SOLAR FLARES
Confirmed
NOVEMBER 1968

OBSERVATORY	OBSERVED UT DATE 1968 NOV	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP18877	01	0544	0555	0547	S18	W46	.773	9740	28.8	11	-N				.82				2 2 2 2
CRON	01	0544	0554	0547	S19	W45	.767	9740	28.9	10	-N		C		.80	1.30			
MANI	01	0549E	0555D		S16	W46	.764	9740	28.8	6D	-N	2		0550	.83	1.26			
878 MANI	01	0647E	0701	0650	S16	E22	.497	9749	2.9	14D	--F	2		0650	.36	.36			2
GRP18879	01	0758	0828	0805	N03	E04	.074	9747	1.6	30	-N				2.34				5 5 5 6
CATA	01	0755	0835	0810	N04	E02	.035	9747	1.5	40	-B			0810	1.73	1.74		214	Z
CATA	01	0755	0905	0810	N03	E08	.141	9747	1.9	70	-N			0810	.75	.76		186	
BUCA	01	0757	0831	0803	N04	E02	.035	9747	1.5	34	1N		C	0803	3.87	3.80			
CAPF	01	0758	0834		N04	E02	.035	9747	1.5	36	-N		C	0803	1.65	1.68			
CRON	01	0800	0825	0803	N03	E06	.107	9747	1.8	25	-F		C		1.90	1.90			E
CANR	01	0800	0814	0802	N03	E06	.107	9747	1.8	14	-N		C		1.80	1.80			E
11 STATIONS REPORTING GROUP 18880. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP18880	01	0830	0943	0844	S15	W47	.771	9740	28.8	73	1N				4.94				6 6 5 10
CAPF	01	0804	1048	0845	S14	W49	.788	9740	28.7	164	3N		C	0848	8.25	12.80			
BUCA	01	0814	1016D		S16	W47	.775	9740	28.8	122D	2F		P	0850	7.75	12.00			
CAPS	01	0825E	0943D		S16	W45	.754	9740	29.0	78D	1B	3		0845	2.00	3.20		325	FHILW
ISTA	01	0830	0924		S13	W46	.753	9740	28.9	54	-B								
CRON	01	0835	0930	0842	S17	W49	.798	9740	28.7	55	1B		C		2.90	5.00			EK
ZURI	01	0840	0900		S15	W48	.781	9740	28.8	20	1N		P		3.78	6.00			
18880	01	0820	0931	0905	S18	W47	.782	9740	28.8	71	*1B				6.17				5 5 2 10
MONT	01	0814	1044	0911	S18	W46	.773	9740	28.9	150	2B		C	0911	5.67				EH
CANR	01	0816	0930	0900	S15	W45	.750	9740	29.0	74	2N								
CANR	01	0816	0930	0821	S15	W45	.750	9740	29.0	74	2N		C		7.20	10.80			EK
ISTA	01	0830	0933		S20	W48	.799	9740	28.8	63	-B								
CRON	01	0835	0930	0903	S17	W49	.798	9740	28.7	55	1B								
CATA	01	0845E	1045D	0905	S18	W48	.792	9740	28.8	120D	2B			0905	6.66	11.35		302	Z
18880	01	0829	0958	(0928)	S17	W47	.778	9740	28.8	89	*2F				10.75				2 2 2 10
ARCE	01	0829E	0955D		S15	W47	.771	9740	28.8	86D	2F		C	0928	5.00	7.80			
WEND	01	0926E	0958D		S19	W47	.786	9740	28.9	32D	3N		V		16.50				
GRP18884	01	1210	1225	1213	S12	W51	.802	9740	28.7	15	-N				1.40				5 5 4 7
ONDR	01	1209	1226	1210	S14	W52	.817	9740	28.6	17	1B		V	1210			3.20		CJR
CAPS	01	1210	1224D		S12	W49	.782	9740	28.8	14D	-B	3		1213	1.10	1.80		220	
MONT	01	1210	1224	1214	S12	W51	.802	9740	28.7	14	-F		C	1214	.77				
CATA	01	1210E	1220D	1215	S11	W52	.809	9740	28.6	10D	-B			1215	.63	1.09		257	
WEND	01	1214E	1224		S13	W52	.814	9740	28.6	10D	1N		V		3.09				
GRP18887	01	1506	1514	(1510)	S13	W56	.850	9740	28.4	8	--F				.57				2 2 2 5
HUAN	01	1456	1510D		S13	W52	.814	9740	28.7	14D	-F	1	P	1509	.25	.33			D
MCMA	01	1504	1514		S13	W56	.850	9740	28.4	10	-F		C	1510	.52	1.00			E
HUAN	01	1507	1510D		S14	W58	.869	9740	28.3	3D	-N	1	P	1509	.37	.54			D
GRP18888	01	1549	1554	1550	S15	E13	.395	9749	2.6	5	--N				.91				2 2 2 4
MCMA	01	1549E	1553		S14	E14	.392	9749	2.7	4D	-N		P	1550	.52	.60			EL
SACP	01	1549	1555	1550	S15	E11	.379	9749	2.5	6	-N		C		1.30	1.29			
889 MCMA	01	1656	1706	1700	S12	W61	.890	9740	28.1	10	-N		C	1700	.62	1.30			E 4
GRP18890	01	1757	1822	1807	S17	W56	.860	9740	28.5	25	--N				.45				3 3 3 4
SACP	01	1750	1826	1807	S19	W54	.849	9740	28.7	36	-N		C		.51	.72			
MCMA	01	1804	1817	1807	S14	W60	.885	9740	28.3	13	-N		C	1807	.52	1.10			E
HUAN	01	1808E	1808D		S18	W55	.854	9740	28.6		-N	1	P	1808	.31	.43			D
GRP18891	01	2002	2021	2010	S13	W57	.859	9740	28.6	19	1B				2.63				5 5 4 5
MCMA	01	2000	2023		S14	W60	.885	9740	28.3	23	1B		V						
HUAN	01	2001	2014D		S14	W57	.861	9740	28.6	13D	1B	1	P	2011	2.11	2.97			
HALE	01	2003E	2019D	2013	S13	W55	.842	9740	28.7	16D	2B	2	P	2013	3.30	6.10			
HOUT	01	2003	2020	2005	S14	W56	.853	9740	28.6	17	1B		C		2.30	4.30			E
BOUL	01	2003	2020	2011	S12	W56	.848	9740	28.6	17	1B		C		2.80	4.00			
GRP18892	01	2045	2057	2049	S16	W55	.849	9740	28.7	12	-N				1.35				4 4 3 4
HALE	01	2040	2103	2049	S15	W51	.810	9740	29.0	23	1N	2	C	2049	1.96	3.30			
HUAN	01	2045	2053D		S17	W52	.825	9740	29.0	8D	-N	1	P	2050	.88	1.16			E
MCMA	01	2046	2050		S14	W60	.885	9740	28.4	4	-N		V						
HOUT	01	2047	2100	2049	S18	W58	.878	9740	28.5	13	1N		C		1.20	2.30			E
893 HALE	01	2132E	2203		S14	W52	.817	9740	29.0	31D	1N	2	P	2132	1.44	2.50			2
GRP18896	01	2241	2301	2246	S13	W57	.859	9740	28.7	20	1B				1.81				3 3 3 4
SACP	01	2240	2301	2246	S15	W58	.871	9740	28.6	21	1B		C		1.51	2.26			
MANI	01	2242E	2301	2246	S13	W58	.867	9740	28.6	19D	1N	2		2246	1.24	2.26			
HALE	01	2242	2300	2245	S12	W56	.848	9740	28.7	18	1B	2	C	2245	2.68	5.10			

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GRP18897	02	0037	0054	0040	S14	W59	.877	9740	28.6	17	-N				.64				3 3 3 5
MITK	02	0037	0056	0038	S14	W60	.885	9740	28.5	19	-N		C	0038	.62	1.30			E
MANI	02	0037	0055	0045	S13	W57	.859	9740	28.8	18	-F	2		0045	.57	.99			
HALE	02	0037	0051	0038	S14	W59	.877	9740	28.6	14	-B	1	C	0038	.72	1.50			F
GRP18898	02	0102	0121	0111	S14	W59	.877	9740	28.6	19	-N				1.00				4 4 4 5
MITK	02	0058	0120	0110	S13	W60	.883	9740	28.5	22	-N		C	0110	.72	1.50			E
MANI	02	0101	0125	0111	S15	W57	.863	9740	28.8	24	1N	2		0111	1.34	2.40			
HALE	02	0102	0122	0112	S13	W60	.883	9740	28.5	20	1B	1	C	0112	1.03	2.20			F
CRON	02	0108	0115	0111	S13	W60	.883	9740	28.5	7	-N		C		.90	1.80			EI
GRP18900	02	0207	0222	0211	S20	W56	.867	9740	28.9	15	--N				.45				3 3 3 5
MITK	02	0203	0212D	0210	S20	W57	.875	9740	28.8	9D	-N	8	C	0210	.52	1.00			E
HALE	02	0210	0222	0212	S21	W57	.877	9740	28.8	12	-B	1	C	0212	.21	.40			
MANI	02	0213E	0215D		S20	W55	.859	9740	29.0	2D	-N	1		0213	.62	1.13			
901 HALE	02	0219	0233	0223	N04	W15	.258	9747	1.0	14	--N	1	C	0223	.72	.70			F 3
902 HALE	02	0253	0316		N28	W38	.684	9744	30.3	23	-N	2	P	0305	1.34	1.90			FG 3
GRP18903	02	0334	0354	0336	S18	W57	.870	9740	28.9	20	-N				1.23				2 2 2 3
CRON	02	0334	0341	0336	S21	W58	.885	9740	28.8	7	-N		C		.90	1.40			EI
MANI	02	0339E	0406		S15	W55	.846	9740	29.0	27D	1N	1		0339	1.55	2.78			
904 MANI	02	0504	0521	0508	S26	E32	.686	9755	4.6	17	--F	2		0508	.62	.86			2
GRP18905	02	0519	0545	0529	S15	W61	.894	9740	28.6	26	-N				.83				2 1 1 2
MANI	02	0519	0545	0529	S15	W61	.894	9740	28.6	26	-N	2		0529	.83	1.60			
CRON	02	0545	0556	0549	S14	W63	.907	9740	28.5	11	-N		C		.60	1.30			I
GRP18907	02	0601	0614	0603	S20	W58	.882	9740	28.9	13	2N				2.49				3 3 2 3
CRON	02	0557	0610	0600	S21	W58	.885	9740	28.9	13	1B		C		1.60	3.20			HIK
CRON	02	0557	0610	0607	S21	W58	.885	9740	28.9	13	1B								
ISTA	02	0600	0620		S20	W58	.882	9740	28.9	20	2N								
TACH	02	0605	0613D	0606	S20	W58	.882	9740	28.9	8D	2F		V	0606	3.37	7.60	3.90	75	EH
GRP18909	02	0926	0940	0935	S13	W64	.913	9740	28.6	14	--N				.34				2 2 2 5
ARCE	02	0926E	0936D		S16	W66	.929	9740	28.4	10D	-F		C	0927	.34	.80			
CATA	02	0935E	0940D	0935	S09	W62	.893	9740	28.7	5D	-B			0935	.34	.79		246	
8 STATIONS REPORTING GROUP 18910. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP18910	02	0949	1048	1012	S14	W66	.927	9740	28.5	59	2B				4.15				4 4 4 6
CAPE	02	0940	1115	1016	S13	W67	.932	9740	28.4	95	2B		C	1016	3.86	11.30			FH
CANR	02	0957	1025	1007	S18	W65	.926	9740	28.5	28	2B		C		4.60	10.10			EK
CATA	02	1000E	1045D	1013	S13	W67	.932	9740	28.4	45D	2B			1013	5.51			339	FZ
ARCE	02	1010E	1019D		S10	W64	.909	9740	28.6	9D	2F		P	1012	2.63	6.20			B
18910	02	0953	1108	0957	S15	W65	.922	9740	28.5	75	*2B				3.02				3 3 3 6
KODA	02	0953E	1014D	0955	S15	W65	.922	9740	28.5	21D	2B		P	1013	3.87	10.30	3.80		BI
CRON	02	0958E	1005D	0959U	S15	W66	.928	9740	28.5	7D	1B		C		1.70	4.00			BE
CAPS	02	1002E	1108D		S15	W63	.909	9740	28.7	66D	2B	1		1004	3.50			369	
18910	02	1025	1059	1026	S15	W66	.928	9740	28.5	34	*1N				2.30				2 2 2 6
CATA	02	1025	1045D	1025	S15	W63	.909	9740	28.7	20D	-B			1025	.46	1.10		226	
MONT	02	1026E	1059D	1026	S14	W69	.944	9740	28.3	33D	2F		C	1026	4.13				
GRP18918	02	1515	1531	1520	S12	W66	.925	9740	28.7	16	-N				.86				4 3 3 5
SACP	02	1513	1539	1520	S13	W66	.926	9740	28.7	26	-N		C		.90	1.58			
CAPE	02	1514	1530	1519	S11	W67	.930	9740	28.6	16	-N		C	1519	.97	2.80			V
HOUT	02	1518	1525	1521	S13	W66	.926	9740	28.7	7	-F		C		.70	1.50			
MCMA	02	1520E	1540D	1533	S15	W70	.951	9740	28.4	20D	1N		C	1533	1.03	3.00			E
6 STATIONS REPORTING GROUP 18920. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP18920	02	1640	1743	1704	N20	E26	.497	9751	4.6	63	1N				4.74				5 4 3 7
SACP	02	1631	1825	1710	N22	E25	.500	9751	4.6	114	1N	8	C		3.09	3.21			
HALE	02	1637E	1733D	1659	N21	E24	.480	9751	4.5	56D	2B	2	P	1659	7.94	9.00			FGLV
CANR	02	1640	1730	1700	N19	E27	.503	9751	4.7	50	1N	8							
HOUT	02	1650	1805	1707	N19	E27	.503	9751	4.7	75	2F	8	C		3.20	6.00			L
HUAN	02	1753E	1757D		N22	E24	.488	9751	4.5	4D	-F	1	P	1755	1.50	1.55			EI
18920	02	1645	1730	1653	N19	E27	.503	9751	4.7	45	*1N				4.60				2 2 2 6
CANR	02	1640	1730	1649	N19	E27	.503	9751	4.7	50	1N	8	C		4.20	4.80			EKL
BOUL	02	1650	1730	1656	N19	E26	.490	9751	4.7	40	2N	8	C		5.00	6.00			EL
GRP18921	02	1659	1703	1700	S14	W69	.944	9740	28.5	4	--B				.31				2 2 2 6
SACP	02	1659	1702	1700	S14	W67	.933	9740	28.7	3	-N		C		.30	.55			
MCMA	02	1659	1704D		S14	W70	.950	9740	28.5	5D	-B		C	1700	.31	1.00			D

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GRP18923	02	1911	1924	1913	S14	W69	.944	9740	28.6	13	--F				.36				2 2 2 4
SACP	02	1911	1920	1913	S14	W68	.939	9740	28.7	9	-F		C		.50	.94			
MCMA	02	1915E	1928		S14	W70	.950	9740	28.6	13D	-N		C	1915	.21	.60			D
GRP18924	02	1928	1943	1933	S18	W71	.958	9740	28.5	15	--N				.36				3 2 2 4
SACP	02	1928	1941	1929	S19	W68	.944	9740	28.7	13	-N		C		.30	.57			
MCMA	02	1928	1944D	1937	S17	W74	.971	9740	28.3	16D	-N		C	1937	.41	1.20			
HOUT	02	1941	2001	1945	S16	W66	.929	9740	28.9	20	-F		C		.60	1.40			
GRP18925	02	2022	2036	2026	S16	W05	.357	9749	2.5	14	--F				.91				5 5 4 5
SACP	02	2020	2037	2025	S14	W06	.330	9749	2.4	17	-F		C		.50	.50			
BOUL	02	2022	2027	2024	S16	W06	.361	9749	2.4	5	-F		C		1.60	1.80			E
HALE	02	2022E	2039		S14	W07	.335	9749	2.3	17D	-N	1	P	2023	.52	.50			F
HOUT	02	2023	2049	2028	S21	W08	.446	9749	2.2	26	-F		C		1.00	1.10			
MCMA	02	2023	2030		S15	E01	.331	9749	2.9	7	-N		V						
HALE	02	2034	2056	2037	S14	W06	.330	9749	2.4	22	-N	1	C	2037	.52	.50			F
927 SACP	02	2346	2354	2349	S14	W79	.986	9740	28.1	8	--N		C		.21				2
GRP18930	03	0257	0315	0301	S19	W76	.979	9740	28.4	18	-N				.72				4 4 4 4
MITK	03	0257	0305	0259	S19	W79	.988	9740	28.2	8	-F		C	0259	.52				D
HALE	03	0257	0321	0259	S18	W74	.971	9740	28.6	24	1B	2	P	0259	.72				FK
MANI	03	0257	0318	0302	S17	W75	.974	9740	28.5	21	-N	2		0302	.72	1.71			
VORO	03	0301E	0317	0302	S22	W76	.981	9740	28.4	16D	1N		C	0302	.91	3.70		66	D
933 CANR	03	1216	1227	1218	N07	E50	.764	9754	7.3	11	1N		C		1.50	2.40			4
GRP18934	03	1233	1259	1237	S19	W83	.996	9740	28.3	26	1B				1.72				2 2 2 3
CANR	03	1233	1252	1237	S19	W85	.998	9740	28.1	19	2B		C		2.40	7.90			EH
HUAN	03	1243E	1305		S18	W80	.990	9740	28.5	22D	1N	1	P	1244	1.03				T
GRP18937	03	1440	1449	1442	N28	W58	.865	9744	30.3	9	-F				1.56				4 4 4 4
WEND	03	1438E	1450D		N25	W60	.876	9744	30.1	12D	1F		V		4.13				
SACP	03	1439	1452	1442	N29	W58	.867	9744	30.3	13	-N		C		.80	1.20			
CANR	03	1440	1447	1442	N29	W58	.867	9744	30.3	7	-N		C		1.00	2.00			
HUAN	03	1441	1447		N30	W57	.862	9744	30.3	6	-F	2	C	1443	.31	.46			
GRP18939	03	1614	1631	1617	S17	W09	.391	9749	3.0	17	-B				2.40				4 4 3 4
HUAN	03	1612	1638D		S17	W08	.385	9749	3.1	26D	-B	1	P	1616	1.50	1.50			
SACP	03	1613	1641	1617	S17	W09	.391	9749	3.0	28	1B		C		3.29	3.29			
CANR	03	1614	1623	1617	S18	W08	.400	9749	3.1	9	1B		C		2.40	2.60			
MCMA	03	1616	1623		S15	W11	.376	9749	2.9	7	-B		V						
GRP18940	03	1631	1640	1635	S17	W08	.385	9749	3.1	9	-N				1.30				3 3 3 6
CANR	03	1630	1637	1634	S18	W08	.400	9749	3.1	7	-N		C		1.30	1.40			
BOUL	03	1632	1641	1634	S17	W08	.385	9749	3.1	9	-N		C		1.40	1.50			
HALE	03	1632E	1642	1636	S16	W07	.364	9749	3.2	10D	-B	3	P	1636	1.19	1.30			F
GRP18942	03	1709	1727	1715	S20	W82	.994	9740	28.6	18	-B				.70				2 2 1 4
SACP	03	1709	1724	1715	S20	W81	.993	9740	28.6	15	-B		C		.70				
HUAN	03	1709	1730		S19	W83	.996	9740	28.5	21	-B	1	C						
943 SACP	03	1932	1950	1935	S20	W82	.994	9740	28.7	18	-N		C		.60				3
GRP18944	03	2002	2020	2007	S14	W19	.442	9749	2.4	18	--F				.56				2 2 2 4
SACP	03	2002	2019	2007	S14	W20	.453	9749	2.3	17	-F		C		.50	.51			
HUAN	03	2011E	2020D		S13	W18	.420	9749	2.5	9D	-F	1	P	2012	.62	.62			E
GRP18945	03	2015	2022	2017	S20	W83	.996	9740	28.6	7	-N				.45				2 2 2 4
SACP	03	2014	2022	2017	S20	W81	.993	9740	28.8	8	-N		C		.40				
HUAN	03	2015	2020D		S19	W85	.998	9740	28.5	5D	-N	1	P	2018	.50				E
GRP18946	03	2022	2038	2027	S25	E66	.942	9759	8.8	16	--F				.43				2 2 2 4
SACP	03	2021	2036	2026	S24	E66	.940	9759	8.8	15	-F		C		.40	.76			
HALE	03	2022	2040	2028	S25	E66	.942	9759	8.8	18	-F	1	C	2028	.46				F
GRP18947	03	2030	2047	2033	N07	E44	.693	9754	7.2	17	-N				.39				3 3 3 4
HALE	03	2030	2051	2033	N05	E45	.705	9754	7.2	21	-N	1	C	2033	.41	.60			F
SACP	03	2030	2047	2033	N08	E44	.693	9754	7.2	17	-N		C		.40	.47			
HUAN	03	2031	2044		N07	E44	.693	9754	7.2	13	-F	1	C	2040	.35	.41			E
GRP18948	03	2034	2054	2041	S19	W83	.996	9740	28.6	20	1B				2.00				2 2 2 4
HUAN	03	2034	2053		S19	W85	.998	9740	28.5	19	1N	1	C	2041	1.39				
SACP	03	2034	2055	2041	S19	W81	.992	9740	28.8	21	1B		C		2.60				
GRP18950	03	2139	2146	2143	S15	W86	.999	9740	28.5	7	-N				.44				2 2 2 3
SACP	03	2138	2147	2143	S15	W85	.998	9740	28.5	9	-N		C		.51				
HUAN	03	2139	2145		S14	W87	.999	9740	28.4	6	-N	1	C	2142	.37				

