



**Grupo de Investigación Astrológica ÁGENA**

**ESCUELA DE ESTUDIOS ASTROLÓGICOS M<sup>a</sup> JESÚS MARTÍNEZ**

**ECLIPSES SOLARES Y LUNARES**

**EFEMÉRIDES 1900 - 2050**

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	Pen	1901	5	3	18	18	12	36	Esc	-	110	Europe, Africa, Asia, Australia
SOL	T	1901	5	18	5	33	26	34	Tau	06m29s	136	s Asia, Australia, e Africa [Total: Indonesia, N Guinea, Madagascar]
LUNA	P	1901	10	27	15	6	3	30	Tau	01h41m	115	e Africa, Europe, Asia, Australia, w N America
SOL	A	1901	11	11	7	28	18	13	Esc	11m01s	141	ne Africa, Asia, w Europe[Annular: ne Africa, India, Sri Lanka, se Asia]
SOL	P	1902	4	8	14	5	17	48	Ari	-	108	northern Canada
										03h45m		
LUNA	T	1902	4	22	18	49	1	42	Esc	01h25m	120	e S America, Europe, Africa, Asia, Australia
SOL	P	1902	5	7	22	34	16	25	Tau	-	146	New Zealand, South Pacific
										03h33m		
LUNA	T	1902	10	17	6	0	22	56	Ari	01h30m	125	e Asia, e Australia, Americas, Europe, w Africa
SOL	P	1902	10	31	8	0	6	58	Esc	-	151	c Asia, e Europe
SOL	A	1903	3	29	1	35	7	12	Ari	01m53s	118	e Asia, nw N America[Annular: China, Mongolia, Russia, Canada]
LUNA	P	1903	4	12	0	18	20	56	Lib	03h17m	130	Americas, Europe, Africa, w Asia. w Australia
SOL	T	1903	9	21	4	39	27	1	Vir	02m12s	123	se Africa, Antarctica, s Australia, N.Z.[Total: Antarctica, s Indian Ocean]
LUNA	P	1903	10	6	15	23	12	11	Ari	03h14m	135	e Africa, Europe, Asia, w N America
LUNA	Pen	1904	3	2	2	47	11	7	Vir	-	102	Americas, Europe, Africa, w Asia
SOL	A	1904	3	17	5	40	26	13	Pis	08m07s	128	e Africa, s Asia[Annular: Tanzania, Mozambique, Cambodia, Laos, Vietnam, Myanmar]
LUNA	Pen	1904	3	31	12	43	10	22	Lib	-	140	e Asia, Australia, N America, w S America
SOL	T	1904	9	9	20	44	16	42	Vir	06m20s	133	Atlantic, nw S America[Total: central Atlantic, Chile]
LUNA	Pen	1904	9	24	17	49	1	14	Ari	-	145	Africa, Europe, Asia, Australia,

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	P	1905	2	19	18	51	0	29	Vir	02h13m	112	Europe, Africa, Asia, Australia,
SOL	A	1905	3	6	5	12	14	59	Pis	07m58s	138	Australia, Antarctica, s Indies[Annular: Australia]
LUNA	P	1905	8	15	3	31	21	37	Acu	02h04m	117	Americas, Europe, Africa, w Asia
SOL	T	1905	8	30	13	7	6	28	Vir	03m46s	143	ne N America, n Africa, Europe, w Asia[Total: Canada, Spain, Algeria, Tunisia, Libya, Egypt, Saudi Arabia]
										03h40m		
LUNA	T	1906	2	9	7	45	19	40	Leo	<b>01h38m</b>	122	e Asia, e Australia, Americas, Europe, w Africa
SOL	P	1906	2	23	7	43	3	48	Pis	-	148	Antarctica, Australia
SOL	P	1906	7	21	13	14	27	50	Can	-	115	s S America
										03h39m		
LUNA	T	1906	8	4	12	59	11	13	Acu	<b>01h42m</b>	127	e Africa, e Asia, Australia, w Americas
SOL	P	1906	8	20	1	12	26	6	Leo	-	153	n Asia, n N America
SOL	T	1907	1	14	6	5	22	56	Cap	02m25s	120	c Asia, ne Africa[Total: Russia, central Asia]
LUNA	P	1907	1	29	13	44	8	31	Leo	03h04m	132	e Europe, e Africa, Asia, Australia, N America
SOL	A	1907	7	10	15	24	17	12	Can	07m23s	125	S America, C America, Antarctica[Annular: Chile, Bolivia, Brazil]
LUNA	P	1907	7	25	4	29	1	5	Acu	02h38m	137	Americas, sw Europe, Africa
SOL	T	1908	1	3	21	45	12	9	Cap	04m14s	130	ne Australia, w N America, nw S America[Total: Atlantic, Costa Rica]
LUNA	Pen	1908	1	18	13	37	27	5	Can	-	142	e Europe, Asia, Australia, N America
LUNA	Pen	1908	6	14	13	55	23	4	Sag	-	109	e Africa, e Asia, Australia, w N America, s S America
SOL	A	1908	6	28	16	29	6	32	Can	04m00s	135	America's, w Africa, w Europe[Annular: Mexico, U.S., Mauritania, Senegal, Mali, Burkina Faso]
LUNA	Pen	1908	7	13	21	47	21	2	Cap	-	147	e S America, Europe, Africa, w Asia, Australia

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	Pen	1908	12	7	21	44	15	26	Gem	-	114	e Americas, Europe, Africa, Asia, w Australia S America, Antarctica, s Africa[Hybrid: Chile, Argentina, Uruguay, s Atlantic]
SOL	H	1908	12	23	11	44	1	17	Cap	00m12s	140	
										03h31m		
LUNA	T	1909	6	4	1	24	12	46	Sag	01h01m	119	e N America, S America, Europe, Africa, w Asia
SOL	H	1909	6	17	23	18	26	4	Gem	00m24s	145	ne Asia, n N America[Hybrid: Russia, Canada, Greenland]
										03h27m		
LUNA	T	1909	11	27	8	51	4	29	Gem	01h22m	124	e Asia, Australia, Americas, w Europe, w Africa
SOL	P	1909	12	12	19	44	20	11	Sag	-	150	Antarctica, New Zealand
SOL	T	1910	5	9	5	42	17	43	Tau	04m15s	117	Antarctica, Australia, s Indies[Total: Antarctica, Tasmania]
										03h36m		
LUNA	T	1910	5	24	5	38	2	10	Sag	00h51m	129	e Australia, Americas, w Europe, Africa
SOL	P	1910	11	2	2	8	8	47	Esc	-	122	Northeast Asia, Northern Pacific
										03h14m		
LUNA	T	1910	11	17	0	24	23	47	Tau	00h52m	134	Americas, Europe, Africa, Asia
SOL	T	1911	4	28	22	27	7	30	Tau	04m57s	127	e Australia, N.Z., w N America[Total: central Pacific]
LUNA	Pen	1911	5	13	6	9	21	22	Esc	-	139	e Australia, Americas, w Europe, w Africa
SOL	A	1911	10	22	4	13	27	38	Lib	03m47s	132	Asia, Indies, Australia[Annular: Russia, China, Philippines, Indonesia, New Guinea]
LUNA	Pen	1911	11	6	15	47	13	7	Tau	-	144	Europe, e Africa, Asia, Australia, w N America
LUNA	P	1912	4	1	22	4	11	49	Lib	01h37m	111	The Americas, Europe, Africa, Asia, Australia
SOL	H	1912	4	17	11	34	27	5	Ari	00m02s	137	e America's, nw Africa, Europe, Middle East[Hybrid: Guyana, Suriname, w Europe, Russia]

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	P	1912	9	26	11	33	2	60	Ari	01h23m	116	e S America, Asia, Australia, Americas S America, C America, Antarctica, s Africa[Total: Colombia, Brazil, Ecuador, s Atlantic]
SOL	T	1912	10	10	13	36	16	52	Lib	01m55s	142	
										03h30m		
LUNA	T	1913	3	22	11	55	1	16	Lib	<b>01h33m</b>	121	Asia, Australia, Pacific, Americas
SOL	P	1913	4	6	17	33	16	19	Ari	-	147	Northwest U.S., Western Canada, Russia
SOL	P	1913	8	31	20	52	7	49	Vir	-	114	Northeast Canada, Greenland
										03h51m		
LUNA	T	1913	9	15	12	45	22	3	Pis	<b>01h34m</b>	126	e Africa, Asia, Australia, Americas
SOL	P	1913	9	30	4	45	6	25	Lib	-	152	Antarctica, Madagascar, se Africa
SOL	A	1914	2	25	0	13	5	34	Pis	05m35s	119	Antarctica, New Zealand[Annular: Antarctica]
LUNA	P	1914	3	12	4	18	20	46	Vir	03h02m	131	Americas, Europe, Africa, w Asia
SOL	T	1914	8	21	12	34	27	35	Leo	02m14s	124	n Africa, Europe, w Asia, ne N America[Total: Canada, Greenland, Norway, Sweden, Russia, Turkey, Iraq, Iran,
LUNA	P	1914	9	4	14	0	11	11	Pis	03h17m	136	e Africa, Asia, Australia, w Americas
SOL	A	1915	2	14	4	33	24	25	Acu	02m04s	129	Indies, Australia, Antarctica[Annular: Australia, Indonesia, New Guinea]
LUNA	Pen	1915	3	1	18	32	10	6	Vir	-	141	Europe, Africa, Asia, Australia, w N America
LUNA	Pen	1915	6	31	12	20	10	1	Can	-	103	Americas, Europe, w Africa
LUNA	Pen	1915	7	26	12	7	2	25	Acu	-	108	e Asia, Australia, w Americas
SOL	A	1915	8	10	22	52	17	12	Leo	01m33s	134	Northeast Asia, central Pacific, New Guinea[Annular: central Pacific]
LUNA	Pen	1915	8	24	21	40	0	37	Pis	-	146	S America, Europe, Africa, Asia, Australia
LUNA	P	1916	1	20	8	28	28	58	Can	01h29m	113	e Asia, Australia, Americas, w Europe, w Africa

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	T	1916	2	3	16	0	13	31	Acu	02m36s	139	N America, n S America, nw Africa[Total: Colombia, Venezuela, central Atlantic]
LUNA	P	1916	7	15	4	40	22	20	Cap	02h53m	118	Americas, w Europe, Africa
SOL	A	1916	7	30	2	6	6	34	Leo	06m24s	144	Indies, Australia, N.Z., Antarctica[Annular: Australia, Tasmania]
SOL	P	1916	12	24	20	46	2	45	Cap	-	111	Antarctica
										03h48m		
LUNA	T	1917	1	8	7	41	17	29	Can	01h28m	123	e Asia, e Australia, Americas, Europe, w Africa
SOL	P	1917	1	23	7	28	2	45	Acu	-	149	ne Africa, Middle East, w Asia, e Europe
SOL	P	1917	6	19	13	16	27	39	Gem	-	116	n N America, n Asia, n Europe
										03h33m		
LUNA	T	1917	7	4	21	40	12	18	Cap	01h37m	128	S America, Europe, Africa, s Asia, Australia
SOL	P	1917	7	19	2	42	25	51	Can	-	154	Antarctica
SOL	A	1917	12	14	9	27	21	50	Sag	01m17s	121	Antarctica, se S America, w Australia[Annular: Antarctica]
										03h23m		
LUNA	T	1917	12	28	9	51	6	7	Can	00h16m	133	e Asia, Australia, Americas, w Africa, w Europe
SOL	T	1918	6	8	22	7	17	16	Gem	02m23s	126	ne Asia, N America, n Europe, C America[Total: central Pacific, U.S.]
LUNA	P	1918	6	24	10	38	2	6	Cap	01h24m	138	e Asia, Australia, Americas
SOL	A	1918	12	3	15	22	10	41	Sag	07m06s	131	S America, Antarctica, w Africa, C America[Annular: Chile, Argentina, Uruguay, Namibia, Angola]
LUNA	Pen	1918	12	17	19	17	25	4	Gem	-	143	Europe, Africa Asia, Australia, n N America
LUNA	Pen	1919	5	15	1	1	23	9	Esc	-	110	e N America, S America, Europe, Africa, w Asia
SOL	T	1919	5	29	13	8	7	6	Gem	06m51s	136	S America, C America, Africa

