SOLAR FLARES
Confirmed
JUNE 1969

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23336	01	1825	1843	1826	N07	W05	.159	10116	1.4	18	--N				.66				3 3 3 5
MCMA	01	1825E	1829D	1826	N07	W04	.151	10116	1.5	40	-F		C	1826	.36	.40			EH
HALE	01	1825	1851	1826	N08	W05	.174	10116	1.4	26	-N	3	C	1826	.88	.90			H
SACP	01	1825	1834	1826	N07	W05	.159	10116	1.4	9	-N		C		.73	.72			
338 HALE	01	2310	2333	2315	N13	E90	1.000	10130	8.7	23	1N	2	C	2315	.67				2
GRP23339	02	0012	0023	0016	N12	E86	.998	10130	8.5	11	-F				.21				2 2 2 5
HALE	02	0010	0023	0014	N13	E90	1.000	10130	8.8	13	-N	2	C	0014	.15				
MANI	02	0013	0023	0017	N11	E82	.991	10130	8.2	10	-F	1		0017	.26	.72			
GRP23345	02	1414	1431	1416	S16	E53	.814	10128	6.6	17	-N				1.17				4 4 4 6
ABST	02	1413E	1430D	1416	S16	E54	.823	10128	6.6	17D	1F		P	1416	1.80	3.10		52	E
SANM	02	1413	1436	1416	S16	E52	.804	10128	6.5	23	1N		C		1.29	2.14			E
CANR	02	1414	1429	1416	S18	E52	.808	10128	6.5	15	-N		C		.60	1.00			
CAPS	02	1416	1430		S15	E54	.821	10128	6.6	14	-N	3	P	1419	1.00	1.70		170	
350 HALE	02	1922	1941	1925	N02	E31	.517	10128	5.1	19	--N	2	C	1925	.31	.40			G 2
351 HALE	02	2018	2026	2022	S12	E79	.982	10131	8.8	8	--B	2	C	2022	.10				3
352 HALE	02	2058	2113	2102	N14	E74	.964	10130	8.4	15	--B	2	C	2102	.15				1
	02	2123	2130	NO FLARE PATROL															
	02	2123	2130	NO FLARE PATROL															
	02	2204	2212	NO FLARE PATROL															
	02	2204	2212	NO FLARE PATROL															
353 HALE	03	0252	0318	0304	S16	E81	.988	10131	9.2	26	1N	3	C	0304	1.34				3
GRP23355	03	0714	0727	0717	N06	E79	.982	10134	9.2	13	1N				.94				3 3 3 7
CRON	03	0712	0725	0715	N05	E78	.978	10134	9.2	13	1N		C		1.10	3.30			
MANI	03	0713E	0728D		N05	E79	.982	10134	9.2	15D	1F	2		0717	1.24	3.12			
ARCE	03	0717	0727	0719	N07	E80	.985	10134	9.3	10	-N		C	0719	.48	1.50			I
GRP23360	03	1121	1144	1130	N07	E89	1.000	10134	10.1	23	-N				1.61				2 2 2 4
MONT	03	1121	1142	1129	N07	E88	.999	10134	10.1	21	-N		C	1129	2.06				
CATA	03	1125E	1145D	1130	N06	E90	1.000	10134	10.2	20D	1N			1130	1.16			158	
GRP23361	03	1138	1154	1142	N12	E90	1.000	10134	10.2	16	-N				.40				3 3 2 4
HTPR	03	1100	1200		N10	E90	1.000	10134	10.2	60	-N		C						
CATA	03	1135	1145D	1140	N12	E90	1.000	10134	10.2	10D	-N			1140	.34			170	
MONT	03	1141	1148	1143	N13	E90	1.000	10134	10.2	7	-N		C	1143	.46				
362 HTPR	03	1358	1435		S15	E90	1.000	10135	10.3	37	-N		C						2
363 HTPR	03	1405	1420		N10	E90	1.000	10134	10.3	15	--F		C						2
GRP23364	03	1519	1539	1530	N12	E90	1.000	10134	10.4	20	--F				.26				2 2 1 4
HTPR	03	1510	1545		N10	E90	1.000	10134	10.4	35	-F		C						
MONT	03	1527	1533	1530	N13	E90	1.000	10134	10.4	6	-N		C	1530	.26				
365 CANR	03	1840	1850	1843	N14	E57	.850	10130	8.1	10	-N		C		.80	1.40			2
366 HALE	03	2145	2202D	2147	N08	E62	.886	10130	8.6	17D	-N	3	P	2147	.77	1.70			1
	03	2203	2221	NO FLARE PATROL															
	03	2203	2221	NO FLARE PATROL															
GRP23367	03	2319	2351	2330	N13	E58	.857	10130	8.3	32	-F				1.14				2 2 2 2
HALE	03	2315	2358D	2330	N13	E57	.849	10130	8.2	43D	1F	3	P	2330	1.44	2.70			
MANI	03	2323	2344	2329	N13	E59	.866	10130	8.4	21	-F	2		2329	.83	1.45			
GRP23376	04	0624	0645	0632	N14	E90	1.000	10134	11.0	21	-N				.72				2 2 1 5
MEUD	04	0624E	0634		N15	E90	1.000	10134	11.0	10D	-N		C	0630	.72				E
ISTA	04	0624	0655	0632	N13	E90	1.000	10134	11.0	31	-N								
GRP23377	04	0636	0657	0649	N17	E90	1.000	10134	11.0	21	-B				.71				3 2 2 6
ABST	04	0622	0700	0648	N05	E90	1.000	10134	11.0	38	1B		C	0648	1.35			82	AD
MEUD	04	0636	0654		N16	E90	1.000	10134	11.0	18	-N		C	0648	.62				K
CATA	04	0650E	0700	0650	N17	E90	1.000	10134	11.0	10D	1B			0650	.80			237	
379 CANR	04	1029	1037	1030	N09	E54	.815	10130	8.5	8	1B		C		2.10	3.60			4

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
	1969 JUNE																		
GRP23381	04	1108	1116	1108	N12	E82	.991	10134	10.6	8	--F				.35				3 3 2 5
MEUD	04	1107	1114		N12	E82	.991	10134	10.6	7	-F		C	1108	.36				D
CATA	04	1108E	1115D	1108	N10	E85	.996	10134	10.8	7D	-N			1108	.34			191	
HTPR	04	1110	1119		N15	E80	.986	10134	10.5	9	-F		C						
GRP23389	04	1633	1638	1635	N16	E90	1.000	10134	11.4	5	-N				.30				2 2 1 5
CANR	04	1633	1637	1635	N15	E90	1.000	10134	11.4	4	-N		C		.30	1.20			
MCMA	04	1635E	1638D		N16	E89	1.000	10134	11.4	3D	-N		C	1635					D
392 HALE	04	2124	2136	2125	N03	E64	.899	10134	9.7	12	--B	2	C	2125	.31				1
393 HALE	04	2149E	2215	2151	S12	E69	.936	10135	10.1	26D	--N	2	P	2151	.41				1
GRP23394	05	0222	0239	0225	N17	E79	.983	10134	11.0	17	-B				.68				2 2 2 5
MANI	05	0221E	0240	0225	N16	E80	.986	10134	11.1	19D	-N	2		0225	.52	1.30			
HALE	05	0222	0237	0224	N18	E78	.980	10134	10.9	15	1B	2	C	0224	.83				
GRP23395	05	0247	0258	0253	N17	E78	.980	10134	11.0	11	1N				.89				3 3 3 5
HALE	05	0246	0300	0253	N18	E78	.980	10134	11.0	14	1B	2	C	0253	.93				
CULG	05	0246	0257D	0253	N17	E77	.977	10134	10.9	11D	1N		P	0253	.93				
CRON	05	0248	0257	0252	N17	E80	.986	10134	11.1	9	1N		C		.80	2.40			
GRP23396	05	0334	0406	0341	N08	E43	.690	10130	8.4	32	-N				.81				3 3 3 5
HALE	05	0330	0415	0341	N08	E42	.678	10130	8.3	45	-B	2	C	0341	.88	1.20			F
TACH	05	0338	0356	0340	N09	E44	.704	10130	8.5	18	-N		C	0340	.73	1.00	2.20	63	E
MANI	05	0339E	0344D	0343	N07	E43	.688	10130	8.4	5D	-N	2		0343	.83	.96			
GRP23401	05	0754	0813	0800	N07	E40	.650	10130	8.3	19	1N				1.63				9 9 7 11
ARCE	05	0750	0801D	0801	N06	E42	.674	10130	8.5	11D	1F		C	0801	2.28	3.00			E
MANI	05	0753	0815	0759	N07	E40	.650	10130	8.3	22	-N	2		0759	.93	1.22			
ISTA	05	0753	0820	0800	N10	E42	.682	10130	8.5	27	-N								
ABST	05	0754	0823	0759	N07	E40	.650	10130	8.3	29	1F		C	0759	3.16	4.20		53	F
CAPS	05	0754E	0810D		N06	E38	.622	10130	8.2	16D	1N	1	S						
CAPE	05	0755	0810	0800	N08	E41	.665	10130	8.4	15	-N		C	0800	.92	1.20			F
CRON	05	0756	0807	0800	N07	E40	.650	10130	8.3	11	1N		C		1.80	2.30			E
CANR	05	0756	0810	0800	N08	E41	.665	10130	8.4	14	1N		C		2.00	2.70			E
ISTA	05	0756	0816		N09	E40	.655	10130	8.3	20	-N								
ISTA	05	0759	0814		N12	E36	.612	10130	8.0	15	-N								
CATA	05	0800E	0805D	0800	N08	E41	.665	10130	8.4	5D	-N			0800	.29	.39		168	
GRP23402	05	0953	1051	1007	N12	E63	.896	10134	10.1	58	3B				6.96				6 5 5 6
CAPS	05	0937E	1100D		N11	E64	.903	10134	10.2	83D	3B	1	P	1010	7.00	14.00		460	FHW
HTPR	05	0950	1045	1009	N10	E60	.871	10134	9.9	55	2B		C	1009	4.74	9.20			
CANR	05	0954	1050	1001	N13	E64	.905	10134	10.2	56	3B		C		7.10	14.80			EKL