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951 SACP	03	2217	2225	2220	N29	W63	.902	9744	30.2	8	--F		C		.40	.65			3
GRP18952	03	2339	2355	2341	N30	W64	.910	9744	30.2	16	--N				.51				2 2 2 2
SACP	03	2338	2355D	2341	N29	W65	.915	9744	30.1	17D	-B		C		.71	1.22			
HALE	03	2339	2355	2341	N30	W62	.897	9744	30.3	16	-F	1	C	2341	.31	.70			
	03	2400	0008	NO FLARE PATROL															
953 HALE	04	0008E	0030	0008	N08	E42	.668	9754	7.2	22D	--N	2	P	0008	.52	.70			F 1
GRP18954	04	0202	0334	0207	S15	W90	1.000	9740	28.3	92	1B				.78				2 2 2 2
HALE	04	0202	0334D		S13	W89	1.000	9740	28.4	92D	1B	2	P	0206	.62				H
MITK	04	0204E	0209	0207	S13	W90	1.000	9740	28.3	5D	1N		C	0207	.93				A
HALE	04	0237	0334D	0239	S19	W89	1.000	9740	28.4	57D	1B	2	P	0239	.62				H
956 MITK	04	0433	0450	0439	N07	E40	.642	9754	7.2	17	-N		C	0439	.83	1.10			E 2
GRP18957	04	0520	0614	0542	S15	W90	1.000	9740	28.5	54	1B				1.32				3 2 2 3
MITK	04	0515	0621D		S15	W90	1.000	9740	28.5	66D	2B		C	0534	1.44				A
CRON	04	0524	0606	0529	S14	W90	1.000	9740	28.5	42	1B		C		1.20	4.80			Y
TACH	04	0550E	0757D	0555	S15	W85	.998	9740	28.9	127D	2N		C	0555				129	EY
GRP18961	04	0933	0938	0935	S18	W90	1.000	9740	28.6	5	-N				.55				5 5 4 6
MONT	04	0932	0937	0935	S19	W90	1.000	9740	28.6	5	-F		C						H
CRON	04	0933	0936	0934	S18	W90	1.000	9740	28.6	3	-N		C		.30	1.20			
CANR	04	0933	0938	0935	S19	W90	1.000	9740	28.6	5	-B		C		.40	1.60			H
ARCE	04	0934	0940D	0935	S17	W90	1.000	9740	28.6	6D	1F		C	0935	.40	2.30			
ABST	04	0936E	0940D	0938	S17	W90	1.000	9740	28.6	4D	1N		P	0938	1.08				DH
962 CATA	04	1055E	1105D	1100	S17	W26	.548	9749	2.5	10D	-B			1100	.87	1.04		219	3
GRP18964	04	1241	1248	(1242)	S15	W28	.554	9749	2.4	7	--N				.49				2 2 2 4
CATA	04	1240E	1245D	1240	S14	W28	.547	9749	2.4	5D	-N			1240	.58	.70		195	
CAPS	04	1242	1248		S15	W27	.543	9749	2.5	6	-N	1		1243	.40	.50			
GRP18969	04	2019	2030	2021	S14	W33	.607	9749	2.4	11	--F				.54				2 2 2 6
HUAN	04	2019	2027	2021	S13	W33	.601	9749	2.4	8	-N	2	C	2021	.45	.49			E
HALE	04	2019	2032	2020	S14	W32	.595	9749	2.4	13	-F	1	C	2020	.62	.80			F
GRP18970	04	2032	2053	2039	N05	E30	.499	9754	7.1	21	--N				.44				3 3 3 5
HALE	04	2023	2115	2040	N02	E30	.500	9754	7.1	52	-N	1	C	2040	.52	.60			FH
SACP	04	2036	2042	2038	N07	E31	.515	9754	7.2	6	-N		C		.30	.31			
HUAN	04	2037	2043	2038	N07	E30	.500	9754	7.1	6	-N	2	C	2038	.50	.51			E
971 HUAN	04	2104	2112		S17	W90	1.000	9740	29.1	8	-N	1	C	2106	.33				4
972 HUAN	04	2124E	2140D		N18	E90	1.000	9760	11.6	16D	-N	1	C	2130	.57				C 3
973 HALE	04	2349	2355	2351	S16	W39	.688	9749	2.1	6	--F	1	C	2351	.31	.40			3
GRP18976	05	0906	0948	0914	N16	E79	.979	9760	11.3	42	-N				.66				3 3 3 6
CATA	05	0900	0930	0910	N14	E79	.979	9760	11.3	30	-N			0910	.34			158	
CAPE	05	0906	0940	0915	N17	E80	.983	9760	11.4	34	-N		C	0915	.93				
ABST	05	0911	1014	0918	N16	E79	.979	9760	11.3	63	1N		P	0918	.72			55	DKH
GRP18977	05	1008	1020	(1008)	N15	E81	.986	9760	11.5	12	-N				.72				3 3 2 6
ISTA	05	0925	1005		N13	E85	.995	9760	11.8	40	-F								
CATA	05	0945	1025	1005	N14	E79	.979	9760	11.3	40	-B			1005	.46			240	
CAPE	05	1008	1030		N17	E80	.983	9760	11.4	22	-N		P	1011	.97				
GRP18978	05	1341	1353	1344	S16	W38	.676	9749	2.7	12	-B				1.04				3 3 3 3
SACP	05	1338	1355	1343	S17	W39	.693	9749	2.6	17	-B		C		1.04	1.21			
CAPE	05	1342	1355	1343	S15	W40	.694	9749	2.6	13	-N		C	1343	1.16	1.60			V
HTPR	05	1342	1348	1345	S15	W35	.636	9749	2.9	6	-B		C	1345	.93	1.30			
GRP18981	05	1528	1544	1532	S12	W10	.323	9753	4.9	16	--N				.74				3 3 2 3
SACP	05	1526	1552	1532	S13	W11	.345	9753	4.8	26	-N		C		.60	.59			
MCMA	05	1526	1533		S12	W09	.314	9753	5.0	7	-N		V						
HUAN	05	1531	1547		S12	W11	.332	9753	4.8	16	-N	1	C	1533	.88	.87			E
GRP18982	05	1750	1813	1753	S13	W11	.345	9753	4.9	23	-N				1.10				2 1 1 2
SACP	05	1750	1805	1753	S13	W13	.364	9753	4.8	15	-N		C		1.10	1.10			
MCMA	05	1804	1821		S12	W09	.314	9753	5.1	17	-N		V						
GRP18983	05	2023	2031	2024	S16	W40	.699	9749	2.8	8	--F				.61				3 3 2 3
HALE	05	2020	2030	2022	S15	W42	.716	9749	2.7	10	-F	1	C	2022	.62	.90			
SACP	05	2024	2032	2026	S16	W42	.721	9749	2.7	8	-N		C		.60	.72			
MCMA	05	2026	2026D		S18	W37	.677	9749	3.1		-F		V						

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984 HALE	05	2153	2202	2155	S14	E24	.498	9757	7.7	9	--F	1	C	2155	.31	.40			G 2
988 HALE	06	0249	0257	0251	S15	W47	.769	9749	2.6	8	--N	2	C	0251	.36	.60			3
989 CRON	06	0334	0340	0336	N19	E85	.995	9760	12.5	6	-N		C		.30	1.00			3
GRP18990	06	0813	0825	0815	N19	E77	.972	9760	12.1	12	-N				.71				6 6 4 8
HTPR	06	0812	0818D	0814	N20	E80	.983	9760	12.3	6D	-N		C	0814	.83				
CRON	06	0813	0820	0815	N20	E77	.972	9760	12.1	7	-N		C		.50	1.30			H
CAPS	06	0813	0823D		N20	E74	.960	9760	11.9	10D	-N	1							
ISTA	06	0813	0829		N17	E74	.959	9760	11.9	16	-N								
CANR	06	0814	0822	0815	N19	E78	.976	9760	12.2	8	-N		C		.50	1.40			H
CAPE	06	0814	0830	0816	N20	E77	.972	9760	12.1	16	-N		C	0816	1.02				V
GRP18991	06	0919	0929	0924	S16	W52	.820	9749	2.5	10	-N				.88				5 5 5 7
HTPR	06	0917	0926	0922	S15	W53	.827	9749	2.4	9	-N		C	0922	1.03	1.70			
CAPE	06	0918	0930	0924	S15	W52	.818	9749	2.5	12	-F		C	0924	.88	1.60			H
CRON	06	0920	0925	0922	S17	W51	.814	9749	2.6	5	-N		C		.60	1.00			EH
CAPS	06	0920	0931D		S15	W50	.799	9749	2.6	11D	-N	2		0925	1.00	1.70		176	H
ABST	06	0921E	0934D	0926	S16	W52	.820	9749	2.5	13D	-N		P	0926	.90	1.37		62	E
GRP18992	06	1110	1115	1111	N20	E79	.979	9760	12.4	5	-N				.36				2 2 2 5
CANR	06	1110	1115	1111	N19	E78	.976	9760	12.3	5	-N		C		.50	1.40			H
HTPR	06	1113E	1115		N20	E80	.983	9760	12.5	2D	-N		C	1113	.21				
GRP18993	06	1224	1238	1228	N21	E75	.964	9760	12.1	14	-F				1.05				2 2 2 3
CAPE	06	1221	1242	1228	N20	E74	.960	9760	12.1	21	1N		C	1228	1.33				V
MONT	06	1226	1233	1228	N21	E75	.964	9760	12.1	7	-F		C	1228	.77				
994 CAPS	06	1449E	1500D		S13	E13	.362	9757	7.6	11D	--F	3		1454	1.00	1.10		152	C 2
GRP18995	06	1648	1701	1652	S15	W55	.845	9749	2.6	13	--N				.41				2 2 2 2
HALE	06	1647	1702	1653	S15	W54	.836	9749	2.6	15	-N	3	C	1653	.41	.80			
SACP	06	1648	1700	1651	S15	W55	.845	9749	2.6	12	-N		C		.40	.57			
996 SACP	06	1743	1751	1744	S13	W24	.488	9753	4.9	8	--F		C		.50	.52			1
997 SACP	06	1753	1800	1755	N20	E64	.901	9760	11.5	7	--F		C		.30	.48			1
998 SACP	06	1814	1823	1818	N21	E68	.928	9760	11.9	9	-N		C		.70	1.27			1
999 SACP	06	2204	2213	2206	S14	W26	.521	9753	5.0	9	--F		C		.60	.63			2
000 SACP	06	2221	2223	2222	N21	E66	.915	9760	11.9	2	--F		C		.30	.51			2
GRP19001	06	2256	2337	2308	N16	W28	.501	9751	4.9	41	--F				.51				2 2 2 4
SACP	06	2254	2340D	2308	N15	W27	.482	9751	4.9	46D	-F		C		.40	.41			
MITK	06	2258	2333	2308	N16	W28	.501	9751	4.9	35	-N		C	2308	.62	.70			DG
010 MITK	07	0452	0457	0455	S16	W63	.909	9749	2.5	5	-B		C	0455	.62	1.40			D 3
GRP19017	07	1716	1722	1718	S16	W67	.934	9749	2.7	6	--B				.26				2 2 2 4
HALE	07	1716	1723	1717	S15	W68	.939	9749	2.6	7	-B	2	C	1717	.31				
SACP	07	1716	1721	1718	S16	W66	.928	9749	2.8	5	-N		C		.20	.36			
018 HALE	07	1832	1848	1837	N18	W35	.603	9751	5.1	16	--F	1	C	1837	1.03	1.30			G 1
019 HALE	07	2005	2018	2007	N07	W79	.980	9747	1.9	13	1F	1	C	2007	1.44				GJL 1
020 HALE	07	2017	2032	2019	N10	W76	.968	9747	2.1	15	-F	1	C	2019	.41				GJL 1
021 HALE	07	2220	2309	2227	S25	E18	.554	9759	9.3	49	1N	1	C	2227	2.06	2.50			2
GRP19028	08	1252	1302	1255	N19	E42	.692	9760	11.7	10	--F				.82				3 3 3 5
CAPE	08	1248	1301	1255	N20	E44	.718	9760	11.8	13	-F		C	1255	.80	1.10			
CAPS	08	1254E	1305D		N18	E40	.665	9760	11.5	11D	-F	1		1257	1.20	1.60			H
CATA	08	1255	1300	1255	N18	E43	.700	9760	11.8	5	-N			1255	.46	.66		186	Z
031 BOUL	08	1629	1637	1630	N18	E42	.689	9760	11.8	8	--F		C		1.40	1.80			E 3
GRP19032	08	1734	1828	(1745)	S17	W77	.981	9749	3.0	54	1N				.77				2 1 1 3
HALE	08	1734E	1828D		S17	W77	.981	9749	3.0	54D	1N	2	P	1745	.77				
HUAN	08	1827E	1833		S17	W80	.989	9749	2.8	6D	-F	1	C	1828	.31				
033 HALE	08	1757	1810	1800	S14	W13	.372	9757	7.8	13	--N	2	C	1800	.31	.30			3
034 HALE	08	1818	1827	1821	N21	E38	.653	9760	11.6	9	--N	2	C	1821	.36	.50			FT 2
035 HUAN	08	1846	1857		S17	W80	.989	9749	2.8	11	--F	1	C	1848	.33				E 2

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036 HUAN	08	1910	1918		S17	W83	.995	9749	2.6	8	--F	1	C	1913	.31				D 2
037 HALE	08	2055	2115	2105	N21	E38	.653	9760	11.7	20	-N	2	C	2105	1.24	1.60			TJ 1
038 HALE	08	2113	2237	2133	N20	E36	.625	9760	11.6	84	--N	2	C	2133	.52	.70			FJT 1
039 HALE	08	2328	2336	2332	N22	E35	.623	9760	11.6	8	--F	1	C	2332	.31	.40			HT 3
048 HUAN	09	1215	1259		N13	W66	.912	9751	4.6	44	--N	1	C	1234	.50	.80			3
GRP19054	09	1437	1504	1446	N14	W67	.919	9751	4.6	27	-N				.55				5 5 5 5
SANM	09	1436	1508	1445	N14	W67	.919	9751	4.6	32	-F		C	1445	.48	1.24			D
CAPE	09	1436	1457D	1446	N13	W67	.919	9751	4.6	21D	-N		P	1446	.97	2.50			
SACP	09	1438	1459	1446	N12	W66	.912	9751	4.7	21	-N		C		.51	.84			
CAPS	09	1446E	1457D		N16	W66	.913	9751	4.7	11D	-N	3		1447	.50			170	C
HUAN	09	1451E	1453D		N13	W67	.919	9751	4.6	2D	-N	1	P	1452	.31	.50			D
057 SACP	09	1619	1628	1621	N21	E27	.523	9760	11.7	9	--N		C		.40	.42			2
058 HUAN	09	1652	1658		N13	W67	.919	9751	4.7	6	--F	1	C	1655	.25	.40			D 3
GRP19059	09	1702	1716	1707	N19	E27	.509	9760	11.7	14	--N				.35				3 3 3 3
HALE	09	1655	1712	1707	N21	E26	.511	9760	11.7	17	-F	2	C	1707	.31	.40			
HALE	09	1700	1709	1701	N17	E29	.522	9760	11.9	9	-F	2	C	1701	.26	.30			
HUAN	09	1701	1705		N17	E29	.522	9760	11.9	4	-F	1	C	1702	.25	.26			D
SACP	09	1705	1710	1707	N21	E27	.523	9760	11.7	5	-N		C		.30	.31			
HUAN	09	1705	1726		N18	E25	.476	9760	11.6	21	-N			1713	.45	.47			
HUAN	09	1705	1726		N20	E27	.516	9760	11.7	21	-N	1	C	1707	.31	.32			E
GRP19060	09	1805	1822	1811	N16	E21	.408	9760	11.3	17	1F				1.57				3 3 3 3
HALE	09	1804	1833	1811	N17	E21	.416	9760	11.3	29	1N	2	C	1811	1.96	2.20			EF
SACP	09	1805	1816	1810	N15	E21	.401	9760	11.3	11	-F		C		.69	.70			
HUAN	09	1805	1818D		N15	E22	.415	9760	11.4	13D	1F	1	C	1809	2.06	2.06			E
GRP19061	09	1833	1839	1835	N21	E27	.523	9760	11.8	6	--F				.33				2 2 2 2
SACP	09	1833	1838	1834	N21	E27	.523	9760	11.8	5	-F		C		.30	.31			
HALE	09	1833	1839	1836	N21	E26	.511	9760	11.7	6	-F	2	C	1836	.36	.40			
062 SACP	09	1837	1846	1840	N17	W62	.885	9751	5.1	9	--N		C		.20	.31			2
063 HALE	09	1856	1916	1900	S23	W28	.617	9767	7.7	20	--F	1	C	1900	.21	.30			D 3
064 HALE	09	2003	2026	2017	S10	E71	.951	9764	15.2	23	--F	1	C	2017	.21				D 2
GRP19065	09	2022	2109	2034	N13	W70	.938	9751	4.6	47	-B				.60				2 2 2 3
HALE	09	2022	2109	2034	N12	W69	.932	9751	4.7	47	-N	1	C	2034	.62				
HUAN	09	2033E	2056D		N13	W70	.938	9751	4.6	23D	-B	1	P	2035	.57				
066 SACP	09	2028	2033	2030	N21	E26	.511	9760	11.8	5	--F		C		.40	.41			3
068 HALE	09	2047	2252	2147	N05	W32	.529	9754	7.5	125	--F	1	C	2147	1.13	1.30			F 2
GRP19069	09	2230	2359	2317	N17	E18	.378	9760	11.3	89	--F				.72				2 1 1 4
HALE	09	2230	2359D	2317	N17	E18	.378	9760	11.3	89D	-F	1	P	2317	.72	.80			F
MITK	09	2356	0016	0004	N17	E22	.429	9760	11.6	20	-F		C	0004	1.44	1.60			E
GRP19070	10	0009	0100	0045	S12	W80	.988	9753	4.0	51	-B				.46				2 2 2 4
MITK	10	0009	0056D	0044	S12	W78	.982	9753	4.2	47D	-B		C	0044	.62				DH
CRON	10	0039	0100	0045	S12	W82	.992	9753	3.9	21	-N		C		.30	1.00			
071 HALE	10	0028	0041	0031	N21	E23	.476	9760	11.7	13	--F	1	C	0031	.21	.20			3
073 CRON	10	0257	0315	0305	S13	W82	.993	9753	4.0	18	-N		C		.30	1.00			3
GRP19075	10	0409	0424	0413	N09	W37	.604	9754	7.4	15	--F				1.52				2 2 2 3
MANI	10	0409	0410D		N09	W38	.618	9754	7.3	1D	-F	1		0410	.93	1.18			
CRON	10	0409	0424	0413	N08	W35	.575	9754	7.5	15	1F		C		2.10	2.50			L
GRP19076	10	0517	0536	0521	N05	W37	.601	9754	7.4	19	-N				1.22				2 2 2 3
MITK	10	0516	0533	0521	N04	W37	.601	9754	7.4	17	-N		C	0521	1.44	1.80			E
CRON	10	0517	0539	0520	N05	W37	.601	9754	7.4	22	-N		C		1.00	1.30			EI
GRP19077	10	0553	0624	0600	N06	W38	.615	9754	7.4	31	1N				2.06				3 3 3 4
MITK	10	0552	0624	0558	N04	W37	.601	9754	7.5	32	1N		C	0558	2.48	3.10			E
TACH	10	0554	0612D	0556	N05	W37	.601	9754	7.5	18D	1N		C	0556	2.37	3.00		72	E
MANI	10	0554E	0617D	0605	N09	W39	.631	9754	7.3	23D	-F	1		0605	1.34	1.72			

