

SOLAR FLARES

DECEMBER 1965

OBSERVATORY	OBSERVED UT			LOCATION				DURATION	IM-PORTANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	CENTRAL MER. DIST.	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.		MAX. WIDTH Hg
1965 DEC																
KANZ	01	0415	0640	NO FLARE PATROL				160D	1						AG	
	ARCE	01	0823E	1103D	N29 W90											
LOCK	01	0825E	0910D	N26 W88				8079	1-	0840	.29	1.42				
	02	0155	0310	NO FLARE PATROL												
LOCK	02	0315	0445	NO FLARE PATROL				8080	1-	C	2159	.10	.20	10		
	02	0625	0740	NO FLARE PATROL												
LOCK	02	2155	2215	2159 S08 E57				8080	1-	C	2159	.10	.20	10		
	03	0520	0530	NO FLARE PATROL												
HUAN	03	0625	0735	NO FLARE PATROL				8081	28	1-	C	1432	.25		D	
	03	1428	1456	1432 N25 E77												
SACP	03	1428	1507	1437 N27 E74				8081	1-	C		.41	.94	17		
	03	1741	1748	1745 N23 E64												
SACP	04	0325	0355	NO FLARE PATROL				8078	1-	C		1.31	1.32	15		
	04	0405	0445	NO FLARE PATROL												
SACP	04	1749	1802	1753 S19 E07				8078	1-	C		1.31	1.32	15		
	05	0320	0325	NO FLARE PATROL												
HALE	05	0330	0340	NO FLARE PATROL				8075	1-	1	C	1854	.20	.20		
	05	0405	0430	NO FLARE PATROL												
HALE	05	0455	0520	NO FLARE PATROL				8075	1-	1	C	1854	.20	.20		
	05	1850	1906	1854 N27 W10												
LOCK	06	1835	1855	1840 N28 W30				8075	1-	C	1840	.20	.20	10		
	06	2350	2400	NO FLARE PATROL												
CATA	07	0030	0145	NO FLARE PATROL				8083	1-		0843	.24	1.30	135	DG	
	07	0250	0350	NO FLARE PATROL												
BUCA	07	0815E	0900D	0843 N23 E90				8075	55	1-	2		.80			
	07	0900E	0909D	N29 W34												
UCCL	07	1206	1301	N18 E85				8083	9D	1-	C	1351	.30	.36	DK	
	07	1347E	1356	1351 N31 W37												
MCMA	07	1348	1356	1351 N29 W38				8075	8	1-	1	C	1351	.30	.40	DH
	07	1354E	1357D	N33 W35												
UCCL	07	1405E	1416D	1407 N21 E90				8083	3D	1-	2				D	
	07	1425E	1445	N18 E90												
HUAN	07	1425E	1445	N18 E90				8083	11D	1-	1	C	1407	.20		
	07	1505	1510	NO FLARE PATROL												
LOCK	07	1647E	1724U	1700U N20 E90				8083	20D	1-	P	1426	.20			
	07	1705E	1729	1710 N20 E90												
SACP	07	1717	1731	1726 N21 E90				8083	1-	2	C	1726	.39			
	07	1722E	1730D	N20 E90												
MCMA	07	1722E	1730D	N20 E90				8083	8D	1-	1	P	1725	.28	A	
	07	1733	1740	1737 N20 E90												
OTTA	07	1752	1814D	N21 E90				8083	1-	2	C	1803	.44			
	07	1835E	1842D	1837 N20 E90												
MCMA	07	1835E	1842D	1837 N20 E90				8083	7D	1-	1	C	1837	.40	1.20	10
	07	1950U	2025U	2003 N20 E90												
LOCK	07	1950U	2025U	2003 N20 E90				8083	1-	C	2003	.40	1.20	10		
	07	2216	2232D	2218 N16 E90												
HALE	08	0103	0112	0104 N28 W38				8075	1-	1	C	0104	.20	.30		
	08	0200	0330	NO FLARE PATROL												
MANI	08	0652	0743	0705 N18 E85				8083	51	1	2	0705	1.30	3.90	61	DHK
	08	0658E	0907D	0704 N21 E85												
KAND	08	0700E	0703D	N19 E90				8083	129D	2	C	0704	3.70	13.10		
	08	0828E	0849D	0835 N21 E85												
CATA	08	0828E	0849D	0835 N21 E85				8083	10D	1-		0835	.28	1.40	195	D
	08	0830E	0840	N19 E90												
KAND	08	0830E	0840	N19 E90				8083	10D	1-		0831	.40	200	G	
	08	0831E	0838D	N22 E80												
CAPS	08	0831E	0838D	N22 E80				8083	30D	1-	1	P	1350		BE	
	08	1350E	1420D	N20 E80												
MCMA	08	1453	1505	N20 E80				8083	12	1-	2	C	1501		ER	
	08	1457	1512	1502 N20 E76												
SACP	08	1457	1512	1502 N20 E76				8083	10D	1-	C	1505	.41	.97	19	
	08	1500E	1510	N18 E78												
CLMX	08	1610	1617	1612 N17 E73				8083	1-	C		.48	1.03	18		
	08	1612	1620	1615 N18 E75												
SACP	08	1612	1620	1615 N18 E75				8083	8	1-	C	1615	.40	.84		
	08	1742	1755	1748 N20 E75												
LOCK	08	1742	1755	1748 N20 E75				8083	1-	C	1748	.20	.50	10		
	08	1920	1930	1925 N20 E75												
CULG	08	1920	1930	1925 N20 E75				8083	30	1-	C	1925	.30	.70	10	
	08	2212	2242	2218 N20 E79												
LOCK	09	0410	0450	NO FLARE PATROL				8083	1-	2	0601	.50	.80			
	09	2250	2300	NO FLARE PATROL												
LOCK	09	2305	2335	NO FLARE PATROL				8083	1-	2	0605	.20	.30			
	09	2345	2355	NO FLARE PATROL												
MANI	10	0045	0100	NO FLARE PATROL				8083	30D	1	S					
	10	0115	0135	NO FLARE PATROL												
MANI	10	0557E	0613	0601 N17 E62				8083	1-	2	0601	.50	.80			
	10	0603E	0618	0605 N19 E69												
LOCA	10	1340E	1410	N27 E65				8083	30D	1	S					
	10	1615	1625	NO FLARE PATROL												
LOCA	10	1720	1725	NO FLARE PATROL				8083	30D	1	S					
	10	2100	2120	NO FLARE PATROL												