CAPE	05	0955	1050	1012	N12	E65	.911	10134	10.3	55	2B		C	1012	4.42	1.07			10 0
CAPE	05	0955	1050	1012	N12	E65	.911	10134	10.3	55	2B		C	1012	4.42	1.07			
CAPF	05	1010E	1200D		N12	E64	.904	10134	10.2	110D	3B		C	1015	11.55				H
UCCL	05	1032E	1052D		N13	E65	.912	10134	10.3	20D	2B		P	1032	3.09				E
GRP23405	05	1248	1259	1251	N11	E83	.993	10134	11.8	11	-N				.70				2 2 1 2
BOUL	05	1248	1301	1251	N12	E80	.986	10134	11.5	13	-N		V						
CANR	05	1248	1256	1251	N09	E85	.996	10134	11.9	8	1N		C		.70	2.30			
406 BOUL	05	1314	1324	1316	N15	E35	.613	10130	8.2	10	--F		V						2
GRP23409	05	1412	1434	1418	N18	E75	.970	10134	11.2	22	-N				.72				2 2 1 3
MEUD	05	1412	1425		N17	E73	.960	10134	11.1	13	-N		C	1415	.72				Z
BOUL	05	1414E	1442D	1418	N18	E77	.977	10134	11.4	28D	-N		V						
7 STATIONS REPORTING GROUP 23410. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23410	05	1446	1627	1456	N10	E57	.844	10134	9.9	101	2B				8.07				4 4 2 5
BOUL	05	1442E	1653D	1458	N11	E53	.807	10134	9.6	131D	2B		V						
NERA	05	1447E	1511D		N10	E65	.910	10134	10.5	24D	2N	2							
CANR	05	1450	1600	1453	N09	E56	.834	10134	9.8	70	3N		C		8.50	14.50			EK
CAPF	05	1453E	1535D		N08	E53	.803	10134	9.6	42D	3B		P	1458	7.63	14.06			H
23410	05	1445	1545	1506	N10	E53	.806	10134	9.6	60	*3B				9.30				2 2 2 4
BOUL	05	1427E	1445	1427	N09	E51	.784	10134	9.4	18D	-F		V						
CAPS	05	1445E	1535D		N11	E53	.807	10134	9.6	50D	3B	1	P	1514	8.00	12.80		266	CFIW
BOUL	05	1455U	1545U	1506U	N09	E53	.805	10134	9.6	50D	3B		C		10.60	18.00			E
23410	05	1543	1808	1557	N08	E53	.803	10134	9.6	145	*2B				6.19				2 2 2 4
HALE	05	1543E	1808	1557	N08	E53	.803	10134	9.6	145D	2B	2	P	1557	7.22	12.10			FIU
MEUD	05	1605E	1614D		N08	E53	.803	10134	9.6	9D	2N		C	1606	5.16	8.00			U
MEUD	05	1636E	1703D		N08	E53	.803	10134	9.7	27D	2F		C	1636	3.61	6.00			U
412 HALE	05	1730	1742	1734	N13	E68	.931	10134	10.8	12	--F	2	C	1734	.57				3
413 HALE	05	1755	1803	1757	S22	E70	.948	10135	11.0	8	--F	2	C	1757	.31				3

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23414	05	1826	1843	1830	N13	E66	.918	10134	10.7	17	-N				.81				3 3 2 3
HALE	05	1824	1840	1825	N13	E68	.931	10134	10.9	16	-F	2	C	1825	.41				KW
BOUL	05	1824	1849	1832	N13	E61	.882	10134	10.3	25	-N		V						
CANR	05	1830	1840	1833	N12	E68	.931	10134	10.9	10	1N		C		1.20	2.60			
GRP23416	05	1925	1940	1926	N13	E65	.912	10134	10.7	15	--N				.31				2 2 1 2
HALE	05	1924	1952	1926	N11	E66	.917	10134	10.8	28	-N	2	C	1926	.31				FK
BOUL	05	1925	1928	1926	N14	E64	.905	10134	10.6	3	-N		V						
GRP23417	05	2048	2056	2050	S12	E65	.910	10135	10.7	8	--F				.53				2 1 1 3
SACP	05	2048E	2056	2050	S12	E65	.910	10135	10.7	8D	-F		C		.53	.88			
HALE	05	2050	2102	2052	S14	E55	.830	10135	10.0	12	-N	2	C	2052	.41	.70			
GRP23418	05	2121	2136	2127	N10	E73	.958	10134	11.4	15	-N				.39				2 2 2 2
HALE	05	2121	2138	2125	N10	E73	.958	10134	11.4	17	-N	1	C	2125	.36				
SACP	05	2128E	2134	2128E	N10	E72	.953	10134	11.3	6D	-N	8	C		.42	.85			
GRP23419	05	2127	2154	2136	S13	E58	.856	10135	10.2	27	-N				.99				3 3 2 3
HALE	05	2124	2200	2138	S14	E57	.848	10135	10.2	36	1B	1	C	2138	1.24	2.40			F
SACP	05	2129	2147	2133	S13	E58	.856	10135	10.2	18	-N		C		.73	1.07			
BOUL	05	2134E	2140D	2136	S13	E60	.873	10135	10.4	6D	-N		S						
421 HALE	05	2137	2158	2141	N08	E28	.486	10130	8.0	21	--F	1	C	2141	.57	.60			2
GRP23422	05	2301	0000	2314	N11	E40	.660	10130	9.0	59	--F				1.08				2 2 2 4
HALE	05	2301	0000	2309	N10	E40	.657	10130	9.0	59	-F	2	C	2309	.98	1.30			F
SACP	05	2314E	2339D	2318	N11	E40	.660	10130	9.0	25D	-N		C		1.17	1.31			
GRP23423	05	2311	2359	2324	S13	E60	.873	10135	10.5	48	1N				3.27				3 3 3 3
HALE	05	2308	0012	2323	S13	E61	.881	10135	10.5	64	3B	2	C	2323	8.04	17.20			FU
SACP	05	2312E	2339D	2325U	S13	E58	.856	10135	10.3	27D	-N		C		1.05	1.54			
MANI	05	2313	2345	2324	S14	E60	.874	10135	10.5	32	-N	1		2324	.72	1.27			
GRP23424	06	0047	0143	0100	S16	E59	.869	10135	10.5	56	-N				1.07				3 3 3 4
HALE	06	0046	0233	0100	S15	E59	.867	10135	10.5	107	1N	1	C	0100	1.44	2.90			
SACP	06	0047	0148	0101	S15	E58	.859	10135	10.4	61	-N		C		.94	1.37			
MANI	06	0054E	0137	0058	S17	E60	.878	10135	10.5	43D	-F	2		0058	.83	1.50			
GRP23425	06	0156	0218	0200	N05	E42	.672	10134	9.2	22	-N				1.15				3 3 3 4
HALE	06	0154	0222	0157	N06	E41	.661	10134	9.2	28	-N	2	C	0157	1.13	1.50			F
CRON	06	0157	0210	0200	N04	E41	.658	10134	9.2	13	1N	8	C		1.80	2.30			E
MANI	06	0158	0222	0202	N04	E43	.684	10134	9.3	24	-F	2		0202	.52	.71			
12 STATIONS REPORTING GROUP 23426. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23426	06	0628	0710	0642	S15	E55	.832	10135	10.4	42	1N				4.70				8 7 6 9
CULG	06	0559E	0654D	0634	S16	E55	.834	10135	10.4	55D	2B		P	0634	5.16	9.08			T
CRIM	06	0604E	0902	0637	S15	E55	.832	10135	10.4	178D	2F		P	0637	6.76	12.30			E
CRON	06	0625	0700	0636	S16	E57	.852	10135	10.5	35	2B		C		5.80	10.20			EI
ISTA	06	0630	0708	0643	S14	E54	.821	10135	10.3	38	-N								
HTPR	06	0632	0700	0637	S14	E53	.812	10135	10.2	28	1N		C	0637	2.06	3.80			
MEUD	06	0633	0728D		S15	E54	.823	10135	10.3	55D	1N		C	0640	2.58	3.20			
ARCE	06	0635E	0715D	0646	S15	E54	.823	10135	10.3	40D	2B		C	0646	5.86	9.90			E
CATA	06	0700E	0705D	0700	S14	E53	.812	10135	10.3	5D	-N			0700	.75	1.31		174	
23426	06	0448	0534	0508	S17	E56	.845	10135	10.4	46	*1N				2.62				5 5 5 6
TACH	06	0432	0526	0512	S16	E57	.852	10135	10.5	54	2F		V	0511	5.47	10.00	2.90	66	EL
MANI	06	0444E	0550	0503	S16	E55	.834	10135	10.3	66D	1N	2		0503	1.30	2.35			
CRON	06	0452	0520	0502	S18	E57	.855	10135	10.5	28	1N		C		2.40	4.30			EI
HTPR	06	0504	0525	0513	S17	E55	.836	10135	10.3	21	-N		C	0513	.83	1.50			
CULG	06	0511E	0550D	0511	S16	E55	.834	10135	10.3	39D	2B		P	0511	3.09	5.40			T
23426	06	0430	0745	0436	S15	E55	.832	10135	10.3	195	*1B				2.62				2 2 2 4
HALE	06	0430	0442D	0435	S15	E54	.823	10135	10.2	12D	1B	2	P	0435	1.19	2.10			
ABST	06	0433E	0745	0436	S14	E55	.831	10135	10.3	192D	2N		P	0636	4.05	7.50		78	FW
23426	06	0613	0634	(0620)	S17	E56	.845	10135	10.5	21	*-N				1.34				2 2 1 7
ISTA	06	0600	0628		S17	E60	.878	10135	10.8	28	-N								
MEUD	06	0613E	0632D		S17	E55	.836	10135	10.4	19D	1N		C	0620	1.34	2.20			
ISTA	06	0613	0634		S17	E54	.827	10135	10.3	21	-F								
GRP23427	06	0439	0450	0442	N08	E25	.441	10130	8.1	11	-N				1.12				4 4 4 5
ABST	06	0439	0455	0443	N07	E24	.422	10130	8.0	16	-N		C	0443	1.35	1.50		71	DJ
