West Peninsular India Astroclimatic Weather Forecasting Study Time Scale

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 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 Indian 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.

[Gangadhara Rao Irlapati. **West Peninsular India Astroclimatic Weather Forecasting Study Time Scale.** *Academ Arena* 2018;10(3s): 136-144]. (ISSN 1553-992X). http://www.sciencepub.net/academia. 19. doi: 10.7537/marsaaj1003s1819.

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 vears 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:

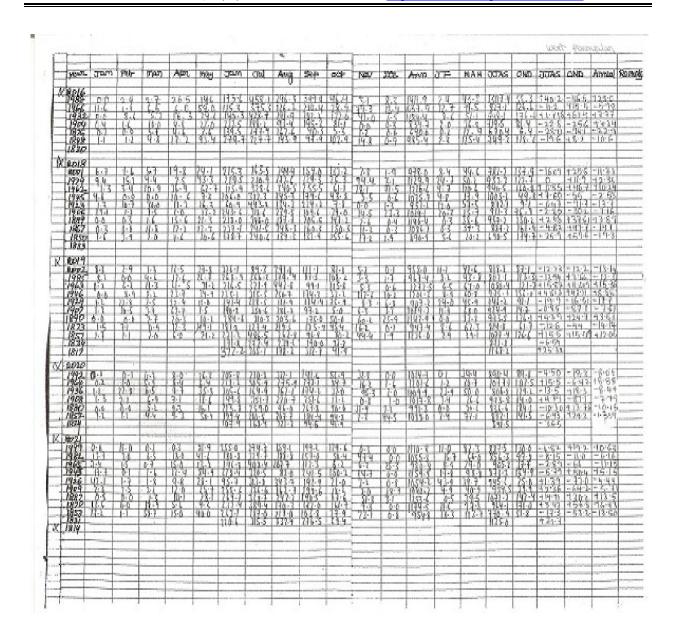
We can make many more modifications thus bringing many more developments in the Indian weather time scale and its all additional Indian weather time scale.

			Luna		Inde 1			August	-		SEPTEMBER			OVERA	LL SEAS	ON	RE	MARKS	
		_	June		July	. p	C	August	R	C	T	R	C	T	R	C	-		
	2020	T	R	interestation of the last of t	T	R		T		-10.8	-35.2	-19.1	-26	-1	-12	-6		-	
-	1992	?7.18	-9.5	-54.0	-39.2	+5	-15.8	+4.70		-11.8		+139	+95.4	+17	+16	+44			-
	1964		+21.3	-15.0	-36.6	+108	-13.4	?99.5		-32.3	+7.82	+21.2	-39.2	-3	-29	-5			
	1936	+31.7		-13.0	-14.1	-35.3	-7.00	-12.5	-65.7	-32.3	+10.8		+48.4	+38	-9	-2			
	1908	-32.3		+69.9		-29.4	-50.9	-9.13	-57.2		+56.2		-51	-11	-18	-30	-		
-	1880	+21.5	+15.2	-99	-24.0	-50.2	-46	-60.7	+2.63	-99.4	+50.2	+19.7	-31	-11	-10	-50			
-	2017										-		100	00.5	07.4	40.0			
I	1995	-1.01	-11.5	-36.2	-13.6	+6.5	-20.9	-46.7		-23.0	-71.7	-17.3	-49.3	-33.5	-27.1				-
t	1978	-78.2	-7.7	+26.2	-1.17	+57.5	+6.9	+47.0			+169.0		+8.0	+50	+37	+55			9.