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE				MATH PLAGE REGION	CMP DAY	TIME UT	MEAS. AREA Sq. Deg.		CORR. AREA Sq. Deg.
	1965 DEC															
	10	2140	2210	NO FLARE PATROL												
	10	2235	2325	NO FLARE PATROL												
KANZ	11	1041E	1050		N25 W58		8075	9D	1							
	11	2240	2245	NO FLARE PATROL												
	11	2305	2310	NO FLARE PATROL												
CULG	12	0035	0045	NO FLARE PATROL												
	12	0137	0142D		S04 W06		8090	5D	1-	P	0142	.20	.20		CGL	
CULG	12	0410E	0447D	0433	N30 E55		8087	37D	1-	P	0433	.20	.40			
	13	1455	1515	NO FLARE PATROL												
	13	2305	2320	NO FLARE PATROL												
	14	0150	0155	NO FLARE PATROL												
	14	0210	0215	NO FLARE PATROL												
	14	0225	0230	NO FLARE PATROL												
	14	1745	1755	NO FLARE PATROL												
SACP	14	1849U	1916U	1855U	N20 W05		8083		1-	C		1.19	1.19	21		
KANZ	15	0729E	0826		N20 W12		8083	57D	1						H	
MONT	15	1135E	1201D	1201	N21 W10		8083		1-							
KANZ	15	1456E	1501D		N20 W16		8083	5D	1							
	15	1525	1710	NO FLARE PATROL												
LOCK	15	1750	1820	1755	N18 W20		8083		1-	C	1755	.30	.30	10		
CULG	16	0300	0318	0305	S40 E12			18	1-	C	0305	.20	.26		G	
CULG	16	0434	0443	0436	S06 E22			9	1-	C	0436	.20	.22		CGH	
KANZ	16	0916E	0920D		N20 W25		8083		1-							
KANZ	16	1013	1018		N20 W25		8083		1-							
KANZ	16	1055E	1103D		N20 W27		8083		1-							
	16	1510	1715	NO FLARE PATROL												
HUAN	16	1757E	1807		N25 W30		8083	10D	1-	P	1757	.30	.33		E	
HUAN	16	1936	1940D		N21 W33		8083	4D	1-	P	1939	.25	.28		D	
HALE	16	2206	2214	2207	N21 W33		8083	1-	1	C	2207	.20	.20			
	16	2230	2245	NO FLARE PATROL												
CULG	17	0639	0656	0643	N11 W42		8083	17	1-	C	0643	.40	.52		CFGH	
	17	1240	1340	NO FLARE PATROL												
	17	1350	1415	NO FLARE PATROL												
	17	1430	1510	NO FLARE PATROL												
	17	1520	1555	NO FLARE PATROL												
	17	1610	1615	NO FLARE PATROL												
LOCK	17	1635	1642	1637	N23 W90		8089	7	1	C	1637	.80	4.00	10	H	
MCA	17	1638E	1642D		N27 W90		8089	4D	1-	P	1640				A	
HALE	17	1820	1829	1822	N14 W01		8092		1-	2	C	1822	.20	.20		F
LOCK	17	2020	2027	2021	N18 W47		8083		1-	C	2021	.40	.50	10	J	
HALE	17	2020	2037	2021	N19 W46		8083		1-	2	C	2021	.30	.40		F
HALE	17	2027	2036	2030	N27 W90		8089		1-	2	C	2030	.10			
CULG	17	2145	2153	2147	N26 W90		8089	8		C	2147	.20				
LOCK	17	2146	2150	2148	N23 W90		8089	4	1	C	2148	.50	2.50	20	B	
HALE	17	2146	2151	2147	N26 W90		8089	5	1+	2	C	2147	.40			H
CULG	17	2151	2155	2152	N24 W90		8089	4		C	2152	.20				
LOCK	17	2208	2217	2210	N18 W48		8083		1-	C	2210	.60	.70	10		
HALE	17	2209	2218	2210	N18 W48		8083		1-	2	C	2210	.60	.80		
HALE	17	2213	2222	2215	N28 W90		8089		1-	2	C	2215	.20			H
HALE	17	2220	2231	2224	N19 W48		8083		1-	2	C	2224	.20	.30		
LOCK	17	2221	2230	2224	N19 W47		8083		1-	C	2224	.30	.40	10		
CULG	17	2344E	2351D		N26 W90		8089	7D		P						
MITK	17	2349	2354	2351	N26 W90		8089	5	1	C					GH	
LOCK	17	2349	2354	2350	N23 W90		8089	5	1	C	2350	.50	2.50	10	H	
MANI	18	0607	0618	0609	N23 W57		8083		1-	2	C	0609	.10	.10		
MANI	18	0723E	0725		N17 E60		8095		1-	1	C	0723	.20	.30		
	18	0905	0920	NO FLARE PATROL												
	18	0925	0940	NO FLARE PATROL												
KANZ	18	1022E	1044D		N20 W55		8083	22D	1						EH	
KANZ	18	1036E	1042		N23 W53		8083		1-						DH	
ARCE	18	1042E	1058D		N20 W58		8083		1-	2	C	1048	.92	1.67		
	18	1115	1135	NO FLARE PATROL												
	18	1140	1200	NO FLARE PATROL												
HUAN	18	1207E	1545D		N21 W58		8083	218D		P						
HUAN	18	1515	1524	1518	N24 W55		8083	9	1-	C	1518	.22	.33		D	
LOCK	18	1733	1739	1735	N20 W60		8083		1-	C	1735	.30	.50	10	J	
LOCK	18	1812	1815	1813	N20 W60		8083		1-	C	1813	.40	.60	10	J	
LOCK	18	2151	2200	2154	N20 W60		8083		1-	C	2154	.50	.80	10	J	
CULG	19	0204	0212	0210	S27 W71			8	1-	C	0210	.20	.70		CG	