HALE	06	0439	0442D	0442D	N08	E25	.441	10130	8.1	3D	-B	2	P	0442	1.75	2.00			
CRON	06	0440	0445	0442	N07	E24	.422	10130	8.0	5	-N		C		1.10	1.20			
MANI	06	0444E	0451		N08	E25	.441	10130	8.1	7D	-N	2		0444	.26	.29			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23428	06	0735	0800	0742	N11	E62	.888	10134	11.0	25	2N				3.39				3 3 3 7
ABST	06	0731	0910	0741	N10	E60	.871	10134	10.8	99	2N	8	C	0741	4.50	9.40		70	E
HTPR	06	0736	0805	0742	N13	E65	.911	10134	11.2	29	1F	8	C	0742	2.58	5.00			
CRON	06	0737	0755	0742	N11	E60	.871	10134	10.8	18	2N	8	C		3.10	5.90			E
GRP23429	06	0745	0809	0759	N15	E63	.899	10134	11.0	24	-N				.83				5 5 4 12
ARCE	06	0715	0812D	0758	N12	E59	.864	10134	10.7	57D	-B	8	C	0758	.93	1.90			
ISTA	06	0745	0805		N15	E66	.920	10134	11.3	20	-F	8							
KHAR	06	0751E	0807D		N17	E67	.928	10134	11.4	16D	1F	8	P	0806	.52				
HERS	06	0758E	0814D	0758U	N15	E64	.906	10134	11.1	16D	1N	8	S	0809	1.17	2.80	1.70	56	BD
CATA	06	0800E	0805D	0800	N18	E63	.902	10134	11.1	5D	-B	8		0800	.69	1.59		204	Z
CATA	06	0800E	0805D	0800	N14	E60	.875	10134	10.8	5D	-N	8		0800	.58	1.16		178	
GRP23430	06	0820	0905	0834	N16	E66	.921	10134	11.3	45	-F				1.27				3 2 2 7
HTPR	06	0820	0905	0827	N15	E64	.906	10134	11.1	45	-F	8	C	0827	.83	1.60			
KHAR	06	0827E	0831D		N17	E67	.928	10134	11.4	4D	1F	8	P	0831	1.70				
HERS	06	0840E	0850D	0840U	N15	E64	.906	10134	11.2	10D	1N	8	S	0840	1.96	4.60			E
7 STATIONS REPORTING GROUP 23432. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23432	06	0950	1042	1002	S16	E54	.825	10135	10.5	52	2N				3.16				4 4 3 6
KHAR	06	0930E	1110	1005	S16	E52	.806	10135	10.3	100D	2N		P	1007	3.76	6.40			E
CAPE	06	0949	1042D	1005	S17	E51	.798	10135	10.2	53D	-N		P	1005	.92	1.50			F
CANR	06	0950	1020	0956	S17	E56	.845	10135	10.6	30	2N		C		4.80	8.40			E
NERA	06	0951E	1035D		S15	E55	.832	10135	10.5	44D	2N	3							
23432	06	0951	1113	1030	S16	E53	.815	10135	10.4	82	*1B				3.09				3 2 1 5
UCCL	06	0951E	1108D		S15	E53	.813	10135	10.4	77D	2B		P	1059	3.09				E
CATA	06	1030E	1045D	1030	S17	E50	.788	10135	10.2	15D	1B			1030	1.86	3.16		251	Z
CATA	06	1040E	1045D	1040	S16	E49	.776	10135	10.1	5D	-B			1040	.52	.85		263	
CAPS	06	1055E	1113D		S17	E52	.808	10135	10.4	18D	1N	1	S						
GRP23436	06	1232	1244	1237	S16	E47	.755	10135	10.0	12	--N				.55				4 4 3 6
SACP	06	1230	1245	1237	S16	E48	.765	10135	10.1	15	-N		C		.74	.93			
ONDR	06	1234	1242	1236	S15	E46	.741	10135	10.0	8	-F		V	1236			1.90		CD
CAPS	06	1235E	1246D		S18	E48	.771	10135	10.1	11D	-N	3	V	1236	.60	1.00			
MEUD	06	1236E	1243D		S16	E47	.755	10135	10.1	7D	-N		C	1236	.31	.50			D
GRP23437	06	1257	1312	1302	S16	E51	.796	10135	10.4	15	--F				.39				3 3 2 7
BOUL	06	1256	1313	1303	S15	E51	.794	10135	10.4	17	-N		V						
HTPR	06	1258	1310	1301	S17	E53	.817	10135	10.5	12	-F		C	1301	.41	.70			
MEUD	06	1258	1303D	1301	S16	E50	.786	10135	10.3	5D	-F		C	1301	.36	.60			D
GRP23440	06	1604	1644	1607	N10	E19	.365	10130	8.1	40	2B				6.74				9 9 7 9
HTPR	06	1603	1705	1605	N10	E21	.394	10130	8.2	62	2B		C	1605	4.64	5.20			H
CANR	06	1603	1621	1608U	N09	E18	.344	10130	8.0	18	2N		C		7.50	8.30			EH
BOUL	06	1604	1700	1607	N10	E18	.351	10130	8.0	56	2N		V						
HALE	06	1604	1630D	1607	N10	E20	.380	10130	8.2	26D	2B	3	P	1607	10.83	11.70			LF
MEUD	06	1604	1642D	1607	N10	E20	.380	10130	8.2	38D	2B		C	1607	5.67	5.90			FH
ONDR	06	1605	1640D		N06	E15	.278	10130	7.8	35D	2B		V	1607			4.80		CH
HOUS	06	1605E	1620	1608U	N11	E18	.359	10130	8.0	15D	2B		C		7.10	7.80			EH
CAPS	06	1606	1652		N10	E20	.380	10130	8.2	46	2B	3	P	1608	5.00	5.50		337	FH
SACP	06	1609E	1707	1610	N11	E19	.373	10130	8.1	58D	2B		C		6.41	6.40			
8 STATIONS REPORTING GROUP 23441. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23441	06	1616	1703	1629	S17	E49	.778	10135	10.4	47	1N				1.36				7 7 6 9
HTPR	06	1615	1700	1630	S16	E50	.786	10135	10.4	45	-N		C	1630	1.03	1.60			
SACP	06	1616	1658	1622	S16	E50	.786	10135	10.4	42	-N		C		1.58	2.03			
HALE	06	1617	1630D	1626U	S16	E50	.786	10135	10.4	13D	-N	3	P	1626	1.24	2.00			
BOUL	06	1617	1712D	1629	S17	E52	.808	10135	10.6	55D	1N		V						
CAPS	06	1619E	1710		S17	E48	.768	10135	10.3	51D	-B	3	P	1632	1.40	2.10		266	CK
MEUD	06	1626E	1642D	1635	S16	E50	.786	10135	10.4	16D	-N		C	1635	1.13	1.70			E
BOUL	06	1630U	1642U	1634U	S17	E49	.778	10135	10.4	12D	1N		C		1.80	2.90			
ONDR	06	1635E	1640D		S18	E48	.771	10135	10.3	5D	2F		V	1639			2.20		J
23441	06	1617	1712	1619	S17	E51	.798	10135	10.5	55	*-N				1.03				3 2 1 10
BOUL	06	1617	1712D	1619	S17	E52	.808	10135	10.6	55D	1N		V						
MEUD	06	1617	1622D	1618	S16	E50	.786	10135	10.4	5D	-N		C	1618	1.03	1.60			
MCMA	06	1652E	1720D		S17	E50	.788	10135	10.5	28D	-B		P	1653	.93	1.50			E
GRP23443	06	1657	1720	1703	N11	E19	.373	10130	8.1	23	-F				2.48				2 2 1 8
MCMA	06	1652E	1720D		N11	E20	.387	10130	8.2	28D	1N	8	P	1656	2.48	2.50			F
BOUL	06	1701	1712D	1703	N10	E18	.351	10130	8.1	11D	-F	8	V						
GRP23444	06	1810	1850	1823	N07	E32	.540	10134	9.2	40	-N				.92				2 2 2 3
SACP	06	1810	1847	1819	N07	E32	.540	10134	9.2	37	-N	8	C		1.16	1.22			
HALE	06	1827E	1852	1827U	N06	E31	.523	10134	9.1	25D	-N	2	P	1827	.67	.80			F

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23446	06	1815	1857	1823	N18	E61	.888	10134	11.3	42	--F				.71				2 2 2 3
SACP	06	1815	1858	1819	N17	E59	.871	10134	11.2	43	-F	8	C		.85	1.26			
HALE	06	1827E	1855	1827	N18	E62	.895	10134	11.4	28D	-N	2	P	1827	.57	1.30			F
448 HALE	06	1954	2028	1955	S15	E45	.730	10135	10.2	34	--N	2	C	1955	.52	.70			3
GRP23450	06	2303	2346	2313	S16	E46	.744	10135	10.4	43	1N				2.34				2 2 2 3
SACP	06	2303	2345	2308	S15	E46	.741	10135	10.4	42	1N		C		1.78	2.18			
CULG	06	2315E	2347D	2318	S16	E45	.733	10135	10.3	32D	1N		P	2318	2.89				
GRP23451	06	2333	2350	2337	S17	W45	.736	10121	3.6	17	--F				.60				2 2 2 5
SACP	06	2332	2346	2337	S18	W45	.740	10121	3.6	14	-F		C		.53	.65			
HALE	06	2334	2354	2336	S16	W45	.733	10121	3.6	20	-N	2	C	2336	.67	1.00			
GRP23452	06	2351	0004	2353	S14	E42	.692	10135	10.1	13	--N				.75				2 2 2 5
HALE	06	2350	0000D	2352	S14	E42	.692	10135	10.1	10D	-N	2	P	2352	.77	1.10			
MITK	06	2352	0004	2353	S14	E42	.692	10135	10.1	12	-N		C	2353	.72	1.00			E
GRP23453	07	0018	0128	0023	S15	E45	.731	10135	10.4	70	1B				3.34				5 4 4 5
CULG	07	0017	0130	0022	S15	E45	.731	10135	10.4	73	1B		C	0022	3.09	4.50			
SACP	07	0018	0132	0025	S16	E45	.734	10135	10.4	74	1N		C		3.36	4.06			
MITK	07	0018	0109D	0022	S15	E45	.731	10135	10.4	51D	1B		C	0022	3.30	4.90			H