İ	1961	+34.0	+27.8	+70.9	-37.9	+32.9	-24.3	-8.35		+13.3	+20.0	-49.6	-6.1	+12	+1	+30			-
t	1939	-38.0	-20.5	-38.2	-44.6	-34.6	-42.3	-27.5	+13.9		-3.95	+81.7	-13.5	-28	-12	-23			-
ł	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			_
1	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		+85.1	-32.1	-56.6	+31	-4	-21			-
-	0004			-				-			-		-					_	
	2024	. 40 =	. 00 *	. 10 7	-32.4	-21.4	-17.3	+21.1	+96.6	-9.8	-4.49	+51.2	+19.3	-3.6	+83.	+46			
	1996	+13.5		+13.7			-38.4	-82.5	-34.2		+1.007		-26.6	-20	-18	-39			
	1968	-330	-28.3	-38.7	-28.0	-39.4			-33.9		-26.2	+35.0	-21.5	-5	-5	-3			
	1940	-19.8	+24.3	-2.0	+9.24	-159	-34.0	-89.9		+15.3	-12.1	+41.4	70.3	-15	+1	+10			-
	1912	-61.1	-53.3	-74.3	+12.5	-20	-5.6	-11.8			+65.6	-30.9	+8.1	+12	-48	-1			-
-	1884	-38.8	-53.7	-69.4	+40.7	-43.1	-33.7	-23.1	-25.0	•10.5	700.0	-30.8	+0.1	+12	-40				
	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			
1					+27.6	+0.5	-24.1	-28.6	-66.3		+12.4	+17.0	-27.0	+1	-5	+13			
	1982		+59.3	-34.4	-44.5	-23.3	-24.2	-27.0	+2.08		+80.8	-7.04	?2.0	+10	+3	+3			
	1965	-51.1	+40.2				-35.8	-50.5		+27.8	+99.1	+1.76	-14.9	-5	-20	-20			
	1943		-54.8	-20.8	-31.4	-30.9			-31.4		-18.6	-36.7	-5.3	-25	-2	-1			
	1926	-69.7	+32.3			-33.5	+1.8	-19.4			+1.24	+26	+4.3	-12	+44	+7			-
	1909	-6.87	-45.4	-32.6	+0.71	-45.4	-22.4	-35.9	+2.06		+148.0		+31.9	+49	+62	+40			-
	1887	+20.1	+165	+2.4	-23.5	+5.41	-32.6	?83.3		1+506	+ 140.0	-58.1	+25.5	-29	+25	-7			+
	1870	-	+11.5	-64.1		-89.5	-42.4		+50.6	-22.8		-50.1	+20.0	-29	+23	-1			
	2000	+56.9	+75.4	+47.8	-22.9	-7.8	-34.8	+66.5		?64.9	-57.0	-25.1	-57.9	+11	+39	+23			_
	1972	20.93	+39.5	-77.6	-42.6	-67.6	-49.6	-58.4		+29.9	-37.2	+39.9	+446.6		-24	-34			₽
	1944	-17.7	+99.9	-0.2	-1.96	+5.6	-17.4	-310	+33.6		+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	1		1
	1888		-55.3	-56.2	-4.76	-53.2	-32.5	-43.6	-42.2	-57.4	-49.3	+72	-57.6	-28	-14	-39			
	2018		-	-	-	-													T
	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			-	
	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		-24.9	-47.1	+2.5	-27.6		-10.5	+103	+4.4	+58.9	+14	-11	+30			
	1945		-58.3	-67.7	+14.2	+112	-6.7	-2.23		-26.6	+18.9	-15.6	+6.3	+8	+15	-1			
				-75.5	+3.97	-53.4	-57.5	-54.2	-80.7		+73.8	+33.5	-99.3	-17	-29	-13			T
	1923	-80.1		-			-34.9			+10.9	+34.8	+47.4	-45.6	+10	+29	+18			T
	1906		+57.6			+18.0		-3.33	-		+76.8	+17.8		+18	-34	+23			
	1889	-16.6	-25.8	+50.1	+2.55	+43.6	-27.4	+24.0	+20.8	-00.2	1 10.0	F11.0	1 40.2	+10	0.	120			
	2019				1				110	. 64.0	59.4	22.4	E7.0	07.4	21 5	25.1			L
