

Solar & Lunar Eclipses: Dates from 1900 to 2050 (Times are GMT/UT)

Total	SOLAR	Eclipse	1900	5	28	14:49:45	6	GEM	47	
Partial	LUNAR	Eclipse	1900	6	13	3:38:36	21	SAG	39	
Annular	SOLAR	Eclipse	1900	11	22	7:17:07	29	SCO	33	
Penumbral	LUNAR	Eclipse	1900	12	6	10:38:07	13	GEM	53	
Penumbral	LUNAR	Eclipse	1901	5	3	18:18:44	12	SCO	36	
Total	SOLAR	Eclipse	1901	5	18	5:37:32	26	TAU	34	
Partial	LUNAR	Eclipse	1901	10	27	15:06:12	3	TAU	30	
Annular	SOLAR	Eclipse	1901	11	11	7:34:05	18	SCO	14	
Partial	SOLAR	Eclipse	1902	4	8	13:49:57	17	ARI	48	
Total	LUNAR	Eclipse	1902	4	22	18:49:30	1	SCO	42	
Partial	SOLAR	Eclipse	1902	5	7	22:45:02	16	TAU	25	
Total	LUNAR	Eclipse	1902	10	17	6:01:04	22	ARI	56	
Partial	SOLAR	Eclipse	1902	10	31	8:13:32	6	SCO	59	
Annular	SOLAR	Eclipse	1903	3	29	1:26:01	7	ARI	11	
Partial	LUNAR	Eclipse	1903	4	12	0:18:15	20	LIB	56	
Total	SOLAR	Eclipse	1903	9	21	4:30:38	27	VIR	01	
Partial	LUNAR	Eclipse	1903	10	6	15:23:31	12	ARI	11	
Penumbral	LUNAR	Eclipse	1904	3	2	2:48:15	11	VIR	07	
Annular	SOLAR	Eclipse	1904	3	17	5:39:08	26	PIS	13	
Penumbral	LUNAR	Eclipse	1904	3	31	12:44:15	10	LIB	23	
Total	SOLAR	Eclipse	1904	9	9	20:42:38	16	VIR	42	
Penumbral	LUNAR	Eclipse	1904	9	24	17:49:42	1	ARI	14	
Partial	LUNAR	Eclipse	1905	2	19	18:51:48	0	VIR	29	
Annular	SOLAR	Eclipse	1905	3	6	5:19:16	14	PIS	59	
Partial	LUNAR	Eclipse	1905	8	15	3:31:20	21	AQU	37	
Total	SOLAR	Eclipse	1905	8	30	13:13:14	6	VIR	28	
Total	LUNAR	Eclipse	1906	2	9	7:45:33	19	LEO	40	
Partial	SOLAR	Eclipse	1906	2	23	7:57:10	3	PIS	48	
Partial	SOLAR	Eclipse	1906	7	21	12:58:56	27	CAN	50	
Total	LUNAR	Eclipse	1906	8	4	12:59:34	11	AQU	13	
Partial	SOLAR	Eclipse	1906	8	20	1:27:17	26	LEO	07	
Total	SOLAR	Eclipse	1907	1	14	5:56:51	22	CAP	56	
Partial	LUNAR	Eclipse	1907	1	29	13:44:57	8	LEO	31	
Annular	SOLAR	Eclipse	1907	7	10	15:16:55	17	CAN	12	
Partial	LUNAR	Eclipse	1907	7	25	4:29:21	1	AQU	05	
Total	SOLAR	Eclipse	1908	1	3	21:43:15	12	CAP	08	
Penumbral	LUNAR	Eclipse	1908	1	18	13:36:45	27	CAN	05	
Penumbral	LUNAR	Eclipse	1908	6	14	13:55:04	23	SAG	04	
Annular	SOLAR	Eclipse	1908	6	28	16:31:20	6	CAN	32	
Penumbral	LUNAR	Eclipse	1908	7	13	21:47:43	21	CAP	02	
Penumbral	LUNAR	Eclipse	1908	12	7	21:43:56	15	GEM	25	
Annular	Total	SOLAR	Eclipse	1908	12	23	11:49:37	1	CAP	17
Total	LUNAR	Eclipse	1909	6	4	1:24:29	12	SAG	46	
Annular	Total	SOLAR	Eclipse	1909	6	17	23:28:10	26	GEM	05
Total	LUNAR	Eclipse	1909	11	27	8:51:40	4	GEM	29	
Partial	SOLAR	Eclipse	1909	12	12	19:58:29	20	SAG	11	
Total	SOLAR	Eclipse	1910	5	9	5:32:37	17	TAU	43	
Total	LUNAR	Eclipse	1910	5	24	5:38:48	2	SAG	10	
Partial	SOLAR	Eclipse	1910	11	2	1:55:51	8	SCO	46	
Total	LUNAR	Eclipse	1910	11	17	0:24:51	23	TAU	47	
Total	SOLAR	Eclipse	1911	4	28	22:24:48	7	TAU	30	
Penumbral	LUNAR	Eclipse	1911	5	13	6:09:27	21	SCO	22	
Annular	SOLAR	Eclipse	1911	10	22	4:09:09	27	LIB	38	
Penumbral	LUNAR	Eclipse	1911	11	6	15:47:55	13	TAU	07	
Partial	LUNAR	Eclipse	1912	4	1	22:04:19	11	LIB	49	

Annular Total	SOLAR Eclipse	1912	4	17	11:39:52	27	ARI	05
Partial	LUNAR Eclipse	1912	9	26	11:33:55	3	ARI	00
Total	SOLAR Eclipse	1912	10	10	13:40:24	16	LIB	53
Total	LUNAR Eclipse	1913	3	22	11:55:51	1	LIB	16
Partial	SOLAR Eclipse	1913	4	6	17:47:46	16	ARI	19
Partial	SOLAR Eclipse	1913	8	31	20:37:47	7	VIR	48
Total	LUNAR Eclipse	1913	9	15	12:45:31	22	PIS	03
Partial	SOLAR Eclipse	1913	9	30	4:56:31	6	LIB	25
Annular	SOLAR Eclipse	1914	2	25	0:01:47	5	PIS	33
Partial	LUNAR Eclipse	1914	3	12	4:18:13	20	VIR	46
Total	SOLAR Eclipse	1914	8	21	12:26:08	27	LEO	35
Partial	LUNAR Eclipse	1914	9	4	14:00:48	11	PIS	11
Penumbral	LUNAR Eclipse	1915	1	31	4:40:54	10	LEO	14
Annular	SOLAR Eclipse	1915	2	14	4:30:48	24	AQU	25
Penumbral	LUNAR Eclipse	1915	3	1	18:32:21	10	VIR	06
Penumbral	LUNAR Eclipse	1915	7	26	12:10:42	2	AQU	25
Annular	SOLAR Eclipse	1915	8	10	22:51:58	17	LEO	12
Penumbral	LUNAR Eclipse	1915	8	24	21:40:03	0	PIS	37
Partial	LUNAR Eclipse	1916	1	20	8:28:35	28	CAN	58
Total	SOLAR Eclipse	1916	2	3	16:05:15	13	AQU	31
Partial	LUNAR Eclipse	1916	7	15	4:39:48	22	CAP	20
Annular	SOLAR Eclipse	1916	7	30	2:14:57	6	LEO	34
Partial	SOLAR Eclipse	1916	12	24	20:30:51	2	CAP	44
Total	LUNAR Eclipse	1917	1	8	7:41:35	17	CAN	29
Partial	SOLAR Eclipse	1917	1	23	7:39:38	2	AQU	45
Partial	SOLAR Eclipse	1917	6	19	13:01:48	27	GEM	39
Total	LUNAR Eclipse	1917	7	4	21:40:12	12	CAP	18
Partial	SOLAR Eclipse	1917	7	19	2:59:37	25	CAN	51
Annular	SOLAR Eclipse	1917	12	14	9:17:03	21	SAG	50