SOLAR FLARES

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OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MONTH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	
	1965 DEC															
MANI	19	0234	0246	0236	N20 W61		8083		1-	2	0236	.20	.30			
CULG	19	0449	0505	0455	N19 W67		8083	16	1-	C	0455	1.60	4.00			
KANZ	19	1333E	1342D		N19 W69		8083		1-							
KANZ	19	1352	1359		N19 W69		8083		1-							
KANZ	19	1358	1412D		N21 W67		8083		1-						E	
KANZ	19	1420E	1422D		N19 W69		8083		1-							
HALE	19	1759	1810	1800	N25 E06		8100		1-	2	C	1800	.20	.20		
	19	2350	2400		NO FLARE PATROL											
	20	0000	0015		NO FLARE PATROL											
	20	0400	0425		NO FLARE PATROL											
MANI	20	0458	0521	0504	N18 W09		8099		1-	2	0504	.50	.50			
	20	1405	1415		NO FLARE PATROL											
CULG	20	2249	2309	2254	N21 W40		8097	20	1-	C	2254	.20	.28		GH	
	21	0155	0200		NO FLARE PATROL											
CULG	21	0710	0725	0718	N19 W24		8099	15	1-	C	0718	.60	.69		FGL	
KANZ	21	1032E	1042		N20 W90		8083	10D	1-						A	
	21	1410	1430		NO FLARE PATROL											
MCMA	21	1706	1714	1708	N19 W31		8099	8	1-	2	C	1708	.30	.40		DH
MANI	23	0342	0354		N19 W52		8099		1-	2	0347	.25	.30			
	23	1440	1540		NO FLARE PATROL											
	24	1245	1250		NO FLARE PATROL											
HUAN	24	1250E	1312	1254	N19 W70		8099	22D	1-	P	1254	.50			CE	
CAPS	24	1254E	1305D		N19 W70		8099		1-	2	1255	.20		130	E	
CULG	25	0012E	0132D	0020	N11 W01		8105	80D	1-	P	0020	.40	.40		LH	
KODA	25	0750E	0805D		N10 W01		8105	15D	1-	P	0750	.43	.44			
HUAN	25	1220	1237		N12 W08		8105	17	1-	C	1225	.45	.45		E	
HUAN	25	1258	1313		N11 W09		8105	15	1-	C	1305	.55	.55		E	
HUAN	25	1424	1441	1427	N17 W90		8099	17	1-	C	1432	.20			K	
HUAN	25			1433												
HUAN	25	1721	1749	1726	N18 W90		8099	27	1-	C	1726	.30			K	
HUAN	25			1733												
HUAN	25			1739							1739	.45				
HUAN	25	1804	1817	1807	N18 W90		8099	13	1-	C	1807	.20			D	
HUAN	25	1911	1917	1913	N18 W90		8099	6	1-	C	1913	.22			D	
HUAN	25	1928	1942		N17 W90		8099	14	1-	P	1936	.47				
LOCK	25	1930E	1940	1934U	N18 W90		8099	10D	1-	C	1934	.40	2.00		10	
SACP	25	1934	2037	1953	N11 W11		8105	63	1-	C		2.11	2.14		21	
HUAN	25	1937E	1952D		N10 W11		8105	15D	1-	P	1943	.90	.90		CE	
LOCK	25	1940	2005D	1949	N13 W12		8105		1-	C	1949	1.40	1.40		20	
HUAN	25	1948	1952D		N17 W90		8099	4D	1-	P	1948	.22			D	
SACP	25	2324	2345	2331	N11 W14		8105		1-	C		.91	.92		18	
HALE	26	0227	0308	0229	N09 W14		8105		1-	2	C	0229	.20	.20		
MANI	26	0408E	0409D		N11 W18		8105		1-	1	0408	1.40	1.40			
MANI	26	0658E	0710D	0700	N11 W19		8105		1-	2	0700	1.00	1.00			
KANZ	26	1008	1030		N11 W15		8105	22	1-							
HUAN	26	1344	1348		N11 W20		8105	4	1-	P	1345	.50	.50		CE	
HUAN	26	1449	1458	1451	N10 W25		8105	9	1-	C	1451	.32	.32		E	
HUAN	26	1534	1548D		N10 W22		8105	14D	1-	P	1540	.70	.70		E	
LOCK	26	1632	1642	1637	N11 W21		8105		1-	C	1637	.40	.40		10	
LOCK	26	1920	1935	1925	N08 W21		8105		1-	C	1925	.10	.10		10	
CULG	26	2020	2156D	2120	S27 E59		8110	96D	1-	C	2120	.40	.40		G	
LOCK	26	2100	2130	2110	N12 W30		8105		1-	C	2110	.20	.20		10	
HALE	27	0009	0031	0014	N08 W11		8105		1-	2	C	0014	.40	.40		H
MITK	27	0028	0055		N10 W28		8105	27	1-	C					EH	
MANI	27	0031	0057	0041	N09 W24		8105	26	1-	2	0041	2.20	2.20			
HALE	27	0034	0106	0039	N08 W11		8105		1-	2	C	0039	.60	.70		H
HALE	27	0118	0131	0122	N08 W11		8105		1-	2	C	0122	.40	.40		H
HALE	27	0138	0152	0141	N08 W11		8105		1-	2	C	0141	.40	.40		H
HALE	27	0153	0204	0156	N08 W11		8105		1-	2	C	0156	.20	.20		H
CULG	27	0351	0427D	0402	S29 E54		8110	36D	1-	P	0402	.20	.36			
	27	0525	0550		NO FLARE PATROL											
MANI	27	0620	0632	0623	N09 W29		8105		1-	2	0623	1.70	1.70			
	27	0725	0735		NO FLARE PATROL											
KAND	27	0824	0946		S31 E55		8110		1-							
CATA	27	0857E	0930D	0922	S25 E55		8110	33D	1-		0922	1.85	3.20		150	
CATA	27	0932E	1159D	0946	N11 W32		8105	147D	1-		0946	1.87	2.20		155	
KAND	27	1142	1257		S31 E55		8110	75	1-							
HUAN	27	1322	1334	1325	N11 W35		8105	12	1-	C	1325	.30	.33		D	
HUAN	27	1335	1404	1349	S30 E63		8110	29	1-	C	1349	.25	.35		D	
HUAN	27	1410	1415	1412	S30 E63		8110	5	1-	C	1412	.30	.42		D	
HUAN	27	1531	1553		S30 E61		8110	22	1-	P	1535	.50	.70			
HUAN	27	1604	1615D		S30 E62		8110	11D	1-	P	1605	.30	.42		D	
SACP	27	1650	1711	1655	N10 W35		8105		1-	C		1.66	1.81		19	