	2002	-23.0			-70.2	-50:1	-69.6		-44.2		-58.4	-23.4	57.9	-37.1	-31.5		-		+
	1985	+19.3	-21.8	-4.6	-15.4	-85.6	-6.8	-44.5		-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		-27.1	-35.4	-4.3	+11	+2	-3			+
	1946	+270		-22.0	+5.69	-39.7	-9.8	-18.3		-30.5	-47.4	+6.4	-16.1	-8	-20	-15			-
	1929	-31.6	-20.2	+46.2		-44.5	-65.4	-39.9	-69.5		+79,3	+58.1	-4.1	-18	-12	-3			L
	1907	?22	-19.7	+48.8		-19.7	-35.1	?	-74.6	-53.6	-18.4	-1.2	-64.4	-8	-28	-19			L
	1890		+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			1

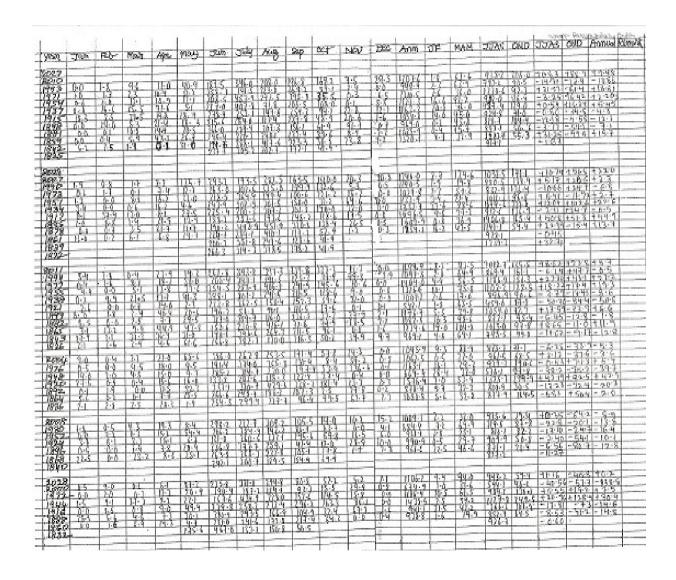
1	JUNE T		JUNE			JULY			AUGUST			SEPTERMBER			Oveson	0	REMA	nno	
		T	R	C	T	R	C		R	C	T	R	C	T	R	C			
	2025							?7.85			-1.86	-20.1	-13.2	-8.2	8	+3.2			
1	2003	+11.3	-14.8	-21.6	-7.57		-0.9			-				-1	-5	-3		7	
t	1986	?9.92	+5.6	-19.6	-21.4	-28.4	+52.9	+47.3	-54.8	+31.1		+20.3	-43.6						
		: 0.02	+11.3		77.99	+11.0	-5.0	-26.4	+53.5	-57.1	-78.9	-73.9	-20.6	+9	+44	-22			
	1969											20.8	+28.8	+35	-3	+19			
ſ	1947	-56.9	-16	-46.5	-29.3	+25.6	-3.5	-25.0		-7.2						-8			-
	1930	740.5	+42.7		-46.6	-61.0	-44.4	-41.8	-62.7	-48.7			-17.6	-17	-39				
							-9.7		-69.7	-63.8	-3.9	-3.52	-33	-18	+74	-17			
	1913	-32.1	-66.5	-13.3	-	-18.9						+252.0		-2	-12	+14			
	1874	-45.9	+39.5	+7.3	-4.1	+50.6	-13.4	-43.8	-58.1	-59.8	+15	T ZUZ.U	102.0						
-		-								-	The same of the sa								
-		-		-															
L	2004						04.0	. 0 72	. 02 4	+17.4	20	-54.4	-52.3	+18	2	+7			
	1976	-30.7	-2.6	-63.3	+77.3	-23.9		+2.73						-10	-30	-19			
1	1948	-69.0	-48.1	-61.5	-45.8	-35.6	-26.6	-58.7	-15.6	-48.9		-19.3	-8.1		1				-
-							-99.4	+55.5		-47.4	-22.7	+24.3	-35.6	66	-30	-38			
-	1920	-39.6	-39.5	-42.8	-40.6	-71.8					+148.0		+31.9	_40	+62	+40			
	1892	+20.1	+16.5	+2.4	-23.5	+5.41	-32.6	783.3	+133.1	+50.0	+140.0	+10	T 31.3	170		1 10	-		
H	1002	1 2.0.1	1 .0.0																
			-		-													1000000	
	2005	5						0.00		+22.4	. 107	+160	+39.6	+51	+65	+50			
1	1983	+7 42	+17.6	+19.8	+2.92	-88.9	+7.0		+77.8		+161								
+					-39.3	+23.1	-17.2	-67.6	-88.5	-59.9	?105.2	+167	+60.4	-9	+29	+12			-
1	1960		+5.97	-12.1						+8.9	+106.1		+61.1	+5	+50	+47			
I	1949	-26.3	+51.6	-8.4	-24.4	+13.7	+3.1		+29.5						+24	+23			
- 1	1927		+25.9		+4.10	+26.3	-23.5	-35.7	+46.0	-9.3		+94.1	+16.4	+1				-	-
1							+2.1	-34 1	+62.9	-17.8	+76.6	+55.2	+4.8	+10	+45	+22			-
1	1910		-22.2	+20	-36.6	+76.6				-10.6	+15.0	-8.96	-56.6	+45	+16	+19		and the same of	
	1893	+42.3	+53.4	-13.4		+98.2	-55.1	+67.6	-33	10.0				-36	-7	-18			
1	1871 -			+399.6		+31.0	+65.6	-77.8	+6200	-99.9	+65.4	+26.6	+714	-50	-1	-10			
	10/1	-71.6	00.0	1 300.0			1		-	1			1						1