Total	LUNAR Eclipse	1917	12	28	9:51:18	6	CAN	07
Total	SOLAR Eclipse	1918	6	8	22:02:26	17	GEM	16
Partial	LUNAR Eclipse	1918	6	24	10:37:55	2	CAP	05
Annular	SOLAR Eclipse	1918	12	3	15:18:52	10	SAG	40
Penumbral	LUNAR Eclipse	1918	12	17	19:17:08	25	GEM	04
Penumbral	LUNAR Eclipse	1919	5	15	1:00:55	23	SCO	09
Total	SOLAR Eclipse	1919	5	29	13:11:35	7	GEM	06
Partial	LUNAR Eclipse	1919	11	7	23:34:47	14	TAU	31
Annular	SOLAR Eclipse	1919	11	22	15:19:20	29	SCO	17
Total	LUNAR Eclipse	1920	5	3	1:46:53	12	SCO	19
Partial	SOLAR Eclipse	1920	5	18	6:24:47	27	TAU	00
Total	LUNAR Eclipse	1920	10	27	14:08:35	3	TAU	52
Partial	SOLAR Eclipse	1920	11	10	16:04:48	17	SCO	58
Annular	SOLAR Eclipse	1921	4	8	9:04:47	17	ARI	59
Total	LUNAR Eclipse	1921	4	22	7:48:58	1	SCO	38
Total	SOLAR Eclipse	1921	10	1	12:26:01	7	LIB	47
Partial	LUNAR Eclipse	1921	10	16	22:59:14	23	ARI	02
Penumbral	LUNAR Eclipse	1922	3	13	11:13:59	22	VIR	06
Annular	SOLAR Eclipse	1922	3	28	13:03:01	7	ARI	04
Penumbral	LUNAR Eclipse	1922	4	11	20:43:13	21	LIB	10
Total	SOLAR Eclipse	1922	9	21	4:37:58	27	VIR	24
Penumbral	LUNAR Eclipse	1922	10	6	0:57:58	11	ARI	59
Partial	LUNAR Eclipse	1923	3	3	3:23:23	11	VIR	32
Annular	SOLAR Eclipse	1923	3	17	12:51:04	25	PIS	55
Partial	LUNAR Eclipse	1923	8	26	10:29:11	2	PIS	09
Total	SOLAR Eclipse	1923	9	10	20:52:26	17	VIR	06

	Total	LUNAR	Eclipse	1924	2	20	16:07:03	0	VIR	46
	Partial	SOLAR	Eclipse	1924	3	5	15:57:32	14	PIS	49
	Partial	SOLAR	Eclipse	1924	7	31	19:41:43	8	LEO	16
	Total	LUNAR	Eclipse	1924	8	14	20:18:52	21	AQU	43
	Partial	SOLAR	Eclipse	1924	8	30	8:36:39	6	VIR	40
	Total	SOLAR	Eclipse	1925	1	24	14:44:53	4	AQU	08
	Partial	LUNAR	Eclipse	1925	2	8	21:48:56	19	LEO	39
	Annular	SOLAR	Eclipse	1925	7	20	21:39:45	27	CAN	37
	Partial	LUNAR	Eclipse	1925	8	4	11:58:51	11	AQU	34
	Total	SOLAR	Eclipse	1926	1	14	6:34:32	23	CAP	21
	Penumbra	LUNAR	Eclipse	1926	1	28	21:35:10	8	LEO	14
	Penumbra	LUNAR	Eclipse	1926	6	25	21:12:36	3	CAP	31
	Annular	SOLAR	Eclipse	1926	7	9	23:06:15	16	CAN	57
	Penumbra	LUNAR	Eclipse	1926	7	25	5:13:10	1	AQU	30
	Penumbra	LUNAR	Eclipse	1926	12	19	6:08:38	26	GEM	35
Annular	Total	SOLAR	Eclipse	1927	1	3	20:27:46	12	CAP	29
	Total	LUNAR	Eclipse	1927	6	15	8:19:11	23	SAG	14
	Total	SOLAR	Eclipse	1927	6	29	6:31:52	6	CAN	32
	Total	LUNAR	Eclipse	1927	12	8	17:31:51	15	GEM	38
	Partial	SOLAR	Eclipse	1927	12	24	4:13:10	1	CAP	21
	Total	SOLAR	Eclipse	1928	5	19	13:13:56	28	TAU	17
	Total	LUNAR	Eclipse	1928	6	3	12:13:20	12	SAG	39
	Partial	SOLAR	Eclipse	1928	6	17	20:41:58	26	GEM	22
	Partial	SOLAR	Eclipse	1928	11	12	9:35:14	19	SCO	46
	Total	LUNAR	Eclipse	1928	11	27	9:05:25	4	GEM	54
	Total	SOLAR	Eclipse	1929	5	9	6:07:11	18	TAU	07
	Penumbra	LUNAR	Eclipse	1929	5	23	12:49:44	1	SAG	53
	Annular	SOLAR	Eclipse	1929	11	1	12:00:47	8	SCO	35
	Penumbra	LUNAR	Eclipse	1929	11	17	0:14:05	24	TAU	10
	Partial	LUNAR	Eclipse	1930	4	13	5:48:23	22	LIB	35
Annular	Total	SOLAR	Eclipse	1930	4	28	19:08:20	7	TAU	45
	Partial	LUNAR	Eclipse	1930	10	7	18:55:30	13	ARI	47
	Total	SOLAR	Eclipse	1930	10	21	21:47:31	27	LIB	46
	Total	LUNAR	Eclipse	1931	4	2	20:05:25	12	LIB	07
	Partial	SOLAR	Eclipse	1931	4	18	0:59:34	27	ARI	03
	Partial	SOLAR	Eclipse	1931	9	12	4:26:20	18	VIR	27
	Total	LUNAR	Eclipse	1931	9	26	19:44:50	2	ARI	45
	Partial	SOLAR	Eclipse	1931	10	11	13:05:51	17	LIB	15
	Annular	SOLAR	Eclipse	1932	3	7	7:44:13	16	PIS	32
	Partial	LUNAR	Eclipse	1932	3	22	12:37:19	1	LIB	41
	Total	SOLAR	Eclipse	1932	8	31	19:54:32	8	VIR	10
	Partial	LUNAR	Eclipse	1932	9	14	21:05:59	21	PIS	49
	Penumbra	LUNAR	Eclipse	1933	2	10	13:00:26	21	LEO	22
	Annular	SOLAR	Eclipse	1933	2	24	12:43:50	5	PIS	29
	Penumbra	LUNAR	Eclipse	1933	3	12	2:45:36	21	VIR	05
	Penumbra	LUNAR	Eclipse	1933	8	5	19:31:28	12	AQU	53
	Annular	SOLAR	Eclipse	1933	8	21	5:47:48	27	LEO	42
	Penumbra	LUNAR	Eclipse	1933	9	4	5:04:18	11	PIS	12
	Partial	LUNAR	Eclipse	1934	1	30	16:31:23	10	LEO	07
	Total	SOLAR	Eclipse	1934	2	14	0:43:21	24	AQU	39
	Partial	LUNAR	Eclipse	1934	7	26	12:08:30	2	AQU	48
	Annular	SOLAR	Eclipse	1934	8	10	8:45:33	17	LEO	02
	Partial	SOLAR	Eclipse	1935	1	5	5:20:05	13	CAP	57
	Total	LUNAR	Eclipse	1935	1	19	15:44:11	28	CAN	39
	Partial	SOLAR	Eclipse	1935	2	3	16:27:18	13	AQU	56

Partial	SOLAR	Eclipse	1935	6	30	19:44:27	8	CAN	04
Total	LUNAR	Eclipse	1935	7	16	5:00:23	22	CAP	45
Partial	SOLAR	Eclipse	1935	7	30	9:32:22	6	LEO	18
Annular	SOLAR	Eclipse	1935	12	25	17:49:24	3	CAP	01