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	P	1919	11	7	23	35	14	31	Tau	01h31m	115	Americas, Europe, Africa, Asia, America's, w Africa, w Europe[Annular: U.S., Cuba, Haiti, Guinea, Senegal, Mauritania, Gambia, Mali]
SOL	A	1919	11	22	15	14	29	17	Esc	11m37s	141	
										03h40m		
LUNA	T	1920	5	3	1	47	12	19	Esc	<b>01h12m</b>	120	Americas, Europe, Africa, w Asia
SOL	P	1920	5	18	6	14	26	59	Tau	-	146	Australia, Antarctica, s Indian Ocean
										03h32m		
LUNA	T	1920	10	27	14	8	3	52	Tau	<b>01h26m</b>	125	e Europe, e Africa, Asia, Australia, N America
SOL	P	1920	11	10	15	52	17	58	Esc	-	151	ne N America, nw Africa, w Europe
SOL	A	1921	4	8	9	15	17	60	Ari	01m50s	118	n Africa, Asia, n Canada, Greenland[Annular: U.K., Norway, Russia]
										03h23m		
LUNA	T	1921	4	22	7	49	1	38	Esc	<b>00h42m</b>	130	Australia, Americas, w Europe, w Africa
SOL	T	1921	10	1	12	35	7	47	Lib	01m52s	123	Antarctica, s S America[Total: Antarctica]
LUNA	P	1921	10	16	22	59	23	2	Ari	03h20m	135	Americas, Europe, Africa, Asia, w Australia
LUNA	Pen	1922	3	13	11	14	22	6	Vir	-	102	e Asia, Australia, N America, w S America
SOL	A	1922	3	28	13	5	7	4	Ari	07m50s	128	e S America, Carribean, n Africa, Europe, w Asia[Annular: Peru, Brazil, Senegal, Mali, Mauritania, Algeria, Libya,
LUNA	Pen	1922	4	11	20	43	21	10	Lib	-	140	e S America, Europe, Africa, Asia, Australia
SOL	T	1922	9	21	4	40	27	25	Lib	05m59s	133	e Africa, s Asia, Indies, Australia[Total: Ethiopia, Somalia, Indian Ocean, Australia]
LUNA	Pen	1922	10	6	0	58	11	59	Ari	-	145	Americas, Europe, Africa, w Asia
LUNA	P	1923	3	3	3	23	11	32	Vir	02h08m	112	Americas, Europe, Africa, w Asia
SOL	A	1923	3	17	12	44	25	55	Pis	07m51s	138	s S America, s Africa, Antarctica[Annular: Chile, Argentina, Nambia, Botswana, Zimbabwe, Mozambique,

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	P	1923	8	26	10	29	2	9	Pis	01h36m	117	e Asia, Australia, Americas
SOL	T	1923	9	10	20	47	17	6	Vir	03m37s	143	N America, C America, Carribbean, ne S America, e Asia[Total: U.S., Mexico, Belize]
										03h40m		
LUNA	T	1924	2	20	16	7	0	46	Vir	<b>01h38m</b>	122	Europe, Africa, Asia, Australia, w N America
SOL	P	1924	3	5	15	44	14	49	Pis	-	148	Antarctica, South Africa, Nambia, Botswana
SOL	P	1924	7	31	19	58	8	17	Leo	-	115	S Pacific
										03h38m		
LUNA	T	1924	8	14	20	19	21	43	Acu	<b>01h39m</b>	127	S America, Europe, Africa, Asia, Australia
SOL	P	1924	8	30	8	23	6	40	Vir	-	153	Northeast Asia, Greenland, Northern Canada
SOL	T	1925	1	24	14	54	4	8	Acu	02m32s	120	e America's, nw Africa, w Europe
LUNA	P	1925	2	8	21	49	19	39	Leo	03h06m	132	e Americas, Europe, Africa, Asia, Australia
SOL	A	1925	7	20	21	48	27	37	Can	07m15s	125	Australia, New Zealand, New Guinea[Annular: South Pacific]
LUNA	P	1925	8	4	11	59	11	34	Acu	02h50m	137	e Asia, Australia, w Americas
SOL	P	1926	1	14	6	36	23	21	Cap	04m11s	130	e Africa, s Asia, Indies, n Australia[Total: C.A.R., Zaire, Uganda, Kenya, Indonesia, Malaysia, Philippines]
LUNA	Pen	1926	1	28	21	35	8	14	Leo	-	142	e Americas, Europe, Africa, Asia, Australia
LUNA	Pen	1926	6	25	21	12	3	31	Cap	-	109	S America, Europe, Africa, s Asia, Australia
SOL	A	1926	7	9	23	6	16	57	Can	03m51s	135	e Asia, ne Australia, w N America[Annular: central Pacific]
LUNA	Pen	1926	7	25	5	13	1	30	Acu	-	147	Americas, w Europe, w Africa
LUNA	Pen	1926	12	19	6	9	26	35	Gem	-	114	ne Asia, Americas, Europe, w Africa
SOL	A	1927	1	3	20	22	12	29	Cap	00m03s	140	Antarctica, N.Z., sw S America[Annular: New Zealand, Chile, Argentine, Uruguay, Brazil]



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		AÑO	MES	DIA	H	M	°	'	SIGNO			
										03h24m		
LUNA	T	1927	6	15	8	19	23	14	Sag	00h21m	119	e Asia, Australia, Americas, w Africa
SOL	T	1927	6	29	6	23	6	31	Can	00m50s	145	n Asia, Europe, n Africa, n N America[Total: U.K., Norway, Sweden, Finland, Russia]
										03h26m		
LUNA	T	1927	12	8	17	32	15	38	Gem	01h21m	124	n N America, Europe, Africa, Asia, Australia
SOL	P	1927	12	24	3	59	1	21	Cap	-	150	Antarctica
SOL	T	1928	5	19	13	24	28	18	Tau	-	117	Antarctica, s S America, s Africa[Total: South Atlantic]
										03h44m		
LUNA	T	1928	6	3	12	13	12	39	Sag	01h16m	129	e Asia, Australia, w Americas
SOL	P	1928	6	17	20	27	26	21	Gem	-	155	Russia
SOL	P	1928	11	12	9	48	19	46	Esc	-	122	ne Africa, e Europe, Middle East, w Asia
										03h15m		
LUNA	T	1928	11	27	9	5	4	53	Gem	00h56m	134	e Asia, Australia, Americas. w Africa, w Europe
SOL	T	1929	5	9	6	10	18	8	Tau	05m07s	127	e Africa, se Asia, Indies, Australia[Total: Indonesia, Malaysia, Thailand, Vietnam, Philippines]
LUNA	Pen	1929	5	23	12	50	1	53	Sag	-	139	e Asia, Australia, w Americas
SOL	A	1929	11	1	12	5	8	35	Esc	03m54s	132	Africa, Europe, Middle East[Annular: W Sahara, Mauritania, Mali, Ghana, Togo, Gabon, Congo, Zaire,
LUNA	Pen	1929	11	17	0	14	24	10	Tau	-	144	Americas, Europe, Africa, Asia,
LUNA	P	1930	4	13	5	49	22	35	Lib	01h15m	111	e Australia, Americas, w Europe, w Africa
SOL	H	1930	4	28	19	3	7	45	Tau	00m01s	137	[Hybrid: U.S., Canada] N America, ne Asia
LUNA	P	1930	10	7	18	56	13	47	Ari	00h42m	116	e S America, Europe, Africa Asia, Australia

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	T	1930	10	21	21	44	27	46	Lib	01m55s	142	Australia, New Guinea, New Zealand
												[Total: South Pacific]
LUNA	T	1931	4	2	20	5	12	7	Lib	03h29m	121	e S America, Europe, Africa, Asia, Australia
										01h30m		
SOL	P	1931	4	18	0	45	27	2	Ari	-	147	e Asia, n Canada, Greenland
SOL	P	1931	9	12	4	41	18	27	Vir	-	114	Russia, Alaska
LUNA	T	1931	9	26	19	45	2	45	Ari	03h48m	126	e Americas, Europe, Africa, Asia, Australia
										01h25m		
SOL	P	1931	10	11	12	55	17	15	Lib	-	152	s S America, Antarctica
SOL	A	1932	3	7	7	56	16	33	Pis	05m19s	119	Antarctica, Australia, s Indies
												[Annular: Antarctica, Tasmania]
LUNA	P	1932	3	22	12	37	1	41	Lib	03h06m	131	Asia, Australia, N America, w S America
SOL	T	1932	8	31	20	3	8	10	Vir	01m45s	124	N America, Russia, C America, n S America
												[Total: Canada, U.S., North Atlantic]
LUNA	P	1932	9	14	21	6	21	49	Pis	03h25m	136	e Americas, Europe, Africa, Asia, Australia
LUNA	Pen	1933	2	10	13	0	21	22	Leo	-	103	Asia, Australia, w N America
SOL	A	1933	2	24	12	46	5	29	Pis	01m32s	129	s S America, Africa, Antarctica [Annular: Chile, Argentina, Congo, Zaire, C.A.R., Sudan, Ethiopia, Djibouti, Yemen]
LUNA	Pen	1933	3	12	2	46	21	5	Vir	-	141	Americas, Europe, Africa, w Asia
LUNA	Pen	1933	8	5	19	32	12	53	Acu	-	108	e S America, Europe, Africa, Asia, Australia

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	A	1933	8	21	5	49	27	43	Leo	02m04s	134	ne Africa, c Asia, Indies, Australia [Annular: Middle East, Iran, Afghanistan, Pakistan, India, Myanmar, Indon., Australia]
LUNA	Pen	1933	9	4	5	5	11	12	Pis	-	146	Americas, Europe, Africa
LUNA	P	1934	1	30	16	32	10	7	Leo	01h23m	113	Europe, Africa, Asia, w N America
SOL	T	1934	2	14	0	39	24	39	Acu	02m53s	139	e Asia, Australia, Alaska [Total: Malaysia, Indonesia, central Pacific]
LUNA	P	1934	7	26	12	9	2	48	Acu	02h42m	118	e Asia, Australia, w Americas
SOL	A	1934	8	10	8	38	17	1	Leo	06m33s	144	s Africa, Antarctica, [Annular: Angola, Namibia, Botswana, Zimbabwe, Zambia, Mozambique, S Africa]
SOL	P	1935	1	5	5	36	13	58	Cap	-	111	South Pacific
LUNA	T	1935	1	19	15	44	28	39	Can	03h47m 01h27m	123	Europe, Africa, Asia, Australia, w N America
SOL	P	1935	2	3	16	16	13	55	Acu	-	149	N America, C America
SOL	P	1935	6	30	20	0	8	5	Can	-	116	Russia, Canada, Greenland, n Europe
LUNA	T	1935	7	16	5	1	22	45	Cap	03h35m 01h40m	128	e Australia, Americas, w Europe, Africa
SOL	P	1935	7	30	9	16	6	17	Leo	-	154	South Atlantic, Antarctica
SOL	A	1935	12	25	18	0	3	2	Cap	01m30s	121	Antarctica, s S America [Annular: Antarctica]
										03h23m		

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	T	1936	1	8	18	15	17	19	Can	00h24m	133	n N America, Europe, Africa, Asia, Australia
												Asia, e Europe, n Africa
SOL	T	1936	6	19	5	20	27	44	Gem	02m31s	126	[Total: Greece, Turkey, Russia, Japan]
LUNA	P	1936	7	4	17	35	12	31	Cap	01h58m	138	se Europe, Africa, Asia, Australia,
												Australia, Antarctica, New Zealand
SOL	A	1936	12	13	23	28	21	49	Sag	07m25s	131	[Annular: Australia, New Zealand]
LUNA	Pen	1936	12	28	4	0	6	15	Can	-	143	Americas, Europe, Africa, w Asia
LUNA	Pen	1937	5	25	7	38	3	40	Sag	-	110	Australia, Americas, w Africa
												s N America, C America, nw S America
SOL	T	1937	6	8	20	41	17	36	Gem	07m04s	136	[Total: central Pacific, Peru]
LUNA	P	1937	11	18	8	10	25	35	Tau	01h23m	115	e Asia, Australia, Americas, w Europe, w Africa
												e Asia, w N America, e Indies
SOL	A	1937	12	2	23	6	10	23	Sag	12m00s	141	[Annular: central Pacific]
										03h34m		
LUNA	T	1938	5	14	8	39	22	53	Esc	00h51m	120	e Asia, Australia, Americas, w Africa
												s S America, s Africa
SOL	T	1938	5	29	13	50	7	32	Gem	04m05s	146	[Total: South Atlantic]
										03h31m		
LUNA	T	1938	11	7	22	23	14	51	Tau	01h22m	125	Americas, Europe, Africa, Asia, w Australia
SOL	P	1938	11	21	23	52	29	1	Esc	-	151	ne Asia, nw N America