HALE	07	0019	0121	0021	S15	E44	.719	10135	10.3	62	2B	2	C	0021	3.61	5.20			FV
MANI	07	0048E	0109		S21	E42	.720	10135	10.2	21D	-N	2		0048	1.03	1.49			
GRP23458	07	0635	0647	0639	S14	E48	.761	10135	10.9	12	1N				1.52				3 3 2 6
ISTA	07	0633	0745		S16	E51	.796	10135	11.1	72	1N								
CRON	07	0634	0645	0638	S14	E46	.739	10135	10.7	11	1N		C		2.10	3.00			I
HTPR	07	0637	0648	0640	S13	E47	.747	10135	10.8	11	-F		C	0640	.93	1.30			
GRP23459	07	0727	0806	0740	N10	E34	.577	10134	9.9	39	-N				.92				3 3 3 8
CAPS	07	0725	0803		N11	E33	.568	10134	9.8	38	-N	3	P	0741	.80	1.00		182	
MEUD	07	0728	0800		N10	E35	.591	10134	9.9	32	-F		C	0736	.93	1.10			E
CATA	07	0740E	0815	0740	N10	E34	.577	10134	9.9	35D	-N			0740	1.04	1.27		178	Z
GRP23461	07	0808	0824	0809	S16	E40	.677	10135	10.3	16	1N				2.06				9 9 9 9
ABST	07	0806	0845	0809	S16	E39	.665	10135	10.3	39	1B	8	C	0809	1.80	2.40		84	FK
CRON	07	0806	0815	0809	S16	E39	.665	10135	10.3	9	1N	8	C		1.70	2.30			I
HTPR	07	0807	0820	0810	S16	E40	.677	10135	10.3	13	-N	8	C	0810	1.34	1.80			
MEUD	07	0807	0818	0809	S16	E40	.677	10135	10.3	11	-B	8	C	0809	1.55	2.00			E
MONT	07	0808	0819	0809	S15	E40	.673	10135	10.3	11	1N	8	C	0809	3.09				
CAPS	07	0808E	0822D		S18	E39	.674	10135	10.3	14D	-B	4	P	0813	.50	.70		300	
CAPF	07	0808E	0822		S15	E40	.673	10135	10.3	14D	2N	8	C	0813	4.54	6.16			
KHAR	07	0809	0828D		S14	E41	.681	10135	10.4	19D	1N	8	P	0811	2.27	3.10	3.80		Q
CATA	07	0810	0825	0810	S16	E40	.677	10135	10.3	15	1B	8		0810	1.79	2.46		302	
8 STATIONS REPORTING GROUP 23462. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23462	07	0931	1056	1006	N12	E34	.585	10134	9.9	85	1N				3.43				5 5 5 6
HTPR	07	0925	1055	1005	N09	E33	.560	10134	9.9	90	-N		C	1005	1.65	1.90			
ABST	07	0937	1100	1007	N15	E35	.611	10134	10.0	83	2N		C	1007	6.40	8.10		64	FK
MEUD	07	0952E	1030		N10	E34	.577	10134	10.0	38D	1N		C	1003	1.75	2.10			
CAPS	07	1000E	1100D		N12	E34	.585	10134	10.0	60D	1B	2	P	1009	3.00	3.60		266	CF
CAPF	07	1011E	1115		N12	E33	.572	10134	9.9	64D	2N		C	1013	4.33	5.25			
23462	07	0939	1050	0954	N12	E34	.585	10134	10.0	71	*1N				4.03				3 3 3 7
ARCE	07	0932	0951D	0951	N08	E34	.571	10134	9.9	19D	1N		C	0951	2.61	3.20			
KHAR	07	0945	1050	0955	N12	E34	.585	10134	10.0	65	2N		C	0956	6.24	7.70	3.00		DO
CATA	07	0955E	1000D	0955	N15	E33	.586	10134	9.9	5D	1B			0955	3.25	3.96		248	
GRP23464	07	1140	1146	1141	S15	E35	.612	10135	10.1	6	--N				.49				3 3 3 6
CAPE	07	1140	1145	1141	S15	E36	.624	10135	10.2	5	-N		C	1141	.55	.70			V
HTPR	07	1140	1145	1141	S16	E36	.629	10135	10.2	5	-F		C	1141	.41	.60			
CAPS	07	1141E	1147D		S15	E33	.586	10135	10.0	6D	-N	1	V	1146	.50	.60			CD
GRP23465	07	1250	1337	1255	S16	E37	.641	10135	10.3	47	-N				.94				3 2 2 4
HTPR	07	1250	1320	1255	S16	E38	.653	10135	10.4	30	-F		C	1255	.83	1.00			
CAPS	07	1252E	1337D		S17	E40	.681	10135	10.5	45D	1B	2	P	1306	3.00	4.20		228	
CATA	07	1255E	1305D	1255	S16	E36	.629	10135	10.2	10D	1B			1255	1.04	1.36		209	F
GRP23467	07	1832	1910	1843	S16	E35	.617	10135	10.4	38	--F				.59				2 2 2 5
HALE	07	1832	1910	1843	S15	E35	.612	10135	10.4	38	-N	3	C	1843	.77	1.00			F
MCMA	07	1844E	1856D		S17	E34	.610	10135	10.3	12D	-F		P	1844	.41	.50			E
GRP23468	07	1908	1928	1913	N09	E03	.164	10130	8.0	20	-B				.92				2 2 2 4
SACP	07	1907	1927	1913	N08	E03	.148	10130	8.0	20	-N		C		.85	.83			
HALE	07	1909	1928	1912	N09	E02	.160	10130	7.9	19	-N	2	C	1912	.62	.60			F
HALE	07	1910	1932	1912	N09	E03	.164	10130	8.0	22	-B	2	C	1912	.98	1.00			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		CONF.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23470	07	2040	2110	2050	S11	W51	.786	10121	4.0	30	--F				.53				3 3 3 4
HALE	07	2040	2112	2050	S10	W49	.763	10121	4.2	32	-F	2	C	2050	.77	1.20			
SACP	07	2050E	2107	2050	S12	W51	.788	10121	4.0	17D	-F		C		.42	.55			
MCMA	07	2055E	2057D		S11	W52	.797	10121	4.0	2D	-N		P	2056	.41	.70			E
GRP23472	07	2156	2212	2158	N10	E27	.479	10134	9.9	16	--B				.64				2 2 2 3
HALE	07	2155	2212	2157	N15	E27	.509	10134	9.9	17	-N	2	C	2157	.62	.70			
VORO	07	2157	2200D	2158	N05	E27	.460	10134	9.9	3D	-B		P	2158	.65	.74		84	D
GRP23473	07	2231	2243	2235	N08	E01	.140	10130	8.0	12	--N				.66				3 3 3 5
SACP	07	2229	2245	2235	N08	E01	.140	10130	8.0	16	-N		C		.63	.62			
HALE	07	2232	2248	2235	N08	E01	.140	10130	8.0	16	-N	2	C	2235	.62	.60			
VORO	07	2233	2237	2234	N08	E01	.140	10130	8.0	4	-B		C	2234	.74	.74		79	D
GRP23475	07	2349	0013	2355	N10	E03	.181	10130	8.2	24	-N				1.09				3 3 3 6
SACP	07	2345E	2355D	2355	N10	E04	.186	10130	8.3	10D	-N		P		.84	.82			
HALE	07	2350	0025	2355	N11	E03	.197	10130	8.2	35	-N	1	C	2355	1.19	1.20			
MITK	07	2352	0000	2354	N10	E03	.181	10130	8.2	8	-B		C	2354	1.24	1.20			E
GRP23476	08	0017	0029	0020	N15	E45	.730	10134	11.4	12	-N				.93				3 3 3 6
VORO	08	0017	0026	0019	N16	E45	.733	10134	11.4	9	-B		C	0019	.93	1.31		81	EJ
MITK	08	0017	0035	0021	N14	E46	.738	10134	11.5	18	-N		C	0021	1.34	2.00			D
SACP	08	0018	0026	0019	N14	E45	.727	10134	11.4	8	-F		C		.53	.64			
GRP23478	08	0139	0157	0141	S16	E23	.467	10135	9.8	18	--N				.66				4 4 4 6
SACP	08	0138	0148	0140	S16	E23	.467	10135	9.8	10	-N		C		.75	.77			
MITK	08	0138	0154	0141	S16	E23	.467	10135	9.8	16	-N		C	0141	.93	1.10			D
VORO	08	0139	0146	0141	S16	E24	.480	10135	9.9	7	-B		C	0141	.37	.41		69	DJ
HALE	08	0139	0221	0140	S14	E23	.451	10135	9.8	42	-N	2	C	0140	.57	.60			
GRP23479	08	0155	0216	0157	S16	E32	.580	10135	10.5	21	-B				1.31				4 4 4 5
HALE	08	0154	0234	0157	S15	E31	.562	10135	10.4	40	-N	2	C	0157	1.13	1.40			F
VORO	08	0154	0202D	0154	S16	E32	.580	10135	10.5	8D	1B		C	0154	1.66	2.02		107	E
MITK	08	0155E	0210		S17	E33	.598	10135	10.6	15D	-B		C	0155	.93	1.10			E
CRON	08	0155	0203	0157	S17	E32	.586	10135	10.5	8	-N		C		1.50	1.90			EI
GRP23480	08	0253	0259	0254	S16	E22	.455	10135	9.8	6	-B				1.58				5 5 5 7
VORO	08	0252E	0258	0253	S15	E22	.446	10135	9.8	6D	-B		C	0253	1.29	1.42		89	E
HALE	08	0253	0303	0254	S14	E22	.438	10135	9.8	10	-B	2	C	0254	1.70	1.90			VZFH
CRON	08	0253	0257	0254	S16	E21	.443	10135	9.7	4	1B		C		1.90	2.10			Z
MITK	08	0253	0300	0255	S16	E22	.455	10135	9.8	7	-B		C	0255	1.86	2.00			E
SIBE	08	0254	0258	0254	S18	E21	.462	10135	9.7	4	-F		C	0254	1.16	1.30		71	DV
GRP23481	08	0327	0342	0328	N09	E03	.162	10130	8.4	15	-N				1.06				5 5 5 5
TACH	08	0326E	0341D		N09	E03	.162	10130	8.4	15D	-N		C	0330	1.09	1.10	2.00	51	E