Total	LUNAR	Eclipse	1936	1	8	18:14:36	17	CAN	19
Total	SOLAR	Eclipse	1936	6	19	5:14:26	27	GEM	44
Partial	LUNAR	Eclipse	1936	7	4	17:34:27	12	CAP	31
Annular	SOLAR	Eclipse	1936	12	13	23:24:51	21	SAG	49
Penumbral	LUNAR	Eclipse	1936	12	28	4:00:07	6	CAN	16
Penumbral	LUNAR	Eclipse	1937	5	25	7:37:35	3	SAG	40
Total	SOLAR	Eclipse	1937	6	8	20:42:55	17	GEM	36
Partial	LUNAR	Eclipse	1937	11	18	8:09:30	25	TAU	35
Annular	SOLAR	Eclipse	1937	12	2	23:10:39	10	SAG	23
Total	LUNAR	Eclipse	1938	5	14	8:38:56	22	SCO	54
Total	SOLAR	Eclipse	1938	5	29	13:59:32	7	GEM	32
Total	LUNAR	Eclipse	1938	11	7	22:23:22	14	TAU	51
Partial	SOLAR	Eclipse	1938	11	22	0:04:41	29	SCO	02
Annular	SOLAR	Eclipse	1939	4	19	16:35:01	28	ARI	43
Total	LUNAR	Eclipse	1939	5	3	15:15:21	12	SCO	18
Total	SOLAR	Eclipse	1939	10	12	20:30:05	18	LIB	37
Partial	LUNAR	Eclipse	1939	10	28	6:41:35	3	TAU	57
Penumbral	LUNAR	Eclipse	1940	3	23	19:33:15	3	LIB	01
Annular	SOLAR	Eclipse	1940	4	7	20:18:20	17	ARI	52
Penumbral	LUNAR	Eclipse	1940	4	22	4:36:53	1	SCO	54
Total	SOLAR	Eclipse	1940	10	1	12:41:04	8	LIB	11
Penumbral	LUNAR	Eclipse	1940	10	16	8:14:57	22	ARI	49
Partial	LUNAR	Eclipse	1941	3	13	11:46:43	22	VIR	31
Annular	SOLAR	Eclipse	1941	3	27	20:13:42	6	ARI	46
Partial	LUNAR	Eclipse	1941	9	5	17:35:55	12	PIS	45
Total	SOLAR	Eclipse	1941	9	21	4:38:29	27	VIR	48
Total	LUNAR	Eclipse	1942	3	3	0:19:46	11	VIR	48
Partial	SOLAR	Eclipse	1942	3	16	23:49:53	25	PIS	46
Partial	SOLAR	Eclipse	1942	8	12	2:27:39	18	LEO	45
Total	LUNAR	Eclipse	1942	8	26	3:46:04	2	PIS	17
Partial	SOLAR	Eclipse	1942	9	10	15:52:41	17	VIR	18
Total	SOLAR	Eclipse	1943	2	4	23:28:55	15	AQU	17
Partial	LUNAR	Eclipse	1943	2	20	5:44:44	0	VIR	43
Annular	SOLAR	Eclipse	1943	8	1	4:06:15	8	LEO	03
Partial	LUNAR	Eclipse	1943	8	15	19:33:56	22	AQU	05
Total	SOLAR	Eclipse	1944	1	25	15:24:11	4	AQU	33
Penumbral	LUNAR	Eclipse	1944	2	9	5:29:29	19	LEO	21
Penumbral	LUNAR	Eclipse	1944	7	6	4:26:40	13	CAP	58
Annular	SOLAR	Eclipse	1944	7	20	5:42:24	27	CAN	22
Penumbral	LUNAR	Eclipse	1944	8	4	12:39:13	11	AQU	59
Penumbral	LUNAR	Eclipse	1944	12	29	14:38:05	7	CAN	47
Annular	SOLAR	Eclipse	1945	1	14	5:06:34	23	CAP	41
Partial	LUNAR	Eclipse	1945	6	25	15:07:52	3	CAP	40
Total	SOLAR	Eclipse	1945	7	9	13:35:14	16	CAN	57
Total	LUNAR	Eclipse	1945	12	19	2:17:22	26	GEM	50
Partial	SOLAR	Eclipse	1946	1	3	12:29:38	12	CAP	33
Partial	SOLAR	Eclipse	1946	5	30	20:49:20	8	GEM	49
Total	LUNAR	Eclipse	1946	6	14	18:41:36	23	SAG	05
Partial	SOLAR	Eclipse	1946	6	29	4:05:42	6	CAN	49
Partial	SOLAR	Eclipse	1946	11	23	17:23:46	0	SAG	50
Total	LUNAR	Eclipse	1946	12	8	17:51:58	16	GEM	03

Total	SOLAR	Eclipse	1947	5	20	13:43:40	28	TAU	42
Partial	LUNAR	Eclipse	1947	6	3	19:26:43	12	SAG	22
Annular	SOLAR	Eclipse	1947	11	12	20:00:55	19	SCO	36
Penumbra	LUNAR	Eclipse	1947	11	28	8:45:13	5	GEM	16
Partial	LUNAR	Eclipse	1948	4	23	13:28:17	3	SCO	17
Annular Total	SOLAR	Eclipse	1948	5	9	2:30:07	18	TAU	22
Penumbra	LUNAR	Eclipse	1948	10	18	2:23:24	24	ARI	37
Total	SOLAR	Eclipse	1948	11	1	6:02:32	8	SCO	44
Total	LUNAR	Eclipse	1949	4	13	4:08:24	22	LIB	54
Partial	SOLAR	Eclipse	1949	4	28	8:02:13	7	TAU	42
Total	LUNAR	Eclipse	1949	10	7	2:52:34	13	ARI	30
Partial	SOLAR	Eclipse	1949	10	21	21:22:47	28	LIB	09
Annular	SOLAR	Eclipse	1950	3	18	15:20:01	27	PIS	28
Total	LUNAR	Eclipse	1950	4	2	20:48:47	12	LIB	32
Total	SOLAR	Eclipse	1950	9	12	3:28:53	18	VIR	48
Total	LUNAR	Eclipse	1950	9	26	4:21:26	2	ARI	31
Penumbra	LUNAR	Eclipse	1951	2	21	21:12:10	2	VIR	26
Annular	SOLAR	Eclipse	1951	3	7	20:50:31	16	PIS	29
Penumbra	LUNAR	Eclipse	1951	3	23	10:49:47	2	LIB	00
Penumbra	LUNAR	Eclipse	1951	8	17	2:59:25	23	AQU	25
Annular	SOLAR	Eclipse	1951	9	1	12:49:34	8	VIR	16
Penumbra	LUNAR	Eclipse	1951	9	15	12:38:21	21	PIS	52
Partial	LUNAR	Eclipse	1952	2	11	0:28:10	21	LEO	14
Total	SOLAR	Eclipse	1952	2	25	9:15:57	5	PIS	43
Partial	LUNAR	Eclipse	1952	8	5	19:39:59	13	AQU	17
Annular	SOLAR	Eclipse	1952	8	20	15:20:20	27	LEO	31
Total	LUNAR	Eclipse	1953	1	29	23:44:10	9	LEO	48
Partial	SOLAR	Eclipse	1953	2	14	1:10:15	25	AQU	03
Partial	SOLAR	Eclipse	1953	7	11	2:28:07	18	CAN	30
Total	LUNAR	Eclipse	1953	7	26	12:20:35	3	AQU	12
Partial	SOLAR	Eclipse	1953	8	9	16:09:56	16	LEO	45
Annular	SOLAR	Eclipse	1954	1	5	2:21:19	14	CAP	13
Total	LUNAR	Eclipse	1954	1	19	2:36:46	28	CAN	30
Total	SOLAR	Eclipse	1954	6	30	12:25:41	8	CAN	10
Partial	LUNAR	Eclipse	1954	7	16	0:29:01	22	CAP	57
Annular	SOLAR	Eclipse	1954	12	25	7:33:09	2	CAP	59