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OBSERVATORY	OBSERVED UT DATE 1968 NOV	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP19080	10	0942	0959	0946	S12	W85	.997	9753	4.0	17	-N				.79				6 6 6 9
CAPE	10	0940	0956	0945	S11	W86	.998	9753	4.0	16	-N		C	0945	.93				
HTPR	10	0940E	1000		S11	W85	.997	9753	4.0	20D	-N		C	0946	.52				A
CANR	10	0941	0958	0945	S12	W85	.997	9753	4.0	17	1N		C		1.10	3.60			H
MONT	10	0941	0958	0946	S12	W83	.994	9753	4.2	17	-F		C	0946	.77				
CRON	10	0943	0953	0946	S13	W82	.993	9753	4.3	10	-N		C		.30	1.00			
ARCE	10	0945	1010	0948	S12	W87	.999	9753	3.9	25	1B		C	0948	1.09	5.00			
GRP19081	10	1023	1040	1027	S12	W82	.992	9753	4.3	17	-N				.79				5 5 5 7
CAPE	10	1020	1037	1027	S12	W86	.998	9753	4.0	17	-F		C	1027	.80				
CANR	10	1022	1027D	1026	S13	W80	.988	9753	4.4	5D	-N		C		.60	2.00			
HTPR	10	1025	1050	1029	S11	W80	.987	9753	4.4	25	-B		C	1029	.93				
CAPF	10	1025E	1040		S12	W80	.988	9753	4.4	15D	1N		P	1031	.83				H
MONT	10	1025	1033	1027	S12	W83	.994	9753	4.2	8	-F		C	1027	.77				
GRP19082	10	1326	1359	1334	N17	E15	.342	9760	11.7	33	--F				.65				2 1 1 6
SANM	10	1326	1359	1334	N17	E15	.342	9760	11.7	33	-F		C	1334	.65	.68			E
HUAN	10	1345	1354		N16	E16	.344	9760	11.8	9	-F	1	C	1346	.50	.50			E
GRP19083	10	1326	1345	1336	S13	W90	1.000	9753	3.8	19	-N				.60				3 2 1 5
SANM	10	1324	1345		S12	W90	1.000	9753	3.8	21	-N	8							A
HTPR	10	1325	1400		S11	W80	.987	9753	4.6	35	-N	8	C	1330	.52				
CANR	10	1327	1344	1336	S13	W90	1.000	9753	3.8	17	1N	8	C		.60	2.40			EH
GRP19087	10	1521	1534	1524	N18	E12	.321	9760	11.5	13	--N				.96				3 3 3 6
SANM	10	1519	1538	1524	N19	E12	.334	9760	11.5	19	-F		C	1524	1.13	1.19			
HUAN	10	1521	1529		N18	E13	.331	9760	11.6	8	-N	1	C	1524	.93	.93			
MCMA	10	1522	1535		N18	E12	.321	9760	11.5	13	-N		C	1522	.83	.90			EH
GRP19088	10	1523	1536	1527	S12	W89	1.000	9753	4.0	13	--F								2 2 0 6
MCMA	10	1523	1535	1527	S12	W90	1.000	9753	3.9	12	-N		C	1527					D
HUAN	10	1523	1537		S12	W88	1.000	9753	4.0	14	-F	1	C						
GRP19089	10	1530	1552	1533	N17	E15	.342	9760	11.8	22	--N				.36				4 4 3 6
SANM	10	1527	1556	1532	N16	E13	.308	9760	11.6	29	-F	8	C	1532	.32	.33			D
SACP	10	1530	1550	1535	N16	E15	.332	9760	11.8	20	-N	8	C		.40	.39			
HUAN	10	1530	1550	1533	N16	E16	.344	9760	11.8	20	-N	1	C	1533	.37	.37			D
CAPS	10	1531	1543D		N18	E15	.353	9760	11.8	12D	-N	2							
GRP19092	10	1756	1808	1759	N33	W50	.821	9766	7.0	12	--N				.46				4 3 3 5
HUAN	10	1756	1805		N33	W50	.821	9766	7.0	9	-N	1	C	1758	.35	.48			D
SACP	10	1756	1810	1759	N33	W51	.829	9766	6.9	14	-B		C		.50	.69			
HALE	10	1757	1808	1759	N33	W50	.821	9766	7.0	11	-F	2	C	1759	.52	.90			
MCMA	10	1758E	1805	1800	N34	W62	.907	9766	6.1	7D	-F		C	1800	.52	.90			EH
GRP19093	10	1804	1841	1813	N19	E12	.334	9760	11.7	37	-B				1.12				2 2 2 5
HUAN	10	1803	1841D		N18	E12	.321	9760	11.7	38D	-B	1	C	1811	1.00	1.00			E
HALE	10	1805	1840	1813	N19	E12	.334	9760	11.7	35	-N	2	C	1813	1.24	1.30			FJ
GRP19094	10	1819	1832	1822	N06	W43	.681	9754	7.5	13	--F				.33				2 2 2 6
HUAN	10	1819	1835	1822	N07	W43	.681	9754	7.5	16	-N	2	C	1822	.35	.40			D
SACP	10	1819	1829	1822	N05	W43	.681	9754	7.5	10	-F		C		.30	.34			
GRP19099	10	2116	2142	2121	N06	W47	.730	9754	7.4	26	-B				1.60				2 2 2 3
SACP	10	2115	2145	2120	N05	W46	.718	9754	7.4	30	-N		C		1.39	1.67			
BOUL	10	2116	2138	2121	N06	W47	.730	9754	7.4	22	1B		C		1.80	2.60			EL
GRP19100	10	2213	2241	2220	N06	W47	.730	9754	7.4	28	1F				1.58				4 4 4 4
BOUL	10	2213	2231D	2216	N06	W47	.730	9754	7.4	18D	1N		C		2.20	3.20			
SACP	10	2213	2235	2220	N05	W47	.730	9754	7.4	22	-F		C		1.00	1.20			
HALE	10	2214	2247D	2220U	N05	W48	.742	9754	7.3	33D	1F	1	P	2220	1.55	2.30			
MANI	10	2215E	2231D	2222	N06	W47	.730	9754	7.4	16D	1F	1		2222	1.55	2.28			
GRP19101	11	0037	0055	0038	N19	E08	.301	9760	11.6	18	--N				.62				2 2 2 4
MITK	11	0036	0047	0037	N18	E08	.286	9760	11.6	11	-N		C	0037	.72	.80			E
HALE	11	0037	0103	0038	N19	E08	.301	9760	11.6	26	-N	1	C	0038	.52	.50			
GRP19102	11	0124	0138	0126	S23	W47	.797	9767	7.5	14	--F				.26				2 2 2 4
MANI	11	0124E	0135		S22	W50	.819	9767	7.3	11D	-F	2		0128	.31	.51			
HALE	11	0124	0140	0126	S23	W44	.770	9767	7.8	16	-N	2	C	0126	.21	.30			
103 MANI	11	0434E	0448D	0436	N17	E08	.272	9760	11.8	14D	-N	2		0436	1.24	1.30			3
GRP19104	11	0723	0751	0728	S11	E51	.796	9764	15.1	28	1N				1.40				5 5 5 6
CAPE	11	0722	0756	0726	S11	E51	.796	9764	15.1	34	1N		C	0726	1.66	2.80			F
CRON	11	0723	0750	0725	S10	E51	.793	9764	15.1	27	1N		C		2.00	3.20			E
KODA	11	0725E	0741	0731	S13	E52	.810	9764	15.2	16D	1F		P	0733	1.29	2.20	1.76		EH
ABST	11	0725E	0935D	0728	S08	E51	.789	9764	15.1	130D	1F		P	0728	1.35	2.19		56	FK
CAPS	11	0733E	0755D		S11	E48	.764	9764	14.9	22D	-B	2		0735	.70	1.10		204	F

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OBSERVATORY	OBSERVED UT DATE 1968 NOV	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP19106	11	0913	0931	0918	S13	E51	.801	9764	15.2	18	-N				.66				4 4 4 6
CATA	11	0905	0935D	0915	S14	E50	.793	9764	15.1	30D	-N	8		0915	.75	1.25		174	
CRON	11	0914	0930	0919	S12	E53	.818	9764	15.4	16	-N	8	C		.70	1.20			E
CAPS	11	0915E	0930D		S13	E51	.801	9764	15.2	15D	-N	3		0919	.50	.80		189	C
CANR	11	0918	0928	0919	S11	E49	.775	9764	15.1	10	-N	8	C		.70	1.10			
4 STATIONS REPORTING GROUP 19110. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP19110	11	1439	1518	1445	N17	E03	.242	9760	11.8	39	-B				1.83				4 4 4 4
SANM	11	1313	1530		N17	E04	.246	9760	11.9	137	1B		C	1450	2.59	2.66			
SACP	11	1438	1512	1444	N18	E02	.255	9760	11.8	34	-B		C		1.59	1.56			
CAPE	11	1440	1520	1445	N15	E02	.205	9760	11.8	40	-N		C	1445	1.22	1.20			H
CANR	11	1441U	1508	1446	N17	E04	.246	9760	11.9	27D	-N		C		1.90	1.90			
19110	11	1313	1521	1459	N18	E04	.262	9760	11.9	128	*-N				.90				2 2 2 4
SANM	11	1313	1530		N17	E04	.246	9760	11.9	137	-N		C	1326	.80	.83			ETU
SACP	11	1415	1419	1416	N18	E04	.262	9760	11.9	4	-N		C		.60	.59			
SACP	11	1429	1433	1430	N18	E04	.262	9760	11.9	4	-F		C		.50	.49			
SACP	11	1455	1512	1459	N18	E02	.255	9760	11.8	17	-N		C		.99	.98			
SACP	11	1455	1512	1505	N18	E02	.255	9760	11.8	17	-N		C						
GRP19111	11	1517	1530	1526	N17	E03	.242	9760	11.9	13	--N				1.00				3 3 3 5
HUAN	11	1516E	1531		N16	E02	.222	9760	11.8	15D	-N	1	P	1517	1.13	1.13			
HUAN	11	1516E	1531		N17	E04	.246	9760	11.9	15D	-N			1526	.55	.55			
CAPE	11	1517	1526D	1525	N18	E03	.258	9760	11.9	9D	-N		P	1525	.96	1.00			
SACP	11	1526E	1528	1526	N18	E03	.258	9760	11.9	2D	-N		C		.90	.88			
GRP19112	11	1625	1634	1627	N18	E03	.258	9760	11.9	9	--N				.76				2 2 2 3
SACP	11	1625	1634	1627	N18	E03	.258	9760	11.9	9	-N		C		.90	.88			
HUAN	11	1627E	1628D		N17	E03	.242	9760	11.9	1D	-N	1	P	1627	.62	.62			E
114 HUAN	11	1906	1913		N17	E02	.239	9760	11.9	7	--F	2	C	1907	.37	.37			E 3
GRP19115	11	1929	1945	1931	N18	E02	.255	9760	12.0	16	--B				.79				2 2 2 3
BOUL	11	1928	1938	1930	N17	E02	.239	9760	12.0	10	-N		C		1.00	1.00			E
HALE	11	1930	1952	1932	N18	E01	.254	9760	11.9	22	-B	2	C	1932	.57	.60			
GRP19116	11	1948	1957	1951	N17	E00	.236	9760	11.8	9	-N				1.63				2 2 2 3
BOUL	11	1947	1957	1950	N17	E01	.237	9760	11.9	10	-N		C		1.70	1.70			E
HALE	11	1949	2100U	1952	N17	W01	.237	9760	11.8	71D	-N	2	C	1952	1.55	1.60			
GRP19117	11	2008	2038	2011	N17	W01	.237	9760	11.8	30	-B				1.55				2 2 2 3
HUAN	11	1947	2025D		N16	W01	.220	9760	11.7	38D	-B	1	P	2016	1.39	1.39			
BOUL	11	2008	2030	2011	N17	E01	.237	9760	11.9	22	-N		C		1.70	1.70			E
BOUL	11	2014	2045	2023	N17	W01	.237	9760	11.8	31	-N		C		1.10	1.10			
4 STATIONS REPORTING GROUP 19118. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP19118	12	0003	0039	0011	N17	W04	.247	9760	11.7	36	-B				1.72				3 3 3 4
MANI	12	0001	0037	0012	N17	W04	.247	9760	11.7	36	1N	2		0012	2.17	2.18			
MITK	12	0003	0045	0010	N17	W04	.247	9760	11.7	42	-B		C	0010	1.55	1.60			E
HALE	12	0006	0035	0010	N16	W03	.227	9760	11.8	29	-B	1	C	0010	1.44	1.50			FJ
118 CRON	12	0002	0024	0008	N17	E14	.333	9760	13.1	22	*-N		C		1.30	1.30			E 4
GRP19119	12	0116	0130	0120	N11	E60	.866	9768	16.6	14	--N				.28				2 2 2 4
MANI	12	0115	0137	0119	N11	E63	.890	9768	16.8	22	-F	2		0119	.46	.89			
HALE	12	0117	0123	0121	N11	E56	.829	9768	16.3	6	-B	1	C	0121	.10	.20			F
GRP19123	12	0751	0812	0755	N18	W08	.288	9760	11.7	21	-N				1.70				5 5 4 6
CRON	12	0750	0805	0755	N17	W08	.273	9760	11.7	15	1N		C		2.00	2.10			E
CANR	12	0750	0800	0753	N17	W07	.266	9760	11.8	10	-N		C		1.70	1.90			E
HTPR	12	0750	0820	0755	N17	W10	.291	9760	11.6	30	1N		C	0755	2.17	2.20			
MANI	12	0751E	0815D	0756	N20	W07	.311	9760	11.8	24D	-N	2		0756	.93	.98			
ISTA	12	0753	0820		N19	W06	.290	9760	11.9	27	-N								
GRP19124	12	0830	0852	0835	N17	W09	.282	9760	11.7	22	1N				2.16				6 6 5 7
ABST	12	0727E	0848D	0837	N17	W08	.273	9760	11.7	81D	1N		P	0837	2.70	3.80		53	FK
ISTA	12	0753	0840		N17	W09	.282	9760	11.7	47	-N								
HTPR	12	0829	0900	0835	N17	W10	.291	9760	11.6	31	1N		C	0835	2.27	2.30			
CRON	12	0830	0845	0834	N17	W09	.282	9760	11.7	15	1N		C		2.10	2.20			E
CATA	12	0830E	0910D	0835	N17	W07	.266	9760	11.8	40D	-N			0835	1.44	1.50		190	B
CANR	12	0834E	0850	0835U	N17	W08	.273	9760	11.8	16D	1N		C		2.30	2.30			EH
GRP19127	12	1153	1224	1204	N16	W11	.288	9760	11.7	31	--F				.59				3 3 3 5
CAPE	12	1145	1220	1205	N16	W11	.288	9760	11.7	35	-F		C	1205	.92	1.00			
HUAN	12	1153	1232	1203	N16	W10	.278	9760	11.7	39	-N	1	C	1203	.45	.45			L
HTPR	12	1200	1220	1205	N16	W11	.288	9760	11.7	20	-F		C	1205	.41	.40			