CRON	08	0326	0334	0327	N09	E03	.162	10130	8.4	8	-N		C		1.00	1.00			
HALE	08	0327	0352	0328	N11	E03	.195	10130	8.4	25	-N	2	C	0328	1.24	1.30			F
MITK	08	0328	0340	0330	N10	E02	.174	10130	8.3	12	-N		C	0330	1.24	1.30			E
MANI	08	0331E	0333D		N08	E03	.146	10130	8.4	2D	-N	1		0332	.72	.73			
4 STATIONS REPORTING GROUP 23486. 5 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23486	08	0601	0630	0604	S13	E26	.484	10135	10.2	29	-N				1.63				2 2 2 9
CRON	08	0600	0620	0604	S13	E27	.497	10135	10.3	20	-N		C		1.70	2.00			EI
MITK	08	0602	0640	0603	S12	E24	.450	10135	10.1	38	-N		C	0603	1.55	1.70			E
23486	08	0602	0635	0615	S15	E25	.485	10135	10.1	33	*-F				1.34				2 2 1 9
HTPR	08	0602	0635	0615	S15	E25	.485	10135	10.1	33	-F		C	0615	1.34	1.50			
ONDR	08	0615E	0622D		S15	E25	.485	10135	10.1	7D	-N		V						
GRP23487	08	0648	0717	0700	S17	E28	.537	10135	10.4	29	--F				.75				3 3 2 10
CATA	08	0645	0720	0700	S17	E28	.537	10135	10.4	35	-N			0700	.87	1.04		174	
ISTA	08	0645	0720		S16	E27	.517	10135	10.3	35	-F								
HTPR	08	0654	0711	0700	S18	E29	.556	10135	10.5	17	-F		C	0700	.62	.70			
GRP23488	08	0750	0841	0802	S17	E29	.549	10135	10.5	51	1N				2.03				9 9 7 9
ABST	08	0656E	0850	0754	S17	E28	.537	10135	10.4	114D	1N		P	0754	2.25	2.60		70	FK
ISTA	08	0748	0855		S18	E32	.592	10135	10.7	67	-F								
MONT	08	0749	0819	0759	S16	E28	.530	10135	10.4	30	1N		C	0759	3.09				
ONDR	08	0749	0831		S18	E29	.556	10135	10.5	42	2F		V	0800			2.20		CJ
HTPR	08	0750	0835	0810	S18	E29	.556	10135	10.5	45	-N		C	0810	1.55	1.80			E
CATA	08	0750	0900	0805	S17	E33	.598	10135	10.8	70	1B			0805	2.02	2.42		229	
ZURI	08	0751	0855	0807	S17	E25	.500	10135	10.2	64	-B		C	0807	1.42	1.70			
CAPS	08	0752E	0845D		S18	E28	.544	10135	10.4	53D	1N	4	P	0756	2.50	3.00		182	CE
CRON	08	0752	0815	0758	S18	E29	.556	10135	10.5	23	-N		C		1.40	1.70			EI

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	JUNE																		
GRP23490	08	0944	1005	0948	N10	E20	.378	10134	9.9	21	-N				1.24				6 5 5 7
CATA	08	0930	0950	0935	N09	E19	.357	10134	9.8	20	-N			0935	.63	.69		184	Z
CAPS	08	0943	1006D		N10	E23	.421	10134	10.1	23D	-B	2	P	0945	1.20	1.40		196	D
ZURI	08	0943	1017	0945	N10	E17	.335	10134	9.7	34	-N		C	0945	.53	.60			
ABST	08	0943	1015	0945	N11	E19	.371	10134	9.8	32	-N		C	0945	1.80	1.90		58	E
HTPR	08	0943	1015	0957	N09	E19	.357	10134	9.8	32	-N		C	0957	.93	.90			E
UCCL	08	0946	0958	0946	N10	E20	.378	10134	9.9	12	1N		C	0946	2.06	2.50			EI
GRP23493	08	1000	1008	1001	S18	E27	.532	10135	10.4	8	--N				.67				3 3 3 8
CAPS	08	1000	1011		S18	E28	.544	10135	10.5	11	-N	2	P	1002	.60	.70		185	
HTPR	08	1000	1007	1001	S18	E28	.544	10135	10.5	7	-F	8	C	1001	.83	.90			
ZURI	08	1000	1007	1001	S17	E24	.488	10135	10.2	7	-N	8	C	1001	.57	.70			
GRP23494	08	1019	1028	1021	N10	E03	.179	10130	8.7	9	--N				.65				4 4 4 8
HTPR	08	1018	1031	1021	N10	E03	.179	10130	8.7	13	-F		C	1021	.52	.50			
CAPS	08	1018	1029		N10	E05	.191	10130	8.8	11	-N	4	V	1020	.50	.50			E
ZURI	08	1019	1025	1021	N08	E01	.138	10130	8.5	6	-N		C	1021	.69	.70			
ABST	08	1019	1026	1021	N11	E02	.191	10130	8.6	7	-N		C	1021	.90	.90		64	D
GRP23495	08	1023	1035	1027	S17	E26	.512	10135	10.4	12	-N				.96				3 3 3 9
HTPR	08	1022	1035	1025	S18	E27	.532	10135	10.5	13	-F		C	1025	.83	.90			E
ZURI	08	1023	1033	1025	S17	E25	.500	10135	10.3	10	-N		C	1025	1.26	1.40			
HERS	08	1027E	1038	1030	S17	E25	.500	10135	10.3	11D	-N		P	1029	.79	1.00			D
GRP23496	08	1130	1133	1130	S19	E30	.575	10135	10.7	3	--F				1.13				2 2 2 5
ZURI	08	1129	1131	1129	S18	E30	.568	10135	10.7	2	-F		C	1129	1.68	2.10			
CATA	08	1130	1135	1130	S19	E30	.575	10135	10.7	5	-F			1130	.58	.71		146	H
GRP23497	08	1147	1150	1148	S17	E24	.488	10135	10.3	3	--F				.47				2 2 2 6
HTPR	08	1147	1150	1148	S17	E24	.488	10135	10.3	3	-F		C	1148	.41	.50			
ZURI	08	1147	1149	1147	S16	E23	.467	10135	10.2	2	-F		C	1147	.53	.60			
GRP23499	08	1223	1232	1229	S16	E21	.443	10135	10.1	9	--N				.78				6 6 5 7
CATA	08	1220	1235	1230	S16	E20	.431	10135	10.0	15	-B			1230	.58	.64		204	Z
HTPR	08	1224	1231	1227	S16	E21	.443	10135	10.1	7	-F		C	1227	.72	.80			
SACP	08	1224	1234	1228	S15	E22	.446	10135	10.2	10	-N		C		.74	.77			
ZURI	08	1225	1229	1229	S15	E20	.421	10135	10.0	4	-N		C	1229	1.05	1.20			
ONDR	08	1226E	1233		S16	E20	.431	10135	10.0	7D	-N		V						CJ
CAPS	08	1227E	1232		S16	E20	.431	10135	10.0	5D	-B	4	V	1228	.80	.90		208	C
GRP23500	08	1233	1240	1233	N11	E32	.553	10134	10.9	7	--N				.47				3 3 2 8
CAPS	08	1232	1243		N10	E33	.563	10134	11.0	11	-B	4	P	1233	.40	.50		208	
ZURI	08	1233	1237	1233	N12	E33	.571	10134	11.0	4	-N		C	1233	.53	.60			
ONDR	08	1233E	1241		N12	E30	.531	10134	10.8	8D	-F		V						D
GRP23503	08	1354	1419	1402	S15	E20	.421	10135	10.1	25	--F				.45				6 6 5 11
CATA	08	1345	1430	1405	S16	E18	.407	10135	9.9	45	-N	8		1405	.52	.58		186	Z
SANM	08	1350	1445		S15	E23	.459	10135	10.3	55	-N	8	C	1359	.32	.35			E
SACP	08	1355	1408	1402	S15	E20	.421	10135	10.1	13	-F	8	C		.42	.43			
HTPR	08	1357	1407	1358	S15	E20	.421	10135	10.1	10	-F	8	C	1358	.41	.50			
ONDR	08	1357	1402D		S16	E20	.431	10135	10.1	5D	-F	8	V	1400			1.70		CD
ZURI	08	1357	1405	1403	S15	E20	.421	10135	10.1	8	-N	8	C	1403	.57	.60			
CATA	08	1440	1445	1440	S17	E18	.417	10135	10.0	5	-N	8		1440	.29	.32		174	
GRP23504	08	1358	1429	1405	N10	E18	.349	10134	9.9	31	-N				.97				5 5 5 11
SANM	08	1351	1444		N11	E18	.357	10134	9.9	53	-F		C	1401	.97	1.00			E
ZURI	08	1359	1427	1401	N10	E17	.335	10134	9.9	28	-N		C	1401	1.36	1.40			
CATA	08	1400	1435	1405	N10	E18	.349	10134	9.9	35	-N			1405	.46	.49		162	Z
HTPR	08	1400	1420	1407	N11	E16	.330	10134	9.8	20	-N		C	1407	1.03	1.00			
LOCA	08	1400	1420	1405	N10	E20	.378	10134	10.1	20	-N		V	1405	1.05	1.10			
6 STATIONS REPORTING GROUP 23505. 5 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23505	08	1420	1528	1430	S15	E04	.270	10131	8.9	68	-N				1.90				4 4 3 11
ZURI	08	1417	1529	1433	S16	E04	.286	10131	8.9	72	1N		C	1433	2.52	2.60			
CATA	08	1420	1520D	1425	S16	E02	.280	10131	8.7	60D	1N			1425	2.20	2.29		184	
SANM	08	1422	1534	1431	S14	E05	.259	10131	9.0	72	-B		C		.97	1.00			E
ONDR	08	1424E	1445		S12	E05	.227	10131	9.0	21D	-N		V	1433			2.20		CE
23505	08	1426	1522	1449	S15	E03	.266	10131	8.8	56	*-N				1.15				2 2 2 9
LOCA	08	1420	1520	1450	S13	E04	.237	10131	8.9	60	-N		V	1450	1.68	1.70			K
HTPR	08	1431	1523	1447	S16	E02	.280	10131	8.8	52	-N		C	1447	.62	.60			ES