Penumbra	LUNAR	Eclipse	1955	1	8	12:44:05	17	CAN	28
Penumbra	LUNAR	Eclipse	1955	6	5	14:08:23	14	SAG	08
Total	SOLAR	Eclipse	1955	6	20	4:11:44	28	GEM	05
Partial	LUNAR	Eclipse	1955	11	29	16:49:49	6	GEM	42
Annular	SOLAR	Eclipse	1955	12	14	7:07:03	21	SAG	31
Partial	LUNAR	Eclipse	1956	5	24	15:25:50	3	SAG	25
Total	SOLAR	Eclipse	1956	6	8	21:29:07	18	GEM	02
Total	LUNAR	Eclipse	1956	11	18	6:44:35	25	TAU	55
Partial	SOLAR	Eclipse	1956	12	2	8:12:31	10	SAG	09
Annular	SOLAR	Eclipse	1957	4	29	23:53:46	9	TAU	23
Total	LUNAR	Eclipse	1957	5	13	22:34:15	22	SCO	52
Partial	SOLAR	Eclipse	1957	10	23	4:43:20	29	LIB	31
Total	LUNAR	Eclipse	1957	11	7	14:31:59	14	TAU	55
Penumbra	LUNAR	Eclipse	1958	4	4	3:44:46	13	LIB	52
Annular	SOLAR	Eclipse	1958	4	19	3:23:27	28	ARI	34
Partial	LUNAR	Eclipse	1958	5	3	12:23:15	12	SCO	34
Total	SOLAR	Eclipse	1958	10	12	20:51:55	19	LIB	01
Penumbra	LUNAR	Eclipse	1958	10	27	15:40:59	3	TAU	43
Partial	LUNAR	Eclipse	1959	3	24	20:02:25	3	LIB	26

Annular	SOLAR	Eclipse	1959	4	8	3:29:00	17	ARI	34
Penumbral	LUNAR	Eclipse	1959	9	17	0:51:35	23	PIS	24
Total	SOLAR	Eclipse	1959	10	2	12:30:51	8	LIB	34
Total	LUNAR	Eclipse	1960	3	13	8:25:48	22	VIR	47
Partial	SOLAR	Eclipse	1960	3	27	7:37:18	6	ARI	39
Total	LUNAR	Eclipse	1960	9	5	11:18:44	12	PIS	53
Partial	SOLAR	Eclipse	1960	9	20	23:12:29	27	VIR	58
Total	SOLAR	Eclipse	1961	2	15	8:10:20	26	AQU	25
Partial	LUNAR	Eclipse	1961	3	2	13:34:39	11	VIR	45
Annular	SOLAR	Eclipse	1961	8	11	10:35:44	18	LEO	31
Partial	LUNAR	Eclipse	1961	8	26	3:13:16	2	PIS	39
Total	SOLAR	Eclipse	1962	2	5	0:09:54	15	AQU	43
Penumbral	LUNAR	Eclipse	1962	2	19	13:17:53	0	VIR	25
Penumbral	LUNAR	Eclipse	1962	7	17	11:40:32	24	CAP	25
Annular	SOLAR	Eclipse	1962	7	31	12:23:40	7	LEO	49
Penumbral	LUNAR	Eclipse	1962	8	15	20:09:11	22	AQU	30
Penumbral	LUNAR	Eclipse	1963	1	9	23:08:06	18	CAN	59
Annular	SOLAR	Eclipse	1963	1	25	13:41:53	4	AQU	52
Partial	LUNAR	Eclipse	1963	7	6	21:55:24	14	CAP	06
Total	SOLAR	Eclipse	1963	7	20	20:42:42	27	CAN	24
Total	LUNAR	Eclipse	1963	12	30	11:03:50	8	CAN	01
Partial	SOLAR	Eclipse	1964	1	14	20:43:28	23	CAP	43
Partial	SOLAR	Eclipse	1964	6	10	4:22:17	19	GEM	19
Total	LUNAR	Eclipse	1964	6	25	1:07:59	3	CAP	30
Partial	SOLAR	Eclipse	1964	7	9	11:30:47	17	CAN	16
Partial	SOLAR	Eclipse	1964	12	4	1:18:12	11	SAG	56
Total	LUNAR	Eclipse	1964	12	19	2:41:11	27	GEM	14
Total	SOLAR	Eclipse	1965	5	30	21:12:31	9	GEM	13
Partial	LUNAR	Eclipse	1965	6	14	1:59:18	22	SAG	48
Annular	SOLAR	Eclipse	1965	11	23	4:09:51	0	SAG	40
Penumbral	LUNAR	Eclipse	1965	12	8	17:21:07	16	GEM	25
Penumbral	LUNAR	Eclipse	1966	5	4	21:00:28	13	SCO	56
Annular Total	SOLAR	Eclipse	1966	5	20	9:42:14	28	TAU	55
Penumbral	LUNAR	Eclipse	1966	10	29	10:00:01	5	TAU	32
Total	SOLAR	Eclipse	1966	11	12	14:26:19	19	SCO	45
Total	LUNAR	Eclipse	1967	4	24	12:03:24	3	SCO	37
Partial	SOLAR	Eclipse	1967	5	9	14:55:18	18	TAU	18
Total	LUNAR	Eclipse	1967	10	18	10:10:46	24	ARI	21
Total	SOLAR	Eclipse	1967	11	2	5:48:19	9	SCO	07
Partial	SOLAR	Eclipse	1968	3	28	22:47:59	8	ARI	19
Total	LUNAR	Eclipse	1968	4	13	4:51:39	23	LIB	20
Total	SOLAR	Eclipse	1968	9	22	11:08:05	29	VIR	30
Total	LUNAR	Eclipse	1968	10	6	11:46:05	13	ARI	17
Annular	SOLAR	Eclipse	1969	3	18	4:51:21	27	PIS	25
Penumbral	LUNAR	Eclipse	1969	4	2	18:44:52	12	LIB	51
Penumbral	LUNAR	Eclipse	1969	8	27	10:32:23	3	PIS	58
Annular	SOLAR	Eclipse	1969	9	11	19:55:47	18	VIR	53
Penumbral	LUNAR	Eclipse	1969	9	25	20:20:50	2	ARI	35
Partial	LUNAR	Eclipse	1970	2	21	8:18:41	2	VIR	18
Total	SOLAR	Eclipse	1970	3	7	17:42:27	16	PIS	44
Partial	LUNAR	Eclipse	1970	8	17	3:15:20	23	AQU	49
Annular	SOLAR	Eclipse	1970	8	31	22:01:13	8	VIR	04
Total	LUNAR	Eclipse	1971	2	10	7:41:23	20	LEO	55
Partial	SOLAR	Eclipse	1971	2	25	9:48:33	6	PIS	09
Partial	SOLAR	Eclipse	1971	7	22	9:14:58	28	CAN	56

Total	LUNAR	Eclipse	1971	8	6	19:42:20	13	AQU	41
Partial	SOLAR	Eclipse	1971	8	20	22:53:20	27	LEO	15
Annular	SOLAR	Eclipse	1972	1	16	10:52:23	25	CAP	25
Total	LUNAR	Eclipse	1972	1	30	10:58:11	9	LEO	39
Total	SOLAR	Eclipse	1972	7	10	19:38:46	18	CAN	37
Partial	LUNAR	Eclipse	1972	7	26	7:23:32	3	AQU	24
Annular	SOLAR	Eclipse	1973	1	4	15:42:29	14	CAP	10
Penumbral	LUNAR	Eclipse	1973	1	18	21:28:25	28	CAN	40
Penumbral	LUNAR	Eclipse	1973	6	15	20:34:34	24	SAG	35
Total	SOLAR	Eclipse	1973	6	30	11:38:45	8	CAN	32
Penumbral	LUNAR	Eclipse	1973	7	15	11:55:53	22	CAP	51
Partial	LUNAR	Eclipse	1973	12	10	1:34:36	17	GEM	51
Annular	SOLAR	Eclipse	1973	12	24	15:07:01	2	CAP	40
