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BS	Osulação e Época	Equin.	L	M	W	Ω
1881	1878 Oct 31.5	1878	35° 25' 57"	282° 44' 24"	112° 41' 33"	177° 28' 56"
82	1878 Oct 24.5	1880	27° 53' 53"	259° 3' 17"	128° 50' 36"	178° 0' 23"
1883	Oct 26.0	"	36° 13' 55"	290° 56' 42"	288 15 19	177 1 54
1884	1881 Mar 4.5	1881	144 52 6	39 14 36	34 22	3 8
85	1882 Apr. 28.0	1880	197 29 18	92 0 21	27 42	4 15
86	1883 Jun. 2.0	"	247 55 4	142 16 0	39 6	176 59 57
1889	1886 Oct. 24.0	1886	43 52 3	297 28 12	289 21 33	177 2 17
1890	1887 Dec 18.0	1890	96 44 11	350 17 2	21 58	5 11
1891	1889 Mar 2.0	"	152 7 33	45 44 44	18 7	4 42
1891	1890 Mar 16.0	"	207 35 43	101 22 14	8 35	4 55
1893	1891 Jun 20.0	"	258 4 23	152 0 33	288 58 34	5 16
1894	1892 Jul 24.0	"	308 34 31	202 39 19	49 50	5 22
95	1893 Aug. 28.0	"	359 5 11	253 15 6	44 47	5 18
96	1894 Nov. 11.0	"	54 37 40	308 56 19	36 21	5 0
97	1896 Jan 25.0	1900	110 6 20	4 41 23	18 34	6 23
99	1897 Jan 19.0	"	155 4 57	50 29 23	287 37 38	176 57 56
1900	1898 Mar 14.0	"	111 52 6	286 40 40	176 58 33	6 8 19
01	1899 Jun 18.0	"	161 41 44	2 24 48	57 35	8 18
02	1900 Jul. 23.0	"	212 25 24	18 31	56 27	20
03	1901 Aug. 27.0	"	265 5 50	16 4	56 8	23
04	1902 Nov. 10.0	"	318 49 13	12 46	0	22
1905	1904 Jan 24.0	"	14 26 23	286 11 9	55 34	6 8 22
1907	1905 Abr. 8.0	1910	70 49 58	17 0	177 3 58	15
1908	1906 Mai 13.0	"	121 5 42	25 31	15	10
1909	1907 Jun 17.0	"	171 20 14	34 33	1 44	9
1910	1908 Jul 21.0	"	221 36 31	40 45	0 31	13
1911	1909 Oct 9.0	"	276 57 38	42 50	12	17
1912	1910 Nov 8.0	"	327 17 18	44 42	17	17
1916	Osulação	Época 2 Equin.	M	W	Ω	i
1916	1910 Nov 8	0 Jan 1925, 6.5	258° 52' 3"	286° 7' 44"	177° 21' 5"	6° 13' 6"
1925	[1925 Oct. 15]*	1925 Jan 1.0	259° 54' 5"	286° 7' 22"	176° 8' 83"	6° 15' 6"
?	[1928					

C5112 1878 Dec 1.5 1878 170 38 7 63 50 25 180 9 6

i	q	μ	log a	Autenticação
6° 17' 53"	80 28' 0"	14723 462.0277	3.8925	590226 A. Leman EL 3 obs.
6° 30' 9"	50 24' 1"	09411 477.5511	3.8076	0.580658 Oppenheim (Berlin). - 1ª oposição BV
7 1	90 18' 22"	16171 454.0674	3.9378	5952575 Küstner, F. (II). - " BV
7 1	20 29' 16" 232	453.8588	9.390	5953906 " BV
6 50	24 10' 16" 332	452.7389	9.455	5961059 " y BJ(30), from 3 opp. CJ 179 St.
6 6	15' 16" 340	4692	9.471	2784 Küstner CJ 206 BJ 1886(29): 4 opp. BV
6 48	21 2' 16" 247	77622	9.453	0820 " EL opp. 1878-81-82-83 BJ 89
6 45	19 51' 16" 213	99802	9.440	5959402 " BV opp. 1878-86 CJ 303. ± CJ 284
6 48	18 11	453.42870		6650 "
6 52	17 12	77172		5794 "
6 53	16 58	97834		3143 "
53	17 39	454.11046		2301 "
54	18 52	14236		2097 "
50	20 34	453.78251		4392 "
44	27 23	452.02969		5965597 "
6 7 57	9 29 16	452.38283	3.9476	5963337 Küstner, F.
q	μ	log a		
9 30 12E	454.2187	0.59516103	9.364	Küstner, F.
31 56	7882	5947983		"
33 57	455.1028	5981		"
35 35	1910	5419		"
37 3	454.9743	6798		"
9 39 14	4574	5950090		"
41 5	453.9939	3044		"
46	174256	4647		"
37	59017	5319		"
40 49	49660	6217		"
39 33	47043	6384		"
38 10	68733	5000		"
q	μ	log a	Ref.	
9.636	453.687	0.59550		São Iguais
9.696	454.267	0.59513		só mudou o equinócio.
				Seir Jahrgang 1912
				(?) 8r em 1922 e 1923
				(?) 8r em 1925
				* : data da oposição
				W. Mooskowa St 7, 7. (o.B). KP 1928
				St 7, 7. em 1929, 1930, 1931 (o.B)
7 28 59	11 15 44	499.527	0.5676315	Zona (Forli) EL 3 obs.

Oscuração		Epoca e Equinócio		M	ω	Ω	i
NP							
1932?	[1932 Aug 31]*	1925 Jan 1.0		262.674	283.840	176.759	6.158
38	1938 Feb. 1	1950.0		144.209	284.052	177.090	6.155
40	1940 Set. 7	"		264.495	283.505	.080	155
EMP 1948	1948 Ago 7	"		270.622	280.775	176.656	164
1965	1957 Jun 11	"		315.246	281.134	.574	165
1968	1957 Jun 11	"		315.447	063	.566	165
1980	1980 Dec 27	"		313.85060	278.00460	175.94281	16861
1982	1982 Aug. 19	"		28.65726	03689	93789	17021

φ n a

Ref

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9° 548 .16432

697

664

707

793

452¹¹. 989

453. 868

044

452. 546

451. 527

3.9441

9390

9439

9467

9526

(W. Moschkova) oB = 1927

AIL

A. Kahrstedt str 7 oB (y. MP 1947, Japan?)

B.C. Moschkova (S)

ITA (S)

789 .17002e = 0.1681412

24125

.521

448. 89354

449. 44124

9526

9680 348

48105

ITA BV Opp. 1932-1959

oB. (padroniz. 1980)

F. B. Xaruna BV Opp. 1921-1977