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OBSERVATORY	OBSERVED UT DATE 1969 JUNE	START	END	MAX. PHASE	LOCATION APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP23506	08	1510	1531	1514	S17	E24	.488	10135	10.4	21	-B				1.05				9 8 7 10
HTPR	08	1509	1530	1515	S18	E24	.497	10135	10.4	21	-B		C	1515	.93	1.00			E
LOCA	08	1509	1531	1513	S17	E28	.537	10135	10.7	22	-B		V	1513	1.47	1.80			
SANM	08	1510	1541	1512	S16	E25	.492	10135	10.5	31	-B		C		.80	.92			E
CATA	08	1510	1515	1510	S17	E17	.406	10135	9.9	5	-N			1510	.29	.31		178	Z
ZURI	08	1511	1535	1513	S17	E25	.500	10135	10.5	24	-N		C	1513	1.64	1.80			
ONDR	08	1511E	1538		S18	E25	.508	10135	10.5	27D	1N		V	1514			2.70		CJR
SACP	08	1511	1525	1513	S17	E25	.500	10135	10.5	14	-N		C		.95	.98			
HOUS	08	1512	1520	1514	S17	E24	.488	10135	10.4	8	-N		C		1.00	1.20			
CATA	08	1515	1520D	1515	S20	E21	.482	10135	10.2	5D	-B			1515	.58	.66		251	DU
CAPS	08	1520E	1535D		S18	E23	.485	10135	10.4	15D	-N	4	P	1524	1.20	1.40		164	B
GRP23509	08	1604	1609	1606	S15	E20	.421	10135	10.2	5	--N				.53				4 4 4 11
SANM	08	1602	1611	1605	S15	E19	.409	10135	10.1	9	-N		C		.32	.34			D
SACP	08	1603	1610	1606	S15	E20	.421	10135	10.2	7	-N		C		.42	.43			
HTPR	08	1604	1608	1606	S16	E20	.431	10135	10.2	4	-N		C	1606	.72	.80			
ZURI	08	1605	1607	1605	S15	E21	.434	10135	10.2	2	-N		C	1605	.65	.70			
GRP23512	08	1745	1756	1749	S15	E18	.397	10135	10.1	11	--N				.70				3 3 3 6
SACP	08	1745	1753	1748	S15	E18	.397	10135	10.1	8	-N		C		.42	.42			
HTPR	08	1745	1751	1749	S16	E19	.419	10135	10.2	6	-F		C	1749	.72	.80			
SANM	08	1745	1805	1749	S15	E17	.385	10135	10.0	20	-N			1759	.97	.99			E
SANM	08	1745	1805	1749	S15	E17	.385	10135	10.0	20	-N		C		.32	.32			E
GRP23514	08	1824	1840	1825	S16	E14	.363	10135	9.8	16	--B				.88				4 4 4 6
SACP	08	1824	1835	1825	S16	E14	.363	10135	9.8	11	-B		C		.85	.84			
HALE	08	1824	1856	1825	S14	E14	.339	10135	9.8	32	-B	2	C	1825	1.03	1.10			
SANM	08	1824	1839	1825	S16	E13	.352	10135	9.7	15	-B		C		.65	.69			E
HOUS	08	1825	1830	1826	S17	E14	.375	10135	9.8	5	-N		C		1.00	1.10			L
SANM	08	1846	1854	1850	S14	E18	.387	10135	10.1	8	-B		C		.32	.34			E
GRP23520	09	0003	0028	0010	N12	W14	.312	10130	8.0	25	-N				1.62				8 7 7 8
HALE	09	0001E	0035	0013	N14	W13	.322	10130	8.0	34D	1N	2	C	0013	2.06	2.20			F
HOUS	09	0003	0022	0009	N13	W15	.335	10130	7.9	19	-N		C		1.50	1.60			E
SACP	09	0003	0022	0005	N12	W14	.312	10130	8.0	19	-N		C		.85	.83			
MITK	09	0003	0024	0009	N12	W14	.312	10130	8.0	21	1N		C	0009	2.27	2.40			E
SIBE	09	0004	0029	0012	N11	W12	.276	10130	8.1	25	-N		C	0012	.99	1.00		84	E
CRON	09	0005E	0020	0009U	N12	W14	.312	10130	8.0	15D	-N		C		1.40	1.50			E
CULG	09	0007E	0041D	0014	N13	W13	.311	10130	8.0	34D	1N		P	0014	2.27	2.20			
MANI	09	0017E	0029D		N13	W13	.311	10130	8.0	12D	-F	2		0023	1.65	1.73			
GRP23522	09	0047	0105	0054	S14	E15	.352	10135	10.2	18	-B				1.52				3 3 3 6
MITK	09	0044	0112	0054	S15	E15	.363	10135	10.2	28	1B		C	0054	2.89	3.10			E
SACP	09	0045	0105	0054	S15	E15	.363	10135	10.2	20	-B		C		.85	.84			
HALE	09	0052	0058	0054	S13	E14	.329	10135	10.1	6	-N	2	C	0054	.83	.90			
GRP23523	09	0110	0118	0113	N16	E32	.577	10134	11.4	8	--N				.48				2 2 2 6
HALE	09	0109	0118	0113	N17	E32	.583	10134	11.4	9	-N	2	C	0113	.31	.40			
SACP	09	0110	0118	0113	N15	E32	.572	10134	11.4	8	-N		C		.64	.68			
GRP23524	09	0121	0137	0126	S17	E17	.408	10135	10.3	16	1N				1.87				5 5 5 6
HALE	09	0118	0132	0127	S15	E17	.386	10135	10.3	14	1N	2	C	0127	1.86	2.00			F
SACP	09	0122	0135	0125	S16	E15	.375	10135	10.2	13	-N		C		1.17	1.16			
MITK	09	0122	0139	0127	S16	E16	.386	10135	10.3	17	1N		C	0127	1.96	2.10			E
CRON	09	0123	0132	0125	S18	E17	.419	10135	10.3	9	1N		C		2.40	2.60			E
MANI	09	0125E	0145	0128	S20	E18	.452	10135	10.4	20D	1N	2		0128	1.96	2.20			
GRP23525	09	0139	0149	0141	S15	E14	.352	10135	10.1	10	--N				.48				2 2 2 6
SACP	09	0138	0148	0140	S15	E15	.363	10135	10.2	10	-N		C		.43	.43			
MITK	09	0139	0149	0141	S14	E13	.329	10135	10.0	10	-N		C	0141	.52	.60			D
GRP23526	09	0237	0248	0243	S15	E14	.352	10135	10.2	11	-N				.98				2 2 2 4
HALE	09	0235	0249	0242	S13	E14	.329	10135	10.2	14	-N	2	C	0242	.62	.70			
MITK	09	0239	0247	0243	S16	E14	.364	10135	10.2	8	-N		C	0243	1.34	1.40			D
GRP23527	09	0406	0420	0407	S17	E15	.387	10135	10.3	14	-N				.98				3 3 2 6
HALE	09	0405	0437	0407	S15	E16	.374	10135	10.4	32	-N	2	C	0407	.62	.70			
ONDR	09	0406E	0414		S18	E14	.389	10135	10.2	8D	1F		V	0408			1.60		
MITK	09	0406	0410	0407	S17	E16	.397	10135	10.4	4	-N		C	0407	1.34	1.40			D
GRP23535	09	0627	0639	0628	S16	E11	.335	10135	10.1	12	-N				1.89				7 7 5 10
ISTA	09	0555	0640	0628	S16	E12	.344	10135	10.1	45	-B								
MANI	09	0623E	0638	0627	S17	E12	.357	10135	10.2	15D	-N	2		0627	1.13	1.20			
MEUD	09	0626	0632	0627	S16	E10	.326	10135	10.0	6	-B		C	0627	1.75	1.80			
ABST	09	0627	0645	0629	S16	E12	.344	10135	10.2	18	1N		C	0629	2.25	2.40		66	FK
ONDR	09	0628E	0644		S15	E09	.304	10135	9.9	16D	1F		V	0629			2.00		CJ
HTPR	09	0628	0634	0629	S16	E12	.344	10135	10.2	6	-B		C	0629	1.55	1.50			
MITK	09	0628	0638	0629	S15	E11	.322	10135	10.1	10	1N		C	0629	2.78	2.90			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
13 STATIONS REPORTING GROUP 23537. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23537	09	0709	0746	0717	N10	E07	.207	10134	9.8	37	1N				2.11				12 12 10 13
ISTA	09	0701	0750	0713	N11	E10	.252	10134	10.0	49	-B								
ZURI	09	0702	0751	0716	N11	E04	.198	10134	9.6	49	1N		C	0716	2.52	2.60			
HTPR	09	0703	0750	0718	N10	E06	.198	10134	9.7	47	-N		C	0718	1.24	1.20			
MITK	09	0703	0745	0715	N12	E07	.236	10134	9.8	42	1B		C	0715	2.37	2.40			E
ARCE	09	0706	0753	0717	N08	E09	.205	10134	10.0	47	-N		C	0717	1.12	1.10			
MANI	09	0712	0733	0721	N13	E10	.278	10134	10.1	21	-N	2		0721	.93	1.00			
ONDR	09	0713	0751		N10	E06	.198	10134	9.8	38	1N		V	0715			2.20		CK
MEUD	09	0713	0730	0715	N10	E06	.198	10134	9.8	17	-N		C	0715	1.03	1.00			E
CRON	09	0713	0730	0717U	N09	E07	.194	10134	9.8	17	1N		C		2.60	2.60			E
ISTA	09	0713	0750	0719	N11	E07	.221	10134	9.8	37	-B								
MONT	09	0714	0747	0722	N10	E07	.207	10134	9.8	33	1N		C	0722	2.37				
ABST	09	0714	0750	0720	N10	E06	.198	10134	9.8	36	1N		C	0720	3.16	3.20		66	FK
KHAR	09	0715E	0727D		N10	E06	.198	10134	9.8	12D	1F		P	0722	3.71	3.80	1.80		BE
MANI	09	0737	0752	0740	N13	E10	.278	10134	10.1	15	-N	2		0740	.62	.65			
23537	09	0655	0723	0700	N12	E09	.254	10134	10.0	28	*-F				.42				2 2 2 12