Partial	LUNAR	Eclipse	1974	6	4	22:09:38	13	SAG	54
Total	SOLAR	Eclipse	1974	6	20	4:55:39	28	GEM	30
Total	LUNAR	Eclipse	1974	11	29	15:10:03	7	GEM	01
Partial	SOLAR	Eclipse	1974	12	13	16:24:44	21	SAG	17
Partial	SOLAR	Eclipse	1975	5	11	7:04:53	19	TAU	59
Total	LUNAR	Eclipse	1975	5	25	5:50:35	3	SAG	25
Partial	SOLAR	Eclipse	1975	11	3	13:04:46	10	SCO	29
Total	LUNAR	Eclipse	1975	11	18	22:28:15	25	TAU	58
Annular	SOLAR	Eclipse	1976	4	29	10:19:29	9	TAU	13
Partial	LUNAR	Eclipse	1976	5	13	20:04:02	23	SCO	10
Total	SOLAR	Eclipse	1976	10	23	5:09:38	29	LIB	55
Penumbral	LUNAR	Eclipse	1976	11	6	23:14:34	14	TAU	41
Partial	LUNAR	Eclipse	1977	4	4	4:08:53	14	LIB	17
Annular	SOLAR	Eclipse	1977	4	18	10:35:26	28	ARI	17
Penumbral	LUNAR	Eclipse	1977	9	27	8:17:24	4	ARI	07
Total	SOLAR	Eclipse	1977	10	12	20:30:41	19	LIB	24
Total	LUNAR	Eclipse	1978	3	24	16:19:59	3	LIB	40
Partial	SOLAR	Eclipse	1978	4	7	15:15:09	17	ARI	27
Total	LUNAR	Eclipse	1978	9	16	19:01:05	23	PIS	33
Partial	SOLAR	Eclipse	1978	10	2	6:40:38	8	LIB	43
Total	SOLAR	Eclipse	1979	2	26	16:45:13	7	PIS	29
Partial	LUNAR	Eclipse	1979	3	13	21:14:15	22	VIR	42
Annular	SOLAR	Eclipse	1979	8	22	17:10:26	29	LEO	01
Total	LUNAR	Eclipse	1979	9	6	10:58:34	13	PIS	16
Total	SOLAR	Eclipse	1980	2	16	8:50:53	26	AQU	50
Penumbral	LUNAR	Eclipse	1980	3	1	20:59:39	11	VIR	26
Penumbral	LUNAR	Eclipse	1980	7	27	18:53:38	4	AQU	52
Annular	SOLAR	Eclipse	1980	8	10	19:09:18	18	LEO	17
Penumbral	LUNAR	Eclipse	1980	8	26	3:42:12	3	PIS	03
Penumbral	LUNAR	Eclipse	1981	1	20	7:38:57	0	LEO	10
Annular	SOLAR	Eclipse	1981	2	4	22:13:45	16	AQU	02
Partial	LUNAR	Eclipse	1981	7	17	4:38:50	24	CAP	31
Total	SOLAR	Eclipse	1981	7	31	3:51:57	7	LEO	51
Total	LUNAR	Eclipse	1982	1	9	19:52:49	19	CAN	14
Partial	SOLAR	Eclipse	1982	1	25	4:55:56	4	AQU	54
Partial	SOLAR	Eclipse	1982	6	21	11:51:46	29	GEM	47
Total	LUNAR	Eclipse	1982	7	6	7:31:36	13	CAP	55
Partial	SOLAR	Eclipse	1982	7	20	18:56:38	27	CAN	43
Partial	SOLAR	Eclipse	1982	12	15	9:18:04	23	SAG	04
Total	LUNAR	Eclipse	1982	12	30	11:32:35	8	CAN	27
Total	SOLAR	Eclipse	1983	6	11	4:37:31	19	GEM	43
Partial	LUNAR	Eclipse	1983	6	25	8:31:46	3	CAP	14

Annular	SOLAR	Eclipse	1983	12	4	12:25:51	11	SAG	47
Penumbra	LUNAR	Eclipse	1983	12	20	2:00:16	27	GEM	36
Penumbra	LUNAR	Eclipse	1984	5	15	4:28:36	24	SCO	32
Annular	SOLAR	Eclipse	1984	5	30	16:47:51	9	GEM	26
Penumbra	LUNAR	Eclipse	1984	6	13	14:41:47	22	SAG	45
Penumbra	LUNAR	Eclipse	1984	11	8	17:42:36	16	TAU	30
Total	SOLAR	Eclipse	1984	11	22	22:56:40	0	SAG	50
Total	LUNAR	Eclipse	1985	5	4	19:52:49	14	SCO	17
Partial	SOLAR	Eclipse	1985	5	19	21:41:07	28	TAU	50
Total	LUNAR	Eclipse	1985	10	28	17:37:32	5	TAU	15
Total	SOLAR	Eclipse	1985	11	12	14:20:20	20	SCO	09
Partial	SOLAR	Eclipse	1986	4	9	6:08:08	19	ARI	06
Total	LUNAR	Eclipse	1986	4	24	12:46:22	4	SCO	03
Annular Total	SOLAR	Eclipse	1986	10	3	18:54:46	10	LIB	16
Total	LUNAR	Eclipse	1986	10	17	19:21:39	24	ARI	07
Annular Total	SOLAR	Eclipse	1987	3	29	12:45:33	8	ARI	18
Penumbra	LUNAR	Eclipse	1987	4	14	2:30:58	23	LIB	38
Annular	SOLAR	Eclipse	1987	9	23	3:08:13	29	VIR	34
Penumbra	LUNAR	Eclipse	1987	10	7	4:12:15	13	ARI	22
Partial	LUNAR	Eclipse	1988	3	3	16:01:04	13	VIR	18
Total	SOLAR	Eclipse	1988	3	18	2:02:20	27	PIS	42
Partial	LUNAR	Eclipse	1988	8	27	10:55:51	4	PIS	23
Annular	SOLAR	Eclipse	1988	9	11	4:49:08	18	VIR	40
Total	LUNAR	Eclipse	1989	2	20	15:31:52	1	VIR	59
Partial	SOLAR	Eclipse	1989	3	7	18:18:40	17	PIS	10
Total	LUNAR	Eclipse	1989	8	17	3:06:37	24	AQU	12
Partial	SOLAR	Eclipse	1989	8	31	5:44:31	7	VIR	48
Annular	SOLAR	Eclipse	1990	1	26	19:20:02	6	AQU	35
Total	LUNAR	Eclipse	1990	2	9	19:15:44	20	LEO	47
Total	SOLAR	Eclipse	1990	7	22	2:54:18	29	CAN	04
Partial	LUNAR	Eclipse	1990	8	6	14:19:25	13	AQU	52
Annular	SOLAR	Eclipse	1991	1	15	23:49:39	25	CAP	20
Penumbra	LUNAR	Eclipse	1991	1	30	6:09:43	9	LEO	51
Penumbra	LUNAR	Eclipse	1991	6	27	2:58:25	5	CAP	00
Total	SOLAR	Eclipse	1991	7	11	19:06:05	18	CAN	59
Penumbra	LUNAR	Eclipse	1991	7	26	18:24:21	3	AQU	16
Partial	LUNAR	Eclipse	1991	12	21	10:23:11	29	GEM	03
Annular	SOLAR	Eclipse	1992	1	4	23:09:35	13	CAP	51
Partial	LUNAR	Eclipse	1992	6	15	4:49:44	24	SAG	20
Total	SOLAR	Eclipse	1992	6	30	12:18:01	8	CAN	57
Total	LUNAR	Eclipse	1992	12	9	23:40:41	18	GEM	10
Partial	SOLAR	Eclipse	1992	12	24	0:42:51	2	CAP	28
Partial	SOLAR	Eclipse	1993	5	21	14:06:31	0	GEM	31
Total	LUNAR	Eclipse	1993	6	4	13:02:13	13	SAG	55