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GRP19129	12	1421	1452	1426	N05	W72	.950	9754	7.2	31	1N				3.06				4 4 3 5
CANR	12	1420	1450	1426	N05	W73	.955	9754	7.1	30	2N		C		2.90	7.00			E
SANM	12	1421	1455	1427	N05	W75	.965	9754	7.0	34	2B		C	1427	3.88	14.06			I
HUAN	12	1421	1445		N06	W70	.938	9754	7.3	24	1N	1	C						
SACP	12	1421	1458	1425	N05	W69	.932	9754	7.4	37	1N		C		2.39	4.36			
SACP	12	1421	1458	1430	N05	W69	.932	9754	7.4	37	1N		C						
GRP19131	12	1539	1553	1546	N18	W10	.305	9760	11.9	14	--N				.69				3 3 3 4
HUAN	12	1530	1553	1546	N18	W09	.296	9760	12.0	23	-N	2	C	1546	.75	.75			ET
SACP	12	1543	1555	1546	N18	W10	.305	9760	11.9	12	-B		C		.99	.98			
SANM	12	1545	1550	1546	N19	W11	.327	9760	11.8	5	-F		C	1546	.32	.33			E
132 HUAN	12	1615	1623	1616	N18	W09	.296	9760	12.0	8	--F	1	C	1616	.31	.31			E 2
GRP19135	12	1716	1735	1720	N10	E46	.721	9768	16.2	19	-N				.77				3 3 3 5
HUAN	12	1716	1734	1720	N09	E46	.720	9768	16.2	18	-N	2	C	1720	.57	.68			E
SACP	12	1716	1735	1720	N10	E46	.721	9768	16.2	19	-N		C		.90	1.07			
HALE	12	1717	1722D		N10	E46	.721	9768	16.2	5D	-N	2	P	1721	.83	1.20			F
GRP19136	12	1728	1810	1739	N17	W14	.333	9760	11.7	42	-B				1.48				5 4 3 5
HUAN	12	1724	1828		N17	W14	.333	9760	11.7	64	-B	2	C	1740	1.70	1.70			L
SACP	12	1725	1805	1740	N17	W15	.345	9760	11.6	40	-N		C		1.50	1.48			
BOUL	12	1725	1732	1726	N18	W14	.345	9760	11.7	7	-N		C		.90	1.00			E
MCMA	12	1730	1800		N18	W13	.334	9760	11.8	30	-B		V						
HALE	12	1732	1806	1738	N17	W15	.345	9760	11.6	34	-B	1	C	1738	1.24	1.30			FH
GRP19137	12	1941	1953	1943	N18	W12	.324	9760	11.9	12	--F				.54				2 2 2 6
HUAN	12	1915	1940	1917	N20	W11	.341	9760	12.0	25	-F	2	C	1917	.62	.62			E
HALE	12	1940	1953	1943	N18	W12	.324	9760	11.9	13	-F	1	C	1943	.62	.70			FJH
HUAN	12	1941	1952		N17	W12	.311	9760	11.9	11	-N	1	C	1944	.45	.45			E
GRP19138	12	2126	2144	2132	N17	W13	.322	9760	11.9	18	-N				1.17				5 5 5 5
HUAN	12	2122	2133D		N17	W13	.322	9760	11.9	11D	-B	1	P	2130	1.34	1.34			
HALE	12	2126	2144	2130	N17	W13	.322	9760	11.9	18	-B	1	C	2130	1.13	1.20			FHJ
BOUL	12	2128	2140	2131	N17	W13	.322	9760	11.9	12	-N		C		1.50	1.60			EH
HOUT	12	2129	2141	2131	N17	W13	.322	9760	11.9	12	-N		C		1.10	1.10			E
SACP	12	2136E	2149	2137U	N17	W13	.322	9760	11.9	13D	-N		C		.79	.79			
GRP19139	12	2211	2216	2213	N21	W14	.381	9760	11.9	5	--B				.23				2 2 2 3
HOUT	12	2210	2215	2213	N21	W14	.381	9760	11.9	5	-N		C		.20	.20			
HALE	12	2211	2217	2212	N21	W13	.372	9760	11.9	6	-B	1	C	2212	.26	.30			J
GRP19140	12	2249	2301	2254	N20	W15	.379	9760	11.8	12	--B				.75				3 3 3 5
SACP	12	2248	2300	2253	N21	W14	.381	9760	11.9	12	-B		C		.60	.60			
MANI	12	2248	2302D	2253	N19	W17	.389	9760	11.7	14D	-N	2		2253	1.03	1.10			
HALE	12	2251	2301	2255	N21	W13	.372	9760	12.0	10	-B	1	C	2255	.62	.70			HJ
GRP19141	12	2328	2344	2336	N17	W15	.345	9760	11.9	16	--B				.73				3 3 3 6
HALE	12	2321	2333	2324	N16	W19	.385	9760	11.5	12	-F	1	C	2324	.52	.60			
MANI	12	2328E	2338D	2336	N17	W14	.333	9760	11.9	10D	-N	1		2336	.93	.95			
VORO	12	2334	2344	2336	N18	W14	.345	9760	11.9	10	-B		C	2336	.55	.59		74	D
HALE	12	2336	2343	2337	N19	W14	.357	9760	11.9	7	-B	1	C	2337	.72	.80			JH
GRP19142	13	0016	0032	0020	N18	W15	.357	9760	11.9	16	-B				1.78				4 4 4 4
MITK	13	0014	0029	0018	N17	W15	.346	9760	11.9	15	-N		C	0018	1.55	1.70			E
VORO	13	0015	0032	0019	N18	W15	.357	9760	11.9	17	1B		C	0019	1.91	2.04		112	EL
HALE	13	0016	0036	0020	N17	W15	.346	9760	11.9	20	-B	1	C	0020	1.75	1.90			FH
CRON	13	0017	0029	0021	N18	W15	.357	9760	11.9	12	1N		C		1.90	2.10			H
GRP19145	13	0243	0252	0246	N21	W17	.413	9760	11.8	9	--B				.66				2 2 2 5
HALE	13	0243	0254	0246	N21	W16	.402	9760	11.9	11	-B	1	C	0246	.41	.50			T
VORO	13	0243	0249	0245	N20	W17	.402	9760	11.8	6	-B		C	0245	.91	.99		85	D
	13	0550	0603	NO FLARE PATROL															
148 MANI	13	0647	0706	0655	N17	W18	.382	9760	11.9	19	-N	2		0655	1.65	1.79			2
GRP19149	13	0910	0926	0915	N18	E90	1.000	9772	20.1	16	1N				.76				3 3 3 9
MONT	13	0846	0925	0916	N15	E90	1.000	9772	20.1	39	-F		C	0916	.77				
ARCE	13	0910	0928	0917	N24	E90	1.000	9772	20.1	18	1B		C	0917	.92	5.10			
CANR	13	0910E	0925	0912U	N14	E90	1.000	9772	20.1	15D	1N		C		.60	2.40			
GRP19152	13	1104	1113	1106	N18	W20	.417	9760	12.0	9	-N				1.40				3 3 3 6
UCCL	13	1103	1116D	1106	N19	W21	.438	9760	11.9	13D	1B		C	1106	1.55	2.00			D
CAPS	13	1104	1111		N17	W19	.395	9760	12.0	7	-N	3		1106	1.10	1.20		189	
MONT	13	1104	1111	1105	N17	W21	.421	9760	11.9	7	-N		C	1105	1.55				

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GRP19153	13	1247	1302	1251	N18	W23	.454	9760	11.8	15	-B				1.43				5 5 5 5
MONT	13	1246	1304	1253	N17	W22	.433	9760	11.9	18	-N		C	1253	2.06				
CANR	13	1247	1252	1249	N19	W28	.525	9760	11.4	5	-N		C		1.00	1.20			EH
UCCL	13	1248	1308D	1253	N19	W21	.438	9760	12.0	20D	1B		C	1253	2.06	2.70			DL
CAPS	13	1248	1304D		N16	W23	.439	9760	11.8	16D	-B	3		1252	1.40	1.50		220	H
CATA	13	1250E	1300D	1250	N18	W21	.429	9760	12.0	10D	-B			1250	.63	.70		204	
GRP19154	13	1411	1428	1415	N16	E86	.997	9772	20.0	17	-B				2.06				4 4 1 6
SANM	13	1410	1433	1414	N14	E90	1.000	9772	20.3	23	-N			1414					A
MONT	13	1411	1423	1415	N13	E82	.989	9772	19.7	12	1B		C	1415	2.06				
CAPS	13	1411E	1426D		N22	E80	.983	9772	19.6	15D	-B	3							C
MCMA	13	1420E	1429		N15	E90	1.000	9772	20.3	9D	-N		C	1421					
	13	1533	1535	NO FLARE PATROL															
GRP19156	13	1715	1803	1719	N17	W28	.512	9760	11.6	48	-N				1.45				3 3 3 3
HALE	13	1713	1742D	1719	N17	W29	.525	9760	11.5	29D	-B	2	C	1719	.83	1.00			FT
MCMA	13	1716	1803		N17	W26	.486	9760	11.8	47	-N		C	1728	1.55	1.80			EL
HUAN	13	1716	1803		N17	W28	.512	9760	11.6	47	1N	1	C	1729	1.96	2.04			L
157 HUAN	13	1752	1801		N14	E85	.995	9772	20.1	9	--F	1	C						3
158 HUAN	13	2022	2025		N10	E88	.999	9772	20.4	3	--F	1	C						3
GRP19159	13	2048	2056	2052	N18	W24	.467	9760	12.1	8	--F				.69				2 2 1 3
HUAN	13	2047	2055		N18	W23	.454	9760	12.1	8	-F	1	C						
SACP	13	2048	2057	2052	N17	W24	.460	9760	12.1	9	-N		C		.69	.71			
GRP19160	13	2108	2129	2110	N15	E83	.991	9772	20.1	21	-N				.60				2 2 1 3
SACP	13	2108	2127	2110	N16	E81	.986	9772	20.0	19	-N		C		.60				
HUAN	13	2114E	2130D		N13	E85	.995	9772	20.3	16D	-N	1	P						
GRP19161	13	2228	2302	2240	S12	E09	.302	9764	14.6	34	-N				1.09				2 2 2 2
HALE	13	2228	2309	2239	S11	E09	.287	9764	14.6	41	-N	2	C	2239	.83	.90			FG
MANI	13	2239E	2254	2241	S12	E09	.302	9764	14.6	15D	-N	2		2241	1.34	1.40			
162 HALE	13	2311	2321D	2312	N16	W33	.572	9760	11.5	10D	--N	1	P	2312	.52	.60			FT 2
163 MANI	14	0019	0031	0022	N19	W27	.513	9760	12.0	12	--F	2		0022	1.55	1.81			2
	14	1500	1606	NO FLARE PATROL															
167 HUAN	14	1729	1740		N21	W36	.634	9760	12.0	11	--N	1	C	1730	.50	.54			1
168 HUAN	14	1800	1806	1802	N17	W37	.628	9760	12.0	6	--N	2	C	1802	.75	.82			E 1
169 HUAN	14	1806	1820		N20	W36	.629	9760	12.1	14	--F	1	C	1811	.25	.27			D 1
170 HUAN	14	1843	1850		N21	W37	.646	9760	12.0	7	--F	1	C	1844	.55	.60			1
171 HUAN	14	1931	1940		N08	E13	.240	9768	15.8	9	--F	1	C	1933	.25	.25			DH 1
172 HUAN	14	2038	2106		N13	E65	.906	9772	19.7	28	1F	1	C	2045	1.65	2.67			1
	14	2116	2121	NO FLARE PATROL															
173 HUAN	14	2121	2126		N14	E65	.907	9772	19.8	5	--F	1	P	2125	.21	.33			D 2
174 CULG	14	2148	0010	2253	N19	W45	.729	9760	11.5	142	1F		C	2253	2.58	3.50			1
175 CULG	14	2254	2359	2315	N14	E66	.914	9772	19.9	65	1F		C	2315	1.55	3.37			2
GRP19176	15	0742	0758	0746	N26	E00	.393	9765	15.3	16	-B				1.05				2 2 2 4
MANI	15	0740	0756	0745	N26	W01	.393	9765	15.2	16	-B	2		0745	1.13	1.20			
CAPE	15	0744	0800	0746	N26	E01	.393	9765	15.4	16	-N		C	0746	.96	1.00			CV
GRP19177	15	1030	1128	1035	N14	E60	.868	9772	19.9	58	1B				1.92				3 2 2 4
CAPE	15	1030	1105	1035	N14	E60	.868	9772	19.9	35	1N		C	1035	1.22	2.40			F
CATA	15	1030	1145D	1035	N13	E60	.867	9772	19.9	75D	2B			1035	2.61	5.38		269	
HUAN	15	1127	1135		N16	E59	.861	9772	19.9	8	-F	1	C	1130	.31	.49			E
HUAN	15	1138	1151		N12	E57	.840	9772	19.8	13	-F	2	C	1140	.31	.43			E
GRP19178	15	1230	1354	1249	N19	W52	.802	9760	11.6	84	-N				.62				3 3 3 4
HUAN	15	1224	1237		N18	W52	.800	9760	11.6	13	-F	2	C	1226	.50	.61			E
CATA	15	1230E	1255D	1245	N21	W51	.796	9760	11.7	25D	-B			1245	.63	1.09		209	
CAPE	15	1237	1325	1252	N18	W52	.800	9760	11.6	48	-N		C	1252	.87	1.50			
HUAN	15	1244	1423		N18	W52	.800	9760	11.6	99	-N	2	C	1248	.37	.48			D

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	NOV																		
GRP19181	15	1521	1545	1527	N10	E06	.161	9768	16.1	24	-B				2.19				4 4 4 4
HUAN	15	1520	1552	1529	N10	E07	.173	9768	16.2	32	1N	2	C	1529	2.27	2.27			
SANM	15	1520	1549	1528	N10	E05	.151	9768	16.0	29	1B		C	1528	2.59	2.61			E
CAPS	15	1521E	1529D		N10	E05	.151	9768	16.0	8D	-B	1		1524	2.00	2.00		220	
CANR	15	1521	1535	1525	N10	E07	.173	9768	16.2	14	-N		C		1.90	1.90			E
182 HUAN	15	1657	1702		N25	W04	.382	9765	15.4	5	--F	1	C	1658	.25	.25			D 2
	15	1746	1749	NO FLARE PATROL															
	15	1826	1832	NO FLARE PATROL															
	15	1840	1911	NO FLARE PATROL															
183 HUAN	15	1911E	1927		S12	W17	.383	9764	14.5	16D	-N	1	P	1916	1.50	1.50			E 1
GRP19184	15	1924	1945	(1930)	N10	E04	.142	9768	16.1	21	-N				.84				2 2 2 2
HUAN	15	1924	1943		N10	E04	.142	9768	16.1	19	-N	1	C	1926	1.00	1.00			E
HALE	15	1934E	1946		N09	E04	.127	9768	16.1	12D	-N	2	P	1934	.67	.70			F
185 HALE	15	1934E	2000		S11	W19	.398	9764	14.4	26D	--F	2	P	1934	.72	.80			2
187 HALE	15	1939	1955	1941	N12	E54	.811	9772	19.9	16	--N	2	C	1941	.26	.40			3
188 HALE	15	1949	2010	2000	N06	E25	.424	9772	17.7	21	--F	2	C	2000	.31	.30			2
	15	2052	2105	NO FLARE PATROL															
189 HUAN	15	2106	2110D		N17	W51	.788	9760	12.1	4D	--F	1	P	2108	.25	.32			D 2
	15	2110	2111	NO FLARE PATROL															
GRP19191	16	0033	0105	0051	N17	W56	.836	9760	11.8	32	1N				2.06				3 3 3 5
CULG	16	0030	0112	0049	N17	W56	.836	9760	11.8	42	1N		C	0049	1.65	2.72			HLSF
MITK	16	0034	0100	0052	N16	W55	.826	9760	11.9	26	1N		C	0052	2.27	4.00			E
MANI	16	0034E	0103	0051	N17	W58	.854	9760	11.7	29D	1N	2		0051	2.27	4.07			
GRP19192	16	0127	0151	0132	N14	E52	.794	9772	20.0	24	-F				1.35				2 2 2 5
CULG	16	0127	0159	0132	N13	E52	.792	9772	20.0	32	1F		C	0132	1.86	2.88			
MANI	16	0129E	0142		N14	E51	.783	9772	19.9	13D	-F	1		0134	.83	1.31			
GRP19196	16	1144	1152	1145	N20	W57	.849	9760	12.2	8	--F				.42				2 2 2 4
HUAN	16	1144	1152		N19	W57	.848	9760	12.2	8	-F	1	C	1146	.25	.35			D
CATA	16	1145E	1150D	1145	N21	W56	.843	9760	12.3	5D	-N			1145	.58	1.09		190	
GRP19197	16	1156	1204	1158	N19	W58	.857	9760	12.1	8	-N				.76				2 2 2 3
HUAN	16	1156	1203	1158	N19	W58	.857	9760	12.1	7	-N	2	C	1158	.50	.70			E
CAPE	16	1156	1205	1158	N19	W58	.857	9760	12.1	9	-N		C	1158	1.01	2.00			V
3 STATIONS REPORTING GROUP 19198.					1 STATIONS OBSERVING AND NOT REPORTING.														
GRP19198	16	1249	1338	1257	N12	E41	.664	9772	19.6	49	-N				.89				3 3 3 4
CAPE	16	1247	1350	1300	N12	E41	.664	9772	19.6	63	-N		C	1300	.92	1.20			F
HUAN	16	1250	1325		N12	E40	.652	9772	19.5	35	-N	2	C	1304	.36	.40			D
CATA	16	1253E	1300D	1253	N11	E41	.662	9772	19.6	7D	-N			1253	1.39	1.90		193	
198 HUAN	16	1257	1314		N10	E32	.539	9772	18.9	17	*-F	2	C	1304	.25	.26			D 3
199 HUAN	16	1307	1311	1308	N21	W61	.883	9760	12.0	4	--F	2	C	1308	.21	.32			DT 3
202 HUAN	16	1507	1516		N21	W62	.891	9760	12.0	9	--F	2	C	1510	.41	.63			3
204 HUAN	16	1625	1633		N21	W63	.898	9760	12.0	8	--N	1	C	1629	.37	.59			2
GRP19205	16	1717	1721	1718	N22	W64	.906	9760	11.9	4	--F				1.00				2 2 1 2
CANR	16	1716	1720	1718	N27	W59	.877	9760	12.3	4	-N		C		.50	1.00			I
HUAN	16	1717	1721		N18	W65	.909	9760	11.8	4	-F	1	C						
CANR	16	1719	1725	1721	N23	W66	.920	9760	11.8	6	-F		C		.50	1.10			I
206 HUAN	16	1814	1826		N17	W65	.909	9760	11.9	12	--F	1	C						1
207 HALE	16	2154	2206	2158	N16	W65	.908	9760	12.0	12	1N	2	C	2158	.93				2
GRP19208	16	2359	0010	0002	N20	W67	.924	9760	12.0	11	1N				.75				4 3 3 6
MANI	16	2357	0018	0001	N21	W70	.942	9760	11.7	21	1F	2		0001	1.03	2.21			
HALE	16	2359	0005	0000	N21	W66	.918	9760	12.0	6	-N	2	C	0000	.31				
CRON	16	2359	0003	0001	N32	W65	.924	9760	12.1	4	-N		C		.50	1.20			
VORO	17	0002	0008	0004	N18	W66	.916	9760	12.1	6	1B		C	0004	.91	2.45		89	D