1			-	-	-				-	-			1						
1	2006					-			-	10 -	0000	FOC	00.0	1.40	1.40	+42			
1	1989	⊥71 Ω	-47.9	-20.3	+721	+26.5	+80.2	+2.64	-79.6	-10.5		+59.8	-99.3	+43	+49				-
-							-0.4	-25.2		-55	+28.3	+8	-16.7	+19	-10	+2			
1	1967		-25.4	-1.7	+51.5						+31.5	+11.3	+2.8	+1	-5	-9			1
-	1950	-51.7	-12.2	-40.7	-33.7	-20.8	-9.4	-67.6		-59.9									1
	1933		-76.1	-52.5	+116	-18.9	-6.9	-22.9	+80.3	-29.6	?49.7	-48.4	-32.1	+11	-11	-5			1
-								-28.4		-62.5	+1.00	-22	-13.5	-20	-32	-18			
-	1911		+3.47	-22.9	-36.6	-26.4	-22.2						-0.06	+19	+11	-7			1000
-	1894	+7.8	-45.4	-8.2	+25.4	+15.3	-51.4	+14.6		-31.4	+3.0	-17.3							-
		-43.2			-75.6	-65.4	-53.4	-58.5	-48.5	-56.3	+15.9	+7.20	+21.4	-39	-19	+21			-
	1877	-43.2	+3.41	-70	-13.0	-03.4	00.1	-	1010	1	1								
2						-		-	-	-	-	-	-			-			1
4	2007									1					-	-			-
		. 40 (202	-9.3	-39.0	-45.2	-54.4	+49.2	22	+6.1	+10	+32.3	-99.3	+11	+8	-2			
	1990		-29.3								-40.0	+10.1	-31.5	+1	-8	-21		CONTRACTOR DESCRIPTION	1
- 3	1973	+0.31	+0.5	-33.6	-9.41	-29.8	-48.7		+15.4							+11			
- 8	1951		-15.9	+3.1	-5.77	-7.8	+28.6	-405	-62.2	-26.4	-0.3	-33.6	-31.4	-10	-33				-
							+5.9		-68.0	-18.8	+11.5	-62.4	-40.4	+5	-30	-1		1	
	1934	-3.04	+25.6		+22.8	+27.0						+22.0	+30	+25	+17	+38			
	1917	+43 9	+36.3	+87.7	+7.94	-38.8	-38.4		+52.1	+3.2	+11.3							-	-
	1895		-44.5	-21.4	-7.9	+27.6		-15.4	-27.6	-4.8	-60.3	+41.3	+25.5	+45	+2	+19			-
	1093	C.11-	1-44.0	-41.4	1.3	TE1.0			1							4			L
					-	-			-	-	-		-	-	1		-		-
3	2008	1		1				1		1		-	1	-		- 00	-	-	-
-		, 00	170	+80	-34.3	-28.4	-11.6	-99.9	2017	-6.6	+2.48	-447	-37.1	+5	-25	+20			-
	1980		17.6					-60.4		-51.0	-40.1	-63.6	-53.2	-30	-41	-39			1
	1952	-50	+34	-37.8	-59.7	-45.3	-45.0							-7	-3	+8			1
	1924	1.486	-58.8	-56.6	-36.1	-13.3	-45.2	-16.7	-38.6	-32.8	+105.9	+81.4	+7.4	-				-	-
							-29.3	+0.18	3 -21.8	-25.3	+08.2	-31.2	-16.5	-24	-32	6			
	1896	-34.0	-32.3	-22.8	-18.7	-38.8	-23.3	10.7	721.0	10.0	1		1			1			
									-		-	-	_	-	-	-			_
4	2009					1												-	-
			20.5	F0.0	100	0.0	-53.6	+0.63	+30	-20.9	-52.1	-18.0	-60.6	-18	-21	-33	000000000000000000000000000000000000000		
	1987	-31.1		-53.8	-12.6	-6.2					+36.3	+83.0			+39	-5			1
	1970	?75.9	-5.1	+41.5	-39.9	-2.8	-39.7		4 +77.2									-	-
	1953	-20.3		+0.8	-56.1	+4.1	-40.1	-35.7	-48.4	-20.4	?14.6	+54.8		+25	+10	-3		-	-
							-24.0		0 -26.8	+39.2	+14.3	-33.2	+12.8	+18	-11	-12			
	1931	+50	-440		9 +12.3							+60.8		+27	+20	+18	1		1
	1914	?159	0 -13.6	-7.9	+11.6	-23.1	-19.7		+42.1	-31.3	+67.9							-	1
	1897	-34	-42.6	-57.2		-9.47	-48.1	-34.6	+32.1	-26.5	+42.4				+35	-2	-	-	-