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	A	1939	4	19	16	46	28	44	Ari	01m49s	118	N America, n Europe, Russia [Annular: Alaska, Canada]
LUNA	T	1939	5	3	15	15	12	17	Esc	03h28m 01h03m	130	e Europe, e Africa, Asia, Australia, w N America
SOL	T	1939	10	12	20	40	18	37	Lib	01m32s	123	Antarctica, Australia, s S America, N.Z. [Total: Antarctica]
LUNA	P	1939	10	28	6	42	3	57	Tau	03h24m	135	e Asia, e Australia, Americas, Europe, w Africa
LUNA	Pen	1940	3	23	19	3	3	1	Lib	-	102	Europe, Africa, Asia, Australia
SOL	A	1940	4	7	20	21	17	52	Ari	07m30s	128	N America, C America, n S America, [Annular: central Pacific, Mexico, U.S>]
LUNA	Pen	1940	4	22	4	37	1	54	Esc	-	140	Americas, Europe, Africa
SOL	T	1940	10	1	12	44	8	11	Lib	05m35s	133	S America, s Africa [Total: Colombia, Venezuela, Brazil, South Africa]
LUNA	Pen.	1940	10	16	8	16	22	49	Ari	-	145	e Asia, Australia, Americas, w Europe, w Africa
LUNA	P	1941	3	13	11	47	22	31	Vir	02h01m	112	Asia, Australia, N America, w S America
SOL	A	1941	3	27	20	8	6	46	Ari	07m41s	138	Antarctica, S America, C America [Annular: South Pacific, Peru, Bolivia, Brazil]
LUNA	P	1941	9	5	17	36	12	45	Pis	00h56m	117	Europe, Africa, Asia, Australia, Asia, Indies, Australia, Middle East
SOL	T	1941	9	21	4	34	27	48	Vir	03m22s	143	[Total: Russia, Uzbekistan, Kazkhstan, China]

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		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	T	1942	3	3	0	20	11	48	Vir	03h40m	122	Americas, Europe, Africa, Asia, w Australia
										01h37m		
SOL	P	1942	3	16	23	37	25	45	Pis	-	148	Antarctica
SOL	P	1942	8	12	2	45	18	46	Leo	-	115	Antarctica
LUNA	T	1942	8	26	3	46	2	17	Pis	03h35m	127	Americas, Europe, Africa
										01h34m		
SOL	P	1942	9	10	15	39	17	18	Vir	-	153	Canada, Greenland, w Europe, n Africa
SOL	T	1943	2	4	23	38	15	18	Acu	02m39s	120	e Asia, w N America
												[Total: Russia, Japan, Alaska, Canada]
LUNA	P	1943	2	20	5	45	0	43	Vir	03h10m	132	Americas, Europe, Africa, w Asia
SOL	A	1943	8	1	4	16	8	3	Leo	06m59s	125	Madagascar, Antarctica, Indies, Australia
												[Annular: s Indian Ocean]
LUNA	P	1943	8	15	19	34	22	5	Acu	02h59m	137	e S America, Europe, Africa, Asia, Australia
SOL	T	1944	1	25	15	26	4	33	Acu	04m09s	130	S America, C America, w Africa
												[Total: Peru, Brazil, Sierra Leone, Guinea, Mali, Niger]
LUNA	Pen	1944	2	9	5	30	19	21	Leo	-	142	n Asia, Americas, Europe, Africa
LUNA	Pen	1944	7	6	4	27	13	58	Cap	-	109	Americas, w Europe, Africa
SOL	A	1944	7	20	5	43	27	22	Can	03m42s	135	s Asia, e Africa, Indies, Australia
												[Annular: Somalia, Ethiopia, India, Myanmar, Thailand, Laos, Vietnma, Phil.]
LUNA	Pen	1944	8	4	12	40	11	59	Acu	-	147	e Asia, Australia, w Americas

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		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	Pen	1944	12	29	14	39	7	47	Can	-	114	Europe, e Africa, Asia, Australia, N America
												Madagascar, Antarctica, Australia, N.Z.
SOL	A	1945	1	14	5	1	23	41	Cap	00m15s	140	[Annular: South Africa, Tasmania]
LUNA	Pen	1945	6	25	15	9	3	40	Cap	03h13m	119	e Africa, Asia, Australia, w N America
												N America, n Africa, Europe, w Asia
SOL	T	1945	7	9	13	27	16	57	Can	01m15s	145	[Total: U.S., Canada, Greenland, Norway, Sweden, Finland, Russia]
										03h26m		
LUNA	T	1945	12	19	2	18	26	50	Gem	01h20m	124	Americas, Europe, Africa, e Asia
SOL	P	1946	1	3	12	16	12	32	Cap	-	150	s S America, Antarctica
SOL	P	1946	5	30	21	0	8	49	Gem	-	117	South Pacific
										03h50m		
LUNA	T	1946	6	14	18	42	23	5	Sag	01h32m	129	e S America, Europe, Africa, Asia, Australia,
SOL	P	1946	6	29	3	51	6	48	Can	-	155	n Europe, n N America
SOL	P	1946	11	23	17	37	0	50	Sag	-	122	N America, Carribbean, n S America
										03h16m		
LUNA	T	1946	12	8	17	52	16	3	Gem	00h58m	134	n N America, Europe, Africa, Asia, Australia
												S America, Africa
SOL	T	1947	5	20	13	48	28	42	Tau	05m13s	127	[Total: Chile, Argentina, Paraguay, Brazil, central Africa]
LUNA	P	1947	6	3	19	27	12	22	Sag	00h39m	139	e S America, Europe, Africa, Asia, Australia
												N & S America

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		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	A	1947	11	12	20	5	19	35	Esc	03m59s	132	[Annular: central Pacific, Peru, Ecuador, Colombia Brazil]
LUNA	Pen	1947	11	28	8	45	5	16	Gem	-	144	e Asia, e Australia, Americas, w Africa, w Europe
LUNA	P	1948	4	23	13	28	3	17	Esc	00h38m	111	e Africa, Asia, Australia, w N America
SOL	A	1948	5	9	2	26	18	22	Tau	00m00s	137	Asia, Indies, nw N America [Annular: Myanmar, Thailand, Laos, Vietnam, China, Japan]
LUNA	Pen	1948	10	18	2	24	24	37	Ari	-	116	Americas, Europe, Africa, w Asia
SOL	T	1948	11	1	5	59	8	43	Esc	01m56s	142	e Africa, central Indian Ocean [Total: Zaire, Uganda, Kenya, Indian Ocean]
LUNA	T	1949	4	13	4	8	22	54	Lib	03h26m 01h26m	121	Americas, Europe, Africa
SOL	P	1949	4	28	7	48	7	42	Tau	-	147	n Africa, Europe, w Asia, n N America
LUNA	T	1949	10	7	2	53	13	30	Ari	03h44m 01h14m	126	Americas, Europe, Africa, w Asia
SOL	P	1949	10	21	21	13	28	8	Lib	-	152	Antarctica, Australia, New Zealand
SOL	A	1950	3	18	15	32	27	28	Pis	-	119	s Africa, s S America, Antarctica [Annular: Antarctica]
LUNA	T	1950	4	2	20	49	12	32	Lib	03h10m 00h29m	131	e S America, Europe, Africa, Asia, Australia
SOL	T	1950	9	12	3	39	18	49	Vir	01m14s	124	ne Asia, nw N America [Total: Russia]



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		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	T	1950	9	26	4	22	2	31	Ari	03h30m	136	Americas, Europe, Africa, w Asia
										<b>00h46m</b>		
LUNA	Pen	1951	2	21	21	13	2	26	Vir	-	103	Africa, Europe, Asia, w Australia
SOL	A	1951	3	7	20	54	16	29	Pis	00m59s	129	New Zealand, Pacific, s N. America, nw S. America
												[Annular: New Zealand, Nicaragua]
LUNA	Pen	1951	3	23	10	50	2	0	Lib	-	141	e Asia, Australia, Pacific, Americas
LUNA	Pen	1951	8	17	3	0	23	25	Acu	-	108	Americas, Europe, Africa
SOL	A	1951	9	1	12	52	8	16	Vir	02m36s	134	e N. America, Carribean, n S. America, w Europe, Africa [Annular: e US, W. Sahara, Mauritania, Mali, Cote D'Ivoire, Ghana, Congo, Dem. Rep. Congo, Angola, Botswana, Zimbabwe, Mozambique, Madagascar]
LUNA	Pen	1951	9	15	12	39	21	52	Pis	-	146	Asia, Australia, Pacific, w N America
LUNA	P	1952	2	11	0	29	21	14	Leo	01h12m	113	Americas, Europe, Africa, Asia
SOL	T	1952	2	25	9	11	5	43	Pis	03m09s	139	Europe, Africa, Asia [Total: Gabon, C. African Rep., Sudan, Saudi Arabia, Iraq, Iran,
												Turmenistan, Uzbekistan, Kazakhstan, Russia]
LUNA	P	1952	8	5	19	41	13	18	Acu	02h28m	118	e S America, Europe, Africa, Asia, Australia
SOL	A	1952	8	20	15	13	27	31	Leo	06m40s	144	C. America, S. America [Annular: Peru, Chile, Bolivia, Argentina, Uruguay]
LUNA	T	1953	1	29	23	45	9	48	Leo	03h46m	123	Americas, Europe, Africa, Asia
										<b>01h25m</b>		

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		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	P	1953	2	14	0	59	25	3	Acu	-	149	e Asia, Pacific, Alaska
SOL	P	1953	7	11	2	44	18	30	Can	-	116	Alaska, n Canada, Greenland
LUNA	T	1953	7	26	12	21	3	12	Acu	03h36m	128	Asia, Autralia, Pacific, w Americas
										01h41m		
SOL	P	1953	8	9	15	55	16	45	Leo	-	154	s Chile, s Argentina, Antarctica
SOL	A	1954	1	5	2	32	14	13	Cap	01m42s	121	s Pacific, New Zealand, Antarctica
										[Annular: Antarctica]		
LUNA	T	1954	1	19	2	37	28	29	Can	03h24m	133	Americas, Europe, Africa, w Asia
										00h30m		
SOL	T	1954	6	30	12	32	8	10	Can	02m35s	126	c & e US, Canada, Carribbean, n Africa, Europe, w Asia [Total: n US, e Canada, Greenland, Iceland, Norway, Sweden,
												Belarus, Ukraine, Russia, Iran, Afghan., Pak., India]
LUNA	P	1954	7	16	0	30	22	57	Cap	02h22m	138	Americas, Europe, Africa, w Asia
SOL	A	1954	12	25	7	37	2	59	Cap	07m39s	131	s Africa, Indian Ocean, se Asia, Australia
												[Annular: Namibia, S. Africa, Indian Ocean, Indonesia]
LUNA	Pen	1955	1	8	12	45	17	28	Can	-	143	Asia, Australia, Pacific, N America
LUNA	Pen	1955	6	5	14	9	14	9	Sag	-	110	Asia, Australia, Pacific
SOL	T	1955	6	20	4	11	28	5	Gem	07m08s	136	e Africa, e Asia, East Indies, n Australia [Total: Sri Lanka, Myanmar, Thailand, Laos, Cambodia, Vietnam, Philippines]
												Europe, Africa, Asia, Australia, Pacific
LUNA	P	1955	11	29	16	51	6	42	Gem	01h16m	115	Europe, Africa, Asia, Australia, Pacific