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE 1965	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MOMENT PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %		
HUAN	27	1746E	1826D		S30 E62		8110		40D	1-	P	1747	.30	.42			D	
HALE	27	1748	1759	1750	S28 E48		8110			1-	C	1750	.20	.30			F	
HALE	27	1801	1816	1805	N09 W36		8105			1-	C	1805	.40	.40			H	
HUAN	27	1802	1811D		N10 W37		8105			1-	P	1805	.25	.28			D	
HALE	27	1810	1820	1813	S28 E50		8110		9D	1-	C	1813	.20	.30			F	
LOCK	27	1820	1831	1825	N12 W36		8105			1-	C	1825	.40	.40		10		
CLMX	27	1853	1904	1858	N11 W37		8105		11	1-	C	1858	.10	.11				
LOCK	27	1920	1946	1931	N12 W39		8105			1-	C	1931	1.80	1.80		20		
CLMX	27	1921	1945	1931	N10 W36		8105		24	1-	C	1931	1.70	1.87				
SACP	27	1923	1944	1930	N09 W37		8105			1-	C	1931	1.82	2.01		20		
HALE	27	1923E	2017	1931	N10 W37		8105		54D	1	2	P	1931	2.20	2.40			F
LOCK	27	2050U	2115U	2103	S26 E45		8110			1-	C	2103	.40	.40		10		
SACP	27	2100	2115	2107	S27 E45		8110			1-	C		.82	1.03		19		
CLMX	27	2101	2115	2107	S28 E47		8110		14	1-	C	2107	.40	.52				
HALE	27	2116	2132D	2119	N10 W37		8105			1-	P	2119	.20	.20				
SACP	27	2207	2222	2212	S27 E45		8110			1-	C		1.15	1.45		20		
CLMX	27	2209	2224	2213	S28 E47		8110		15	1-	C	2213	.60	.78				
LOCK	27	2210	2235	2215	S26 E45		8110			1-	C	2215	.50	.50		10		
HALE	27	2212E	2219D		S28 E45		8110			1-	P	2215	.20	.30				
LOCK	27	2254	2322	2306	N11 W40		8105			1-	C	2306	.70	.70		10		
SACP	27	2332	2346	2338	N23 E54		8107			1-	C		.42	.61		18		
SACP	27	2347	2355D	2351	N11 W40		8105			1-	P		.87	.99		18		
HALE	27	2349E	2352D		N09 W40		8105			1-	P	2349	.30	.30				
MANI	28	0002E	0020	0005	N10 W41		8105			1-	2	P	0005	1.60	1.80			
HALE	28	0016E	0028D		N09 W42		8105			1-	2	P	0028	.40	.50			
MANI	28	0031E	0051	0036	N10 W42		8105			1-	2	P	0036	.80	.90			
CULG	28	0152	0206	0153	N24 E48		8107		14	1-	C	0153	.20	.38				
CULG	28	0300	0311	0308	S30 E54		8110		11	1-	C	0308	.20	.32			C	
KODA	28	0359E			N10 W16		8105			1-	P	0350	.32	.34				
CULG	28	0614	0621	0617	N38 E00		8105		7	1-	C	0617	.20	.22			HCG	
CULG	28	0742	0809	0743	S28 E41		8110		27	1-	C	0743	.40	.60				
ARCE	28	0845E	0900D		N08 W48		8105			1-	3	P	0847	.52	.81			
KAND	28	0851			S27 E42		8110			1-								
ARCE	28	0910E	0940D		N11 W46		8105			1-	3	P	0932	.88	1.35			
ARCE	28	0925E	0940D		S27 E40		8110			1-	3	P	0927	.98	1.44			
KANZ	28	1020E	1103D		S28 E39		8110		43D	1-							H	
KANZ	28	1028E	1050		N09 W43		8105			1-							D	
KANZ	28	1028E	1103D		N10 W48		8105		35D	1-							E	
KANZ	28	1052E	1058D		N22 E50		8107			1-							D	
MEUD	28	1158	1206	1201	N10 W45		8105			1-		1201	.70	1.10			E	
KANZ	28	1315E	1322D		N10 W49		8105			1-							D	
KANZ	28	1336	1344		N12 W45		8105			1-							D	
KANZ	28	1358E	1406D		N09 W48		8105		8D	1-							E	
HUAN	28	1533E	1639		N11 W69		8105		66D	1-	P	1547	.50	.60			H	
SACP	28	1609	1620	1613U	N11 W46		8105			1-	C		.33	.40		17		
HALE	28	2029	2034	2031	N08 W50		8105			1-	2	C	2031	.40	.50			
CULG	28	2030	2033	2031	N07 W50		8105		3	1-	C	2031	.20	.32			CH	
HUAN	28	2031	2034D		N10 W67		8105		3D	1-	P	2033	.25	.30			D	
HALE	28	2158	2221D	2205	S28 E32		8110			1-	2	P	2205	.20	.20			
SACP	28	2321	2350	2340U	S29 E34		8110			1-	C		.25	.29		17		
HALE	28	2326	2356	2332	S28 E32		8110			1-	2	C	2332	.20	.20			
HALE	29	0105	0115D	0112	S30 E32		8110		10D	1-	P	0112	.30	.30			L	
HALE	29	0108	0115D	0113	N08 W50		8105		7D	1-	P	0113	.20	.30				
KODA	29	0640	0650	0641	S26 E32		8110		10	1-	P	0642	.64	.83		1.40		
MANI	29	0641E	0654D	0643	S29 E31		8110			1-	2	P	0643	1.00	1.10			
CATA	29	0834E	1020D	0838	N10 W59		8105			1-		0838	.54	.90		162	EH	
UCCL	29	1013	1018D		S32 E26		8110		5D	1-	2						E	
UCCL	29	1122	1226D	1146	N11 W62		8105		64D	1+	3	1146	.30	.60			E	
MEUD	29	1124	1235	1150	N11 W60		8105		71	1+		1150	2.40	5.10				
CATA	29	1126E	1230D	1210	N09 W58		8105		64D	1+		1210	1.80	3.40		229	H	
ONDR	29	1128E	1334D		N12 W60		8105		126D	2	3	1148				2.60		
NERA	29	1130E	1240D		N11 W60		8105		70D	2	2							
ARCE	29	1232E	1306D		N10 W61		8105		34D	1	2	1252	1.64	3.16				
ARCE	29	1232E	1306D		N08 W58		8105			1-	2	1252	.65	1.38				
MEUD	29	1205	1226	1210	S29 E25		8110		21	1		1210	1.80	2.30				
CATA	29	1208E	1230D	1210	S29 E28		8110		22D	1+		1210	1.05	1.30		302	D	
ARCE	29	1232E	1306D		S28 E27		8110			1-	2	1232	.95	1.19				
ARCE	29	1254E			N08 W58		8105			1-	2	1254	.50	.91				
LOCA	29	1352E	1406		N23 E40		8107		14D	1	S							
ARCE	29	1410E	1459D		S27 E27		8110			1-	2	1440	.72	.89				
ARCE	29	1440E	1445D		N08 W69		8105		5D	1	2	1440	1.01	2.30				
HUAN	29	1632	1647D	1636	S30 E27		8110		15D	1-	C	1636	.35	.39			E	
SACP	29	1633E	1740	1642	S29 E24		8110		67D	1	P		2.31	2.48		20		
HALE	29	1712E	1743	1718	S31 E23		8110		31D	1-	1	P	1718	.60	.70			
HUAN	29	1715E	1727		S30 E26		8110		12D	1-	P	1716	.45	.54			C	
SACP	29	1737	1843	1746	N09 E12					1-	C		.24	.24		17		
HALE	29	1741	1752	1747	N06 E12				11	1-	1	C	1747	.10	.10			
HALE	29	1757	1809	1804	N07 E12				12	1-	1	C	1804	.10	.10			