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GRP19211	17	0106	0112	0109	N20	W67	.924	9760	12.0	6	-N				.63				4 4 4 6
HALE	17	0103	0112	0109	N17	W67	.922	9760	12.0	9	1N	1	C	0109	.93				
MITK	17	0105	0111	0107	N21	W68	.931	9760	11.9	6	1N	8	C	0107	.83				
CRON	17	0106	0110	0108	N28	W65	.919	9760	12.2	4	-N	8	C		.50	1.20			H
VORO	17	0111	0115	0112	N13	W66	.914	9760	12.1	4	-B	8	C	0112	.27	.73		86	D
GRP19212	17	0126	0131	0127	N13	E33	.563	9772	19.5	5	--B				.54				2 2 2 5
MITK	17	0123	0129	0125	N13	E33	.563	9772	19.5	6	-N		C	0125	.62	.70			D
VORO	17	0128	0133	0129	N13	E33	.563	9772	19.5	5	-B		C	0129	.46	.69		81	D
GRP19214	17	0241	0254	0246	N16	W70	.940	9760	11.9	13	1N				1.23				5 4 4 7
HALE	17	0239	0250	0244	N17	W68	.929	9760	12.0	11	-B	2	C	0244	.52				H
MANI	17	0239	0257	0245	N18	W71	.946	9760	11.8	18	1F	2		0245	1.13	2.46			
MITK	17	0241	0252	0246	N16	W73	.956	9760	11.6	11	1N		C	0246	1.55				
CRON	17	0243	0250	0245	N28	W65	.919	9760	12.2	7	1N		C		1.20	2.80			H
VORO	17	0244	0258	0250	N13	W67	.921	9760	12.1	14	1B		C	0250	1.73	4.66		107	D
GRP19215	17	0440	0509	0446	N15	E36	.610	9772	19.9	29	-N				.93				2 2 2 5
MANI	17	0440	0507	0446	N15	E37	.623	9772	20.0	27	-N	2		0446	.93	1.18			
MITK	17	0448E	0510		N15	E35	.597	9772	19.8	22D	-N		C	0448	.93	1.20			E
GRP19216	17	0707	0739	0711	N08	E35	.577	9772	19.9	32	1N				1.59				3 3 3 3
CAPE	17	0707	0754	0712	N10	E35	.581	9772	19.9	47	1B		C	0712	1.92	2.30			HV
MANI	17	0707	0735	0712	N12	E35	.586	9772	19.9	28	1N	2		0712	1.86	2.30			
CRON	17	0708	0728	0710	N02	E35	.573	9772	19.9	20	-N		C		1.00	1.10			
GRP19218	17	1403	1413	1405	S18	E87	.999	9780	24.1	10	-N				.50				3 3 3 4
SACP	17	1402	1415	1405	S17	E82	.993	9780	23.7	13	-N		C		.30				
HUAN	17	1403	1412		S18	E90	1.000	9780	24.3	9	-N	1	C	1405	.33				
CAPE	17	1403	1412	1405	S18	E90	1.000	9780	24.3	9	-F		C	1405	.87				
222 SACP	17	1702	1713	1704	N13	E27	.479	9772	19.7	11	--N		C		.60	.61			2
225 SACP	17	1848	1854	1850	N14	E26	.471	9772	19.7	6	--F		C		.30	.30			3
GRP19226	17	1851	1905	1852	N10	E11	.228	9772	18.6	14	--N				.80				3 3 3 3
HUAN	17	1850	1853D		N10	E11	.228	9772	18.6	3D	-N	1	P	1853	.93	.93			E
SACP	17	1851	1903	1852	N10	E11	.228	9772	18.6	12	-N		C		.60	.59			
HALE	17	1859E	1906		N11	E11	.238	9772	18.6	7D	-F	2	P	1859	.88	.90			F
GRP19227	17	1916	1924	1920	N13	E26	.465	9772	19.8	8	--N				.45				3 3 3 4
HALE	17	1914	1925	1920	N13	E26	.465	9772	19.8	11	-B	2	C	1920	.41	.50			FHJ
SACP	17	1917E	1923	1919	N14	E26	.471	9772	19.8	6D	-N		C		.60	.61			
HUAN	17	1918	1920D		N12	E27	.475	9772	19.8	2D	-N	1	P	1920	.35	.36			D
229 HALE	17	2151	2201	2153	N10	E09	.201	9772	18.6	10	--F	1	C	2153	.65	.70			FHJ 3
230 HALE	17	2247	2254	2249	N13	E23	.423	9772	19.7	7	--N	1	C	2249	.31	.30			J 3
231 HALE	17	2315	2325	2317	N13	E23	.423	9772	19.7	10	--N	1	C	2317	.21	.20			J 3
GRP19235	18	0133	0142	0135	N13	E22	.409	9772	19.7	9	--B				.88				2 2 2 5
HALE	18	0133	0141	0135	N13	E22	.409	9772	19.7	8	-B	2	C	0135	.72	.80			
MANI	18	0133E	0143	0135	N12	E21	.389	9772	19.6	10D	-N	2		0135	1.03	1.06			
GRP19244	18	0747	0803	0750	N12	E20	.374	9772	19.8	16	-F				1.28				4 4 4 5
CAPE	18	0745	0817	0750	N12	E19	.360	9772	19.7	32	-N		C	0750	.87	.90			F
MANI	18	0746	0756	0749	N12	E21	.389	9772	19.9	10	-F	2		0749	.93	1.00			
CAPS	18	0747E	0805D		N11	E19	.353	9772	19.7	18D	1F	1		0749	2.00	2.10		170	A
CRON	18	0748	0755	0750	N11	E20	.368	9772	19.8	7	-N		C		1.30	1.40			
GRP19245	18	0825	0840	0829	N20	W85	.995	9760	12.0	15	-F				.52				3 1 1 7
HTPR	18	0825	0840	0827	N20	W85	.995	9760	12.0	15	-F		C	0827	.52				
CANR	18	0829	0835	0831	N33	W80	.986	9760	12.4	6	-N		C		.40	1.30			
MANI	18	0835E	0843		N21	W83	.992	9760	12.1	8D	-N	2		0838	.46	1.30			
6 STATIONS REPORTING GROUP 19246. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP19246	18	1017	1127	1033	N21	W87	.998	9760	11.9	70	1B				2.07				3 3 3 5
HTPR	18	1017	1040D	1035	N20	W87	.998	9760	11.9	23D	1B		C	1035	1.86				
CATA	18	1030E	1050D	1030	N23	W85	.995	9760	12.1	20D	1B			1030	1.16			292	A
MONT	18	1031E	1127	1035	N21	W90	1.000	9760	11.7	56D	1B		C	1035	3.20				
19246	18	1026	1235	1058	N20	W90	1.000	9760	11.7	129	+1B				1.66				4 1 1 6
CAPE	18	1026	1235	1118	N19	W90	1.000	9760	11.7	129	1B		C	1118	1.66				AVY
CANR	18	1038E	1050	1038U	N31	W90	1.000	9760	11.7	12D	1N		C		1.20	4.80			H
CAPS	18	1039E	1157D		N21	W87	.998	9760	11.9	78D	2N	1		1101	2.00				AV
HTPR	18	1144E	1158D		N20	W90	1.000	9760	11.7	14D	-F		C						

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GRP19248	18	1501	1516	1504	N11	E16	.309	9772	19.8	15	-N				1.46				4 4 4 6
HUAN	18	1459E	1522		N12	E16	.317	9772	19.8	23D	-N	1	C	1504	1.44	1.44			
SACP	18	1501	1519	1504	N13	E15	.312	9772	19.8	18	-N		C		.98	.97			
CANR	18	1502	1509	1503	N07	E17	.301	9772	19.9	7	-N		C		1.20	1.20			E
CAPS	18	1504E	1513D		N11	E15	.294	9772	19.8	9D	1F	1		1507	2.20	2.30			
GRP19250	18	1631	1635	1633	N19	W56	.840	9765	14.5	4	--N				.42				2 2 2 4
SACP	18	1630	1635	1633	N18	W55	.829	9765	14.6	5	-N	8	C		.39	.55			
HUAN	18	1631	1633D		N19	W56	.840	9765	14.5	2D	-N	1	P	1633	.45	.62			
GRP19252	18	1812	1858	1842	N17	E15	.353	9772	19.9	46	-N				1.25				2 2 2 3
SACP	18	1812	1906	1842	N15	E13	.307	9772	19.7	54	-N		C		1.19	1.17			
BOUL	18	1839	1850	1841	N18	E17	.387	9772	20.1	11	-N		C		1.30	1.40			E
GRP19262	18	2238	2252	2241	N16	E09	.278	9772	19.6	14	--N				.46				2 2 2 4
SACP	18	2237	2251	2242	N16	E09	.278	9772	19.6	14	-N		C		.50	.49			
HALE	18	2238	2252	2240	N16	E08	.269	9772	19.5	14	-N	2	C	2240	.41	.40			E
GRP19264	18	2339	2358	2343	N15	E10	.274	9772	19.7	19	--F				1.33				4 4 4 6
SACP	18	2337	2357D	2343	N15	E09	.264	9772	19.7	20D	-N		C		1.74	1.72			
HALE	18	2338	0000D	2343	N15	E09	.264	9772	19.7	22D	-F	2	P	2343	.77	.80			F
MANI	18	2340E	2357		N15	E12	.296	9772	19.9	17D	-F	1		2348	1.86	1.94			
MITK	18	2340	2356	2344	N15	E10	.274	9772	19.7	16	-N		C	2344	.93	1.00			E
GRP19268	19	0144	0202	0151	S15	E82	.992	9780	25.2	18	1N				.93				4 4 4 5
CULG	19	0141	0205	0150	S17	E85	.997	9780	25.4	24	1N		C	0150	.72				
HALE	19	0145	0205	0151	S12	E81	.990	9780	25.1	20	1N	1	C	0151	.83				F
CRON	19	0147	0155	0151	S15	E85	.997	9780	25.4	8	-N		C		.60	2.00			
MANI	19	0151E	0152D		S16	E78	.982	9780	24.9	1D	1F	1		0152	1.55	3.90			
GRP19272	19	0845	0901	0849	N19	W46	.742	9775	15.9	16	--F				1.04				2 2 2 5
CAPE	19	0844	0901	0848	N18	W46	.740	9775	15.9	17	-N		C	0848	1.14	1.70			H
HTPR	19	0845	0900	0849	N20	W45	.735	9775	16.0	15	-F		C	0849	.93	1.30			
GRP19273	19	1015	1036	1020	N19	W45	.732	9775	16.1	21	--F				.58				2 2 2 4
HTPR	19	1015	1035	1020	N20	W45	.735	9775	16.1	20	-F		C	1020	.52	.70			
LOCA	19	1015	1037	1020	N17	W44	.715	9775	16.1	22	-N		V	1020	.63	.90			
274 HTPR	19	1020	1055	1040	N10	E05	.158	9772	19.8	35	--F		C	1040	.52	.50			3
275 CANR	19	1151	1158	1154	S29	E78	.987	9780	25.3	7	--F		C		.40	1.20			2
GRP19282	19	1958	2008	1959	N10	W19	.348	9772	18.4	10	-N				1.18				4 4 4 5
HUAN	19	1957	2005D		N09	W18	.327	9772	18.5	8D	-N	1	C	1958	1.65	1.65			E
BOUL	19	1957	2001	1959	N11	W18	.339	9772	18.5	4	-N		C		1.50	1.60			
HOUT	19	1958	2003	1959	N10	W19	.348	9772	18.4	5	-F		C		1.10	1.20			H
HALE	19	1958	2022	2000	N10	W19	.348	9772	18.4	24	-N	2	C	2000	.46	.50			
GRP19285	20	0124	0215	0131	S20	E63	.911	9780	24.8	51	-N				1.24				3 2 2 5
HALE	20	0118	0153	0132	S18	E60	.886	9780	24.6	35	1N	2	C	0132	1.55	3.40			FU
HALE	20	0120	0127	0122	S16	E65	.919	9780	24.9	7	-F	2	C	0122	.77				F
MITK	20	0128	0146D	0130	S23	E64	.922	9780	24.9	18D	-N		C	0130	.93				E
CULG	20	0138E	0215	0142	S21	E63	.912	9780	24.8	37D	1F		P	0142	2.06	4.00			
	20	0700	0715	NO FLARE PATROL															
GRP19288	20	0927	0955	0936	S21	E57	.870	9780	24.7	28	1N				1.16				5 5 4 7
HTPR	20	0925	1000	0936	S22	E57	.872	9780	24.7	35	-F		C	0936	.62	1.20			
CATA	20	0925	1125	0935	S24	E57	.877	9780	24.7	120	1B			0935	1.51	3.11		269	T
ISTA	20	0925	1005		S16	E59	.875	9780	24.8	40	-N								
ARCE	20	0930	0950	0935	S22	E58	.879	9780	24.7	20	1F		C	0935	1.11	2.50			
CANR	20	0930	0945	0936	S22	E53	.840	9780	24.4	15	1N		C		1.40	2.50			
GRP19290	20	1224	1303	1242	S20	E54	.843	9780	24.6	39	1N				1.72				3 2 2 5
HTPR	20	1215	1300	1241	S20	E55	.851	9780	24.6	45	1N		C	1241	1.44	2.80			
CATA	20	1230E	1235D	1230	S19	E59	.881	9780	24.9	5D	-B			1230	.23	.46		229	
CANR	20	1233	1305	1243	S20	E53	.834	9780	24.5	32	1N		C		2.00	3.60			E
GRP19291	20	1356	1420	1400	S17	E58	.869	9780	24.9	24	--F				.60				3 3 3 7
MONT	20	1353	1408	1400	S17	E60	.885	9780	25.1	15	-F		C	1400	1.13				
SACP	20	1358	1450	1400	S17	E56	.853	9780	24.8	52	-F		C		.41	.59			
HUAN	20	1359E	1403		S17	E58	.869	9780	24.9	4D	-F	1	C	1400	.25	.37			CD
GRP19293	20	1602	1613	1604	S16	E58	.867	9780	25.0	11	--F				.55				2 2 2 5
CANR	20	1601	1608	1602	S18	E57	.863	9780	24.9	7	-F		C		.50	1.00			E
HOUT	20	1603	1617	1605	S14	E59	.872	9780	25.1	14	-F		C		.60	1.20			

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GRP19298	20	1748	1758	1752	S16	E58	.867	9780	25.1	10	--F				.51				2 2 2 4
HUAN	20	1747	1755		S17	E58	.869	9780	25.1	8	-F	2	C	1749	.31	.46			D
HOUT	20	1749	1800	1752	S14	E57	.855	9780	25.0	11	-F		C		.70	1.30			
GRP19299	20	1830	1835	1830	S20	E53	.834	9780	24.7	5	--F				.31				2 2 2 4
SACP	20	1829	1835	1830	S20	E53	.834	9780	24.7	6	-F		C		.30	.41			
HUAN	20	1830	1834		S20	E53	.834	9780	24.7	4	-F	2	C	1831	.31	.43			E
GRP19300	20	1956	2009	1959	S16	E56	.850	9780	25.0	13	-N				1.51				4 4 4 4
SACP	20	1955	2013	1959	S15	E56	.848	9780	25.0	18	-N		C		1.39	1.97			
HALE	20	1956	2012	1958	S16	E55	.842	9780	25.0	16	-B	2	C	1958	.93	1.70			
BOUL	20	1956	2005	1959	S17	E58	.869	9780	25.2	9	1N		C		1.90	3.60			
HOUT	20	1957	2007	2000	S14	E56	.846	9780	25.0	10	1N		C		1.80	3.20			
GRP19301	20	2036	2042	2038	S15	E55	.840	9780	25.0	6	-N				.68				3 3 3 3
HALE	20	2036	2043	2038	S15	E55	.840	9780	25.0	7	-N	2	C	2038	.83	1.50			
SACP	20	2036	2040	2037	S15	E55	.840	9780	25.0	4	-N		C		.60	.84			
HOUT	20	2037	2042	2039	S14	E56	.846	9780	25.1	5	-N		C		.60	1.10			E
GRP19302	20	2050	2122	2055	S19	E50	.804	9780	24.6	32	--F				1.02				2 2 2 4
HALE	20	2050	2124		S19	E49	.795	9780	24.5	34	-F	1	P	2053	1.03	1.70			F
HOUT	20	2050	2120	2055	S18	E51	.810	9780	24.7	30	-N		C		1.00	1.70			E
303 SACP	20	2205	2211	2208	S11	E56	.841	9780	25.1	6	--F		C		.50	.70			3
GRP19304	20	2310	2332	2315	N15	W18	.372	9772	19.6	22	--F				.36				2 2 2 3
SACP	20	2309	2327	2315	N14	W18	.363	9772	19.6	18	-F		C		.40	.40			
HALE	20	2310	2337	2315	N15	W18	.372	9772	19.6	27	-F	1	C	2315	.31	.30			
GRP19306	21	0033	0110	0039	N14	W16	.338	9772	19.8	37	1N				2.39				4 3 3 4
VORO	21	0031	0101	0040	N14	W18	.364	9772	19.7	30	1B		C	0040	2.00	2.16		144	EJ
HALE	21	0033	0135	0042	N16	W17	.370	9772	19.7	62	1N	1	C	0042	4.18	4.50			FS
CRON	21	0034	0055	0036	N11	W12	.256	9772	20.1	21	-N		C		1.00	1.10			E
MITK	21	0051E	0056D		N17	W17	.380	9772	19.8	5D	-N		C	0053	1.75	1.90			
GRP19308	21	0314	0320	0316	N12	W18	.348	9772	19.8	6	--N				.37				2 2 2 5
MITK	21	0312	0320	0315	N12	W18	.348	9772	19.8	8	-N		C	0315	.52	.60			E
HALE	21	0315	0317D	0316	N12	W18	.348	9772	19.8	2D	-N	2	P	0316	.21	.20			
317 SACP	21	1529	1543	1533	S20	E40	.708	9780	24.6	14	--F		C		.20	.23			2
GRP19318	21	1644	1718	1648	S18	E39	.687	9780	24.6	34	--N				.51				2 2 2 4
SACP	21	1640	1702	1644	S19	E39	.692	9780	24.6	22	-F		C		.50	.58			
HALE	21	1647	1734	1652	S20	E36	.665	9780	24.4	47	-B	3	C	1652	.52	.70			
HALE	21	1721	1733	1727	S14	E41	.691	9780	24.8	12	-B	3	C	1727	.10	.10			DH
319 HUAN	21	1835	1844		N11	W24	.429	9772	20.0	9	--F	2	C	1836	.25	.25			D 3
GRP19320	21	2057	2125	2100	S22	E39	.708	9780	24.8	28	--F				.50				3 2 2 5
CULG	21	2048	2320	2130	S20	E50	.807	9780	25.6	152	1N		C	2130	3.09	4.80			J
SACP	21	2056	2121	2100	S22	E39	.708	9780	24.8	25	-N		C		.69	.82			
HUAN	21	2057	2128		S22	E39	.708	9780	24.8	31	-F	1	C	2059	.31	.36			D
5 STATIONS REPORTING GROUP 19321. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP19321	22	0056	0210	0124	S16	E40	.688	9780	25.0	74	1N				3.75				4 4 3 5
CULG	22	0035	0335	0122	S16	E39	.676	9780	24.9	180	2B		P	0122	4.64	5.85			E
MITK	22	0052	0200	0123	S16	E43	.721	9780	25.3	68	1B		C	0123	1.44	2.10			
CRON	22	0055	0150	0124	S15	E37	.648	9780	24.8	55	1N								
MANI	22	0100	0220	0125	S17	E40	.692	9780	25.0	80	2F			0125	5.16	7.95			
MITK	22	0330	0442D		S14	E42	.702	9780	25.3	72D	-N		C	0436	.52	.70			D
19321	22	0101	0205	0108	S16	E40	.688	9780	25.0	64	*1N				2.18				3 3 3 6
CRON	22	0055	0150	0102	S15	E37	.648	9780	24.8	55	1N		C		3.20	4.20			EK
MANI	22	0100	0220	0108	S17	E40	.692	9780	25.0	80	1N	2		0108	2.32	3.50			
HALE	22	0107	0117D	0113	S16	E42	.710	9780	25.2	10D	-N	1	P	0113	1.03	1.50			F
19321	22	0046	0130	0051	S13	E37	.638	9780	24.8	44	*-F				.93				2 2 2 6
HALE	22	0044	0117D	0046	S13	E36	.626	9780	24.7	33D	-N	1	P	0046	.72	.90			W
MITK	22	0048	0130	0056	S12	E38	.646	9780	24.9	42	-F		C	0056	1.13	1.50			
GRP19322	22	0057	0111	0100	N11	W29	.502	9772	19.9	14	--N				.62				3 3 3 6
MANI	22	0054	0112	0100	N11	W29	.502	9772	19.9	18	-F	2		0100	1.03	1.21			
MITK	22	0059	0118	0100	N11	W31	.531	9772	19.7	19	-N		C	0100	.62	.70			E
HALE	22	0059	0103	0100	N10	W28	.484	9772	19.9	4	-B	1	C	0100	.21	.20			F
GRP19324	22	1703	1721	1709	S18	E30	.583	9780	25.0	18	-B				.96				2 2 2 4
SACP	22	1702	1717	1709	S18	E30	.583	9780	25.0	15	-N		C		1.09	1.17			
HALE	22	1703	1725	1709	S18	E29	.572	9780	24.9	22	-B	2	C	1709	.83	1.00			FH