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		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	A	1955	12	14	7	2	21	31	Sag	12m09s	141	c & e Africa, Mid East, Asia, East Indies [Annular: Chad, Sudan, Ethiopia, Somalia, Myanmar, Thailand, Laos, Vietnam, se China]
LUNA	P	1956	5	24	15	26	3	25	Sag	03h25m	120	Africa, Asia, Australia, Pacific
SOL	T	1956	6	8	21	20	18	1	Gem	04m45s	146	New Zealand, Pacific [Total: s Pacific]
LUNA	T	1956	11	18	6	45	25	55	Tau	03h30m <b>01h19m</b>	125	ne Asia, Pacific, Americas, Europe, w Africa
SOL	P	1956	12	2	8	0	10	8	Sag	-	151	Europe, n Africa, Mid East, c Asia
SOL	A	1957	4	30	0	5	9	23	Tau	-	118	e Asia, nw N. America [Annular: n Russia]
LUNA	T	1957	5	13	22	35	22	53	Esc	03h32m <b>01h18m</b>	130	e N America, S America, Europe, Africa, Asia, Australia
SOL	T	1957	10	23	4	54	29	31	Lib	-	123	s Africa, Antarctica [Total: near Antarctica]
LUNA	T	1957	11	7	14	33	14	56	Tau	03h27m <b>00h30m</b>	135	e Africa, Europe, Asia, Australia, Pacific, w N America
LUNA	Pen	1958	4	4	3	45	13	52	Lib	-	102	Americas, w Africa, w Europe
SOL	A	1958	4	19	3	27	28	34	Ari	07m07s	128	Asia, East Indies, Pacific [Annular: Myanmar, Thailand, Laos, Cambodia, Vietnam, China, Japan]

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	P	1958	5	3	12	24	12	34	Esc	00h27m	140	e Asia, Australia, Pacific, w Americas
												Australia, New Zealand, Pacific, sw S. America
SOL	T	1958	10	12	20	55	19	1	Lib	05m11s	133	[Total: Pacific, Chile, Argentina]
LUNA	Pen	1958	10	27	15	41	3	43	Tau	-	145	Asia, Australia, Pacific
LUNA	P	1959	3	24	20	3	3	26	Lib	01h51m	112	e S America, Africa, Asia, Australia
												East Indies, Australia, New Zealand, Pacific
SOL	A	1959	4	8	3	24	17	34	Ari	07m26s	138	[Annular: Australia]
LUNA	Pen	1959	9	17	0	52	23	24	Pis	-	117	S America, Europe, Africa
												e N. America, Europe, Africa, w Asia
												[Total: ne US, W. Sahara, Mauritania, Mali, Niger,
SOL	T	1959	10	2	12	27	8	34	Lib	03m02s	143	Nigeria, Chad, Sudan, Ethiopia, Somalia]
										03h40m		
LUNA	T	1960	3	13	8	28	22	47	Vir	01h35m	122	e Asia, Australia, Pacific, Americas, w Europe, w Africa
SOL	P	1960	3	27	7	25	6	39	Ari	-	148	Antarctica, s Indian, Australia
										03h32m		
LUNA	T	1960	9	5	11	21	12	53	Pis	01h27m	127	e Asia, Australia, Pacific, Americas
SOL	P	1960	9	20	22	60	27	58	Vir	-	153	ne Asia, N. America
												Europe, n Africa, Asia
SOL	T	1961	2	15	8	20	26	25	Acu	02m45s	120	[Total: France, Italy, Yugoslavia, Romania, Ukraine, Russia]
LUNA	P	1961	3	2	13	28	11	45	Vir	03h14m	132	Asia, Australia, Pacific, N America

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		AÑO	MES	DIA	H	M	°	'	SIGNO			
												Brazil, s Atlantic, s Africa, Antarctica
SOL	A	1961	8	11	10	47	18	31	Leo	06m35s	125	<b>[Annular: Antarctica]</b>
LUNA	P	1961	8	26	3	8	2	39	Pis	03h07m	137	Americas, Europe, Africa, Mid East
												e Asia, East Indies, Australia, Pacific, w US
SOL	T	1962	2	5	0	13	15	43	Acu	04m08s	130	<b>[Total: Indonesia, Papua New Guinea, Pacific]</b>
LUNA	Pen	1962	2	19	13	3	0	25	Vir	-	142	Asia, Australia, Pacific, N America
LUNA	Pen	1962	7	17	11	54	24	25	Cap	-	109	e Asia, Australia, Pacific, w Americas
												ne S. America, sw Europe, Africa
												<b>[Annular: Venezuela, Guyana, French Guyana, Senegal, Mali, Burkina Faso, Togo, Benin, Nigeria, Cameroon, Congo, Dem. Rep. Congo, Tanzania, Madagascar]</b>
SOL	A	1962	7	31	12	26	7	49	Leo	03m33s	135	
LUNA	Pen	1962	8	15	19	57	22	30	Acu	-	147	Europe, Africa, Asia, Australia
LUNA	Pen	1963	1	9	23	19	18	59	Can	-	114	Americas, Europe, Africa, Asia
												s S. America, s Africa, Antarctica
SOL	A	1963	1	25	13	37	4	52	Acu	00m25s	140	<b>[Annular: Chile, Argentina, S. Africa, Madagascar]</b>
LUNA	P	1963	7	6	22	2	14	6	Cap	03h01m	119	S America, Europe, Africa, Asia, Australia
												ne Asia, N. America, C. America
SOL	T	1963	7	20	20	36	27	24	Can	01m40s	145	<b>[Total: Japan, n Pacific, Alaska, n Canada, e Canada, Maine]</b>
										03h25m		
LUNA	T	1963	12	30	11	7	8	1	Can	<b>01h19m</b>	124	Asia, Australia, Pacific, Americas
SOL	P	1964	1	14	20	30	23	43	Cap	-	150	Antarctica

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SOL	P	1964	1	10	4	34	19	19	Gem	-	117	Australia, New Zealand
										03h54m		
LUNA	T	1964	1	25	1	6	3	30	Cap	<b>01h41m</b>	129	Americas, Europe, Africa, Asia
SOL	P	1964	7	9	11	18	17	16	Can	-	155	n N. America, N. Pole, ne Asia
SOL	P	1964	12	4	1	32	11	56	Sag	-	122	ne Asia, Pacific
										03h16m		
LUNA	T	1964	12	19	2	37	27	14	Gem	<b>01h00m</b>	134	e Pacific, Americas, Europe, Africa, c Asia
												New Zealand, Pacific, C. America, w S. America
SOL	T	1965	5	30	21	18	9	13	Gem	05m15s	127	<b>[Total: New Zealand, Pacific, Peru]</b>
LUNA	P	1965	6	14	1	49	22	48	Sag	01h42m	139	Americas, Europe, Africa, sw Asia
												Asia, East Indies, Australia, Pacific
												<b>[Annular: Afghanistan, Pakistan, India, Nepal, Myanmar, Thailand, Cambodia, Vietnam, Malaysia, Indonesia, Papua New Guinea]</b>
SOL	A	1965	11	23	4	15	0	40	Sag	04m02s	132	
LUNA	Pen	1965	12	8	17	10	16	25	Gem	-	144	Europe, Africa, Asia, Australia
LUNA	Pen	1966	5	4	21	11	13	56	Esc	-	111	S America, Europe, Africa, c Asia, Australia
												Europe, n Africa, Asia
SOL	A	1966	5	20	9	39	28	55	Tau	00m05s	137	<b>[Annular: Guinea, Mali, Algeria, Libya, Greece, Turkey, Russia, China]</b>
LUNA	Pen	1966	10	29	10	12	5	32	Tau	-	116	e Asia, Australia, Pacific, Americas
												C. America, S. America, s Africa
SOL	T	1966	11	12	14	24	19	45	Esc	01m57s	142	<b>[Total: Peru, Chile, Bolivia, Argentina, Uruguay, Brazil]</b>

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		AÑO	MES	DIA	H	M	°	'	SIGNO			
										03h23m		
LUNA	T	1967	4	24	12	6	3	37	Esc	<b>01h19m</b>	121	Asia, Australia, Pacific, Americas
												s Africa, Antarctica
SOL	P	1967	5	9	14	43	18	18	Tau	-	147	<b>[Total: s Atlantic]</b>
										03h39m		
LUNA	T	1967	10	18	10	15	24	21	Ari	<b>01h01m</b>	126	Asia, Australia, Pacific, Americas
												s Africa, Antarctica
SOL	T	1967	11	2	5	39	9	7	Esc	-	152	<b>[Total: s Atlantic]</b>
SOL	P	1968	3	28	23	1	8	19	Ari	-	119	Antarctica, Pacific
										03h15m		
LUNA	T	1968	4	13	4	47	23	20	Lib	<b>00h50m</b>	131	Americas, Europe, Africa
												Europe, ne Africa, c Asia
SOL	T	1968	9	22	11	19	29	30	Vir	00m40s	124	<b>[Total: Russia, Kazakhstan, China]</b>
										03h35m		
LUNA	T	1968	10	6	11	42	13	17	Ari	<b>01h04m</b>	136	Asia, Australia, Pacific, Americas
LUNA	Pen	1969	4	2	18	32	12	51	Lib	-	141	Europe, Africa, Asia, Australia
SOL	A	1969	3	18	4	55	27	25	Pis	00m26s	129	se Asia, East Indies, Australia, w Pacific
LUNA	Pen	1969	8	27	10	48	3	58	Pis	-	108	e Asia, Australia, w Americas
												Americas
SOL	A	1969	9	11	19	59	18	53	Vir	03m11s	134	<b>[Annular: Pacific, Peru, Bolivia, Brazil]</b>

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	Pen	1969	9	25	20	10	2	35	Ari	-	146	Europe, Africa, Asia, Austrlia
LUNA	P	1970	2	21	8	30	2	18	Vir	00h55m	113	e Asia, Australia, Pacific, Americas, w Europe
												N. America, C. America, nw S. America
SOL	T	1970	3	7	17	39	16	44	Pis	03m28s	139	<b>[Total: Pacific, Mexico, e US, e Canada]</b>
LUNA	P	1970	8	17	3	23	23	49	Acu	02h12m	118	Americas, Europe, Africa, Mid East
												Papua New Guinea, e Australia, New Zealand, Pacific
SOL	A	1970	8	31	21	56	8	4	Vir	06m48s	144	<b>[Annular: Papua New Guinea, Pacific]</b>
										03h45m		
LUNA	T	1971	2	10	7	45	20	55	Leo	<b>01h23m</b>	123	e Asia, Australia, Americas, w Africa, w Europe
SOL	P	1971	2	25	9	38	6	9	Pis	-	149	Europe, nw Africa, w Asia
SOL	P	1971	7	22	9	32	28	56	Can	-	116	ne Asia, n Alaska
										03h36m		
LUNA	T	1971	8	6	19	43	13	41	Acu	<b>01h40m</b>	128	e S. America, Europe, Africa, Asia, Australia
SOL	P	1971	8	20	22	40	27	15	Leo	-	154	e Australia, New Zealand, s Pacific
												s S. America, Antarctica
SOL	A	1972	1	16	11	3	25	25	Cap	01m53s	121	<b>[Annular: Antarctica]</b>
										03h24m		
LUNA	T	1972	1	30	10	53	9	39	Leo	<b>00h36m</b>	133	Asia, Australia, Pacific, Americas
												ne Asia, N. America, n S. America
SOL	T	1972	7	10	19	47	18	37	Can	02m36s	126	<b>[Total: ne Russia, Alaska, Canada]</b>



TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	P	1972	7	26	7	16	3	24	Acu	02h41m	138	Australia, Pacific, Americas, w Africa
												S. America, w Africa, Antarctica
SOL	A	1973	1	4	15	46	14	10	Cap	07m49s	131	<b>[Annular: Pacific, Chile, Argentina, Atlantic]</b>
LUNA	Pen	1973	1	18	21	17	28	40	Can	-	143	e Americas, Europe, Africa, Asia, Australia
LUNA	Pen	1973	6	15	20	50	24	35	Sag	-	110	e S. America, Europe, Africa, Asia, Australia
												e S. America, s Europe, Africa, Mid East
												<b>[Total: Guyana, Suriname, Mauritania, Mali, Niger, Chad,</b>
SOL	T	1973	6	30	11	39	8	32	Can	07m04s	136	<b>Sudan, Uganda, Kenya]</b>
LUNA	Pen	1973	7	15	11	39	22	51	Cap	-	148	e Asia, Australia, Pacific, w Americas
LUNA	P	1973	12	10	1	44	17	51	Gem	01h11m	115	Americas, Europe, Africa, c Asia
												e N. America, S. America, w Europe, w Africa
												<b>[Annular: Mexico, Costa Rica, Panama, Columbia, Venezuela,</b>
SOL	A	1973	12	24	15	3	2	40	Cap	12m02s	141	<b>Brazil, Mauritania, Algeria]</b>
LUNA	P	1974	6	4	22	16	13	54	Sag	03h14m	120	S. America, Europe, Africa, c Asia, Australia
												Madagascar, East Indies, Australia
SOL	T	1974	6	20	4	48	28	30	Gem	05m09s	146	<b>[Total: s Indian Ocean, sw Australia]</b>
										03h30m		
LUNA	T	1974	11	29	15	13	7	1	Gem	<b>01h17m</b>	125	Europe, Africa, Asia, Australia, Pacific, w N America
SOL	P	1974	12	13	16	13	21	17	Sag	-	151	N. America, n S. America
SOL	P	1975	5	11	7	18	19	59	Tau	-	118	Greenland, Europe, n Africa, n Asia,

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
										03h36m		
LUNA	T	1975	5	25	5	48	3	25	Sag	<b>01h29m</b>	130	e Australia, Pacific, Americas, Africa, w Europe
										03h30m		
LUNA	T	1975	11	18	22	23	25	58	Tau	<b>00h42m</b>	135	Americas, Europe, Africa, Asia, w Australia
SOL	P	1975	11	3	13	16	10	29	Esc	-	123	s S. America, Antarctica
												Europe, Africa, Asia
												<b>[Annular: Senegal, Mauritania, Mali, Algeria, Libya,</b>
												<b>Greece, Turkey, Armenia, Azerbaijan, Iran, Afghanistan,</b>
SOL	A	1976	4	29	10	24	9	13	Tau	06m41s	128	<b>Pakistan, Tajikistan, Kyrgistan, China]</b>
LUNA	P	1976	5	13	19	54	23	10	Esc	01h17m	140	e S. America, Europe, Africa, Asia, Australia
												e Africa, India, E. Indies, Australia, New Zealand
SOL	T	1976	10	23	5	14	29	55	Lib	04m46s	133	<b>[Total: Tanzania, se Australia]</b>
LUNA	Pen	1976	11	6	23	1	14	41	Tau	-	145	Americas, Europe, Africa, Asia
LUNA	P	1977	4	4	4	18	14	17	Lib	01h36m	112	Americas, Europe, Africa
												Africa, s Asia
SOL	A	1977	4	18	10	32	28	17	Ari	07m04s	138	<b>[Annular: Namibia, Angola, D. R. Congo, Zambia, Tanzania]</b>
LUNA	Pen	1977	9	27	8	29	4	7	Ari	-	117	e Asia, Australia, Pacific, Americas
										03h39m		
LUNA	T	1978	3	24	16	22	3	40	Lib	<b>01h31m</b>	122	Europe, Africa, Asia, Australia, nw N America
SOL	P	1978	4	7	15	4	17	27	Ari	-	148	s S. America, s Africa, Antarctica

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
										03h28m		
LUNA	T	1978	9	16	19	4	23	33	Pis	<b>01h20m</b>	127	Europe, Africa, Asia, Australia
SOL	P	1978	10	2	6	29	8	43	Lib	-	153	Scandinavia, n & e Asia
												N. & C. America, nw Europe
SOL	T	1979	2	26	16	55	7	29	Pis	02m49s	120	<b>[Total: nw US, c Canada, Greenland]</b>
LUNA	P	1979	3	13	21	8	22	42	Vir	03h18m	132	S. America, Europe, Africa, Asia, Australia
												s S. America, Antarctica
SOL	A	1979	8	22	17	23	29	1	Leo	06m03s	125	<b>[Annular: Antarctica, s Pacific]</b>
										03h13m		
LUNA	T	1979	9	6	10	54	13	16	Pis	<b>00h46m</b>	137	Asia, Australia, Pacific, Americas
												Africa, s Asia
												<b>[Total: Angola, D. R. Congo, Tanzania,</b>
SOL	T	1980	2	16	8	54	26	50	Acu	04m08s	130	<b>Kenya, India, Myanmar, China]</b>
LUNA	Pen	1980	3	1	20	45	11	26	Vir	-	142	Europe, Africa, Asia, Australia
LUNA	Pen	1980	7	27	19	8	4	52	Acu	-	109	Europe, Africa, Asia, Australia
												sw N. America, C. & S. America
SOL	A	1980	8	10	19	12	18	17	Leo	03m23s	135	<b>[Annular: Pacific, Peru, Bolivia, Paraguay, Brazil]</b>
LUNA	Pen	1980	8	26	3	30	3	3	Pis	-	147	Americas, Europe, Africa
LUNA	Pen	1981	1	20	7	50	0	10	Leo	-	114	e Asia, Americas, Europe, nw Africa
												Australia, New Zealand, Antarctica, w S. America

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	A	1981	2	4	22	9	16	2	Acu	00m33s	140	[Annular: Tasmania, New Zealand, s Pacific]
LUNA	P	1981	7	17	4	47	24	31	Cap	02h44m	119	Pacific, Americas, Africa, w Europe
												e Europe, Asia, Alaska, nw Canada
SOL	T	1981	7	31	3	47	7	51	Leo	02m02s	145	[Total: Kazakhstan, Russia, n Pacific]
										03h25m		
LUNA	T	1982	1	9	19	56	19	14	Can	01h18m	124	e Americas, Europe, Africa, Asia, Australia
SOL	P	1982	1	25	4	43	4	54	Acu	-	150	New Zealand, Antarctica
										03h56m		
LUNA	T	1982	7	6	7	31	13	55	Cap	01h46m	129	Australia, Pacific, Americas, w Africa
SOL	P	1982	6	21	12	5	29	47	Gem	-	117	s Atlantic, s Africa
SOL	P	1982	7	20	18	45	27	43	Can	-	155	ne Asia, n N. America, nw Europe
SOL	P	1982	12	15	9	32	23	4	Sag	-	122	Europe, ne Africa, c Asia
										03h17m		
LUNA	T	1982	12	30	11	29	8	27	Can	01h01m	134	Asia, Australia, Pacific, Americas
												se Asia, East Indies, Australia
SOL	T	1983	6	11	4	44	19	43	Pis	05m11s	127	[Total: Indonesia, Papua New Guinea]
LUNA	P	1983	6	25	8	22	3	14	Cap	02h16m	139	Australia, Pacific, Americas
												ns S. America, Africa, s Europe
SOL	A	1983	12	4	12	31	11	47	Sag	04m01s	132	[Annular: Gabon, Congo, D. R. Congo, Uganda, Kenya, Ethiopia, Somalia]
LUNA	Pen	1983	12	20	1	49	27	36	Gem	-	144	Americas, Europe, Africa, c Asia

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	Pen	1984	5	15	4	40	24	32	Esc	-	111	Americas, w Europe, Africa
												N. & C. America, Europe, nw Africa
SOL	A	1984	5	30	16	46	9	26	Gem	00m11s	137	<b>[Annular: Mexico, se US, Morocco, Algeria]</b>
LUNA	Pen	1984	6	13	14	26	22	45	Sag	-	149	e Asia, Australia, Pacific
LUNA	Pen	1984	11	8	17	55	16	30	Tau	-	116	Europe, Africa, Asia, Australia
												East Indies, Australia, New Zealand, Antarctica
SOL	T	1984	11	22	22	54	0	50	Sag	02m00s	142	<b>[Total: Papua New Guinea, s Pacific]</b>
										03h20m		
LUNA	T	1985	5	4	19	56	14	17	Esc	<b>01h09m</b>	121	e S America, Europe, Africa, Asia, Australia
SOL	P	1985	5	19	21	30	28	50	Tau	-	147	ne Asia, n N. America
										03h36m		
LUNA	T	1985	10	28	17	42	5	15	Tau	<b>00h45m</b>	126	Europe, Africa, Asia, Australia, Pacific
												s S. America, Antarctica
SOL	T	1985	11	12	14	12	20	9	Esc	01m59s	152	<b>[Total: s Pacific, Antarctica]</b>
SOL	P	1986	4	9	6	21	19	6	Ari	-	119	East Indies, Australia, Antarctica
										03h19m		
LUNA	T	1986	4	24	12	43	4	3	Esc	<b>01h05m</b>	131	Asia, Australia, Pacific, w Americas
												N. & C. America, n S America
SOL	H	1986	10	3	19	6	10	16	Lib	00m00s	124	<b>[Hybrid: n Atlantic]</b>
										03h37m		

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	T	1986	10	17	19	18	24	7	Ari	01h15m	136	e S America, Europe, Africa, Asia, Australia
												s S. America, Africa, Mid East
SOL	H	1987	3	29	12	50	8	18	Ari	00m08s	129	<b>[Hybrid: Argentina, Gabon, Cameroon, C. A. Rep., Sudan, Ethiopia, Somalia]</b>
LUNA	Pen	1987	4	14	2	19	23	38	Lib	-	141	Americas, Europe, Africa, w Asia
SOL	A	1987	9	23	3	9	29	34	Vir			<b>[Annular: Kazakhstan, Russia, Mongolia, China]</b>
LUNA	Pen	1987	10	7	4	1	13	22	Ari	-	146	Americas, Europe, Africa
LUNA	P	1988	3	3	16	13	13	18	Vir	00h14m	113	Europe, Africa, Asia, Australia, nw N America
												e Asia, East Indies, Australia, Alaska
SOL	T	1988	3	18	1	59	27	42	Pis	03m46s	139	<b>[Total: Malaysia, Indonesia, Philippines, Pacific]</b>
LUNA	P	1988	8	27	11	5	4	23	Pis	01h54m	118	e Asia, Australia, Pacific, Americas
												e Africa, s Asia, Australia
SOL	A	1988	9	11	4	45	18	40	Vir	06m57s	144	<b>[Annular: Indian Ocean]</b>
										03h44m		
LUNA	T	1989	2	20	15	35	1	59	Vir	01h19m	123	Europe, Africa, Asia, Australia, Pacific, w N America
SOL	P	1989	3	7	18	9	17	10	Pis	-	149	w N. America
										03h35m		
LUNA	T	1989	8	17	3	8	24	12	Acu	01h36m	128	Americas, Europe, Africa, w Asia
SOL	P	1989	8	31	5	32	7	48	Vir	-	154	s Africa, Antarctica
SOL	A	1990	1	26	19	31	6	35	Acu	02m03s	121	sS, America, Antarctica (Annular: Antarctica)

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	T	1990	2	8	19	11	20	47	Leo	03h25m	133	Europe, Africa, Asia, Australia, Pacific
SOL	T	1990	7	22	3	3	29	4	Can	02m33s	126	n & c Asia, nw N America (Total: Finland, Russia, n Pacific)
LUNA	P	1990	8	6	14	20	13	52	Acu	02h56m	138	e Africa, Asia, Australia, Pacific, wN America
												Australia, N.Z., Antarctica, s Pacific
SOL	A	1991	1	15	23	54	25	20	Cap	07m53s	131	[Annular: sw Australia, Tasmania, N.Z., s Pacific]
LUNA	Pen	1991	1	30	5	59	9	51	Leo	-	143	Americas, Europe, w Africa
LUNA	Pen	1991	6	27	3	15	5	0	Cap	-	110	Americas, s Europe, Africa
												e Pacific, N. & S. America
SOL	T	1991	7	11	19	7	18	59	Can	06m53s	136	[Total: Hawaii, Mexico, C. America, Colombia, Brazil]
LUNA	Pen	1991	7	26	18	8	3	16	Acu	-	148	e Europe, Africa, Asia, Aus., w Pacific
LUNA	P	1991	12	21	10	33	29	3	Gem	01h06m	115	Asia, Aus., Pacific, Americas
												n Australia, Pacific, w N. America
SOL	A	1992	1	4	23	6	13	51	Cap	11m41s	141	[Annular: c Pacific, s California]
LUNA	P	1992	6	15	4	57	24	20	Sag	03h01m	120	e Pacific, Americas, w Europe, Africa
												S. America, s Atlantic, w Africa
SOL	T	1992	6	30	12	11	8	56	Can	05m21s	146	[Total: Uruguay, s Atlantic]
LUNA	T	1992	12	9	23	44	18	10	Gem	01h15m		Asia.
SOL	P	1992	12	24	0	32	2	28	Cap	-	151	ne Asia, n Pacific, Alaska
SOL	P	1993	5	21	14	20	0	32	Gem	-	118	w N. America, n Europe, nw Asia
										03h39m		