					177.0		-47.4		+50.6			+58.1	+25.5	-29	+25	-7			
	1875	-	+11.5	-64.1	1	-89.5	1-41.4	+	11.00.0		-	1	1	1	1	1		1	1
	-				1	-	-	-	-	-	+	-	-	-	-	-	Í	1	-
5	2010											1		1	-		-	-	-
		27 4	-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			
	1993	-37.1						-19.4		-24.6	-14.3	-46.7	+5.1	-29	-35	-10			
	1971	?7.89	-31.3	-32.3	-61.3	-26.6	-57.4										1	1	-
	1954	-27.1		-9.4	-30.0	+93.4	-4.8		-17.3	-26.6	?78.9	-52.8	?39.9	+24	-10	+19		-	-
							-35.2	-43.5		-31.4	+11.3	+86.7	+444.	8 -18	-11	-28			1
	1937	-50.8		-89.6		-9.48							-14.9	+10	+6	+21			
	1915	+99.	4 -39.0	+18.1	-15.2.	+58.2	-24.4		-49.2	+24.4							-		
	1898	20	27.2	1.53	1.47 8	-30.2	-18.1	1-34.6	-42.1	-51.4		+106.		+18	+3	-3		-	+
		100	145	+41.2	EG 7	70.0	-72 2	-34.2	475 1	-123	+41.0	+12	+10.4	-36	+5	+4		1	1
	1881	-18.9	1+15.0	+41.2	-30.1	1-18.3	-10.0	-	1 10.1			1000000	-						T
			1						-	-	-	-	-	-	-	-	1	1	1
6	2011																	-	-
v			10	EF 7	00.0	000	-9.7	+6.7	1-10.8	-37.2	-71.7	-71.3	-49.3	-23.5	-34.9	-21.4			
	1994		-40	-55.7	-20.0	-98.9		-EQ A	10.0						-24	-34			1
	1977	20.93	+39.	-17.6	-42.6	-67.6	-49.6	-30.4	-85.1		.9-37.2		+446.				-	+	1
	1955		-48.3	-37.6	-55.5	+17.2	-39.2	-16.5	+94.7	+3.2			+1.0	+35	+20		-	-	-
							1		8 + 13.9			+81.7		+48	+58	-45			
	1938	795.6	733.3	+25	?15.8	-34.1										+13		-	
	1921		2 -4.16		-660	+75.5	+2		+45.7			-23.2	+2.5	-1	-5			+	-
					-74.7		-68.4	-38.1	-37.7	-34.1	-10	+43.5	-22.9	-43	-36	-32		_	
	1899					-88.4					+148.			+49	+62	+40			
	1882	+20	1 +165	+2.4	-23.5	+5.41	-32.6	:00.0	+133.	1 7 30.0	T 140.	TIO	101.3	170	104	1.10	-	1	1
										-	-	-	-	+	-	1	i	1	1-
17	2012			Control of the Contro													-	1	-
1/				07.	.05		15.0	-58 5	-84.1	-71.6	+24.6	-22	-37.8	-20	-30	-23			1
	1984		-56.1					00.7										-	1
	1956			8 +32.8		+809	+37.	8 -30.7		-14.3		6 +38	+19.6		+20		-	-	-
							10	-27.5	-17.4	-29.7	+102	-3.44	+9.5	+9	-5	-2			
	1928			8 -56.2	-21.5				-78.6				+10.0		-2	-12	1		
		1 110	9 -30.1	-47.8	+29.3	+48	-19.3	35-7		-63.6								-	
	1900																		
	1900		5 -13.8	-0.2	-29.9	-17.7	-18.1	-45.0	-99.1	-9.49	+44.4	+54.3	+16	-25	+4	+18			+

			June		July			August			SEPTEMBER			OVER	ALL SEAS	ON	REMARKS	
18	2013	T	R	C	T	R	C	T	R	C	T	R	C	T	R	C		1
	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		1-
	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	200	
	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		1
	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	-	+48.3	-16.3	-10.9	-14.9	-28.5	+149	+31.6	+7.2	+21	+14.1	+15		-