Partial	SOLAR	Eclipse	1993	11	13	21:34:21	21	SCO	32
Total	LUNAR	Eclipse	1993	11	29	6:30:46	7	GEM	03
Annular	SOLAR	Eclipse	1994	5	10	17:06:34	19	TAU	48
Partial	LUNAR	Eclipse	1994	5	25	3:39:22	3	SAG	43
Total	SOLAR	Eclipse	1994	11	3	13:35:29	10	SCO	54
Penumbra	LUNAR	Eclipse	1994	11	18	6:57:00	25	TAU	42
Partial	LUNAR	Eclipse	1995	4	15	12:08:12	25	LIB	04
Annular	SOLAR	Eclipse	1995	4	29	17:36:19	8	TAU	56
Penumbra	LUNAR	Eclipse	1995	10	8	15:51:51	14	ARI	54
Total	SOLAR	Eclipse	1995	10	24	4:36:12	0	SCO	18
Total	LUNAR	Eclipse	1996	4	4	0:06:56	14	LIB	31

Partial	SOLAR	Eclipse	1996	4	17	22:48:46	28	ARI	12	
Total	LUNAR	Eclipse	1996	9	27	2:50:46	4	ARI	17	
Partial	SOLAR	Eclipse	1996	10	12	14:14:26	19	LIB	32	
Total	SOLAR	Eclipse	1997	3	9	1:14:35	18	PIS	31	
Partial	LUNAR	Eclipse	1997	3	24	4:45:14	3	LIB	35	
Partial	SOLAR	Eclipse	1997	9	1	23:51:34	9	VIR	34	
Total	LUNAR	Eclipse	1997	9	16	18:50:29	23	PIS	56	
Total	SOLAR	Eclipse	1998	2	26	17:25:55	7	PIS	55	
Penumbra	LUNAR	Eclipse	1998	3	13	4:34:09	22	VIR	24	
Penumbra	LUNAR	Eclipse	1998	8	8	2:09:37	15	AQU	21	
Annular	SOLAR	Eclipse	1998	8	22	2:03:06	28	LEO	48	
Penumbra	LUNAR	Eclipse	1998	9	6	11:21:22	13	PIS	40	
Penumbra	LUNAR	Eclipse	1999	1	31	16:06:31	11	LEO	20	
Annular	SOLAR	Eclipse	1999	2	16	6:38:42	27	AQU	08	
Partial	LUNAR	Eclipse	1999	7	28	11:24:47	4	AQU	58	
Total	SOLAR	Eclipse	1999	8	11	11:08:30	18	LEO	21	
Total	LUNAR	Eclipse	2000	1	21	4:40:27	0	LEO	26	
Partial	SOLAR	Eclipse	2000	2	5	13:03:16	16	AQU	02	
Partial	SOLAR	Eclipse	2000	7	1	19:19:55	10	CAN	14	
Total	LUNAR	Eclipse	2000	7	16	13:55:13	24	CAP	19	
Partial	SOLAR	Eclipse	2000	7	31	2:25:09	8	LEO	12	
Partial	SOLAR	Eclipse	2000	12	25	17:21:37	4	CAP	14	
Total	LUNAR	Eclipse	2001	1	9	20:24:24	19	CAN	39	
Total	SOLAR	Eclipse	2001	6	21	11:57:45	0	CAN	10	
Partial	LUNAR	Eclipse	2001	7	5	15:03:46	13	CAP	39	
Annular	SOLAR	Eclipse	2001	12	14	20:47:23	22	SAG	56	
Penumbra	LUNAR	Eclipse	2001	12	30	10:40:32	8	CAN	48	
Penumbra	LUNAR	Eclipse	2002	5	26	11:51:15	5	SAG	04	
Annular	SOLAR	Eclipse	2002	6	10	23:46:31	19	GEM	54	
Penumbra	LUNAR	Eclipse	2002	6	24	21:42:21	3	CAP	11	
Penumbra	LUNAR	Eclipse	2002	11	20	1:33:40	27	TAU	33	
Total	SOLAR	Eclipse	2002	12	4	7:34:22	11	SAG	58	
Total	LUNAR	Eclipse	2003	5	16	3:35:57	24	SCO	53	
Annular	SOLAR	Eclipse	2003	5	31	4:19:53	9	GEM	20	
Total	LUNAR	Eclipse	2003	11	9	1:13:22	16	TAU	13	
Total	SOLAR	Eclipse	2003	11	23	22:58:57	1	SAG	14	
Partial	SOLAR	Eclipse	2004	4	19	13:21:12	29	ARI	49	
Total	LUNAR	Eclipse	2004	5	4	20:33:26	14	SCO	42	
Partial	SOLAR	Eclipse	2004	10	14	2:48:15	21	LIB	06	
Total	LUNAR	Eclipse	2004	10	28	3:07:22	5	TAU	02	
Annular	Total	SOLAR	Eclipse	2005	4	8	20:32:01	19	ARI	06
Penumbra	LUNAR	Eclipse	2005	4	24	10:06:28	4	SCO	20	
Annular	SOLAR	Eclipse	2005	10	3	10:27:53	10	LIB	19	
Partial	LUNAR	Eclipse	2005	10	17	12:13:38	24	ARI	13	
Penumbra	LUNAR	Eclipse	2006	3	14	23:35:26	24	VIR	15	
Total	SOLAR	Eclipse	2006	3	29	10:15:15	8	ARI	35	
Partial	LUNAR	Eclipse	2006	9	7	18:42:03	15	PIS	00	
Annular	SOLAR	Eclipse	2006	9	22	11:45:03	29	VIR	20	
Total	LUNAR	Eclipse	2007	3	3	23:17:07	13	VIR	00	
Partial	SOLAR	Eclipse	2007	3	19	2:42:34	28	PIS	07	
Total	LUNAR	Eclipse	2007	8	28	10:35:06	4	PIS	46	
Partial	SOLAR	Eclipse	2007	9	11	12:44:14	18	VIR	25	
Annular	SOLAR	Eclipse	2008	2	7	3:44:31	17	AQU	44	
Total	LUNAR	Eclipse	2008	2	21	3:30:31	1	VIR	53	
Total	SOLAR	Eclipse	2008	8	1	10:12:34	9	LEO	32	

Partial	LUNAR	Eclipse	2008	8	16	21:16:28	24	AQU	21
Annular	SOLAR	Eclipse	2009	1	26	7:55:17	6	AQU	30
Penumbra	LUNAR	Eclipse	2009	2	9	14:49:10	21	LEO	00
Penumbra	LUNAR	Eclipse	2009	7	7	9:21:25	15	CAP	24
Total	SOLAR	Eclipse	2009	7	22	2:34:36	29	CAN	27
Penumbra	LUNAR	Eclipse	2009	8	6	0:54:52	13	AQU	43
Partial	LUNAR	Eclipse	2009	12	31	19:12:45	10	CAN	15
Annular	SOLAR	Eclipse	2010	1	15	7:11:22	25	CAP	01
Partial	LUNAR	Eclipse	2010	6	26	11:30:22	4	CAP	46
Total	SOLAR	Eclipse	2010	7	11	19:40:27	19	CAN	24
Total	LUNAR	Eclipse	2010	12	21	8:13:27	29	GEM	21
Partial	SOLAR	Eclipse	2011	1	4	9:02:36	13	CAP	39
Partial	SOLAR	Eclipse	2011	6	1	21:02:36	11	GEM	02
Total	LUNAR	Eclipse	2011	6	15	20:13:35	24	SAG	23
Partial	SOLAR	Eclipse	2011	7	1	8:53:55	9	CAN	12
Partial	SOLAR	Eclipse	2011	11	25	6:09:41	2	SAG	37
Total	LUNAR	Eclipse	2011	12	10	14:36:22	18	GEM	11
Annular	SOLAR	Eclipse	2012	5	20	23:47:01	0	GEM	21
Partial	LUNAR	Eclipse	2012	6	4	11:11:33	14	SAG	14
Total	SOLAR	Eclipse	2012	11	13	22:08:00	21	SCO	57
