	27,89		-32.3	-61,3	-26.6	-57.4	19.4	-25.4						-10	+19		1	+
	1954	-27.1	-54.6	-9.4	-30.0	+93.4		-40.2	-17.3	-26.6	278.9	-52.8	739.9	+24	-10	28	-	-	+
	1937	-50.8	+15.9	-89.6	+10.9	-9.48	-35.2	143.0	+63.1	-31.4	±11.3	±80.7						1	1
	1915	+99.	4 -39.0	+18.1	-15.2.	+58.2	-24.4	-6.40	-49.2 -42.1 +75.1	+24.4	-12.6	+58.3		+10	+6	+21	-	+	+
	1898	-20	-37.2	+5.3	+47.8	-30.2	-18,1	-34.6	142.1	-51.4	+42.4	+106.		+18		-3		1	+
	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	-	-	+
			1		1	1				-	+	-	1	-	-	-	-	1	+
16	2011					1		1			1010	1411	1	00 -	-	04.1	-		+
	1994	-29.0	-40	-55.7	-20.0	-98.9	-9.7	+6.7	-10.8	-37.2 +22.9	-71.7	-71.3	-49.3	-23.5	-34.9		-	-	+
	1977		+39.5		-42.6	-67.6	-49,6	-58.4	1.05 1	+22.9	9-37.2		+446.		-24	-34	-	1	-
	1955	-49.8	48.3	-37.B	-55.5	+17.2		1-10.0	+94.7	+3.2	+29.2	+10.6		+35	+20				-
	1938			+25	715.8	-34.1				0277	+89.8		782.2	+48	+58	-45	-	-	-
	1921		2 -4.16	-39.8	-660	+75.5		-47.2	+45.7	-30.7	+50.6	-23.2	+2.5	-1	-5	+13	-	-	+
	1899		-85.4	-57.8	-74.7	-88.4		-38.1	-37.7	-34.1	-10	+43.5		-43	-36	-32		1	1
	1882		1 4 165		-23.5	15.41	-32.6	783.3	+133	1 +50.6	+148.0		+31.9	+49	+62	+40	1		
	1002	720.	1 +165	72.4	200	73.41	1		1	1			1		-		1	1	-
	2012	1							of the same			-			1	-			1
1	1984		-56.1	-37.4	+0.50	+40	-15.2	-58.5	-84.1	-71.6	+24.6	-22	-37.8	-20	-30	-23		1	4
1			75 +21.		70.96	+800	+37.1	-30.7	-38.4	-14.3	+503.6		+19.6		+20	+40			
1		20.00							-								1	1	
1	1956		2 121	3 -56 2	-21.5	201	-20.2	-27.5	-17.4	-29.7	+102	-3.44	+9.5	+9	-5	-2			-
1		+37	3 +21.3	3 -56.2	-21.5	-38.5	-20.2	-38.7	-17.4 -78.6 -99.1	-29.7	+102	+53.8	+9.5	+10	-5	-12			1

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			June		July		1-2	August			SEPTEMBER	1		OVER	LL SEAS	ON	RÉMARKS
8	2013	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C	1100000
	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	-48.1	-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	
9	2014							-	-	-	-	-	-			1	
-	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		+48.3	-16.3	-10.9	-14.9	-28.5	+149	+31.6	+7.2	+21	+11	+10	_
	1958	-60.6	-19.5	-42.3	-10.1	-16.7	+22.7	-32.0	+105		+13.0	-10.4	-12.7	+61	+11	+10	-
	1941	+18.0		+82.5	-67.5	+578	-70.2	-33.4	-48.3	7269	+37.2	+53.6	+1.2	-32	+8	-5	
	1919	+26.6		-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		-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		-67.3	+38.5	-25.4	+5.5	-18	-18	-10	
0	2015	-												1000			
	1998	21.32	-529	-34.5	-21.5	-58.6	29.8	+15.4	+20.2	151	+49.0	+70.6	+56	50.0	- 07	OF O	
	1981	+36.3	-0.6	-26.9	+1.12	-5.9	+10.0	+7.12	-7.6	-28.9		+61.2	+24.6	-50.9	+37	+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	+26	+10		
	1942	74.76	+42.7	-12.1	-7.78	-66.7	-47.9	+22.4		-18.4	-44.5	-24.8	+34.2	+40	+10	+12	
	1925	0.28	-47.2	+1.0	+2.38	-9.2	-10	-4.93	+19.1		-0.54	-18.4	+386	-4	-20	-20	
	1903	-25.7	-680	+22.6	+54.0	-46.8	+10.2	+34.8	+30.3		+5304	+72	+7.0	-2	+39	+4	
	1886	+60.9		+25.1	+26.6	+69.4	-4.2	+40.6	+40.1		-39.9	+9.04	-99.3	+45	+21	+37	
	2016	1.50.0	1 0.00	1.0.1	120,0	103.4	7.6	T40.0	740.1	T 00.0	44.5	+3.09	-35.5	+24	+21	+30	
1	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	1.50		-
	1966				715.4	+14.3	+32.3	-7.57	+0.5		+61.3	+14.8	-27.2	+3	+50	+41	
	1932				73.97	-24.1	-13.7	+20.1			+52.6	-20.32	-32.4	+1	+20	+9	
	1904		-33.4		-4.6	-22.1	-51.4	-69			+36.9	-39.6	-41.5	-24	-10	-18	
	1876				-34.7	73.6	-52.1				-40.6	-71.1	-50.4	-38	-53	-19	-