	1958	-60.6	-19.5	-42.3	-10.1	-16.7	+22.7	-32.0	+105		+13.0	-10.4	-12.7	+21	+11	+10		-
	1941	+18.0		+82.5		+578	-70.2	-33.4		7269	+37.2	+53.6	+1.2	-32	+8	-5		-
	1919		+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		-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	-19	-18	-10		-
																		-3
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		
04	2016	1	1	1	1		1		L									
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		?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		73.97	-24.1	-13.7	+20.1	+22.0	-36.2	+52.6	-20.32	-32.4	+1	-10	-18	1	
	1904	+15	-33.4		-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		

- 4-	i oe e	-	- grane		1								-			-	-		- pen	<u></u>		
	7	306	AF.	of an	ARX	Mag	3/04	74	Aug	100	00	New	DE	Ann	JE	MAH	377AS	CIND	JJAS	dND	Amma	Febr
1	2012	10.75			-	-									-				-			
	1984 1956	012	14-2	to be supplementally to the	2.9	1-4	172.9	353%	11.9-5	147.7	1036	3.1	3.3	9460	14.4		KI10-2	110-1	-8-85	4046	-190	
-	J M 2.9	1 6 1	6.30	9.63	19.5	V62		Married M	212.0	新 安	178.2	Ang	13:0	19179	transfer or service	H63	111506	19241	4146	1476/8	6-13840	_
	1500	1.2	616	2+2	1970	0.4	13010	3334	295.4	49.3	94.0 14.0	121.3	911	tot leil	24110	201	dend.	425	+247 +253	a like	18.12	-
-	1872	20	0.0	9.0	200	40.0	1825519	30.213	15000	DOMESTIC	Chill	26	200	Willey.	6.8	31-1	0668	55.4	42.37	-16.3	-166	-
-5	凞	0.9.	14	8.0	2.3	66.1	8924)	2300	111817	154.6	56.13	ENE	448	QUS.S.	3/5	En C	83013	800	-10:7	-44	-11-60	
1	1	015	0.12	34	910	2344	7004.2	148.4	mark to	-		20.0	-	1-58.6	12	5	941-4	100.00	-7.65	41-27	17.70	
T to	1700 1947	-	1000	-		47.004	-	-	0.00		100,42	MAN.	300	10514	0.5			185.74	1.12	1165	-0.17	-
-	1771	1.6	100	109	300	35.5	3200	20940	(334)	68.4	20:0	14+2	044	1650-6	70H	441	96619	3004	13:60	-134	-4150	
1 10 100	盤	65	100	C+9 1815	25.0	280	19015	2842	89346	143/4	Secret	10.3	100	1033/2	0.9	9540	96619 1334 1334		= h-7	1586	-2/10 -1/2/3 - 1/2/3	
	1925		0.0	0.2	1614	11.2	1966	2004	20899 2089	1994	844	JAND Hote	0.0	1000	16.3	Sant	922-0	DIS.	# D-D-1	1630	1-13-6	-
-	1968	599	Colo	316	5.0	147.4	105.5	1000 4	10014	900	641	230	219	663.9		152.4	933/\$ 45924	502	-512	- 504	-394	
OBTE	1974 1974	OLT.	18:0	13.9	13.3	32.2	234.5	2928	279*7 223.6	33:3	6110	9.5	50.6	barg.	32.2	9816	1,746	111	-164	-346	6.52	
or or many	1862	Liti	014	3.3	3-5	华色	258.5	289.07 Qr10	1000	2007	100-1	16.2	7.6	1073-2 345-4	0.9	87.2 10.3	823.C	1525	-0.00	455	-000	-
	1862 1883	Sep.	3-4	9,5	9.5	6.8%	100	2000	1336	(Leek		13.12		912.6		2012	800.7	1490	-898 -125	203	11.64	
itisalas	1003				-		75	36000	3554	026	404					4.00	11364		+214	-80.		