CATA	09	0655E	0735D	0700	N10	E07	.207	10134	9.8	40D	-F			0700	.58	.59		129	Z
MANI	09	0703E	0710		N13	E10	.278	10134	10.0	7D	-F	2		0704	.26	.30			
GRP23539	09	0700	0717	0703	N14	E29	.527	10134	11.5	17	--F				.53				7 7 6 12
CATA	09	0655E	0735D	0700	N16	E28	.527	10134	11.4	40D	-N	8		0700	.52	.61		190	
ISTA	09	0700	0720	0702	N15	E28	.520	10134	11.4	20	-N	8							
MEUD	09	0701	0710	0703	N14	E29	.527	10134	11.5	9	-F	8	C	0703	.36	.40			D
HTPR	09	0701	0717	0705	N14	E29	.527	10134	11.5	16	-F	8	C	0705	.31	.40			
ZURI	09	0701	0708	0702	N15	E26	.494	10134	11.2	7	-N	8	C	0702	1.13	1.30			
MITK	09	0701	0713	0703	N16	E29	.539	10134	11.5	12	-F	8	C	0703	.62	.70			E
MANI	09	0703E	0713	0705	N10	E31	.535	10134	11.6	10D	-F	2		0705	.21	.24			
GRP23540	09	0736	0803	0739	S14	E13	.329	10135	10.3	27	--F				.89				3 2 2 12
ZURI	09	0736	0810	0737	S15	E10	.312	10135	10.1	34	-F		C	0737	1.47	1.60			
ARCE	09	0736	0803D	0753	S15	E15	.363	10135	10.4	27D	-F		C	0753	.64	.70			
MANI	09	0737E	0755	0741	S13	E15	.341	10135	10.4	18D	-F	2		0741	.31	.32			
GRP23542	09	0818	0840	0823	N20	E32	.602	10134	11.7	22	--F				.75				4 4 4 14
MEUD	09	0817	0835	0821	N20	E33	.613	10134	11.8	18	-F		C	0821	.36	.40			D
ZURI	09	0817	0835	0822	N19	E30	.572	10134	11.6	18	-F		C	0822	1.52	1.90			
MONT	09	0819	0845	0823	N20	E33	.613	10134	11.8	26	-N		C	0823	.72				
CATA	09	0820	0845D	0825	N19	E33	.607	10134	11.8	25D	-N			0825	.40	.51		162	
GRP23543	09	0824	0834	0825	N10	E06	.198	10134	9.8	10	--N				.99				5 5 5 14
HTPR	09	0822	0832	0826	N10	E08	.217	10134	9.9	10	-F		C	0826	.62	.60			
MITK	09	0823	0830	0825	N10	E07	.207	10134	9.9	7	-N		C	0825	.62	.60			E
MEUD	09	0824	0832	0825	N10	E05	.189	10134	9.7	8	-F		C	0825	.62	.60			E
ZURI	09	0824	0832	0825	N11	E05	.205	10134	9.7	8	-N		C	0825	1.85	1.90			
CATA	09	0825	0845D	0825	N10	E07	.207	10134	9.9	20D	-N			0825	1.22	1.24		182	Z
GRP23544	09	0838	0847	0843	S16	E12	.344	10135	10.3	9	--F				.79				4 4 4 12
MONT	09	0828	0846	0831	S13	E16	.353	10135	10.6	18	-F		C	0831	1.03				
MEUD	09	0841	0847	0842	S16	E11	.335	10135	10.2	6	-F		C	0842	.31	.30			D
HTPR	09	0842	0848	0843	S17	E12	.357	10135	10.3	6	-F		C	0843	.41	.40			
ZURI	09	0842	0847	0842	S15	E10	.312	10135	10.1	5	-N		C	0842	1.68	1.80			
MONT	09	0842	0850	0844	S16	E14	.364	10135	10.4	8	-N		C	0844	.77				
GRP23545	09	0853	0902	0856	S16	E11	.335	10135	10.2	9	--F				.35				4 4 4 13
ZURI	09	0852	0902	0853	S16	E10	.326	10135	10.1	10	-N		C	0853	.53	.60			
MEUD	09	0852	0902	0858	S16	E10	.326	10135	10.1	10	-F			0858	.36	.40			
MEUD	09	0852	0902	0854	S16	E10	.326	10135	10.1	10	-F		C						D
MANI	09	0853E	0855D	0855	S17	E12	.357	10135	10.3	2D	-F	2		0855	.21	.22			
HTPR	09	0853	0901	0858	S16	E10	.326	10135	10.1	8	-F		C	0858	.31	.30			
GRP23546	09	0859	0910	0903	N09	E06	.183	10134	9.8	11	--F				1.33				3 3 3 11
MONT	09	0857	0911	0902	N09	E06	.183	10134	9.8	14	-N		C	0902	2.27				
ZURI	09	0900	0908	0902	N10	E05	.189	10134	9.8	8	-F		C	0902	1.42	1.50			
HTPR	09	0901	0910	0905	N07	E08	.181	10134	10.0	9	-F		C	0905	.31	.30			
GRP23547	09	0917	0938	0923	N07	W06	.156	10130	8.9	21	--N				.91				4 4 4 10
CATA	09	0915E	0945D	0920	N07	W06	.156	10130	8.9	30D	-B			0920	.93	.94		204	E
MEUD	09	0917	0935	0920	N08	W07	.181	10130	8.9	18	-F		C	0920	.72	.70			F
HTPR	09	0918	0936	0927	N07	W05	.146	10130	9.0	18	-F		C	0927	.31	.30			
ZURI	09	0919	0937	0926	N07	W07	.168	10130	8.9	18	-N		C	0926	1.68	1.70			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23550	09	1030	1039	1034	S16	E10	.326	10135	10.2	9	--N				.65				4 4 3 11
ZURI	09	1028	1035	1031	S16	E09	.318	10135	10.1	7	-N		C	1031	.91	1.00			
ONDR	09	1030E	1035		S16	E08	.311	10135	10.0	5D	-F		V	1030			1.40		CDJR
CATA	09	1030	1035	1030	S17	E11	.349	10135	10.3	5	-B			1030	.34	.37		214	
MEUD	09	1030	1034	1031	S16	E10	.326	10135	10.2	4	-F		C	1031	.26	.30			D
MEUD	09	1034	1040		S15	E11	.322	10135	10.3	6	-F		C	1036	.52	.50			
ZURI	09	1035	1044	1037	S14	E12	.319	10135	10.3	9	-N		C	1037	1.09	1.10			
GRP23552	09	1058	1105	1101	S14	E06	.267	10135	9.9	7	--F				.63				4 4 4 10
CATA	09	1050	1110D	1050	S16	E05	.293	10135	9.8	20D	-N			1050	.58	.60		186	
MEUD	09	1100	1102	1100	S16	E05	.293	10135	9.8	2	-F		C	1100	.31	.30			D
CAPS	09	1100	1103		S07	E08	.187	10135	10.1	3	-F	3	V	1101	.60	.60		147	
ZURI	09	1100	1103	1101	S16	E04	.288	10135	9.8	3	-N		C	1101	1.01	1.00			
GRP23553	09	1120	1142	1124	S16	E14	.364	10135	10.5	22	--N				.89				5 5 5 10
MCMA	09	1120	1150	1123	S17	E14	.376	10135	10.5	30	-N		C	1123	.83	.90			E
MEUD	09	1120	1135	1125	S16	E14	.364	10135	10.5	15	-F		C	1125	1.13	1.20			
CAPS	09	1120	1140		S18	E15	.399	10135	10.6	20	-B	4	P	1122	.70	.80		201	E
HTPR	09	1121	1122D		S16	E14	.364	10135	10.5	1D	-F		C	1122	.41	.40			
ZURI	09	1121	1141	1125	S15	E13	.341	10135	10.4	20	-N		P	1125	1.36	1.40			
GRP23555	09	1153	1155	1154	S15	E10	.312	10135	10.2	2	--F				1.43				3 3 3 12
WEND	09	1130E	1152D		S15	E15	.363	10135	10.6	22D	1F	8	V		3.09				
MEUD	09	1152	1155	1153	S16	E07	.304	10135	10.0	3	-F	8	C	1153	.31	.30			D
ZURI	09	1153	1155	1154	S15	E07	.289	10135	10.0	2	-N	8	C	1154	.89	.90			
GRP23556	09	1203	1240	1213	S16	E10	.326	10135	10.3	37	1N				2.82				8 8 7 11
ONDR	09	1153E	1235		S15	E12	.331	10135	10.4	42D	1F	8	V	1221			1.80		CHJK
ZURI	09	1204	1340	1214	S15	E10	.312	10135	10.3	96	1N	8	C	1214	3.36	3.50			
MEUD	09	1204	1211	1206	S16	E07	.304	10135	10.0	7	-N	8	C	1206	1.34	1.40			
WEND	09	1205	1243		S15	E12	.331	10135	10.4	38	2N	8	P		7.22				
MCMA	09	1205	1300	1221	S17	E11	.349	10135	10.3	55	-B	8		1221	1.55	1.60			
MCMA	09	1205	1300	1207	S17	E11	.349	10135	10.3	55	-B	8	C	1207	1.29	1.30			FK
CATA	09	1205	1230	1210	S16	E06	.298	10135	10.0	25	-B	8		1210	1.09	1.15		209	Z
CAPS	09	1206E	1245		S17	E09	.333	10135	10.2	39D	-B	2	P	1217	1.70	1.80		243	CF
MEUD	09	1212	1227	1213	S16	E12	.344	10135	10.4	15	-F	8	C	1213	1.03	1.10			E
CATA	09	1215	1220	1215	S19	E09	.362	10135	10.2	5	-B	8		1215	.29	.31		240	
CAPF	09	1219E	1240D		S14	E11	.308	10135	10.3	21D	1N	8	P	1221	3.51	3.74			
CATA	09	1325	1350D	1330	S17	E07	.319	10135	10.1	25D	-N	8		1330	.29	.30		190	
GRP23557	09	1206	1215	1207	N15	E30	.546	10134	11.8	9	--F				.63				3 3 3 11
ZURI	09	1206	1213	1207	N17	E30	.558	10134	11.8	7	-F		C	1207	.57	.70			
MCMA	09	1206	1215D	1207	N15	E30	.546	10134	11.8	9D	-N		C	1207	.52	.60			E
CAPS	09	1206E	1217D		N14	E29	.527	10134	11.7	11D	-F	2	P	1207	.80	.90		145	C
GRP23558	09	1218	1249	1220	N10	E06	.198	10134	10.0	31	1N				2.03				9 9 7 10