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE 1965 DEC	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL FLARE DISTANCE	MC MATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
HALE	29	1810	1833	1812	N07 E11				23	1-	1	C	1812	.10	.10		
HALE	29	1818	1831	1820	N10 W71	8105			13	1-	1	C	1820	.10	.20		
HALE	29	1824	1828	1825	S30 E22	8110			4	1-	2	C	1825	.30	.30		
SACP	29	1905	1934	1926	N09 E11				1-	1-	1	C		.33	.32		15
HALE	29	1937	1943	1939	N08 W68	8105			6	1-	2	C	1939	.10	.20		
SACP	29	1932	2030	2019	S29 E23	8110			15	1-	1	C		1.57	1.67		18
HALE	29	1941	1956	1943	S30 E22	8110			15	1-	2	C	1943	.30	.30		
HALE	29	2008	2019	2010	N11 W72	8105			11	1-	1	C	2010	.70	1.50		H
HALE	29	2018	2026	2020	S30 E22	8110			8	1-	1	C	2020	.60	.70		
HALE	29	2044	2058	2045	N10 W71	8105			14	1-	1	C	2045	.20	.40		
SACP	29	2132U	2144	2138	N09 W74	8105			12U	1-	1	P		2.25	4.85		19
HALE	29	2134	2147	2139	N08 W75	8105			13	1+	1	C	2139	1.80	4.10		
SACP	29	2154	2226	2211	N10 W72	8105			13	1-	1	C		.66	1.34		17
HALE	29	2157	2224	2200	N11 W72	8105			27	1-	1	C	2200	.30	.70		K
HALE	29			2211									2211	.40	.90		
HALE	29	2211	2218	2213	N21 E28	8107			7	1-	1	C	2213	.10	.10		
HALE	29	2236E	2311	2242	N11 W72	8105			35D	1-	2	C	2242	.40	.90		
HALE	30	0006	0133D	0044	N09 W71	8105			87D	1+	2	C	0044	1.80	3.60		FJ
MANI	30	0029E	0123	0035	N09 W68	8105				1-	2		0035	1.10	1.90		
HALE	30	0322	0345D	0324	N08 W75	8105			23D	1-	1	P	0324	.30	.70		
	30	0420	0450		NO FLARE PATROL												
	30	0545	0630		NO FLARE PATROL												
ARCE	30	0908E	0935D		N10 W80	8105			27D	1	2		0915	1.18	3.78		
ARCE	30	0955E	1042D		N10 W80	8105			47D	1	2		0955	.85	2.72		
ARCE	30	1012E			N10 W80	8105				1	2		1012	.96	3.07		
CAPE	30	1121	1143	1122	N12 W85	8105			22	1			1121	1.10			J
	30	1530	1635		NO FLARE PATROL												
	30	1640	1650		NO FLARE PATROL												
	30	1705	1720		NO FLARE PATROL												
HALE	30	1818	1830	1821	N07 W80	8105			12	1-	1	C	1821	.30			HK
HALE	30			1827									1827	.20			
HALE	30	1839	1848	1844	N09 W85	8105			9	1-	1	C	1844	.10			
HALE	30	1850	1856	1853	N21 E13	8107			6	1-	2	C	1853	.10	.10		H
HALE	30	1914	1937	1918	N20 E13	8107			23	1-	2	C	1918	.10	.10		HK
HALE	30			1929									1929	.10	.10		
HALE	30	2032	2042	2035	N20 E12	8107			10	1-	2	C	2035	.20	.20		
LOCK	30	2211	2215	2212	N05 W80	8105				1-		C	2212	.10	.30		10
HALE	31	0059	0115	0104	N20 E10	8107			16	1-	1	C	0104	.20	.20		H
ARCE	31	0805E	0850D		N11 W85	8105			45D	1	2		0843	.82	3.35		
ARCE	31	0805E	0912D		N10 W90	8105			67D	1	2		0810	.49	2.78		
ARCE	31	0805E	0936D		N08 W90	8105			81D	1	2		0810	.65	3.69		
CATA	31	0825E	1200D	0845	N09 W90	8105			215D	2			0845	.94	5.30		138
ARCE	31	0925E	0936D		N11 W88	8105			11D	1	2		0930	.52	2.55		
KANZ	31	0930E	1012		N11 W90	8105			42D	1							A
ARCE	31	0940E	0945D		N12 W86	8105			5D	1	2		0940	.49	2.12		
ARCE	31	0953E	1026D		N11 W88	8105			33D	1	2		0957	.43	2.11		
KANZ	31	1016	1024D		N11 W90	8105			8D	1							A
ARCE	31	1119E	1128D		N12 W86	8105			9D	1	2		1121	.52	2.25		
ARCE	31	1130E			N11 W90	8105				1-	2		1130	.26	1.48		
	31	1520	1720		NO FLARE PATROL												
HALE	31	1740	1753	1744	N13 W90	8105			13	1	2	C	1744	.50			
LOCK	31	1755E	1807	1755E	N10 W85	8105				1-		C	1755	.40	1.20		10
HALE	31	1842	1851	1846	N12 W90	8105			9	1-	1	C	1846	.10			
LOCK	31	1850E	1928D	1900	N10 W90	8105			38D	1		C	1900	.80	4.00		20
LOCK	31	2027	2040D	2040U	N10 W90	8105			13D	1		C	2040	.40	2.00		10