X	裫	- dela				-					Victoria.						The same of the sa	-		-		-
-	1234	15:0	6.0	5.3	242		2018			113-3	52.2	594	602	14/3-3	100 12843	1/3:5	12313	136/2	-11-62 +24-5	1519	-406	
-	盤	618	140	100	316	36.9	332.0	3169	283 G	30616	(1900)		0.00	12880	12343		0.09-5	18103	\$ 2.5 A	165.05	1755	-
	1941	16.5	5.3	23	3.6	10 . 6	564-0 118-9	269/2	CONT.	65.6	5319		310	127 n. p. 3 13 5		32.4 84.4	1223 ft. 45642	930	23118 -278	- 76	720	-
	1997 1992 1992	1.4	4.0	24	6/4	33.40	2300	5919	187.5	204.13		45.3	list.	bernen.	15.5		2 12-1	IIC VA	-6/61	15:00	-4.80	
-	1885	0.0	0.0	0.4	94	1300	13049	2550	1954	263.9	3.00	350	5006	10/2/3	1/9	2244	是为这个	16012	-10/5	446.7	-16	
	1863	1+9	0.9	Cont.	13/6	381	118-9	27745	2154	1844	(2n+3)	26.6	ims 8	加州子作	013	503	703.3	18712	-13.74	4315	m (4.4)	
-	1863	0.0	0×4 34/0	24 vc 0 · 2 3 · 0	1016	S+2 Gree	336.6	2614 2614	Tree 3	1684	22%	3113	25	5(X)-6. 1730-1	7.0	V2-0	School C	99.5	-4.16 -14-16	= 39/8 = 10:00	+10.6	-
	100 W	2-2	2:3	340	9.7	SIL	3365	2328	135.7	444.	442	2.4	25-3	REPLD	443	83.5	321-3	77.0	-2)-9	-293	-212	
X	epis Pers	8 -			- Company	200				-			-	W. 197				-	-	man of the last		-
	强剂	910	0.3	540	919	37.3	132.2	Zio-3	219.1	3897	129.3	304	50	4954	216	UCs1	111516	2216	1228	1102	128.8	-
1	1424	17.5	011	0.3	16.5	28-0	24.5 2842	323.7	342/8	230 st	6113	7.00	516	1266.9		240	117.003	346	4200	-34-7	114.8	-
_	1996	0.0	819	312	23-2	30.9	2350	17.0	235	340.3	330		1012	120h2		State	11 11/03 9 4 6 6	1374	1461	-4956 -4956	40.00	-
-	腦	616	6m	16	16.12	574	2/21	13:2-7	132.5	95195	68.00	Sept.		2564	0.0	6848	669.3	DE al	4382	有名字等	1-243	
-	100	010	0.0	012	34	454	113.63	APRIL N	2.409	1934	1350	22.0	6/0	1268/0		471	lo (Red)	1451	+122	4434	14.14.6	-
	1824	015	0.0	0.14	2/4	5244	3004		284		190-12 83-12			129bg	0.6	Shall Shall	999-0	123-6	+ 5-50	710 £	1102	-
	100 0000	12	36	516	HIED	Stee	1900	28.6	16.2+7	1250	ROIR	1641-9	D29	1041-2	950	215 135/4	892 p. 106-7 4240	15.70	-13:5	± 40%	72.41	
00	膽	24	212	340	19.4	150	1844	7,1010	14641	10615	630	Rel "	317	2504	446	1918	4248	Mary	- 21-3	-32	-227	
-00	#217 1992 1928	26/4	lio I	12:2	13.2	79.1	liv.u	342-6	16	110	Ma. 2	2-2	454	199.9	9.5	Have 1	141213.	1200	47.50	4728	40.24	-
		-	Park	819	764	86.5	2,99.49	2304.1	20246	tStall 1	Buch 1	hin. C	20.0	Oak Late	32.5	21/2	923-6	1930	110.60	学育马克	71.63	
-	1961 1984	211	3.5	4.0	10:14	162/31	365 BL	400.0	26141	100,64	100ng	fel	P.0.	258.4	5.6	[20-]	204-8	16.4	47.72	4613	1174	
-	1422	3115	0.0	0.2	Julia I	146	134.5	Sec. 1	206.5	Inn to	(2.)	52at 6	943	Yava	6.6	19.4	931-6 1001-8 1201-1 1001-1	101	-16-30	20 July 1	700	
	E.	Jul 1	3,0	765	4.4	0.00	1800	3295 2296	2001	1200	600					32.2	616 1	10 2351 66 400	-754	1.300	一品	-
+	803	9+4	4.0	1016	7.9	23	平山	340-5	28314	2600	14118	16.4	501	2.9.5	219	336	19994	152.3	411-9	र प्रमु	1350	
-	189-0	6.3	100	3.6	79.5	1207	152-4	2124	2396	9716	13.5	49	513	9660	BAL	18.9	843+3	16316	275	75.5	71242	
	83	25.5	217	17.4	22.2 500	5105	168.0 261.4 15.2-4 25.42 294-0	9-0-0 9-0-4	12/14	127.4	35.5	1316	12.2	15000	98.3	22.0	23574 Barrer	31/9	- NO. 6	-255	19.65	-
-	-			-	-	-	-				1910	41.4	5.5	1272	4217	Trod.	124.10	(6.1.1	1276	5.00	1247	
-		775.00												-								
	1			-						75	Titleman.	Table II	-	(manual)					70704			-
1	100				2000	-					70000		-	17	-	-				-	7777	-



J	hanne				ZAUAS	12	JF.	Amb.	860.	MBZ.	cet	Sep	Aug	तुर्ध	Jun	Prom	Agen	maa	Hō-	atturn	ycies.