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325 HALE	22	1732	1743	1735	N11	W39	.639	9772	19.8	11	--F	2	C	1735	.41	.50			3
GRP19326	22	1757	1803	1759	S18	E18	.450	9780	24.1	6	--N				.41				2 2 2 2
SACP	22	1756	1803	1758	S18	E19	.460	9780	24.2	7	-N		C		.50	.50			
HALE	22	1757	1802	1759	S17	E17	.428	9780	24.0	5	-N	2	C	1759	.31	.30			H
327 HUAN	22	2017	2044		N11	W41	.665	9772	19.8	27	--F	1	C	2024	.50	.56			E 3
328 CRON	23	0538	0543	0540	S12	E27	.503	9780	25.3	5	-N		C		1.10	1.20			H 1
329 MANI	23	0558E	0609		S14	E23	.466	9780	25.0	11D	--F	2		0558	.83	.92			2
330 CAPE	23	0636	0700	0641	S08	E56	.836	9785	27.5	24	-N		C	0641	1.05	1.90			H 2
331 CAPE	23	0652	0704	0655	S12	E26	.490	9780	25.2	12	--F		C	0655	.79	.90			V 3
GRP19333	23	0930	1000	0935	S13	E24	.471	9780	25.2	30	--F				.43				3 2 2 5
CAPS	23	0919E	0945D		S12	E26	.490	9780	25.3	26D	-N	3		0920	.50	.60		182	CEJ
ARCE	23	0930E	1000D		S13	E24	.471	9780	25.2	30D	-F		C	0932	.56	.60			
CATA	23	0930E	0940D	0935	S12	E24	.463	9780	25.2	10D	-N			0935	.29	.33		166	
GRP19336	23	1142	1200	1144	S12	E24	.463	9780	25.3	18	--N				.72				3 3 2 4
MONT	23	1139	1147	1142	S12	E24	.463	9780	25.3	8	-F		C	1142	.57				
CAPS	23	1142E	1157D		S12	E25	.477	9780	25.4	15D	-F	2							
CATA	23	1145	1215	1145	S13	E23	.458	9780	25.2	30	-R			1145	.87	.98		295	Z
GRP19338	23	1322	1348	1324	S15	E21	.451	9780	25.1	26	-R				1.65				6 6 6 6
MONT	23	1321	1354	1324	S15	E22	.463	9780	25.2	33	1N		C	1324	2.37				H
HUAN	23	1322	1323D		S16	E21	.460	9780	25.1	1D	-R	1	P	1323	1.24	1.26			
CAPE	23	1322	1345	1323	S15	E22	.463	9780	25.2	23	-R		C	1323	1.27	1.40			HV
SANM	23	1322	1333D	1324	S15	E20	.439	9780	25.1	11D	1N		C	1324	2.27	2.50			E
CAPS	23	1322E	1332D		S16	E24	.496	9780	25.4	10D	-R	3		1325	1.00	1.20		325	CH
CAPS	23	1322E	1340D		S12	E16	.360	9780	24.8	18D	-F	3		1325	.50	.60		142	C
CATA	23	1325E	1345	1325	S15	E21	.451	9780	25.1	20D	-R			1325	1.27	1.43		371	Z
GRP19339	23	1323	1335	1325	S11	E13	.314	9780	24.5	12	-F				.32				2 1 1 7
SANM	23	1323	1335D	1325	S11	E13	.314	9780	24.5	12D	-F		C	1325	.32	.34			D
CATA	23	1325E	1350D	1325	S11	E14	.325	9780	24.6	25D	-R			1325	.58	.62		282	
341 SACP	23	1600	1606	1601	S15	E19	.427	9780	25.1	6	--N		C		.20	.20			2
GRP19342	23	1655	1705	1658	S14	E20	.429	9780	25.2	10	-N				1.49				3 3 3 4
SACP	23	1654	1712	1656	S15	E20	.439	9780	25.2	18	-R		C		1.78	1.80			
HOUT	23	1656	1702	1658U	S14	E22	.454	9780	25.4	6	-N		C		1.10	1.20			
CANR	23	1659E	1702D	1659U	S13	E18	.395	9780	25.1	3D	-N		C		1.60	1.80			E
343 HALE	23	1833	1846	1835	S07	E46	.729	9785	27.2	13	--F	2	C	1835	.21	.30			3
347 HALE	23	2336	0000D	2340	S07	E45	.717	9785	27.4	24D	--N	2	C	2340	.15	.20			3
348 SACP	23	2352	2358D	2354U	S12	E17	.373	9780	25.3	6D	--N		C		.60	.60			3
	23	2400	0002	NO FLARE PATROL															
349 HALE	24	0021	0036	0026	S14	E14	.359	9780	25.1	15	--F	2	C	0026	.36	.40			3
GRP19352	24	0340	0418	0406	S08	E42	.682	9785	27.3	38	-N				1.58				2 2 2 3
CULG	24	0340	0425	0407	S07	E42	.680	9785	27.3	45	1N		C	0407	2.06	2.70			
CRON	24	0401	0410	0405	S08	E42	.682	9785	27.3	9	-N		C		1.10	1.50			E
GRP19354	24	1039	1126	1049	S06	E41	.665	9785	27.5	47	1N				2.49				4 3 3 5
CATA	24	1000E	1025D	1010	S08	E38	.631	9785	27.3	25D	-R			1010	.58	.76		211	
MONT	24	1001	1131	1047	S07	E40	.654	9785	27.4	90	1N		C	1047	3.61				
CAPE	24	1038	1120	1050	S06	E40	.652	9785	27.4	42	1N		C	1050	1.66	2.20			F
CAPS	24	1040	1056D		S06	E42	.678	9785	27.6	16D	1R	3		1044	2.20	3.10		212	HJ
355 HUAN	24	1231	1252		S08	E37	.618	9785	27.3	21	--N	2	C	1238	.57	.62			E 3
GRP19357	24	1412	1442	1421	S07	E37	.615	9785	27.4	30	-N				1.17				6 6 6 6
CAPS	24	1409	1440		S09	E37	.621	9785	27.4	31	-R	3		1421	1.00	1.30		204	J
HUAN	24	1410	1445	1418	S07	E37	.615	9785	27.4	35	1F	2	C	1418	1.96	2.13			
SACP	24	1411	1443	1420	S07	E35	.588	9785	27.2	32	-N		C		.60	.65			
CAPE	24	1413	1445	1425	S07	E36	.602	9785	27.3	32	-F		C	1425	.96	1.20			F
LOCA	24	1415	1440	1422	S07	E38	.628	9785	27.4	25	-N		V	1425	.63	.80			
CAPF	24	1418E	1440D		S06	E37	.612	9785	27.4	22D	1N		P	1424	1.86	2.34			
358 HUAN	24	1644	1707		S20	E03	.374	9780	24.9	23	--F	1	C	1655	.21	.21			D 3

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GRP19359	24	1749	1825	1801	S07	E35	.588	9785	27.4	36	-N				1.20				2 2 2 4
SACP	24	1749	1825	1801	S06	E34	.571	9785	27.3	36	-N		C		.89	.95			
HUAN	24	1801E	1815D		S07	E35	.588	9785	27.4	14D	-N	1	P	1804	1.50	1.60			E
GRP19362	24	2038	2058	2040	S14	E06	.290	9780	25.3	20	-N				1.44				3 3 2 3
SACP	24	2029	2058	2039	S12	E06	.259	9780	25.3	29	-R		C		1.67	1.64			
HOUT	24	2040	2058	2041	S12	E07	.266	9780	25.4	18	-R		C		1.20	1.20			E
MCMA	24	2045	2045D		S18	E05	.348	9780	25.2		-F		V						
363 HUAN	24	2155E	2202D		S11	E04	.232	9780	25.2	7D	--F	1	P	2155	.33	.33			E 2
364 CULG	24	2340	0018	2355	S08	E30	.522	9785	27.2	38	1N		C	2355	1.86	2.34			2
GRP19366	25	0223	0233	0224	S12	E02	.239	9780	25.2	10	--F				.91				2 2 2 5
MITK	25	0222	0230	0223	S11	E02	.222	9780	25.2	8	-N		C	0223	.83	.80			E
HALE	25	0223	0236	0225	S12	E02	.239	9780	25.2	13	-F	1	C	0225	.98	1.00			F
GRP19367	25	0335	0402	0337	S11	E01	.220	9780	25.2	27	-N				1.44				2 2 2 4
MITK	25	0335	0402	0337	S10	E02	.205	9780	25.3	27	-N		C	0337	1.75	1.80			E
MANI	25	0345E	0353D		S12	W01	.237	9780	25.1	8D	-N	2		0345	1.13	1.16			
5 STATIONS REPORTING GROUP 19374. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP19374	25	1234	1313	1242	S08	E24	.435	9785	27.3	39	-N				1.41				3 3 3 7
CAPE	25	1233	1310	1242	S08	E23	.421	9785	27.2	37	-N		C	1242	.99	1.10			F
HUAN	25	1235	1317		S08	E23	.421	9785	27.2	42	1N	2	C	1239	1.65	1.65			
HUAN	25	1235	1317		S08	E26	.464	9785	27.5	42	1N			1245	.75	.77			
CAPS	25	1240E	1313D		S08	E26	.464	9785	27.5	33D	-R	3		1247	1.60	1.80		220	J
19374	25	1247	1316	1301	S07	E24	.430	9785	27.3	29	*1N				3.09				2 2 2 9
CAPF	25	1247E	1325D	1302	S07	E24	.430	9785	27.3	38D	1N		P	1304	3.09	3.45			
UCCL	25	1247	1307	1300	S07	E23	.415	9785	27.3	20	2N		C	1300	3.09	4.00			E
377 HUAN	25	1507	1517		S08	E22	.406	9785	27.3	10	--F	1	C	1509	.21	.21			D 3
GRP19378	25	1745	1849	1827	S08	E21	.392	9785	27.3	64	1F				2.01				2 1 1 3
HUAN	25	1745	1849D		S08	E21	.392	9785	27.3	64D	1F	1	C	1753	2.01	2.01			E
HALE	25	1820	1830D	1827	S08	E20	.377	9785	27.3	10D	-N	2	P	1827	1.03	1.10			FE
	25	2140	2207	NO FLARE PATROL															
GRP19381	26	1056	1117	1105	S10	E11	.274	9785	27.3	21	-N				1.19				5 5 4 9
HTPR	26	1050	1120	1100	S09	E12	.275	9785	27.4	30	-N		C	1100	1.44	1.40			
ONDR	26	1056E	1115	1106	S10	E11	.274	9785	27.3	19D	1F		V	1106			2.00		CJ
CAPE	26	1057	1115	1105	S09	E11	.262	9785	27.3	18	-N		C	1105	1.38	1.40			
CAPS	26	1058	1120		S11	E10	.276	9785	27.2	22	-N	3		1108	.80	.80		189	J
ZURI	26	1100	1115	1108	S09	E09	.239	9785	27.1	15	-N		C	1108	1.13	1.20			
GRP19385	26	1355	1421	1402	S11	E08	.256	9785	27.2	26	--F				.26				4 4 4 8
HTPR	26	1350	1430	1405	S11	E09	.266	9785	27.3	40	-F		C	1405	.21	.20			
MONT	26	1353	1418	1357	S11	E08	.256	9785	27.2	25	-F		C	1357	.15				
SANM	26	1355	1413D	1400	S10	E06	.225	9785	27.0	18D	-F		C	1400	.15	.16			D
ZURI	26	1402	1416	1406	S10	E07	.233	9785	27.1	14	-N		C	1406	.54	.50			
387 BOUL	26	1754	1810	1759	S21	W75	.973	9777	21.1	16	1N		C		.70	2.10			2
388 HALE	26	1927	2000	1932	S17	W22	.478	9780	25.2	33	--N	2	C	1932	.41	.50			F 2
389 HALE	26	2054	2122	2055	N19	E14	.378	9784	27.9	28	--F	1	C	2055	.10	.10			HG 3
390 HALE	26	2055	2105	2059	S08	E04	.179	9785	27.2	10	--N	1	C	2059	.41	.40			3
391 HALE	26	2140	2200	2141	S08	E04	.179	9785	27.2	20	--N	1	C	2141	.52	.50			F 3
392 HALE	26	2234	2300	2244	S16	W24	.492	9780	25.1	26	--N	1	C	2244	.57	.70			3
393 HALE	26	2242	2304	2244	S12	W28	.514	9780	24.8	22	--F	1	C	2244	.46	.50			F 3
8 STATIONS REPORTING GROUP 19398. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP19398	27	1115	1141	1122	S22	W36	.672	9780	24.8	26	-N				1.43				6 6 5 8
HTPR	27	1113	1150	1116	S22	W36	.672	9780	24.8	37	1R		C	1116	1.65	2.10			
CAPE	27	1115	1140	1123	S22	W36	.672	9780	24.8	25	-N		C	1123	1.21	1.60			F
CAPS	27	1116	1138		S21	W35	.655	9780	24.8	22	-R	3		1119	1.50	2.00		204	E
MONT	27	1116	1141	1124	S22	W36	.672	9780	24.8	25	-F		C	1124	1.50				
ONDR	27	1118E	1137	1128	S21	W37	.676	9780	24.7	19D	1R		V	1128			2.40		CE
KODA	27	1118E	1132D	1120	S22	W34	.651	9780	24.9	14D	-N		P	1132	1.29	1.70	1.60		EL
19398	27	1125	1149	1135	S21	W36	.666	9780	24.8	24	*-R				1.92				2 2 2 7
CATA	27	1125	1150	1135	S21	W36	.666	9780	24.8	25	-R			1135	.75	1.01		251	
WEND	27	1128E	1148		S20	W35	.649	9780	24.9	20D	1N		P		3.09				

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	27	1615	1635	NO FLARE PATROL															
GRP19403	27	1823	1835	1824	S08	W05	.185	9785	27.4	12	--N				.36				2 2 1 3
HALE	27	1816	1827D	1822	S10	W05	.216	9785	27.4	11D	-N	2	P	1822	.26	.30			IJ
MCMA	27	1823	1835		S07	W05	.170	9785	27.4	12	-F		V						
* HALE	27	1823	1827D	1824	S08	W06	.193	9785	27.3	4D	-B	2	P	1824	.36	.40			FJ
GRP19404	27	1910	1918	1912	S20	W36	.660	9780	25.1	8	--F				.61				3 2 2 3
BOUL	27	1910	1918	1912	S20	W36	.660	9780	25.1	8	-N		C		.80	1.00			
HALE	27	1910	2045	2013	S18	W36	.648	9780	25.1	95	-N	2	C	2013	1.24	1.60			IJ
MCMA	27	1910	1917		S20	W36	.660	9780	25.1	7	-F		C	1912	.41	.50			E
MCMA	27	1910	1917		S20	W36	.660	9780	25.1	7	-F		C	1912	.40	.50			E
405 HALE	27	1920	1941	1926	S12	W42	.692	9780	24.7	21	-F	2	C	1926	.31	.40			IS 3
406 HALE	27	2007	2017	2011	S30	W27	.651	9780	25.8	10	--F	2	C	2011	.10	.10			2
407 HALE	27	2148	2206	2151	S03	E12	.221	9789	28.8	18	--N	2	C	2151	.31	.30			G 2
412 SACP	28	1629	1640	1634	S10	E36	.610	9793	1.4	11	--N		C		.20	.21			2
GRP19414	28	1931	1937	1933	S18	W51	.806	9780	25.0	6	--F				.38				2 2 2 3
HALE	28	1930	1938	1933	S18	W51	.806	9780	25.0	8	-N	1	C	1933	.41	.70			
HUAN	28	1931	1936		S17	W51	.804	9780	25.0	5	-F	1	C	1933	.35	.46			
GRP19415	28	1947	2008	1950	S22	W55	.852	9780	24.7	21	-N				.71				3 3 3 3
SACP	28	1946	2007	1949	S22	W54	.844	9780	24.8	21	-N		C		.39	.56			
HUAN	28	1946	1948D		S22	W55	.852	9780	24.7	2D	-N	1	P	1948	.72	.99			E
HALE	28	1948	2008	1950	S22	W55	.852	9780	24.7	20	-N	1	C	1950	1.03	2.00			H
HALE	28	1948	2008	1950	S22	W55	.852	9780	24.7	20	-N	1	C	1950	1.00	2.00			H
GRP19416	28	2034	2051	2036	S08	E36	.603	9793	1.6	17	--F				.15				1 1 1 2
HALE	28	2034	2051	2036	S08	E36	.603	9793	1.6	17	-F	1	C	2036	.15	.20			
HALE	28	2034	2051	2036	S08	E36	.603	9793	1.6	17	-F	1	C	2036	.15	.20			
418 HUAN	29	1315	1321		N12	E88	.999	9798	6.2	6	--F	1	C	1316	.25				DT 3
419 HUAN	29	1942E	1947D		N12	E85	.996	9798	6.2	5D	-N	1	P						2
	29	2017	2023	NO FLARE PATROL															
	29	2030	2057	NO FLARE PATROL															
	29	2103	2215	NO FLARE PATROL															
420 MANI	29	2303	2322	2307	S11	W39	.651	9785	27.0	19	--F	2		2307	.72	.98			1
GRP19421	29	2341	0140	0051	N13	E76	.971	9798	5.7	119	1N				.83				2 1 1 4
CULG	29	2341E	0140	0051	N13	E76	.971	9798	5.7	119D	1N		P	0051	.83				
MANI	30	0014	0040	0023	N15	E80	.985	9798	6.0	26	1N	2		0023	1.03	2.65			
GRP19423	30	0646	0659	0652	N12	E79	.982	9798	6.2	13	-N				.68				2 2 2 5
CAPE	30	0645	0705	0653	N11	E77	.975	9798	6.1	20	-N		C	0653	.95				
CRON	30	0647	0653	0651	N12	E80	.985	9798	6.3	6	-N		C		.40	1.20			HI
GRP19427	30	1533	1546	1539	S22	E90	1.000	9801	7.4	13	-N				.38				2 2 2 4
CANR	30	1531	1547	1539	S22	E90	1.000	9801	7.4	16	-N		C		.40	2.00			
HUAN	30	1534	1544		S22	E90	1.000	9801	7.4	10	-N	1	C	1537	.35				
428 HUAN	30	1620	1627		N14	E71	.947	9798	6.0	7	--F	1	C	1622	.45				E 3
430 HUAN	30	1907	1925D		S20	W51	.811	9783	27.0	18D	--N	1	C	1917	.50	.65			2
431 BOUL	30	1950	2014	1959U	N11	E67	.922	9798	5.9	24	-N		C		.80	1.80			E 2
	30	2015	2050	NO FLARE PATROL															
	30	2100	2245	NO FLARE PATROL															

Note:
A line of explanation has been added before each flare event having more than one maxima. The total number of stations reporting some part of the event is given. The number of stations observing at the time of the principal maximum but not reporting the event is given in the second statement. Care should be exercised in utilizing the numbers in the remarks column. The first number is the number of stations reporting the individual maximum, and not the total number of stations reporting some part of the flare event. The last number is the number of stations reporting at the time of the individual maximum and not necessarily the total number of stations observing during the flare event. GRP numbers may appear several times in order to indicate secondary maxima. An asterisk beside an importance indicates a secondary maximum. The word "GRP" has also been omitted to aid in pointing to this condition.
When it is impossible to determine the time of Maximum Phase from the individual reports the time of Area Measurements is used. This time appears in parentheses. For Flares reported by only one station the last 3 digits of the group number appear to the left of the station code.