SOLAR FLARES

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION - MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1965	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MC MATH REGION	CHP DAY			COND.	TYPE	TIME - UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _z	MAX. INT. %	
KANZ ARCE	01	0823E	1103D		N29	W90		8079		160D	1							AG	
	01	0825E	0910D		N26	W88		8079			1-		0840	.29	1.42				
LOCK	02	2155	2215	2159	S08	E57		8080			1-	C	2159	.10	.20		10		
SACP	03	1428	1507	1437	N27	E74		8081			1-	C		.41	.94		17		
SACP	03	1741	1748	1745	N23	E64		8081			1-	C		.25	.42		16		
SACP	04	1749	1802	1753	S19	E07		8078			1-	C		1.32	1.31		15		
HALE	05	1850	1906	1854	N27	W10		8075			1-	1 C	1854	.20	.20				
LOCK	06	1835	1855	1840	N28	W30		8075			1-	C	1840	.20	.20		10		
CATA	07	0815E	0900D	0843	N23	E90		8083			1-		0843	.24	1.30		135	DG	
BUCA	07	0900E	0909D		N29	W34		8075			1-	2		.80					
MCMA	07	1348	1356	1351	N29	W38		8075			1-	1 C	1351	.30	.40			DH	
MCMA	07	1405E	1416D	1407	N21	E90		8083			1-	1 C	1407					AT	
LOCK	07	1647E	1724U	1700U	N20	E90		8083		37U	1	C	1700	.40	2.00		10		
SACP	07	1705E	1729	1710	N20	E90		8083			1-	P		.75			17		
OTTA	07	1717	1731	1726	N21	E90		8083			1-	2 C	1726	.39					
MCMA	07	1722E	1730D		N20	E90		8083			1-	1 P	1725					A	
OTTA	07	1733	1740	1737	N20	E90		8083			1-	2 C	1737	.28					
OTTA	07	1752	1814D		N21	E90		8083			2	C	1803	.44				A	
MCMA	07	1835E	1842D	1837	N20	E90		8083			1-	1 C	1837					A	
LOCK	07	1950U	2025U	2003	N20	E90		8083			1-	C	2003	.40	1.20		10		
HALE	07	2216	2232D	2218	N16	E90		8083			1-	1 P	2218	.20					
HALE	08	0103	0112	0104	N28	W38		8075			1-	1 C	0104	.20	.30				
MANI	08	0652	0743	0705	N18	W85				51	1	2	0705	1.30	3.90				
KAND	08	0700E	0703D		N19	E90		8083			1-								
CATA	08	0828E	0849D	0835	N21	E85		8083			1-		0835	.28	1.40		195	D	
KAND	08	0830E	0840		N19	E90		8083		10D	1								
CAPS	08	0831E	0838D		N22	E80		8083			1-	1	0831	.40			200	G	
MCMA	08	1350E	1420D		N20	E80		8083			1-	1 P	1350					BE	
MCMA	08	1453	1505	1501	N20	E80		8083			1-	2 C	1501					ER	
SACP	08	1457	1512	1502	N20	E76		8083			1-	C		.41	.97		19		
SACP	08	1610	1617	1612	N17	E73		8083			1-	C		.48	1.03		18		
LOCK	08	1742	1755	1748	N20	E75		8083			1-	C	1748	.20	.50		10		
LOCK	08	1920	1930	1925	N20	E75		8083			1-	C	1925	.30	.70		10		
MANI	10	0557E	0613	0601	N17	E62		8083			1-	2	0601	.50	.80				
MANI	10	0603E	0618	0605	N19	E69		8083			1-	2	0605	.20	.30				
KANZ	11	1041E	1050		N25	W58		8075			9D	1							
SACP	14	1849U	1916U	1855U	N20	W05		8083			1-	C		1.19	1.19		21		
KANZ	15	0729E	0826		N20	W12		8083			57D	1							
MONT	15	1135E	1201D	1201	N21	W10		8083			1-							H	
KANZ	15	1456E	1501D		N20	W16		8083			5D	1							
LOCK	15	1750	1820	1755	N18	W20		8083			1-	C	1755	.30	.30		10		
KANZ	16	0916E	0920D		N20	W25		8083			1-								
KANZ	16	1013	1018		N20	W25		8083			1-								
KANZ	16	1055E	1103D		N20	W27		8083			1-								
HALE	16	2206	2214	2207	N21	W33		8083			1-	1 C	2207	.20	.20				
LOCK	17	1635	1642	1637	N23	W90		8089			7	1	C	1637	.80	4.00		10	H
MCMA	17	1638E	1642D		N27	W90		8089			1-	1 P	1640					A	
HALE	17	1820	1829	1822	N14	W01		8092			1-	2 C	1822	.20	.20			F	
LOCK	17	2020	2027	2021	N18	W47		8083			1-	C	2021	.40	.50		10	J	
HALE	17	2020	2037	2021	N19	W46		8083			1-	2 C	2021	.30	.40			F	
HALE	17	2027	2036	2030	N27	W90		8089			1-	2 C	2030	.10					
LOCK	17	2146	2150	2148	N23	W90		8089			4	1	C	2148	.50	2.50		20	B
HALE	17	2146	2151	2147	N26	W90		8089			5	1+	2 C	2147	.40				H
LOCK	17	2208	2217	2210	N18	W48		8083			1-	C	2210	.60	.70		10		
HALE	17	2209	2218	2210	N18	W48		8083			1-	2 C	2210	.60	.80				
HALE	17	2213	2222	2215	N28	W90		8089			1-	2 C	2215	.20				H	
HALE	17	2220	2231	2224	N19	W48		8083			1-	2 C	2224	.20	.30				
LOCK	17	2221	2230	2224	N19	W47		8083			1-	C	2224	.30	.40		10		
LOCK	17	2349	2354	2350	N23	W90		8089			5	1	C	2350	.50	2.50		10	H
MANI	18	0607	0618	0609	N23	W57		8083			1-	2	0609	.10	.10				
MANI	18	0723E	0725		N17	E60		8095			1-	1	0723	.20	.30				
KANZ	18	1022E	1044D		N20	W55		8083		22D	1								
KANZ	18	1036E	1042		N23	W53		8083			1-								
ARCE	18	1042E	1058D		N20	W58		8083			1-	2	1048	.92	1.67				
LOCK	18	1733	1739	1735	N20	W60		8083			1-	C	1735	.30	.50		10	J	
LOCK	18	1812	1815	1813	N20	W60		8083			1-	C	1813	.40	.60		10	J	
LOCK	18	2151	2200	2154	N20	W60		8083			1-	C	2154	.50	.80		10	J	