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	T	1993	6	4	13	0	13	55	Sag	01h36m	130	Asia, Aus., Pacific, w Americas
SOL	P	1993	11	13	21	46	21	32	Esc	-	123	s Australia, N.Z., Antarctica, s S. America
										03h31m		
LUNA	T	1993	11	29	6	26	7	3	Gem	00h48m	135	Pacific, Americas, Europe, w Africa
												e Pacific, N. America, Europe, w Africa
SOL	A	1994	5	10	17	12	19	48	Tau	06m13s	128	[Annular: Pacific, c U.S., e Canada, Morocco]
LUNA	P	1994	5	25	3	30	3	43	Sag	01h46m	140	e Pacific, Americas, Europe, Africa
												S. America, Antarctica, s Atlantic s Africa
SOL	T	1994	11	3	13	40	10	54	Esc	04m23s	133	[Total: Peru, Chile, Bolivia, Paraguay, Brazil]
LUNA	Pen	1994	11	18	6	44	25	42	Tau	-	145	Pacific, Americas, Europe, w Africa
LUNA	P	1995	4	15	12	18	25	4	Lib	01h15m	112	Asia, Aus., Pacific, w Americas
												s Pacific, C. & S. America, Atlantic
SOL	A	1995	4	29	17	33	8	56	Tau	06m37s	138	[Annular: s Pacific, Ecuador, Peru, Colombia, Brazil]
LUNA	Pen	1995	10	8	16	4	14	54	Ari	-	117	Europe, Africa, Asia, Aus., Pacific
												Middle East, Asia, Indonesia, Australia
SOL	T	1995	10	24	4	33	0	18	Esc	02m10s	143	[Total: Iran, India, Thailand, se Asia]
										03h38m		
LUNA	T	1996	4	4	0	10	14	31	Lib	01h26m	122	Americas, Europe, Africa, w Asia
SOL	P	1996	4	17	22	37	28	12	Ari	-	148	N. Zealand, s Pacific Ocean
										03h24m		



TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	T	1996	9	27	2	54	4	17	Ari	01h10m	127	c Pacific, Americas, Europe, Africa
SOL	P	1996	10	12	14	3	19	32	Lib	-	153	ne N. America, Europe, n Africa
												Asia, Alaska
SOL	T	1997	3	9	1	25	18	31	Pis	02m50s	120	[Total: Mongolia, China, Siberia]
LUNA	P	1997	3	24	4	39	3	35	Lib	03h24m	132	c Pacific, Americas, Europe, Africa
SOL	P	1997	9	2	0	5	9	34	Vir	-	125	Australia, N. Zealand, Antarctica
										03h17m		
LUNA	T	1997	9	16	18	47	23	56	Pis	01h03m	137	Europe, Africa, Asia, Aus.
												N., C. & S. America
SOL	T	1998	2	26	17	29	7	55	Pis	04m09s	130	[Total: Galapagoes, Colombia, Venezuela, Caribbean]
LUNA	Pen	1998	3	13	4	22	22	24	Vir	-	142	c Pacific, Americas, Europe, Africa
LUNA	Pen	1998	8	8	2	25	15	21	Acu	-	109	Americas, Europe, Africa
												Asia, Australia, N. Zealand
SOL	A	1998	8	22	2	7	28	48	Leo	03m14s	135	[Annular: Sumatra, Borneo, Pacific]
LUNA	Pen	1998	9	6	11	10	13	40	Pis	-	147	e Asia, Aus., Pacific, Americas
LUNA	Pen	1999	1	31	16	18	11	20	Leo	-	114	Europe, Africa, Asia, Aus., Pacific
												s Africa, Antarctica, Australia, N. Z.
SOL	A	1999	2	16	6	35	27	8	Acu	00m40s	140	[Annular: s Indian, Australia]
LUNA	P	1999	7	28	11	34	4	58	Acu	02h24m	119	e Asia, Aus., Pacific, Americas
												e N. America, n Africa, Europe, Asia

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
SOL	T	1999	8	11	11	4	18	21	Leo	02m23s	145	[Total: England, Europe, Middle East, Turkey, India]
										03h24m		
LUNA	T	2000	1	21	4	45	0	26	Leo	01h18m	124	Pacific, Americas, Europe, Africa
SOL	P	2000	2	5	12	50	16	2	Acu	-	150	Antarctica
SOL	P	2000	7	1	19	33	10	14	Can	-	117	S Pacific Ocean, s S. America
										03h57m		
LUNA	T	2000	7	16	13	57	24	19	Cap	01h47m	129	Asia, Pacific, w Americas
SOL	P	2000	7	31	2	14	8	12	Leo	-	155	n Asia, nw N. America
SOL	P	2000	12	25	17	36	4	14	Cap	-	122	N. & C. America
										03h17m		
LUNA	T	2001	1	9	20	22	19	39	Can	01h02m	134	e Americas, Europe, Africa, Asia
												e S. America, Africa
SOL	T	2001	6	21	12	5	0	10	Can	04m57s	127	[Total: s Atlantic, s Africa, Madagascar]
LUNA	P	2001	7	5	14	57	13	39	Cap	02h40m	139	e Africa, Asia, Aus., Pacific
												N. & C. America, nw S. America
SOL	A	2001	12	14	20	53	22	56	Sag	03m53s	132	[Annular: c Pacific, Costa Rica]
LUNA	Pen	2001	12	30	10	30	8	48	Can	-	144	e Asia, Aus., Pacific, Americas
LUNA	Pen	2002	5	26	12	5	5	4	Sag	-	111	e Asia, Aus., Pacific, w Americas
												e Asia, Australia, w N. America
SOL	A	2002	6	10	23	45	19	54	Gem	00m23s	137	[Annular: n Pacific, w Mexico]

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	Pen	2002	6	24	21	29	3	11	Cap	-	149	S. America, Europe, Africa, c Asia, Aus.
LUNA	Pen	2002	11	20	1	47	27	33	Tau	-	116	Americas, Europe, Africa, e Asia
												s Africa, Antarctica, Indonesia, Australia
SOL	T	2002	12	4	7	32	11	58	Sag	02m04s	142	[Total: s Africa, s Indian, s Australia]
										03h15m		
LUNA	T	2003	5	16	3	41	24	53	Esc	00h53m	121	c Pacific, Americas, Europe, Africa
												Europe, Asia, nw N. America
SOL	A	2003	5	31	4	9	9	20	Gem	03m37s	147	[Annular: Iceland, Greenland]
										03h32m		
LUNA	T	2003	11	9	1	20	16	13	Tau	00h24m	126	Americas, Europe, Africa, c Asia
												Australia, N. Z., Antarctica, s S. America
SOL	P	2003	11	23	22	50	1	14	Sag	01m57s	152	[Total: Antarctica]
SOL	P	2004	4	19	13	35	29	49	Ari	-	119	Antarctica, s Africa
										03h24m		
LUNA	T	2004	5	4	20	32	14	42	Esc	01h16m	131	S. America, Europe, Africa, Asia, Aus.
SOL	P	2004	10	14	3	0	21	56	Lib	-	124	ne Asia, Hawaii, Alaska
										03h39m		
LUNA	T	2004	10	28	3	5	5	2	Tau	01h21m	136	Americas, Europe, Africa, c Asia
												N. Zealand, N. & S. America
SOL	H	2005	4	8	20	37	19	6	Ari	00m42s	129	[Hybrid: s Pacific, Panama, Colombia, Venezuela]

TIPO		FECHA			HORA		LONGITUD			DURACION	SERIE SAROS	ZONA GEOGRAFICA
		AÑO	MES	DIA	H	M	°	'	SIGNO			
LUNA	Pen	2005	4	24	9	57	4	20	Esc	-	141	e Asia, Aus., Pacific, Americas
												Europe, Africa, s Asia
SOL	A	2005	10	3	10	33	10	19	Lib	04m32s	134	[Annular: Portugal, Spain, Libia, Sudan, Kenya]
LUNA	P	2005	10	17	12	4	24	13	Ari	00h58m	146	Asia, Aus., Pacific, North America
LUNA	Pen	2006	3	14	23	49	24	15	Vir	-	113	Americas, Europe, Africa, Asia
												Africa, Europe, w Asia
SOL	T	2006	3	29	10	12	8	35	Ari	04m07s	139	[Total: c Africa, Turkey, Russia]
LUNA	P	2006	9	7	18	52	15	0	Pis	01h33m	118	Europe, Africa, Asia, Aus.
												S. America, w Africa, Antarctica
SOL	A	2006	9	22	11	41	29	20	Vir	07m09s	144	[Annular: Guyana, Suriname, F. Guiana, s Atlantic]
										03h42m		
LUNA	T	2007	3	3	23	22	13	0	Vir	01h14m	123	Americas, Europe, Africa, Asia
SOL	P	2007	3	19	2	33	28	7	Pis	-	149	Asia, Alaska
										03h33m		
LUNA	T	2007	8	28	10	38	4	46	Pis	01h31m	128	e Asia, Aus., Pacific, Americas
SOL	P	2007	9	11	12	32	18	25	Vir	-	154	S. America, Antarctica
												Antarctica, e Australia, N. Zealand
SOL	A	2008	2	7	3	56	17	44	Acu	02m12s	121	[Annular: Antarctica]
										03h26m		
LUNA	T	2008	2	21	3	27	1	53	Vir	00h51m	133	Americas, Europe, Africa, c Atlantic

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												ne N. America, Europe, Asia
SOL	T	2008	8	1	10	22	9	32	Leo	02m27s	126	[Total: n Canada, Greenland, Siberia, Mongolia, China]
LUNA	P	2008	8	16	21	11	24	2	Acu	03h09m	138	S. America, Europe, Africa, Asia, Aus.
												s Africa, Antarctica, se Asia, Australia
SOL	A	2009	1	26	7	59	6	30	Acu	07m54s	131	[Annular: s Indian, Sumatra, Borneo]
LUNA	Pen	2009	2	9	14	39	21	0	Leo	-	143	e Europe, Asia, Aus., Pacific, w N.A.
LUNA	Pen	2009	7	7	9	40	15	24	Cap	-	110	Aus., Pacific, Americas
												e Asia, Pacific Ocean, Hawaii
SOL	T	2009	7	22	2	36	29	27	Can	06m39s	136	[Total: India, Nepal, China, c Pacific]
LUNA	Pen	2009	8	6	0	40	13	43	Acu	-	148	Americas, Europe, Africa, w Asia
LUNA	P	2009	12	31	19	24	10	15	Can	01h02m	115	Europe, Africa, Asia, Aus.
												Africa, Asia
SOL	A	2010	1	15	7	8	25	1	Cap	11m08s	141	[Annular: c Africa, India, Malymar, China]
LUNA	P	2010	6	26	11	40	4	46	Cap	02h44m	120	e Asia, Aus., Pacific, w Americas
												s S. America
SOL	T	2010	7	11	19	34	19	24	Can	05m20s	146	[Total: s Pacific, Easter Is., Chile, Argentina]
										03h29m		
LUNA	T	2010	12	21	8	18	29	21	Gem	01h13m	125	e Asia, Aus., Pacific, Americas, Europe
SOL	P	2011	1	4	8	52	13	39	Cap	-	151	Europe, Africa, c Asia
SOL	P	2011	6	1	21	17	11	6	Gem	-	118	e Asia, n N. America, Iceland