Penumbra	LUNAR	Eclipse	2012	11	28	14:45:56	6	GEM	47
Partial	LUNAR	Eclipse	2013	4	25	19:57:06	5	SCO	46
Annular	SOLAR	Eclipse	2013	5	10	0:28:23	19	TAU	31
Penumbra	LUNAR	Eclipse	2013	5	25	4:24:55	4	SAG	08
Penumbra	LUNAR	Eclipse	2013	10	18	23:37:39	25	ARI	45
Annular Total	SOLAR	Eclipse	2013	11	3	12:49:57	11	SCO	16
Total	LUNAR	Eclipse	2014	4	15	7:42:17	25	LIB	16
Partial	SOLAR	Eclipse	2014	4	29	6:14:20	8	TAU	52
Total	LUNAR	Eclipse	2014	10	8	10:50:34	15	ARI	05
Partial	SOLAR	Eclipse	2014	10	23	21:56:38	0	SCO	25
Total	SOLAR	Eclipse	2015	3	20	9:36:09	29	PIS	27
Total	LUNAR	Eclipse	2015	4	4	12:05:32	14	LIB	24
Partial	SOLAR	Eclipse	2015	9	13	6:41:14	20	VIR	10
Total	LUNAR	Eclipse	2015	9	28	2:50:28	4	ARI	40
Total	SOLAR	Eclipse	2016	3	9	1:54:26	18	PIS	56
Penumbra	LUNAR	Eclipse	2016	3	23	12:00:47	3	LIB	17
Penumbra	LUNAR	Eclipse	2016	8	18	9:26:31	25	AQU	52
Annular	SOLAR	Eclipse	2016	9	1	9:03:02	9	VIR	21
Penumbra	LUNAR	Eclipse	2016	9	16	19:05:02	24	PIS	20
Penumbra	LUNAR	Eclipse	2017	2	11	0:32:49	22	LEO	28
Annular	SOLAR	Eclipse	2017	2	26	14:58:19	8	PIS	12
Partial	LUNAR	Eclipse	2017	8	7	18:10:33	15	AQU	25
Total	SOLAR	Eclipse	2017	8	21	18:30:06	28	LEO	53
Total	LUNAR	Eclipse	2018	1	31	13:26:39	11	LEO	37
Partial	SOLAR	Eclipse	2018	2	15	21:05:07	27	AQU	08
Partial	SOLAR	Eclipse	2018	7	13	2:47:47	20	CAN	41
Total	LUNAR	Eclipse	2018	7	27	20:20:15	4	AQU	45
Partial	SOLAR	Eclipse	2018	8	11	9:57:38	18	LEO	42
Partial	SOLAR	Eclipse	2019	1	6	1:28:05	15	CAP	25
Total	LUNAR	Eclipse	2019	1	21	5:15:58	0	LEO	52
Total	SOLAR	Eclipse	2019	7	2	19:16:06	10	CAN	38
Partial	LUNAR	Eclipse	2019	7	16	21:38:06	24	CAP	04
Annular	SOLAR	Eclipse	2019	12	26	5:13:00	4	CAP	07
Penumbra	LUNAR	Eclipse	2020	1	10	19:21:10	20	CAN	00
Penumbra	LUNAR	Eclipse	2020	6	5	19:12:15	15	SAG	34

Annular	SOLAR	Eclipse	2020	6	21	6:41:19	0	CAN	21
Penumbra	LUNAR	Eclipse	2020	7	5	4:44:16	13	CAP	38
Penumbra	LUNAR	Eclipse	2020	11	30	9:29:32	8	GEM	38
Total	SOLAR	Eclipse	2020	12	14	16:16:26	23	SAG	08
Total	LUNAR	Eclipse	2021	5	26	11:13:43	5	SAG	26
Annular	SOLAR	Eclipse	2021	6	10	10:52:29	19	GEM	47
Partial	LUNAR	Eclipse	2021	11	19	8:57:17	27	TAU	14
Total	SOLAR	Eclipse	2021	12	4	7:42:51	12	SAG	22
Partial	SOLAR	Eclipse	2022	4	30	20:27:54	10	TAU	28
Total	LUNAR	Eclipse	2022	5	16	4:13:58	25	SCO	18
Partial	SOLAR	Eclipse	2022	10	25	10:48:30	2	SCO	00
Total	LUNAR	Eclipse	2022	11	8	11:01:57	16	TAU	01
Annular Total	SOLAR	Eclipse	2023	4	20	4:12:19	29	ARI	50
Penumbra	LUNAR	Eclipse	2023	5	5	17:33:50	14	SCO	58
Annular	SOLAR	Eclipse	2023	10	14	17:54:56	21	LIB	08
Partial	LUNAR	Eclipse	2023	10	28	20:23:49	5	TAU	09
Penumbra	LUNAR	Eclipse	2024	3	25	7:00:05	5	LIB	07
Total	SOLAR	Eclipse	2024	4	8	18:20:37	19	ARI	24
Partial	LUNAR	Eclipse	2024	9	18	2:34:13	25	PIS	41
Annular	SOLAR	Eclipse	2024	10	2	18:49:02	10	LIB	04
Total	LUNAR	Eclipse	2025	3	14	6:54:23	23	VIR	57
Partial	SOLAR	Eclipse	2025	3	29	10:57:34	9	ARI	00
Total	LUNAR	Eclipse	2025	9	7	18:08:37	15	PIS	23
Partial	SOLAR	Eclipse	2025	9	21	19:53:51	29	VIR	05
Annular	SOLAR	Eclipse	2026	2	17	12:00:52	28	AQU	50
Total	LUNAR	Eclipse	2026	3	3	11:37:36	12	VIR	54
Total	SOLAR	Eclipse	2026	8	12	17:36:27	20	LEO	02
Partial	LUNAR	Eclipse	2026	8	28	4:18:14	4	PIS	54
Annular	SOLAR	Eclipse	2027	2	6	15:55:48	17	AQU	38
Penumbra	LUNAR	Eclipse	2027	2	20	23:23:20	2	VIR	06
Penumbra	LUNAR	Eclipse	2027	7	18	15:44:36	25	CAP	49
Total	SOLAR	Eclipse	2027	8	2	10:04:55	9	LEO	55
Penumbra	LUNAR	Eclipse	2027	8	17	7:28:22	24	AQU	12
Partial	LUNAR	Eclipse	2028	1	12	4:02:45	21	CAN	28
Annular	SOLAR	Eclipse	2028	1	26	15:12:11	6	AQU	11
Partial	LUNAR	Eclipse	2028	7	6	18:10:28	15	CAP	11
Total	SOLAR	Eclipse	2028	7	22	3:01:22	29	CAN	51
Total	LUNAR	Eclipse	2028	12	31	16:48:10	10	CAN	33
Partial	SOLAR	Eclipse	2029	1	14	17:24:09	24	CAP	50
Partial	SOLAR	Eclipse	2029	6	12	3:50:11	21	GEM	29
Total	LUNAR	Eclipse	2029	6	26	3:21:59	4	CAP	50
Partial	SOLAR	Eclipse	2029	7	11	15:50:42	19	CAN	38
Partial	SOLAR	Eclipse	2029	12	5	14:51:45	13	SAG	45
Total	LUNAR	Eclipse	2029	12	20	22:46:08	29	GEM	21
Annular	SOLAR	Eclipse	2030	6	1	6:20:57	10	GEM	50
Partial	LUNAR	Eclipse	2030	6	15	18:40:37	24	SAG	43
Total	SOLAR	Eclipse	2030	11	25	6:46:05	3	SAG	02
Penumbra	LUNAR	Eclipse	2030	12	9	22:40:03	17	GEM	54
Penumbra	LUNAR	Eclipse	2031	5	7	3:39:28	16	SCO	25
Annular	SOLAR	Eclipse	2031	5	21	7:16:48	0	GEM	04
Penumbra	LUNAR	Eclipse	2031	6	5	11:58:08	14	SAG	39
Penumbra	LUNAR	Eclipse	2031	10	30	7:32:17	6	TAU	41