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IIIb

DECEMBER 1965

OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1965	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.													
MANI	19	0234	0246	0236	N20	W61		8083			1-	2	0236	.20	.30				
KANZ	19	1333E	1342D		N19	W69		8083			1-								
KANZ	19	1352	1359		N19	W69		8083			1-								
KANZ	19	1358	1412D		N21	W67		8083			1-								
KANZ	19	1420E	1422D		N19	W69		8083			1-							E	
HALE	19	1759	1810	1800	N25	E06		8100			1-	2	C	1800	.20	.20			
MANI	20	0458	0521	0504	N18	W09		8099			1-	2		0504	.50	.50			
KANZ	21	1032E	1042		N20	W90		8083	10D		1-							A	
HMA	21	1706	1714	1708	N19	W31		8099			1-	2	C	1708	.30	.40		DH	
MANI	23	0342	0354		N19	W52		8099			1-	2		0347	.25	.30			
CAPS	24	1254E	1305D		N19	W70		8099			1-	2		1255	.20		130	E	
LOCK	25	1930E	1940	1934U	N18	W90		8099	10D		1-		C	1934	.40	2.00		10	
SACP	25	1934	2037	1953	N11	W11		8105	63		1-		C		2.14	2.11		21	
LOCK	25	1940	2005D	1949	N13	W12		8105			1-		C	1949	1.40	1.40		20	
SACP	25	2324	2345	2331	N11	W14		8105			1-		C		.92	.91		18	
HALE	26	0227	0308	0229	N09	W14		8105			1-	2	C	0229	.20	.20			
MANI	26	0408E	0409D		N11	W18		8105			1-	1		0408	1.40	1.40			
MANI	26	0658E	0710D	0700	N11	W19		8105			1-	2		0700	1.00	1.00			
KANZ	26	1008	1030		N11	W15		8105	22		1-								
LOCK	26	1632	1642	1637	N11	W21		8105			1-		C	1637	.40	.40		10	
LOCK	26	1920	1935	1925	N08	W21		8105			1-		C	1925	.10	.10		10	
LOCK	26	2100	2130	2110	N12	W30		8105			1-		C	2110	.20	.20		10	
HALE	27	0009	0031	0014	N08	W11		8105			1-	2	C	0014	.40	.40			
MANI	27	0031	0057	0041	N09	W24		8105	26		1-	2	C	0041	2.20	2.20			
HALE	27	0034	0106	0039	N08	W11		8105			1-	2	C	0039	.60	.70			
HALE	27	0118	0131	0122	N08	W11		8105			1-	2	C	0122	.40	.40			
HALE	27	0138	0152	0141	N08	W11		8105			1-	2	C	0141	.40	.40			
HALE	27	0153	0204	0156	N08	W11		8105			1-	2	C	0156	.20	.20			
MANI	27	0620	0632	0623	N09	W29		8105			1-	2	C	0623	1.70	1.70			
KAND	27	0824	0946		S31	E55		8110			1-								
CATA	27	0857E	0930D	0922	S25	E55		8110	33D		1-		C	0922	1.85	3.20	150	D	
CATA	27	0932E	1159D	0946	N11	W32		8105	147D		1-		C	0946	1.87	2.20	155	E	
KAND	27	1142	1257		S31	E55		8110	75		1-								
SACP	27	1650	1711	1655	N10	W35		8105			1-		C		1.66	1.81	19		
HALE	27	1748	1759	1750	S28	E48		8110			1-	1	C	1750	.20	.30		F	
HALE	27	1801	1816	1805	N09	W36		8105			1-	2	C	1805	.40	.40		H	
HALE	27	1810	1820	1813	S28	E50		8110			1-	1	C	1813	.20	.30		F	
LOCK	27	1820	1831	1825	N12	W36		8105			1-		C	1825	.40	.40		10	
LOCK	27	1920	1946	1931	N12	W39		8105			1-		C	1931	1.80	1.80		20	
SACP	27	1923	1944	1930	N09	W37		8105			1-		C		1.82	2.01		20	
HALE	27	1923E	2017	1931	N10	W37		8105	54D		1-	2	P	1931	2.20	2.40		F	
LOCK	27	2050U	2115U	2103	S26	E45		8110			1-		C	2103	.40	.40		10	
SACP	27	2100	2115	2107	S27	E45		8110			1-		C		.82	1.03		19	
HALE	27	2116	2132D	2119	N10	W37		8105			1-	1	P	2119	.20	.20			
SACP	27	2207	2222	2212	S27	E45		8110			1-		C		1.15	1.45		20	
LOCK	27	2210	2235	2215	S26	E45		8110			1-		C	2215	.50	.50		10	
HALE	27	2212E	2219D		S28	E45		8110			1-	1	P	2215	.20	.30			
LOCK	27	2254	2322	2306	N11	W40		8105			1-		C	2306	.70	.70		10	
SACP	27	2332	2346	2338	N23	E54		8107			1-		C		.42	.61		18	
SACP	27	2347	2355D	2351	N11	W40		8105			1-		P		.87	.99		18	
HALE	27	2349E	2352D		N09	W40		8105			1-	1	P	2349	.30	.30			
MANI	28	0002E	0020	0005	N10	W41		8105			1-	2		0005	1.60	1.80			
HALE	28	0016E	0028D		N09	W42		8105			1-	2	P	0028	.40	.50			
MANI	28	0031E	0051	0036	N10	W42		8105			1-	2		0036	.80	.90			
ARCE	28	0845E	0900D		N08	W48		8105			1-	3		0847	.52	.81			
KAND	28	0851			S27	E42		8110			1-								
ARCE	28	0910E	0940D		N11	W46		8105			1-	3		0932	.88	1.35			
ARCE	28	0925E	0940D		S27	E40		8110			1-	3		0927	.98	1.44			
KANZ	28	1020E	1103D		S28	E39		8110	43D		1-								
KANZ	28	1028E	1050		N09	W43		8105	35D		1-							H	
KANZ	28	1028E	1103D		N10	W48		8105			1-							D	
KANZ	28	1052E	1058D		N22	E50		8107			1-							D	
MEUD	28	1158	1206	1201	N10	W45		8105			1-			1201	.70	1.10		D	
KANZ	28	1315E	1322D		N10	W49		8105			1-							D	
KANZ	28	1336	1344		N12	W45		8105			1-							D	
KANZ	28	1358E	1406D		N09	W48		8105			1-							D	
SACP	28	1609	1620	1613U	N11	W46		8105	8D		1-		C		.33	.40		17	
HALE	28	2029	2034	2031	N08	W50		8105			1-	2	C	2031	.40	.50			
HALE	28	2158	2221D	2205	S28	E32		8110			1-	2	P	2205	.20	.20			
SACP	28	2321	2350	2340U	S29	E34		8110			1-		C		.25	.29		17	
HALE	28	2326	2356	2332	S28	E32		8110			1-	2	C	2332	.20	.20			
MANI	29	0641E	0654D	0643	S29	E31		8110			1-	2		0643	1.00	1.10			