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										03h40m		
LUNA	T	2011	6	15	20	13	24	23	Sag	01h41m	130	S.America, Europe, Africa, Asia, Aus.
SOL	P	2011	7	1	8	39	9	12	Can	-	156	s Indian Ocean
SOL	P	2011	11	25	6	21	2	37	Sag	-	123	s Africa, Antarctica, Tasmania, N.Z.
										03h33m		
LUNA	T	2011	12	10	14	32	18	11	Gem	00h52m	135	Europe, e Africa, Asia, Aus., Pacific, N.A.
												Asia, Pacific, N. America
SOL	A	2012	5	20	23	54	0	21	Gem	05m46s	128	[Annular: China, Japan, Pacific, w U.S.]
LUNA	P	2012	6	4	11	3	14	14	Sag	02h08m	140	Asia, Aus., Pacific, Americas
												Australia, N.Z., s Pacific, s S. America
SOL	T	2012	11	13	22	13	21	57	Esc	04m02s	133	[Total: n Australia, s Pacific]
LUNA	Pen	2012	11	28	14	33	6	47	Gem	-	145	Europe, e Africa, Asia, Aus., Pacific, N.A.
LUNA	P	2013	4	25	20	8	5	46	Esc	00h32m	112	Europe, Africa, Asia, Aus.
												Australia, N.Z., c Pacific
SOL	A	2013	5	10	0	26	19	31	Tau	06m03s	138	[Annular: n Australia, SOlomon Is., c Pacific]
LUNA	Pen	2013	5	25	4	10	4	8	Sag	-	150	Americas, Africa
LUNA	Pen	2013	10	18	23	50	25	45	Ari	-	117	Americas, Europe, Africa, Asia
												e Americas, s Europe, Africa
SOL	H	2013	11	3	12	47	11	16	Esc	01m40s	143	[Hybrid: Atlantic, c Africa]
										03h35m		

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LUNA	T	2014	4	15	7	46	25	16	Lib	01h19m	122	Aus., Pacific, Americas
												s Indian, Australia, Antarctica
SOL	A	2014	4	29	6	4	8	52	Tau	-	148	[Annular: Antarctica]
										03h20m		
LUNA	T	2014	10	8	10	55	15	5	Ari	01h00m	127	Asia, Aus., Pacific, Americas
SOL	P	2014	10	23	21	46	0	25	Esc	-	153	n Pacific, N. America
												Iceland, Europe, n Africa, n Asia
SOL	T	2015	3	20	9	47	29	27	Pis	02m47s	120	[Total: n Atlantic, Faeroe Is, Svalbard]
										03h30m		
LUNA	T	2015	4	4	12	0	14	24	Lib	00h12m	132	Asia, Aus., Pacific, Americas
SOL	P	2015	9	13	6	55	20	10	Vir	-	125	s Africa, s Indian, Antarctica
										03h21m		
LUNA	T	2015	9	28	2	47	4	40	Ari	01h13m	137	e Pacific, Americas, Europe, Africa, w Asia
												e Asia, Australia, Pacific
SOL	T	2016	3	9	1	58	18	56	Pis	04m09s	130	[Total: Sumatra, Borneo, Sulawesi, Pacific]
LUNA	Pen	2016	3	23	11	47	3	17	Lib	-	142	Asia, Aus., Pacific, w Americas
												Africa, Indian Ocean
SOL	A	2016	9	1	9	8	9	21	Vir	03m06s	135	[Annular: Atlantic, c Africa, Madagascar, Indian]
LUNA	Pen	2016	8	18	9	28	25	52	Acu	-	109	Aus., Pacific, Americas
LUNA	Pen	2016	9	16	18	14	24	20	Pis	-	147	Europe, Africa, Asia, Aus., w Pacific

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												s S. America, Atlantic, Africa, Antarctica
SOL	A	2017	2	26	14	54	8	12	Pis	00m44s	140	[Annular: Pacific, Chile, Argentina, Atlantic, Africa]
LUNA	Pen	2017	2	11	0	44	22	28	Leo	-	114	Americas, Europe, Africa, Asia
												N. America, n S. America
SOL	T	2017	8	21	18	27	28	53	Leo	02m40s	145	[Total: n Pacific, U.S., s Atlantic]
LUNA	P	2017	8	7	18	21	15	25	Acu	01h57m	119	Europe, Africa, Asia, Aus.
SOL	P	2018	2	15	20	52	27	8	Acu	-	150	Antarctica, s S. America
SOL	P	2018	7	13	3	2	20	41	Can	-	117	s Australia
										03h55m		
LUNA	T	2018	7	27	20	22	4	45	Acu	01h44m	129	S.America, Europe, Africa, Asia, Aus.
SOL	P	2018	8	11	9	47	18	42	Leo	-	155	n Europe, ne Asia
SOL	P	2019	1	6	1	43	15	25	Cap	-	122	ne Asia, n Pacific
										03h17m		
LUNA	T	2019	1	21	5	12	0	52	Leo	01h03m	134	c Pacific, Americas, Europe, Africa
												s Pacific, S. America
SOL	T	2019	7	2	19	24	10	38	Can	04m33s	127	[Total: s Pacific, Chile, Argentina]
LUNA	P	2019	7	16	21	31	24	4	Cap	02h59m	139	S.America, Europe, Africa, Asia, Aus.
										03m39s	132	Asia, Australia
SOL	A	2019	12	26	5	19	4	7	Cap			[Annular: Saudi Arabia, India, Sumatra, Borneo]
LUNA	Pen	2020	1	10	19	10	20	0	Can		144	Europa,Africa,Asia,Aus



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LUNA	Pen	2020	6	5	19	25	15	34	Sag		111	Europa,Africa,Asia,Aus
SOL	A	2020	6	21	6	41	0	21	Can	00m38s	137	Africa, se Europe, Asia[Annular: c Africa, s Asia, China, Pacific]
LUNA	Pen	2020	7	5	4	30	13	38	Cap		149	Americas,sw,Europe, Africa
LUNA	Pen	2020	11	30	9	43	8	38	Gem		116	Asia,Austria Pacific,Americas
SOL	T	2020	12	14	16	14	23	8	Sag	02m10s 3 h 08 m	142	Pacific, s S. America, Antarctica[Total: s Pacific, Chile, Argentina, s Atlantic
LUNA	T	2021	5	26	11	19	5	26	Sag	<b>00h19m</b>	121	e Asi, Australia, Pacific, Americas
SOL	A	2021	6	10	10	43	19	47	Gem	03m51s	147	n N. America, Europe, Asia [Annular: n Canada, Greenland, Russia]
LUNA	P	2021	11	19	9	3	27	14	Tau	03h29m	126	Americas, n Europe, e Asia,Australia, Pacific
SOL	T	2021	12	04	7	34	12	22	Sag	01m54s	152	Antarctica, S. Africa, s Atlantic[Total: Antarctca]
SOL	P	2022	4	30	20	42	10	28	Tau		119	se Pacific, s S. America
LUNA	T	2022	5	16	4	12	25	18	Esc	03h28m <b>01h26m</b>	131	Americas, Europe, Africa
SOL	P	2022	10	25	11	1	2	0	Esc		124	Europe, ne Africa, Mid East, w Asia
LUNA	T	2022	11	8	10	59	16	1	Tau	03h40m <b>01h26m</b>	136	Asia,Austria Pacific,Americas
SOL	H	2023	4	20	4	17	29	50	Ari	01m16s	129	se Asia,E. Indies,Australia Philippines. N.Z.[Hybrid: Indonesia, Australia, Papua New Guinea]
LUNA	Pen	2023	5	5	17	23	14	58	Esc		141	Africa,Asia,Australia
SOL	A	2023	10	14	18	0	21	8	Lib	05m17s	134	N. America, C America, S. America [Annular: w US, C. America, Columbia, Brazil]
LUNA	P	2023	10	28	20	14	5	9	Tau	01h19m	146	e Americas, Europe, Africa, Asisa, Australia
LUNA	Pen	2024	3	25	7	13	5	7	Lib		113	Americas
SOL	T	2024	4	08	18	18	19	24	Ari	04m28s	139	N. America, C.America[Total: Mexico, c US, e Canada]
LUNA	P	2024	9	18	2	44	25	41	Pis	01h05m	118	Americas, Europe, Africa

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SOL	A	2024	10	02	18	46	10	4	Lib	07m25s 03h39m	144	Pacific, s S America [Annular: s Chile, s Argentina]
LUNA	T	2025	3	14	6	59	23	57	Vir	<b>01h6m</b>	123	Pacific,Americas, w Europe, w Africa
SOL	P	2025	3	29	10	48	9	0	Ari		149	nw Africa, europe, n Russia
LUNA	T	2025	9	7	18	12	15	23	Pis	03h30m <b>01h59m</b>	128	Europe, Africa, Asia, Australia
SOL	P	2025	9	21	19	43	29	5	Vir		154	s Pacific, N.Z., Antarctica
SOL	A	2026	2	17	12	13	28	50	Acu	02m20s 03h28m	121	s Argentina & Chile, s Africa, Antarctica/ Anular: Antartica
LUNA	T	2026	3	3	11	34	12	54	Vir	<b>00h59m</b>	133	e Asia, Australia, Pacific, Americas
SOL	T	2026	8	12	17	47	20	2	Leo	02m18s	126	n N America, w Africa, Europe[Total: Arctic, Greenland, Iceland, Spain]
LUNA	P	2026	8	28	4	13	4	54	Pis	03h19m	138	e Pacific, Americas, Europe, Africa
SOL	A	2027	2	06	16	0	17	38	Acu	07m51s	131	S. America, Antarctica, W & s Africa [Annular: Chile, Argentina, Atlantic]
LUNA	Pen	2027	2	20	23	13	2	6	Vir		143	Americas, Europe, Africa, Asia
LUNA	Pen	2027	7	18	16	3	25	49	Cap		110	e Africa, Asia, Australia, Pacific
SOL	T	2027	8	02	10	7	9	55	Leo	06m23s	136	Africa, Europe, Mid East, w & s Asia [Total:Morocco, Spain, Algeria,
LUNA	Pen	2027	8	17	7	14	24	12	Acu		148	Pacific, Americas
LUNA	P	2028	1	12	4	13	21	28	Can	00h59m	115	Americas, Europe, Africa
SOL	A	2028	1	26	15	8	6	11	Acu	10m27s	141	e N. America, C. & S. America,w Europe,nw Africa[Annular: Ecuador, Peru, Brazil, Suriname, Spain, Portugal]
LUNA	P	2028	7	6	18	20	15	11	Cap	02h23m	120	Europe, Africa, Asia, Australia
SOL	T	2028	7	22	2	56	29	51	Can	05m10s 03h30m	146	SE Asia, E. Indies, Australia, N.Z. (Total: Australia, N. Z.)
LUNA	T	2028	12	31	16	52	10	33	Can	<b>01h12m</b>	125	Europe, Africa, Asia, Australia, Pacific
SOL	P	2029	1	14	17	13	24	50	Cap		151	N. America, C. America

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SOL	P	2029	6	12	4	6	21	29	Gem		118	Arctic, Scandanavia, Alaska, n Asia, n Canada
LUNA	T	2029	6	26	3	22	4	50	Cap	03h40m <b>01h43m</b>	130	Americas, Europe, Africa, Mid East
SOL	P	2029	7	11	15	37	19	38	Can		156	s Chile, s Argentina
SOL	P	2029	12	05	15	3	13	45	Sag		123	s Argentina, s Chile, Antarctica
LUNA	T	2029	12	20	22	42	29	21	Gem	03h34m <b>00h 55m</b>	135	Americas, Europe, Africa, Asia
SOL	A	2030	6	01	6	29	10	50	Gem	05m21s	128	Europe, n Africa, Mid East, Asia, Arctic, Alaska[Annular: Algeria,
LUNA	P	2030	6	15	18	33	24	43	Sag	02h25m	140	Europe, Africa, Asia y Australia
SOL	T	2030	11	25	6	51	3	2	Sag	03m44s	133	s Africa, s Indian Oc, E. Indies, Australia, Antarctica [Total: Botswana, S. Africa, Australia]
LUNA	Pen	2030	12	9	22	28	17	54	Gem		145	Americas, Europe, Africa, Asia
LUNA	Pen	2031	5	7	3	51	16	25	Esc		112	Americas, Europe, Africa
SOL	A	2031	5	21	7	16	0	4	Gem	05m26s	138	Africa, s Asia, E. Indies, Australia[Annular: Angola, Congo, Zambia,
LUNA	Pen	2031	6	5	11	44	14	39	Sag		150	East Indies, Australia, Pacific
LUNA	Pen	2031	10	30	7	46	6	41	Tau		117	Americas
SOL	H	2031	11	14	21	7	22	18	Esc	01m08s	143	Pacific, s US, C. America, nw S. America (Hybrid: Pacific, Panama)
LUNA	T	2032	4	25	15	14	5	58	Esc	03h32m <b>01h07m</b>	122	e Africa, Asia, Australia, Pacific
SOL	A	2032	5	09	13	26	19	29	Tau	00m22s	148	s S. America, s africa (Annular: s Atlantic)
LUNA	T	2032	10	18	19	3	25	57	Ari	03h17m <b>00h49m</b>	127	Africa, Europe, Asia, Australia
SOL	P	2032	11	03	5	34	11	22	Esc		153	Asia
SOL	T	2033	3	30	18	2	10	21	Ari	02m37s	120	N. America [Total: e Russia, Alaska]
LUNA	T	2033	4	14	19	13	25	9	Lib	03h36m <b>00h50m</b>	132	Europe, Africa, Asia, Australia