Annular Total	SOLAR	Eclipse	2031	11	14	21:09:12	22	SCO	18
Total	LUNAR	Eclipse	2032	4	25	15:09:15	5	SCO	58
Annular	SOLAR	Eclipse	2032	5	9	13:35:18	19	TAU	29

Total	LUNAR	Eclipse	2032	10	18	18:57:42	25	ARI	57
Partial	SOLAR	Eclipse	2032	11	3	5:44:30	11	SCO	22
Total	SOLAR	Eclipse	2033	3	30	17:51:12	10	ARI	21
Total	LUNAR	Eclipse	2033	4	14	19:16:56	25	LIB	09
Partial	SOLAR	Eclipse	2033	9	23	13:39:19	0	LIB	51
Total	LUNAR	Eclipse	2033	10	8	10:57:41	15	ARI	29
Total	SOLAR	Eclipse	2034	3	20	10:14:06	29	PIS	52
Penumbral	LUNAR	Eclipse	2034	4	3	19:18:24	14	LIB	06
Annular	SOLAR	Eclipse	2034	9	12	16:13:19	19	VIR	59
Partial	LUNAR	Eclipse	2034	9	28	2:56:20	5	ARI	04
Penumbral	LUNAR	Eclipse	2035	2	22	8:53:26	3	VIR	33
Annular	SOLAR	Eclipse	2035	3	9	23:08:59	19	PIS	12
Partial	LUNAR	Eclipse	2035	8	19	0:59:48	25	AQU	55
Total	SOLAR	Eclipse	2035	9	2	1:59:02	9	VIR	28
Total	LUNAR	Eclipse	2036	2	11	22:08:11	22	LEO	45
Partial	SOLAR	Eclipse	2036	2	27	4:58:46	8	PIS	10
Partial	SOLAR	Eclipse	2036	7	23	10:16:29	1	LEO	09
Total	LUNAR	Eclipse	2036	8	7	2:48:25	15	AQU	12
Partial	SOLAR	Eclipse	2036	8	21	17:34:50	29	LEO	14
Partial	SOLAR	Eclipse	2037	1	16	9:33:52	26	CAP	35
Total	LUNAR	Eclipse	2037	1	31	14:03:37	12	LEO	02
Total	SOLAR	Eclipse	2037	7	13	2:31:16	21	CAN	04
Partial	LUNAR	Eclipse	2037	7	27	4:14:36	4	AQU	30
Annular	SOLAR	Eclipse	2038	1	5	13:40:48	15	CAP	18
Penumbral	LUNAR	Eclipse	2038	1	21	3:59:24	1	LEO	12
Penumbral	LUNAR	Eclipse	2038	6	17	2:29:59	26	SAG	02
Annular	SOLAR	Eclipse	2038	7	2	13:31:35	10	CAN	47
Penumbral	LUNAR	Eclipse	2038	7	16	11:47:41	24	CAP	04
Penumbral	LUNAR	Eclipse	2038	12	11	17:29:50	19	GEM	46
Total	SOLAR	Eclipse	2038	12	26	1:01:23	4	CAP	20
Partial	LUNAR	Eclipse	2039	6	6	18:47:06	15	SAG	56
Annular	SOLAR	Eclipse	2039	6	21	17:20:51	0	CAN	13
Partial	LUNAR	Eclipse	2039	11	30	16:48:58	8	GEM	20
Total	SOLAR	Eclipse	2039	12	15	16:31:26	23	SAG	33
Partial	SOLAR	Eclipse	2040	5	11	3:27:16	21	TAU	04
Total	LUNAR	Eclipse	2040	5	26	11:46:28	5	SAG	50
Partial	SOLAR	Eclipse	2040	11	4	18:55:22	12	SCO	58
Total	LUNAR	Eclipse	2040	11	18	19:05:32	27	TAU	03
Total	SOLAR	Eclipse	2041	4	30	11:45:42	10	TAU	30
Partial	LUNAR	Eclipse	2041	5	16	0:51:44	25	SCO	33
Annular	SOLAR	Eclipse	2041	10	25	1:29:40	2	SCO	01
Partial	LUNAR	Eclipse	2041	11	8	4:42:50	16	TAU	09
Penumbral	LUNAR	Eclipse	2042	4	5	14:15:16	15	LIB	56
Total	SOLAR	Eclipse	2042	4	20	2:18:39	0	TAU	09
Partial	LUNAR	Eclipse	2042	9	29	10:33:38	6	ARI	26
Annular	SOLAR	Eclipse	2042	10	14	2:02:27	20	LIB	52
Penumbral	LUNAR	Eclipse	2042	10	28	19:47:43	5	TAU	31
Total	LUNAR	Eclipse	2043	3	25	14:25:37	4	LIB	50
Total	SOLAR	Eclipse	2043	4	9	19:05:57	19	ARI	50
Total	LUNAR	Eclipse	2043	9	19	1:46:23	26	PIS	02
Annular	SOLAR	Eclipse	2043	10	3	3:11:28	9	LIB	49
Annular	SOLAR	Eclipse	2044	2	28	20:11:41	9	PIS	53
Total	LUNAR	Eclipse	2044	3	13	19:40:29	23	VIR	53
Total	SOLAR	Eclipse	2044	8	23	1:05:18	0	VIR	34
Total	LUNAR	Eclipse	2044	9	7	11:23:43	15	PIS	29

Annular	SOLAR	Eclipse	2045	2	16	23:50:25	28	AQU	43
Penumbral	LUNAR	Eclipse	2045	3	3	7:51:56	13	VIR	08
Total	SOLAR	Eclipse	2045	8	12	17:38:32	20	LEO	25
Penumbral	LUNAR	Eclipse	2045	8	27	14:06:57	4	PIS	43
Partial	LUNAR	Eclipse	2046	1	22	12:50:34	2	LEO	39
Annular	SOLAR	Eclipse	2046	2	5	23:08:58	17	AQU	19
Partial	LUNAR	Eclipse	2046	7	18	0:54:17	25	CAP	37
Total	SOLAR	Eclipse	2046	8	2	10:24:45	10	LEO	20
Total	LUNAR	Eclipse	2047	1	12	1:20:35	21	CAN	44
Partial	SOLAR	Eclipse	2047	1	26	1:43:01	6	AQU	00
Partial	SOLAR	Eclipse	2047	6	23	10:35:03	1	CAN	56
Total	LUNAR	Eclipse	2047	7	7	10:33:03	15	CAP	17
Partial	SOLAR	Eclipse	2047	7	22	22:48:34	0	LEO	05
Partial	SOLAR	Eclipse	2047	12	16	23:37:28	24	SAG	56
Total	LUNAR	Eclipse	2048	1	1	6:56:18	10	CAN	31
Annular	SOLAR	Eclipse	2048	6	11	12:49:08	21	GEM	17
Partial	LUNAR	Eclipse	2048	6	26	2:07:18	5	CAP	11
Total	SOLAR	Eclipse	2048	12	5	15:29:18	14	SAG	10
Penumbral	LUNAR	Eclipse	2048	12	20	6:38:23	29	GEM	03
Penumbral	LUNAR	Eclipse	2049	5	17	11:12:56	27	SCO	00
Annular	SOLAR	Eclipse	2049	5	31	13:59:17	10	GEM	34
Penumbral	LUNAR	Eclipse	2049	6	15	19:25:58	25	SAG	08
Penumbral	LUNAR	Eclipse	2049	11	9	15:37:05	17	TAU	41
Annular Total	SOLAR	Eclipse	2049	11	25	5:34:52	3	SAG	23
Total	LUNAR	Eclipse	2050	5	6	22:25:14	16	SCO	35
Annular Total	SOLAR	Eclipse	2050	5	20	20:50:09	0	GEM	02
Total	LUNAR	Eclipse	2050	10	30	3:15:02	6	TAU	54
Partial	SOLAR	Eclipse	2050	11	14	13:40:31	22	SCO	23