	925-9 185-9 185-9 146-3 166-3	13.6 3.1-3 2.32-1 2.12-1 3.13-2 3.13-3 3.13-4 3.13-1 3.13-1 3.13-1	# 286 - 19 61 - 19 61 - 19 65 - 19 65 - 19 65 - 19 66 - 10 66		1/49 0 1/49 0 1/4 5 1/4 5 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1	SL-19 24-7 24-7 28-4 28-4 28-7 18-7	70.7 0.7 1.6 1.6 1.0 1.1					79 9 79 9 79 9 79 9 79 9 79 9 79 9 79 9		1106-1 745-1 145-1 146-1 146-1 147-1 147-1 147-1 147-1				9:9 1:1 20:9 7:5 2:1 6:1-7 1:4	8.9 5.0 1:1 1:2 8.0 5.0 8.0 8.0		7 8022 1965 1965 1967 1977 1977 1977 1987 1987 1987 1987
24	4 3-3- 4 1-1 - 2 94-3 4 2 9 9 - 30 0 1 5, 4 - 15-4 - 30-5	- 56.1 -10.0 -20.0 -20.0 -10.5 -10.5 -10.5 -10.5 -20.5	+ 12 25 + 4 18 + 5 13 + 5 13 + 5 13 - 2 20 + 5 14 - 30 27 - 30 27 - 30 27 - 31 22 - 30 27 - 31 22	35.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7846-8 893-7 1841-9 1761-9 1763-9 1763-9			1 3 2 1 1 5 1 4 4 1 5 1 4 4 1 7 4 7 1 7 4 7 1 7 5 7 2 1 5 7 3 6 7	14.5 2.5 2.6 2.6 2.7 2.13	(4.5) (4.5) (4.5) (4.5) (4.5)				発力	196-6 165-9 748-8 199-9 199-9 189-9	10-3 13-4 14-9 16-2 14-9 11-9 11-9	1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	19 9 93 44 14 703 103	0-0 0-4 3-9 6-4 0-0 6-9		8021 8866 1283 1967 1977 1977 1877 1877 1877 1877
ないという	15.06 -16.10 -11.55 -11.2 13.71 13.71 13.71	+ 43 - 16-5 - 54-1 - 24-3 + 25-	+ 1017 - 1805 + 1805 +- 1206 +- 1206 +- 1206 - 1848	150 3 92.1 109.1 109.2 199.2 191.2 711.3					1-6 1-0 16-7 2-3 2-3 2-3 2-5		野	-	1			-	19.9 (\$1 29.8 18.5 18.6 18.6 18.6		15 15 15 15 15 15 15 15 15 15 15 15 15 1	6 L 9 1 9 1 9 1 1 1	98739 1964 1964 1982 1883 1888
では、これにはなる子	-	- 550 - 550	36 - 56 1 - 31 3 2 6 3 4 - 6 1 4 - 6 1 4 - 6 1 4 - 7 1 5 -		418-4 997-0 1985 1883 1883 1883 1883		9.7 75.7 20.4 20.4 5.4 9.2 9.3 9.3 9.3 9.3 9.3	\$121. 1727. 1727. 1727. 1727. 1727. 1720. 1720. 1720. 1720. 1720.		13.1 29.1 27.1 2.1 1.1 4.5 4.5	91-6 14-7 14-7 16-7 16-7 13-0						13:4 3:0 (3:3 (3:3 (3:3 (3:3 (3:3 (3:3 (3:3			1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	8024 2002 1903 1903 1903 1904 1904 1904 1904 1904 1904 1904 1904
ではるまで 可を 切り	7 - 1.5 14 + 18 6 3 12 1 7 1 2 1 1 1 2 0 1 1 2 0	7 - 33 1 + 35 1 + 122 0 - 55 1 = 11 1 5 - 33 3 + 16 3 + 50	- 12:9 1: 25:3 1: 1: 1: 2: 3 1: 1: 2: 3 1: 2: 3 1: 3: 4 2: 4 2: 5 2: 5 2	7 C 4 6 6 6 6 6 6 6 6 6	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		17.1 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18	11.11.1 11.15.2 11.14.2 11.14.2 11.14.3 11.14.3 11.14.3 11.14.3 11.14.3 11.14.3 11.14.3	77.1 6.0 11.9 11.7 8.1 5.1 5.1		-	-	-				\$10 19.9 17.6 17.6 18.6 18.6 18.3		5.7 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3 6.3	VI.5	1970 1970 1970 1981 1981 1981 1981 1981 1981



3/25/2018