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SOL	P	2033	9	23	13	54	0	51	Lib		125	s S. America, Antarctica
LUNA	T	2033	10	8	10	55	15	29	Ari	03h23m <b>01h20m</b>	137	Asia, Australia, Pacific, Americas
SOL	T	2034	3	20	10	18	29	52	Pis	04m09s	130	Africa, Europe, w Asia[Total: Nigeria, Cameroon, Chad, Sudan, Egypt,
LUNA	Pen	2034	4	3	19	6	14	6	Lib		142	Europe, Africa, Asia, Australia
SOL	A	2034	9	12	16	19	19	59	Vir	02m58s	135	C. America, s. America[Annular: Chile, Bolivia, Argentina, Paraguay, Brazil]
LUNA	P	2034	9	28	2	47	5	4	Ari	00h31m	147	Americas, Europe, Africa
LUNA	Pen	2035	2	22	9	5	3	33	Vir		114	e Asia, Pacific,Americas
SOL	A	2035	3	09	23	5	19	12	Pis	00m48s	140	australia, New Zealand, s pacific, Mexico, Antarctica [Annular: New Zealand, Pacific]
LUNA	P	2035	8	19	1	11	25	55	Acu	01h19m	119	Americas, Europe, Africa, Mid East
SOL	T	2035	9	02	1	56	9	28	Vir	02m54s	145	e Asia, Pacific[Total: China, Korea, Japan, Pacific]
LUNA	T	2036	2	11	22	12	22	45	Leo	03h23m <b>01h15m</b>	124	Americas, Europe, Africa, Asia, w Australia
SOL	P	2036	2	27	4	46	8	10	Pis		150	Antarctica, s Australia, New Zealand
SOL	P	2036	7	23	10	32	1	9	Leo		117	s Atlantic
LUNA	T	2036	8	7	2	52	15	12	Acu	03h52m <b>01h36m</b>	129	Americas, Europe,Africa, asia, w Australia
SOL	P	2036	8	21	17	25	29	14	Leo		155	Alaska, Canada, Arctic, w Europe, nw Africa
SOL	P	2037	1	16	9	48	26	35	Cap		122	n Africa, Europe, Mid East, w Asia
LUNA	T	2037	1	31	14	1	12	2	Leo	03h18m <b>0h05m</b>	134	e Europe, e Africa, Asia, Australia, Pacific, N.A.
SOL	T	2037	7	13	2	40	21	4	Can	03m58s	127	E. Indies,Australia, Pacific[Total: Australia, New Zealand]
LUNA	P	2037	7	27	4	9	4	30	Acu	03h13m	139	Americas, Europe, Africa
SOL	A	2038	1	05	13	47	15	18	Cap	03m18s	132	e N. America, n S. America, Atlantic, Africa, Europe[Annular: Cuba, Dom.Rep.,

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LUNA	Pen	2038	1	21	3	49	1	12	Leo		144	Americas, Europe, Africa
LUNA	Pen	2038	6	17	2	44	26	2	Sag		111	e N America, C. & S. America, Africa, w Europe
SOL	A	2038	7	02	13	32	10	47	Can	01m00s	137	N. & C. America, , Europe Mid East[Annular: Colombia, Venezuela, Mauritania,
LUNA	Pen	2038	7	16	11	35	24	4	Cap		149	Australia, e Asia, Pacific, w Americas
LUNA	Pen	2038	12	11	17	44	19	46	Gem		116	Europe Africa, Asia, Australia
SOL	T	2038	12	26	1	0	4	20	Cap	02m18s	142	se Asia, E. Indies, Australia, [Total: Australia, New Zealand, s Pacific]
LUNA	P	2039	6	6	18	53	15	56	Sag	03h00m	121	Europe Africa, Asia, Australia
SOL	A	2039	6	21	17	12	0	13	Can	04m05s	147	N.America, w Europe[Annular: Alaska, n Canada, Norway, Sweden, Finland, Estonia, Russia]
LUNA	P	2039	11	30	16	55	8	20	Gem	03h27m	126	Europe Africa, Asia, Australia, Pacific
SOL	T	2039	12	15	16	23	23	33	Sag	01m51s	152	s S. America, Antarctica[Total: Antarctica]
SOL	P	2040	5	11	3	43	21	4	Tau		119	Australia, NZ., Antarctica
LUNA	T	2040	5	26	11	45	5	50	Sag	03h31m 01h33m	131	e Asia Australia, Pacific, w Americas
SOL	P	2040	11	04	19	9	12	58	Esc		124	N. & C. America
LUNA	T	2040	11	18	19	4	27	3	Tau	03h41m 01h29m	136	e Americas, Europe, Africa, Asisa, Australia
SOL	T	2041	4	30	11	52	10	30	Tau	01m51s	129	Brasil, Africa, Mid East[Total: Angola, Congo, Uganda, Kenya, Somalia]
LUNA	P	2041	5	16	0	42	25	33	Esc	01h01m	141	e Americas, Europe, Africa,w Asia
SOL	A	2041	10	25	1	36	2	1	Esc	06m07s	134	e Asia, Pacific[Annular: Mongolia, China, Korea, Japan, Pacific]
LUNA	P	2041	11	8	4	34	16	9	Tau	01h32m	146	Americas, Europe, Africa
LUNA	Pen	2042	4	5	14	29	15	56	Lib		113	Asia, Australia, Pacific
SOL	T	2042	4	20	2	17	0	9	Tau	04m51s	139	e Asia, se Asia, Australia, Pacific[Total: Malaysia, Indonnesia, Philippines, n Pacific]

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LUNA	P	2042	9	29	10	45	6	26	Ari	00h11m	118	Asia Australia, Pacific, Americas
SOL	A	2042	10	14	2	0	20	52	Lib	07m44s	144	se Asia, E. Indies, Australia, s Pacific,[Annular: Thailand, Malaysia, Indonesia, Australia, New Zealand]
LUNA	T	2043	3	25	14	31	4	50	Lib	03h35m <b>00h55m</b>	123	e africa, e Europe, Asia, Australia, Pacific, w N.A
SOL	T	2043	4	09	18	57	19	50	Ari		149	n N. America, ne Asia[Total: ne Russia]
LUNA	T	2043	9	19	1	51	26	2	Pis	03h27m <b>01h13m</b>	128	Americas, Europe,Africa, w Asia
SOL	A	2043	10	03	3	1	9	49	Lib		154	Antartica, sw Australia, Indian Ocean[Annular: s Indian Ocean]
SOL	A	2044	2	28	20	24	9	53	Pis	02m27s	121	Antarctica, S. America[Annular: s Atlantic]
LUNA	T	2044	3	13	19	37	23	53	Vir	03h30m <b>01h07m</b>	133	e S America, Europe;Africa,Asia, Australia
SOL	T	2044	8	23	1	17	0	34	Vir	02m04s	126	n Asia, w N America, Greenland[Total: Greenland, n Canada, Montana, N. Dakota]
LUNA	T	2044	9	7	11	20	15	29	Pis	03h27m 00h 36m	138	e Asia Australia, Pacific, Americas
SOL	A	2045	2	16	23	56	28	43	Acu	07m47s	131	Australia, New Zealand, Pacific[Annular: New Zealand, HawaiiPacific]
LUNA	Pen	2045	3	3	7	42	13	8	Vir		143	Americas
SOL	T	2045	8	12	17	42	20	25	Leo	06m06s	136	N& C America, S america, w Africa[Total: s US, Haiti, Dominican Rep.,
LUNA	Pen	2045	8	27	13	54	4	43	Pis		148	Asia Australia, w N America
LUNA	P	2046	1	22	13	2	2	39	Leo	00h53m	115	Asia , Australia, N America
SOL	A	2046	2	05	23	6	17	19	Acu	09m42s	141	Australia, Papua New Guinea, w Us[Annular: Papua New Guinea, Hawaii, California, Oregon, Idaho]
LUNA	P	2046	7	18	1	5	25	37	Cap	01h56m	120	Americas, Europe, Africa, w Asia
SOL	T	2046	8	02	10	21	10	20	Leo	04m51s	146	Brasil, Africa[Total: Brazil, Angola, e Namibia, Botswana, S. Africa, Swaziland, s Mozambique]
LUNA	T	2047	1	12	1	25	21	44	Can	03h30m <b>01h11m</b>	125	Americas, Europe, Africa, Asia
SOL	P	2047	1	26	1	33	6	0	Acu		151	e Asia, Alaska

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SOL	P	2047	6	23	10	52	1	56	Can		118	n Canada, Greenland, ne Asia
LUNA	T	2047	7	7	10	35	15	17	Cap	03h39m <b>01h41m</b>	130	e Asia, Australia, Pacific, Americas
SOL	P	2047	7	22	22	36	0	5	Leo		156	se Australia, New Zealand
SOL	P	2047	12	16	23	50	24	56	Sag		123	Antarctica, s Chile, s Argentina
LUNA	T	2048	1	1	6	53	10	31	Can	03h35m <b>00h57m</b>	135	ne Asia, Pacific,Americas, w Europe, w Africa
SOL	A	2048	6	11	12	58	21	17	Gem	04m58s	128	N. America, Carribbean, n Africa, Europe, w Asia[Annular: midwest US, Quebec, Ontario, Greenland, Iceland,
LUNA	P	2048	6	26	2	1	5	11	Cap	02h40m	140	Americas, Europe, Africa
SOL	T	2048	12	05	15	35	14	10	Sag	03m28s	133	s S. America, sw Africa[Total: Chile, Argentina, Namibia, Botswana]
LUNA	Pen	2048	12	20	6	27	29	3	Gem		145	Americas, Europe, w Africa
LUNA	Pen	2049	5	17	11	26	27	0	Esc		112	e Asia, Australia, Pacific, w Americas
SOL	A	2049	5	31	13	59	10	34	Gem	04m45s	138	se US, C. America, S. America, Africa,s Europe[Annular: Peru, Ecuador, Columbia, Venezuela, Guyana, Senegal,
LUNA	Pen	2049	6	15	19	13	25	8	Sag		150	Europe, Africa, Asia, Australia, Pacific, nw N.A.
LUNA	Pen	2049	11	9	15	51	17	41	Tau		117	Europe, Africa, Asia, Australia, Pacific, nw N.A.
SOL	H	2049	11	25	5	33	3	23	Sag	00m38s	143	e Africa, s Asia, East Indies, Australia[Hybrid: Saudi Arabia, Yemen, Malaysia, Indonesia]
LUNA	T	2050	5	6	22	30	16	35	Esc	03h27m <b>00h45m</b>	122	e Americas, Europe,Africa, Asia, w Australia
SOL	H	2050	5	20	20	42	0	2	Gem	00m21s	148	N. Z. Pacific, sw S. America[Hybrid: s Pacific]
LUNA	T	2050	10	30	3	10	6	53	Tau	03h14m <b>00h36m</b>	127	Americas Europe, Africa, w Asia
SOL	P	2050	11	14	13	30	22	23	Esc		153	ne US, e Canada, n Africa, Europe