In the importance column "--" signifies the subflare has been confirmed by the ESSA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity.

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OBSERVATORY	OBSERVED UT DATE 1968 NOV	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
881 CATA	01	0915	0940	0920	S18	E22	.518	9749	3.0	25	-R			0920	.34	.41		234	9
882 MONT	01	1113	1117	1115	S15	W45	.750	9740	29.1	4	-F		C	1115	.15				6
883 MONT	01	1159	1204	1201	S17	E20	.487	9749	3.0	5	-F		C	1201	.93				5
885 ONDR	01	1300	1316	1305	S14	W52	.817	9740	28.6	16	1N		V	1305			2.40		CFJKR 4
886 SACP	01	1355E	1442	1415	S14	E12	.373	9749	2.5	47D	-N		C		1.10	1.10			5
894 HALE	01	2159	2210	2202	S14	W57	.861	9740	28.6	11	-F	2	C	2202	.36	.70			4
895 HALE	01	2229	2241	2233	S16	E11	.393	9749	2.8	12	-F	2	C	2233	.46	.50			4
899 MITK	02	0207	0212D	0210	N19	E41	.677	9751	5.2	5D	-N		C	0210	.83	1.10			G 5
906 MANI	02	0551	0553D		S16	E05	.357	9749	2.6	2D	-F	2		0553	.93	.98			3
908 CRON	02	0645	0653	0646	S15	W62	.901	9740	28.6	8	-N		C		.60	1.30			EI 4
911 CAPS	02	1051E	1114		S14	E90	1.000	9758	9.2	23D	-N	3							AC 5
912 HUAN	02	1203	1206	1204	S17	E04	.369	9749	2.8	3	-F	2	C	1204	.25	.25			D 5
913 CATA	02	1210	1225D	1210	S13	W64	.913	9740	28.7	15D	-N			1210	.14	.34		174	6
914 CATA	02	1230E	1305D	1230	S08	W65	.913	9740	28.6	35D	-B			1230	.11	.27		232	6
915 HUAN	02	1335	1343		S13	W63	.906	9740	28.8	8	-F	1	C	1338	.21	.33			D 7
916 SACP	02	1351	1354	1352	S15	W61	.894	9740	29.0	3	-F		C		.30	.48			6
917 HUAN	02	1405	1419		S15	W02	.332	9749	2.4	14	-F	1	C	1408	.80	.80			E 7
919 SACP	02	1640	1643	1641	N08	E60	.864	9754	7.2	3	-F		C		.30	.44			6
922 SACP	02	1714	1718	1715	S18	W66	.932	9740	28.8	4	-N		C		.40	.72			6
926 SACP	02	2142	2203	2146	S14	E87	.999	9758	9.4	21	-F		C		.40				4
928 MANI	03	0208	0217	0211	S15	W70	.951	9740	28.8	9	-F	2		0211	.26	.67			3
929 HALE	03	0224	0243	0227	S14	E63	.907	9757	7.8	19	-F	1	C	0227	.52				FG 4
931 MANI	03	0533E	0544		S15	W74	.969	9740	28.7	11D	-F	2		0533	.72	1.40			3
932 CAPS	03	1113E	1125D		N11	E18	.327	9751	4.8	12D	-N	1							2
935 HUAN	03	1334	1352		S13	W14	.377	9749	2.5	18	-F	2	C	1340	.25	.25			D 7
936 HUAN	03	1429	1442		S13	W15	.387	9749	2.5	13	-N	1	C	1433	.70	.70			E 4
938 HUAN	03	1451E	1517		S17	W77	.981	9740	28.8	26D	-F	1	C	1455	.25				E 5
941 HALE	03	1641	1701	1653	N05	E45	.705	9754	7.1	20	-F	2	C	1653	.31	.40			F 6
949 HUAN	03	2107	2116	2109	S19	W86	.999	9740	28.4	9	-N	2	C	2109	.37				E 4
955 MANI	04	0408E	0425D	0417	N18	E15	.346	9751	5.3	17D	-F	2		0417	.93	.99			3
958 MITK	04	0609	0621D	0613	N06	E46	.718	9754	7.7	12D	-F		C	0613	.62	.90			D 5
959 ABST	04	0655E	0704D	0657	S15	W25	.519	9749	2.4	9D	-F		P	0657	.90	1.05			D 4
GRP 18960	04	0901	0932	0913	N07	E39	.628	9754	7.3	31	-N				.66				2 2 2 6
MONT	04	0901	0929	0915	N08	E38	.615	9754	7.2	28	-N		C	0915	.98				H
CATA	04	0910E	0915D	0910	N05	E37	.600	9754	7.2	5D	-N			0910	.34	.44		174	
CATA	04	0920E	0935D	0930	N05	E44	.693	9754	7.7	15D	-F			0930	.23	.33		146	
963 CAPS	04	1201E	1218D		N17	E90	1.000	9760	11.3	17D	1N	1		1203	1.00				ACH 3
965 HUAN	04	1353E	1357D		S18	W27	.568	9749	2.6	4D	-F	2	P	1354	.41	.44			E 5
966 HUAN	04	1354	1357D		S16	E69	.946	9758	9.8	3D	-F	1	P	1356	.21				D 5
967 SACP	04	1517	1530	1520	N07	E34	.559	9754	7.2	13	-N		C		.40	.43			5
968 SACP	04	1537	1550	1540	S17	W23	.515	9749	2.9	13	-F		C		.30	.31			5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE 1968 NOV	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %		
974 HALE	05	0016	0030	0019	S01	E00	.087	9753	5.0	14	-F	1	C	0019	.36	.40				4
975 MANI	05	0018	0027	0021	S15	W38	.671	9749	2.2	9	-F	2		0021	.31	.42				3
979 CAPS	05	1420E	1431D		N21	E88	.998	9760	12.2	11D	-F	1								4
980 HUAN	05	1506	1520		S12	W10	.323	9753	4.9	14	-F	1	C	1510	.21	.21			D	4
985 HALE	05	2250	2302	2253	S19	E23	.534	9757	7.7	12	-F	1	C	2253	.31	.40			G	4
986 CRON	06	0007	0013	0009	N20	E85	.994	9760	12.4	6	-N		C		.30	1.00			E	3
987 MANI	06	0217E	0221D		S30	W45	.817	9749	2.7	4D	-F	2		0219	.41	.69				3
002 MITK	06	2257	2335	2314	N23	E90	1.000	9765	13.7	38	2N		C	2314	1.75				D	4
003 MITK	06	2342	2356	2347	S29	E41	.780	9759	10.1	14	-N		C	2347	.62	1.00			D	5
004 MITK	07	0005	0052	0033	S28	E40	.765	9759	10.0	47	-N		C	0033	.72	1.10			D	5
005 HALE	07	0027	0041	0032	S29	E41	.779	9758	10.1	14	-R	1	C	0032	.46	.70				5
006 MITK	07	0143	0149	0144	N21	E64	.902	9760	11.9	6	-R		C	0144	.72				D	4
007 HALE	07	0218	0225	0221	S29	E41	.779	9759	10.2	7	-N	1	C	0221	.46	.70			L	5
008 HALE	07	0246	0259	0249	N08	W67	.919	9747	2.1	13	-N	1	C	0249	.41				G	4
009 MITK	07	0331	0400	0337	N14	W80	.983	9761	1.1	29	1N		C	0337	1.13				EGH	7
011 MITK	07	0520	0536	0526	S29	E37	.747	9759	10.0	16	-N		C	0526	.93	1.40				3
012 MANI	07	0642	0650D	0646	N17	W31	.547	9751	5.0	8D	-F	2		0646	.21	.25				6
013 CAPS	07	0901E	0910D		S07	E90	1.000	9764	14.1	9D	-N	3		0905	.70				C	8
014 ARCE	07	1105	1108	1106	N15	W90	1.000	9761	31.7	3	-F		C	1106	.15	.90				6
015 CANR	07	1124	1128	1126	N04	W85	.996	9747	1.1	4	-F		C		.30	1.00				5
016 HTPR	07	1130	1150		S13	W38	.660	9753	4.6	20	-F		C	1135	.62	.80				5
022 MITK	07	2341E	2351	2343	S26	E15	.546	9759	9.1	10D	-F		C	2343	.52	.60			DG	4
023 MANI	07	2343	2359	2348	N20	E53	.810	9760	12.0	16	-F	2		2348	.36	.62				4
024 MITK	08	0013	0025	0023	N18	E50	.777	9760	11.8	12	-F		C	0023	.62	1.00			D	4
025 MANI	08	0111	0124	0115	N20	E50	.781	9760	11.8	13	-F	2		0115	.93	1.47				4
026 CAPE	08	0731	0805	0748	S12	W49	.779	9753	4.6	34	-F		C	0748	.88	1.40				4
027 CANR	08	1210	1222	1215	S13	E90	1.000	9764	15.3	12	-N		C		.30	1.20				5
029 HUAN	08	1351	1403D		N19	E40	.669	9760	11.6	12D	-F	2	P	1359	.58	.66			E	4
030 HUAN	08	1416E	1421		S17	W78	.984	9749	2.7	5D	-F	1	P	1418	.55				ET	4
040 MANI	09	0630E	0643	0635	N20	E34	.602	9760	11.8	13D	-F	2		0635	.72	.90				3
041 CAPE	09	0730	0738	0734	N09	W26	.445	9754	7.4	8	-N		C	0734	.88	1.00				4
042 CANR	09	0858	0902	0900	N21	E85	.995	9775	15.7	4	-N		C		.40	1.30				4
043 CANR	09	0926	0939	0929	N12	W63	.890	9751	4.7	13	-N		C		.80	1.60				3
044 HUAN	09	1104	1108		S21	W27	.589	9767	7.4	4	-F	2	C	1106	.25	.26			D	6
045 HUAN	09	1110	1119	1113	N13	W64	.898	9751	4.7	9	-F	2	C	1113	.35	.55			ET	6
046 HUAN	09	1122	1143	1127	N13	W65	.905	9751	4.6	21	-N	2	C	1127	.33	.52			E	5
047 HUAN	09	1202	1207	1203	N13	W65	.905	9751	4.6	5	-F	2	C	1203	.25	.39			D	5
049 HUAN	09	1216	1229	1220	S21	W27	.589	9767	7.5	13	-F	2	C	1220	.21	.22			D	5
050 HUAN	09	1304	1306D		S21	W27	.589	9767	7.5	2D	-F	1	P	1306	.25	.26			D	4
051 CATA	09	1350E	1355	1350	N20	W28	.528	9754	7.5	5D	-N			1350	.69	.80		178		4

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OBSERVATORY	OBSERVED UT DATE 1968 NOV	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS	
052 SANM	09	1427	1443	1437	S20	W30	.612	9767	7.4	16	-F		C	1437	.17	.20			E	4
053 SACP	09	1430	1435	1432	N21	E28	.535	9760	11.7	5	-F		C		.30	.32				5
055 SACP	09	1439	1442	1440	N21	E29	.547	9760	11.8	3	-F		C		.40	.43				4
056 HUAN	09	1451E	1453D		S21	W28	.599	9767	7.5	2D	-F	1	P	1452	.25	.26			D	5
067 HUAN	09	2035	2056D		S12	W75	.971	9753	4.2	21D	-N	1	P	2041	.41					3
072 CRON	10	0140	0150	0141	S12	W82	.992	9753	3.9	10	-N		C		.30	1.00				3
074 HALE	10	0315	0330D	0318	N07	W36	.588	9754	7.4	15D	-N	1	P	0318	.62	.80				3
078 MITK	10	0604	0613	0605	N21	E20	.442	9760	11.8	9	-F		C	0605	.83	.90			E	5
079 CANR	10	0853	0900	0856	S13	W80	.988	9753	4.4	7	-N		C		.60	2.00				7
084 HUAN	10	1401	1409		S12	W85	.997	9753	4.2	8	-F	1	C	1406	.21				DT	9
085 HUAN	10	1404	1416		S15	W38	.668	9757	7.7	12	-F	1	C	1406	.37	.42			E	9
086 HUAN	10	1505	1514		S13	W87	.999	9753	4.1	9	-F	1	C							7
090 HUAN	10	1539	1547		S13	W85	.997	9753	4.3	8	-F	2	C	1542	.25				D	7
091 HUAN	10	1735	1744		S12	W88	1.000	9753	4.1	9	-F	1	C	1738	.21				D	5
095 HALE	10	1830	1834	1832	S23	W48	.806	9767	7.2	4	-F	2	C	1832	.21	.40				4
096 HALE	10	1848	1904	1850	S24	W44	.775	9767	7.5	16	-N	2	C	1850	.31	.50				5
097 BOUL	10	1939	1956	1944	S12	W90	1.000	9753	4.1	17	1N		C		.70	2.80				3
098 HALE	10	2110	2325	2112	N19	E09	.307	9760	11.6	135	-N	2	C	2112	.93	1.00			K	3
GRP19105	11	0834	0910	0845	N20	E06	.303	9760	11.8	36	-F				.53				2 2 2	7
CAPS	11	0828	0851D		N18	E05	.267	9760	11.7	23D	-F	3		0843	.60	.60		158	F	
CATA	11	0840	0910D	0845	N21	E07	.325	9760	11.9	30D	-N			0845	.46	.49		158		
107 ARCE	11	0935E	0940D		N19	E07	.294	9760	11.9	5D	-F		C	0938	.43	.50				9
108 CATA	11	1125	1200D	1135	N18	E07	.279	9760	12.0	35D	-R			1135	.63	.66		214	Z	5
109 CATA	11	1215E	1240D	1225	N17	E07	.264	9760	12.0	25D	-N			1225	.23	.24		174		5
113 HALE	11	1757	1802	1759	N20	W01	.287	9760	11.7	5	-N	2	C	1759	.21	.20				4
120 MANI	12	0205	0226	0218	N19	W02	.274	9760	11.9	21	-F	2		0218	1.44	1.51				5
121 HALE	12	0300	0312	0303	N18	W03	.260	9760	11.9	12	-F	1	C	0303	.31	.30			J	5
122 HALE	12	0325	0332D	0326	S24	W35	.689	9759	9.5	7D	-N	1	P	0326	.21	.30				6
125 HTPR	12	1025	1055		N18	W11	.314	9760	11.6	30	-F		C	1035	.52	.50				6
126 HUAN	12	1112	1122	1114	N17	W11	.301	9760	11.6	10	-N	2	C	1114	.75	.75				5
128 HUAN	12	1347	1350		N19	W06	.290	9760	12.1	3	-F	2	C	1348	.21	.21			D	8
130 HUAN	12	1441	1455		N15	E90	1.000	9772	19.4	14	-F	1	C	1444	.31					4
133 HUAN	12	1639	1717		N18	W10	.305	9760	11.9	38	-N	1	C	1701	.50	.50			E	4
134 HALE	12	1647	1709	1648	N30	E31	.639	9765	15.0	22	-F	3	C	1648	.21	.30				4
143 MITK	13	0038	0044	0041	N22	W16	.414	9760	11.8	6	-F		C	0041	.52	.60			D	4
144 HALE	13	0236	0251	0238	S27	W48	.821	9759	9.5	15	-F	1	C	0238	.31	.50			FG	5
146 MANI	13	0335	0345	0339	N21	W15	.392	9760	12.0	10	-F	2		0339	.46	.50				4
147 MANI	13	0402	0415	0406	N17	W17	.370	9760	11.9	13	-F	2		0406	.62	.67				4
GRP19150	13	0932	0950	0940	N15	E90	1.000	9772	20.1	18	-F				.69				2 2 2	9
CANR	13	0932	0950	0937	N14	E90	1.000	9772	20.1	18	1N		C		.60	2.40				
MONT	13	0932	0949	0942	N15	E90	1.000	9772	20.1	17	-F		C	0942	.77					
151 ABST	13	1006	1007D	1006	N17	W21	.421	9760	11.8	1D	-N		P	1006	1.08	1.20			D	7