SOLAR FLARES

DECEMBER 1965

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IN- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
					LAT.	MER. DIST.												
	1965																	
	DEC																	
CATA	29	0834E	1020D	0838	N10	W59		8105		1-		0838	.54	.90		162	EH	
MEUD	29	1124	1235	1150	N11	W60		8105	71	1+		1150	2.40	5.10				
CATA	29	1126E	1230D	1210	N09	W58		8105	64D	1+		1210	1.80	3.40		229		
ONDR	29	1128E	1334D		N12	W60		8105	126D	2	3	1148				2.60	H	
NERA	29	1130E	1240D		N11	W60		8105	70D	2	2							
ARCE	29	1232E	1306D		N10	W61		8105	34D	1	2	1252	1.64	3.16				
ARCE	29	1232E	1306D		N08	W58		8105		1-	2	1252	.65	1.18				
ARCE	29	1254E			N08	W58		8105		1-	2	1254	.50	.91				
MEUD	29	1205	1226	1210	S29	E25		8110	21	1		1210	1.80	2.30				
CATA	29	1208E	1230D	1210	S29	E28		8110	22D	1+		1210	1.05	1.30		302	D	
ARCE	29	1232E	1306D		S28	E27		8110		1-	2	1232	.95	1.19				
ARCE	29	1410E	1459D		S27	E27		8110		1-	2	1440	.72	.89				
ARCE	29	1440E	1445D		N08	W69		8105	5D	1	2	1440	1.01	2.30				
SACP	29	1633E	1740	1642	S29	E24		8110	67D	1			2.31	2.48		20		
SACP	29	1737	1843	1746	N09	E12		8105		1-			.24	.24		17		
SACP	29	1905	1934	1926	N09	E11		8105		1-			.33	.32		15		
SACP	29	1932	2030	2019	S29	E23		8110		1-			1.57	1.67		18		
SACP	29	2132U	2144	2138	N09	W74		8105	12U	1			2.25	4.85		19		
SACP	29	2154	2226	2211	N10	W72		8105		1-			.66	1.34		17		
MANI	30	0029E	0123	0035	N09	W68		8105		1-	2	0035	1.10	1.90				
ARCE	30	0908E	0935D		N10	W80		8105	27D	1	2	0915	1.18	3.78				
ARCE	30	0955E	1042D		N10	W80		8105	47D	1	2	0955	.85	2.72				
ARCE	30	1012E			N10	W80		8105		1	2	1012	.96	3.07				
LOCK	30	2211	2215	2212	N05	W80		8105		1-		2212	.10	.30		10	H	
ARCE	31	0805E	0850D		N11	W85		8105	45D	1	2	0843	.82	3.35				
ARCE	31	0805E	0912D		N10	W90		8105	67D	1	2	0810	.49	2.78				
ARCE	31	0805E	0936D		N08	W90		8105	81D	1	2	0810	.65	3.69				
CATA	31	0825E	1200D	0845	N09	W90		8105	215D	2		0845	.94	5.30		138	F	
ARCE	31	0925E	0936D		N11	W88		8105	11D	1	2	0930	.52	2.55			A	
KANZ	31	0930E	1012		N11	W90		8105	42D	1								
ARCE	31	0940E	0945D		N12	W86		8105	5D	1	2	0940	.49	2.12			A	
ARCE	31	0953E	1026D		N11	W88		8105	33D	1	2	0957	.43	2.11				
KANZ	31	1016	1024D		N11	W90		8105	8D	1							A	
ARCE	31	1119E	1128D		N12	W86		8105	9D	1	2	1121	.52	2.25				
ARCE	31	1130E			N11	W90		8105		1-	2	1130	.26	1.48				
LOCK	31	1755E	1807	1755E	N10	W85		8105		1-		1755	.40	1.20		10		
LOCK	31	1850E	1928D	1900	N10	W90		8105	38D	1		1900	.80	4.00		20		
LOCK	31	2027	2040D	2040U	N10	W90		8105	13D	1		2040	.40	2.00		10		