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155 HALE	13	1636E	1652	1640	N17	W25	.473	9760	11.8	16D	-N	2	P	1640	.21	.20			T	3
164 CAPS	14	1208E	1225D		S10	E07	.254	9764	15.0	17D	-F	1		1218	.50	.50				4
165 HUAN	14	1320	1324	1321	N21	W34	.611	9760	12.0	4	-F	2	C	1321	.21	.22			D	4
166 HUAN	14	1417	1422		N18	W42	.692	9760	11.4	5	-F	2	C	1419	.25	.29			D	4
179 HUAN	15	1510	1515		N19	W46	.740	9760	12.2	5	-F	2	C	1511	.21	.25			D	4
180 HUAN	15	1511	1522		N17	W54	.817	9760	11.6	11	-F	2	C	1512	.21	.26			D	4
186 HUAN	15	1938	1946D		N11	W51	.779	9760	12.0	8D	-N	1	P	1943	.50	.59				3
190 HALE	15	2248	2304	2251	N21	W52	.806	9760	12.1	16	-F	2	C	2251	.46	.80				4
193 MANI	16	0838E	0853D	0838	N10	E46	.722	9772	19.8	15D	-F	1		0838	.83	1.22				4
194 CATA	16	0930E	0945D	0935	N12	E47	.737	9772	19.9	15D	-B			0935	.34	.51		211		5
195 CATA	16	1115E	1120D	1115	N24	W59	.872	9760	12.0	5D	-B			1115	.52	1.08		214		4
200 HUAN	16	1401	1412	1403	N17	W60	.871	9760	12.1	11	-F	2	C	1403	.35	.53			D	4
201 HUAN	16	1455	1503		N21	W62	.891	9760	12.0	8	-F	1	C	1458	.50	.71			E	4
203 HUAN	16	1540	1549		N16	W61	.878	9760	12.1	9	-N	1	C	1543	.76	1.15			E	3
GRP19209	17	0039	0103	0048	N21	W67	.925	9760	12.0	24	-N				.57				2 2 2	6
MITK	17	0037	0105	0052	N21	W68	.931	9760	11.9	28	-N		C	0052	.62				D	
HALE	17	0040	0101	0043	N21	W66	.918	9760	12.1	21	-N	1	C	0043	.52				KH	
GRP19210	17	0102	0121	0105	N10	E19	.346	9772	18.5	19	-F				.60				2 2 2	6
HALE	17	0101	0123	0105	N10	E18	.331	9772	18.4	22	-N	1	C	0105	.57	.60			F	
MANI	17	0102	0119	0104	N09	E19	.341	9772	18.5	17	-F	2		0104	.62	.65				
213 HALE	17	0224	0232	0226	N12	E32	.545	9772	19.5	8	-B	1	C	0226	.31	.40				7
217 CAPS	17	1024E	1039D		N21	W70	.942	9760	12.2	15D	-N	1		1030	.50					3
219 SACP	17	1423	1425	1423	N20	W74	.962	9760	12.0	2	-N		C		.30	.65				4
220 HUAN	17	1511	1534		N21	W75	.966	9760	12.0	23	-F	1	C	1518	.50					4
221 HUAN	17	1625	1629		N21	W76	.970	9760	12.0	4	-F	1	C	1626	.31				D	4
223 HUAN	17	1717	1725		N21	W76	.970	9760	12.0	8	-F	1	C							4
224 HUAN	17	1745	1802		N12	E28	.489	9772	19.8	17	-F	2	C	1750	.45	.46				4
228 HALE	17	2124	2130	2126	N10	E09	.201	9772	18.6	6	-F	1	C	2126	.72	.70			FHJ	4
232 HALE	18	0004E	0010		N10	E08	.189	9772	18.6	6D	-F	2	P	0004	.41	.40			B	6
233 HALE	18	0033	0050	0036	N21	W79	.981	9760	12.1	17	-N	2	C	0036	.31					6
234 HALE	18	0056	0109	0102	N13	E22	.409	9772	19.7	13	-N	2	C	0102	.41	.50				5
236 HALE	18	0252	0257	0253	N17	W79	.981	9760	12.2	5	-F	2	C	0253	.41					7
GRP19237	18	0305	0312	0306	N13	E22	.409	9772	19.8	7	-B				.41				1 1 1	6
HALE	18	0305	0311	0306	N13	E21	.395	9772	19.7	6	-B	2	C	0306	.41	.40				
HALE	18	0306	0312	0308	N14	E24	.444	9772	19.9	6	-N	2	C	0308	.10	.10			D	
238 MANI	18	0400	0409	0404	N21	W80	.984	9760	12.2	9	-N	2		0404	.77	1.90				5
239 MANI	18	0422	0434	0426	S12	E90	1.000	9780	24.9	12	1N	2		0426	.72	2.34				6
240 MANI	18	0426	0448	0431	N21	W80	.984	9760	12.2	22	1F	2		0431	.93	3.24				5
241 MANI	18	0442	0455	0444	N12	E22	.403	9772	19.8	13	-N	2		0444	.41	.45				5
242 MANI	18	0528	0541	0534	N08	E05	.129	9772	18.6	13	-F	2		0534	.88	.87				6
243 MANI	18	0542	0601	0545	N12	E22	.403	9772	19.9	19	-F	2		0545	.83	.89				6
247 CANR	18	1038E	1047	1039U	S26	E90	1.000	9780	25.2	9D	-N		C		.30	1.20				5
249 HUAN	18	1604E	1611D		N20	W90	1.000	9760	11.9	7D	-F	1	P	1605	.25				DT	4

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251 HUAN	18	1631	1646D		N17	W37	.631	9775	15.9	15D	-N	1	P	1642	.50	.55			E 4
253 BOUL	18	1825	1842	1828	N17	W38	.643	9775	15.9	17	-N		C		.80	1.00			3
254 SACP	18	1825	1845	1833	N18	W56	.839	9765	14.6	20	-N	8	C		.99	1.38			3
255 HOUT	18	1830	1838	1833	S14	E55	.838	9777	22.9	8	-N		C		.80	1.40			3
256 BOUL	18	1849	1857	1852	N18	W57	.847	9765	14.5	8	-N		C		1.00	1.80			E 3
257 HOUT	18	1855	1859	1856	N19	W85	.995	9760	12.4	4	-N		C		.40	1.30			3
258 HUAN	18	2008E	2043		N17	W40	.667	9775	15.8	35D	-F	2	C	2010	.75	.85			5
259 HUAN	18	2020	2041		N19	W58	.857	9765	14.5	21	-F	2	C	2033	.25	.35			D 5
260 HUAN	18	2023	2038		N21	W90	1.000	9760	12.1	15	-F	2	C	2027	.31				5
261 HUAN	18	2049	2106D		N17	W40	.667	9775	15.9	17D	-N	1	P	2101	.72	.82			E 6
GRP19263	18	2311	2321	2312	N20	W90	1.000	9760	12.2	10	-B				.26				2 2 2 4
SACP	18	2311	2320	2312	N20	W91	1.000	9760	12.1	9	-B		C		.20				
HALE	18	2315E	2321		N20	W89	1.000	9760	12.3	6D	1B	2	P	2315	.31				
265 HALE	19	0006	0030	0010	N19	W59	.866	9765	14.6	24	-N	1	P	0010	.41	.80			5
266 HALE	19	0048	0118	0051	S14	W54	.829	9764	15.0	30	-N	1	C	0051	.31	.60			K 5
267 HALE	19	0105	0125	0108	N17	E07	.278	9772	19.6	20	-F	1	C	0108	.21	.20			4
269 HALE	19	0241	0246	0242	N15	E09	.266	9772	19.8	5	-F	2	C	0242	.41	.40			5
270 HALE	19	0301	0308	0303	N36	W42	.780	9775	16.0	7	-F	2	C	0303	.21	.30			4
271 HALE	19	0320	0330D	0324	N10	E09	.203	9772	19.8	10D	-F	2	P	0324	.26	.30			3
276 SACP	19	1442	1503	1447	N18	W68	.929	9765	14.5	21	-F		C		.79	1.45			6
277 HUAN	19	1443	1447	1444	N17	W50	.779	9775	15.9	4	-F	2	C	1444	.37	.47			E 7
278 HUAN	19	1747	1755		S22	E67	.938	9780	24.8	8	-F	1	C	1750	.25				D 4
279 HUAN	19	1801	1805	1802	S16	E70	.948	9780	25.0	4	-F	2	C	1802	.21				D 4
280 HUAN	19	1831	1842		S22	E67	.938	9780	24.8	11	-F	1	C	1835	.31				D 4
281 HUAN	19	1842	1846		S16	E69	.943	9780	25.0	4	-F	1	C	1844	.25				D 5
283 HALE	19	2159	2229	2204	S20	E64	.918	9780	24.7	30	-F	1	C	2204	.21				KJF 4
284 HALE	20	0025	0033	0030	S15	E64	.911	9780	24.8	8	-F	2	C	0030	.31				6
286 HALE	20	0323	0329D	0325	N12	W10	.240	9772	19.4	6D	-F	1	P	0325	.36	.40			4
287 ISTA	20	0925	0936		N07	W56	.829	9768	16.2	11	-F	8							8
289 HTPR	20	0950	0955	0952	N10	W08	.192	9772	19.8	5	-F		C	0952	.21	.20			7
292 HOUT	20	1525	1537	1527	S14	E59	.872	9780	25.1	12	-F		C		1.00	2.00			6
294 HALE	20	1710	1722	1712	N16	W12	.311	9772	19.8	12	-F	1	C	1712	.41	.40			6
295 HALE	20	1721	1728	1722	N10	W29	.497	9772	18.5	7	-F	2	C	1722	.26	.30			HV 6
296 HUAN	20	1729	1734		S15	E58	.865	9780	25.1	5	-F	2	C	1730	.21	.30			D 6
297 SACP	20	1737	1740	1738	S16	E56	.850	9780	24.9	3	-F		C		.30	.43			4
305 HALE	21	0031	0048	0039	S16	E52	.814	9780	24.9	17	-N	2	C	0039	.83	1.40			F 3
307 HALE	21	0125	0143	0126	S16	E52	.814	9780	25.0	18	-F	2	C	0126	.41	.70			4
309 CAPE	21	0755	0800	0757	S12	E51	.794	9780	25.2	5	-F		C	0757	.92	1.50			V 9
310 CATA	21	0925	0935	0930	S19	E46	.765	9780	24.8	10	-N			0930	.34	.55		188	8
311 CATA	21	1020	1040D	1030	S22	E71	.958	9783	26.8	20D	-N			1030	.40			191	T 8
312 CATA	21	1220E	1255D	1220	S22	E70	.953	9783	26.8	35D	-N			1220	.52			191	T 7

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GRP19313	21	1249	1305	1251	N15	W22	.426	9772	19.9	16	-N				.77				2 2 2 9
CAPE	21	1248	1305	1251	N10	W22	.394	9772	19.9	17	-F		C	1251	.84	.90			
CATA	21	1250	1255D	1250	N20	W22	.468	9772	19.9	5D	-R			1250	.69	.76		229	
314 HUAN	21	1306	1315	1308	S18	E47	.771	9780	25.1	9	-F	1	C	1308	.31	.39			D 7
315 HUAN	21	1334	1346	1337	N11	W24	.429	9772	19.8	12	-F	2	C	1337	.37	.37			E 7
316 HUAN	21	1449	1456	1450	N17	W27	.506	9772	19.6	7	-F	2	C	1450	.25	.26			D 7
323 HTPR	22	0743	0755	0745	N15	W35	.600	9772	19.7	12	-F		C	0745	.41	.50			4
332 CAPS	23	0806	0850D		S05	E55	.823	9785	27.5	44D	-N	3		0814	.30	.50		170	DH 5
334 CATA	23	1045E	1130	1055	S12	E24	.463	9780	25.2	45D	-N			1055	.23	.26		186	3
GRP19335	23	1110	1130	1115	S13	E23	.458	9780	25.2	20	-N				.17				1 1 1 4
CATA	23	1110	1125	1115	S15	E21	.451	9780	25.0	15	-N			1115	.17	.20		178	
CATA	23	1110	1130	1115	S12	E25	.477	9780	25.3	20	-N			1115	.14	.16		164	
337 CATA	23	1205	1220	1210	S10	E51	.790	9785	27.3	15	-R			1210	.23	.38		240	Z 4
GRP19340	23	1418	1429	1425	S09	E50	.777	9785	27.3	11	-N				.31				2 2 2 9
SACP	23	1418	1427	1424	S07	E50	.774	9785	27.3	9	-N		C		.39	.50			
CATA	23	1420E	1430D	1425	S10	E50	.779	9785	27.3	10D	-N			1425	.23	.37		191	Z
344 HUAN	23	2133	2145D		S07	E47	.740	9785	27.4	12D	-N	1	P	2140	.62	.75			E 4
345 HUAN	23	2135	2145D		N11	W56	.832	9772	19.7	10D	-F	1	C	2137	.43	.59			E 4
346 HALE	23	2241E	2246		S07	E45	.717	9785	27.3	5D	-F	2	P	2241	.36	.50			3
350 HALE	24	0047	0054	0048	S14	E14	.359	9780	25.1	7	-F	1	C	0048	.31	.30			4
351 HALE	24	0241	0259	0242	S17	E16	.415	9780	25.3	18	-F	2	C	0242	.41	.50			HV 4
353 CATA	24	0850	0855D	0850	S10	E40	.663	9785	27.4	5D	-N			0850	.23	.31		174	Z 4
356 HUAN	24	1344	1433		S21	E04	.393	9780	24.9	49	-N	1	C	1403	.31	.31			DH 5
360 MCMA	24	1804	1804D		S18	E05	.348	9780	25.1		-F		V						4
361 SACP	24	1820	1849	1830	S12	E07	.266	9780	25.3	29	-N		C		.69	.68			4
365 HALE	25	0210	0216	0213	S16	E06	.319	9780	25.5	6	-F	1	C	0213	.52	.50			5
368 MANI	25	0441	0450D	0443	S19	W01	.353	9780	25.1	9D	-F	2		0443	.93	.99			3
369 MANI	25	0556	0601D	0558	S09	E28	.498	9785	27.3	5D	-F	2		0558	.52	.56			4
GRP19370	25	0810	0830	0830	S08	E26	.464	9785	27.3	20	-F				1.44				2 1 1 9
HTPR	25	0810	0830D	0830	S08	E26	.464	9785	27.3	20D	-F		C	0830	1.44	1.50			
MANI	25	0811	0835D	0819	S08	E27	.479	9785	27.4	24D	-F	2		0819	.72	.79			
371 CAPS	25	0847E	0910D		S09	E25	.455	9785	27.2	23D	-N	3		0856	.80	.90		182	J 5
372 CATA	25	1035E	1130	1055	S07	E27	.474	9785	27.5	55D	-N			1055	.29	.33		169	6
373 HUAN	25	1217	1225		S08	E22	.406	9785	27.2	8	-F	2	C	1219	.31	.31			ET 7
375 HUAN	25	1328	1338		S08	E22	.406	9785	27.2	10	-F	2	C	1330	.31	.31			E 9
376 HUAN	25	1425	1438		S08	E22	.406	9785	27.3	13	-F	1	C	1432	.25	.25			D 7
379 MITK	26	0447	0458	0448	S08	E13	.277	9785	27.2	11	-N		C	0448	1.24	1.30			E 5
380 WEND	26	1000	1021		S10	E12	.286	9785	27.3	21	1F		V		3.09				12
382 HTPR	26	1130	1148	1134	S12	W16	.356	9780	25.3	18	-N		C	1134	.31	.30			5
GRP19383	26	1234	1247	1238	S10	E10	.263	9785	27.3	13	-F				.82				2 2 2 6
CAPS	26	1233	1249D		S11	E09	.266	9785	27.2	16D	-N	3		1239	.80	.80		176	J
HTPR	26	1235	1245	1238	S09	E10	.250	9785	27.3	10	-F		C	1238	.83	.80			
GRP19384	26	1253	1315	1255	S10	E11	.274	9785	27.4	22	-N				.81				2 2 2 6
HTPR	26	1250	1315	1255	S09	E12	.275	9785	27.4	25	-N		C	1255	.62	.60			
CAPS	26	1255	1315D		S11	E09	.266	9785	27.2	20D	-N	3		1258	1.00	1.00		196	J
386 CANR	26	1359	1424	1401	S21	W77	.980	9778	20.8	25	-F		C		.40	1.20			H 9

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Unconfirmed
NOVEMBER 1968

OBSERVATORY	OBSERVED UT DATE 1968 NOV	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
394 HALE	26	2333	0002D	2343	S18	W18	.444	9780	25.6	29D	-N	1	C	2343	.41	.50			4
395 HALE	27	0005E	0015D	0009	S20	W21	.496	9780	25.4	10D	-F	2	P	0009	.52	.60			FI 4
396 CRON	27	0401	0410	0403	S15	W32	.583	9780	24.8	9	-F		C		1.40	1.70			E 5
GRP19397	27	0828	0847	0835	S22	W88	1.000	9777	20.8	19	-N				.25				4 3 3 12
MONT	27	0808E	0829	0814	S23	W90	1.000	9777	20.6	21D	-F		C	0814	.26				
HTPR	27	0825	0845	0829	S25	W85	.998	9777	21.0	20	-F		C	0829	.31				
ARCE	27	0830	0845		S22	W90	1.000	9777	20.6	15	1N		C	0830	.22	1.20			
CATA	27	0835E	0850	0840	S19	W90	1.000	9777	20.6	15D	-N			0840	.23			155	
399 CATA	27	1237E	1245D	1237	S17	W33	.607	9780	25.1	8D	-R			1237	.58	.73		204	8
400 MONT	27	1424	1437	1427	S23	W90	1.000	9778	20.9	13	-F		C	1427	.10				8
401 MCMA	27	1440	1456		S17	W34	.619	9780	25.1	16	-N		V						7
402 HALE	27	1742	1805	1744	S04	E15	.275	9789	28.9	23	-F	3	C	1744	.15	.20			G 4
408 MANI	28	0048	0058	0051	S18	W37	.659	9780	25.3	10	-F	2		0051	.83	1.10			3
GRP19409	28	0837	0844	0840	S14	W43	.710	9780	25.1	7	-F				.39				2 2 2 8
MANI	28	0836	0845	0839	S15	W42	.702	9780	25.2	9	-F	1		0839	.52	.72			
MONT	28	0838	0842	0840	S13	W43	.707	9780	25.1	4	-F		C	0840	.26				
410 HUAN	28	1501	1510D		S07	W16	.309	9785	27.4	9D	-F	1	P	1507	.41	.41			E 6
411 CAPE	28	1548	1558D	1555	S13	W54	.823	9780	24.6	10D	1F		P	1555	1.43	2.50			F 4
413 HALE	28	1716	1723	1719	S08	E35	.589	9793	1.3	7	-N	2	C	1719	.15	.20			4
417 MITK	29	0253	0305	0256	S09	W28	.495	9785	27.0	12	-R		C	0256	.93	1.10			E 4
422 CULG	30	0325	0410	0340	N13	E80	.985	9798	6.1	45	1N		C	0340	.72				JKT 5
424 HUAN	30	1236	1255		N13	E71	.947	9798	5.8	19	-F	1	C	1241	.31				6
425 HUAN	30	1402E	1430D		S13	E63	.899	9797	5.3	28D	-F	1	C	1414	.37	.59			4
426 HUAN	30	1501	1537		N12	E70	.941	9798	5.9	36	-N	1	C	1524	.52				3
429 MCMA	30	1640	1647		S09	E08	.222	9793	1.3	7	-R		V						3
432 MANI	30	2344E	2352	2344	N13	E66	.916	9798	5.9	8D	-F	2		2344	.93	1.89			3

"Remarks":
A = Eruptive prominence, base at >90°.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No spots visible in the neighborhood.
H = Flare with high velocity dark surge.
I = Very extensive active region.
J = Plage with flare shows marked intensity variations.
K = Several intensity maxima.
L = Filaments show effects of sudden activation.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H or K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line.
S = Brightening follows disappearance of filament (same position).
T = Region active all day.
U = Close and somewhat parallel bright filaments (|| or Y shape).
V = Occurrence of an explosive phase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα emission.
Y = Onset of a system of loop-type prominences.
Z = Major sunspot umbra covered by flare.