MEUD	09	1217	1230		N10	E03	.177	10134	9.7	13	-F		C	1222	1.34	1.30			E
ZURI	09	1217	1238	1218	N10	E04	.182	10134	9.8	21	-N		C	1218	1.05	1.10			
WEND	09	1217	1308		N10	E04	.182	10134	9.8	51	2N		P		6.19				
MCMA	09	1218E	1300	1221	N08	E04	.151	10134	9.8	42D	-B		C	1221	.93	1.00			E
CAPS	09	1218	1250		N10	E04	.182	10134	9.8	32	-B	2	P	1221	1.30	1.60		254	F
CAPF	09	1219E	1240D		N12	E04	.214	10134	9.8	21D	1N		P	1221	2.27	2.31			
CATA	09	1220	1310	1220	N10	E05	.189	10134	9.9	50	-B			1220	1.16	1.19		229	Z
NERA	09	1223E	1226D		N12	E15	.325	10134	10.6	3D	1F	3							
ONDR	09	1224E	1242		N10	E03	.177	10134	9.7	18D	1F		V	1231			1.70		CJ
CAPS	09	1241	1246		N13	E13	.311	10134	10.5	5	-F	4	V	1243	1.30	1.30		150	
17 STATIONS REPORTING GROUP 23559. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23559	09	1356	1447	1406	N15	E28	.520	10134	11.7	51	1N				4.20				13 12 10 17
MCMA	09	1324	1500D	1406	N14	E28	.514	10134	11.7	96D	1N		C	1406	2.58	3.00			FK
ZURI	09	1324	1450	1356	N14	E29	.527	10134	11.7	86	2N		C	1356	6.72	7.80			
MONT	09	1325	1446	1406	N15	E30	.546	10134	11.8	81	1N		C	1406	2.58				
CAPS	09	1325E	1433D	1410	N15	E29	.533	10134	11.7	68D	2N	4	P	1400	6.00	7.20		182	CF
ONDR	09	1325E	1448		N14	E25	.474	10134	11.4	83D	2F		V	1400			1.90		CFHK
SACP	09	1350	1434	1409	N14	E28	.514	10134	11.7	44	-N		C		1.90	1.97			
BOUL	09	1353	1432D	1407	N13	E29	.521	10134	11.8	39D	1F		V						
BOUL	09	1353	1432D	1357	N13	E29	.521	10134	11.8	39D	-N		V						
ARCE	09	1355	1700	1405	N14	E27	.501	10134	11.6	185	2F		C	1405	5.63	6.50			F
UCCL	09	1355E	1510D	1405	N15	E25	.481	10134	11.5	75D	2B		P	1405	4.13	5.80			Z
MEUD	09	1356	1420	1405	N13	E29	.521	10134	11.8	24	-F		C	1405	.41	.50			
HERS	09	1404	1440	1410	N18	E30	.565	10134	11.8	36	2B		P	1412	5.05	6.10	2.40	104	EJ
CAPF	09	1405E	1420D		N16	E29	.539	10134	11.8	15D	2N		P	1409	7.01	8.16			
SANM	09	1413E	1456		N13	E29	.521	10134	11.8	43D	2N		P	1413	4.53	5.33			BK

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
23559	09	1324	1405	1326	N14	E29	.527	10134	11.7	41	*1F				1.01				6 6 3 14
MEUD	09	1323	1344	1324	N13	E29	.521	10134	11.7	21	-F		C	1324	.83	.90			
SACP	09	1323	1332	1325	N14	E27	.501	10134	11.6	9	-N		C		.63	.66			
ZURI	09	1324	1450	1325	N14	E29	.527	10134	11.7	86	2N								
CATA	09	1325	1445	1330	N12	E29	.516	10134	11.7	80	-N			1330	1.56	1.81		197	
NERA	09	1325E	1333D		N16	E34	.602	10134	12.1	8D	2F	3							
BOUL	09	1325E	1330	1325	N13	E31	.548	10134	11.9	5D	1F		S						
BOUL	09	1325E	1426	1330	N15	E25	.481	10134	11.4	61D	-N		V						
23559	09	1338	1421	1345	N14	E29	.527	10134	11.7	43	*1N				3.95				3 3 3 11
WEND	09	1330	1447		N14	E30	.540	10134	11.8	77	2N		P		9.28				
HOUS	09	1340E	1420	1340E	N15	E28	.520	10134	11.7	40D	1N		C		2.30	2.80			B
MEUD	09	1345	1355	1350	N13	E29	.521	10134	11.7	10	-F		C	1350	.26	.30			D
GRP23561	09	1409	1419	1410	S16	E06	.298	10135	10.0	10	--F				.52				3 3 3 18
ZURI	09	1409	1411	1410	S16	E06	.298	10135	10.0	2	-F		C	1410	1.09	1.10			
MEUD	09	1409	1412	1409	S15	E06	.282	10135	10.0	3	-F		C	1409	.31	.30			D
SANM	09	1413E	1435		S16	E07	.304	10135	10.1	22D	-F		P	1413	.17	.17			E
GRP23563	09	1421	1426	1423	S17	E04	.304	10135	9.9	5	-N				1.28				8 8 7 17
SACP	09	1420	1428	1422	S18	E04	.321	10135	9.9	8	-F		C		1.17	1.15			
MEUD	09	1420	1425	1421	S17	E03	.301	10135	9.8	5	-F		C	1421	.52	.50			D
HOUS	09	1421	1426	1424	S18	E04	.321	10135	9.9	5	-N		C		1.40	1.50			HL
MCMA	09	1421	1426	1423	S18	E04	.321	10135	9.9	5	-N		C	1423	1.03	1.10			E
ZURI	09	1421	1424	1422	S17	E05	.308	10135	10.0	3	1F		C	1422	2.31	2.40			
SANM	09	1421	1425	1423	S17	E04	.304	10135	9.9	4	-N		C		.48	.50			E
MONT	09	1422	1425	1423	S17	E05	.308	10135	10.0	3	-N		C	1423	2.06				
ONDR	09	1422E	1426		S17	E02	.299	10135	9.7	4D	-N		V	1423			1.50		CDH
GRP23565	09	1503	1508	1506	S15	E07	.289	10135	10.2	5	--F				.73				3 3 3 15
ZURI	09	1502	1507	1505	S14	E10	.299	10135	10.4	5	-F		C	1505	1.47	1.50			
MEUD	09	1504	1508	1505	S16	E06	.298	10135	10.1	4	-F		C	1505	.41	.40			D
SANM	09	1504	1510	1507	S15	E06	.282	10135	10.1	6	-F		C		.32	.33			D
GRP23570	09	1633	1640	1634	N11	E06	.212	10134	10.1	7	--N				.49				5 5 5 14
ZURI	09	1633	1637	1633	N10	E08	.217	10134	10.3	4	-N	8	C	1633	.79	.80			
HALE	09	1633	1642	1634	N12	E06	.227	10134	10.1	9	-N	2	C	1634	.41	.40			F
SACP	09	1633	1640	1634	N10	E06	.198	10134	10.1	7	-N	8	C		.53	.52			
SANM	09	1634	1641	1635	N15	E05	.268	10134	10.1	7	-N	8	C		.32	.32			E
MCMA	09	1634	1640	1635	N10	E06	.198	10134	10.1	6	-N	8	C	1635	.41	.50			E
GRP23572	09	1721	1740	1727	N11	E17	.342	10134	11.0	19	--N				.61				5 5 4 10
MCMA	09	1715	1745	1728	N11	E17	.342	10134	11.0	30	-N		C	1728	.36	.40			E
ZURI	09	1721	1736	1727	N12	E19	.378	10134	11.1	15	-N		C	1727	1.05	1.10			
SACP	09	1721	1740	1725	N11	E17	.342	10134	11.0	19	-N		C		.53	.52			
BOUL	09	1721	1740	1727	N11	E16	.328	10134	10.9	19	-F		V						
SANM	09	1725	1737	1727	N10	E17	.334	10134	11.0	12	-F		C		.48	.50			E
GRP23575	09	1850	1910	1853	N13	E24	.454	10134	11.6	20	-N				1.02				5 5 5 8
MCMA	09	1849	1915	1852	N11	E26	.469	10134	11.7	26	-B		C	1852	1.03	1.10			E
CANR	09	1850	1858	1854	N12	E25	.461	10134	11.7	8	-N		C		1.30	1.50			E
SANM	09	1851	1927	1853	N13	E25	.467	10134	11.7	36	-B		C		1.29	1.45			E
SACP	09	1851	1904	1853	N15	E23	.455	10134	11.5	13	-N		C		1.16	1.18			
HALE	09	1851E	1905D	1855	N16	E21	.438	10134	11.4	14D	-N	2	P	1855	.31	.30			
GRP23578	09	1922	1935	1926	S15	E04	.272	10135	10.1	13	--N				.39				3 3 3 6
SANM	09	1921	1936		S15	E05	.277	10135	10.2	15	-B		C	1932	.32	.35			
SANM	09	1921	1936		S15	E05	.277	10135	10.2	15	-N		C	1923	.17	.17			E
SACP	09	1922	1934	1924	S15	E05	.277	10135	10.2	12	-N		C		.32	.31			
MCMA	09	1922	1935	1928	S15	E03	.268	10135	10.0	13	-N		C	1932	.52	.60			EH
MCMA	09	1922	1935	1932	S15	E03	.268	10135	10.0	13	-N			1932					
GRP23580	09	2005	2042	2008	N15	E25	.481	10134	11.7	37	-N				1.20				5 5 5 5
HALE	09	2004	2051	2007	N18	E21	.457	10134	11.4	47	-B	2	C	2007	.31	.30			Z
MCMA	09	2004	2045	2007	N11	E26	.469	10134	11.8	41	-B		C	2007	1.29	1.50			E
SACP	09	2004	2036	2008	N15	E26	.494	10134	11.8	32	1N		C		2.01	2.07			
BOUL	09	2006U	2024U	2010U	N15	E27	.507	10134	11.9	18D	-N		C		1.20	1.40			
HOUS	09	2007	2035	2009	N15	E25	.481	10134	11.7	28	-N		C		1.20	1.40			
GRP23583	09	2152	2209	2155	N13	E23	.440	10134	11.6	17	--N				.79				2 2 2 4
SACP	09	2151	2212	2155	N15	E21	.430	10134	11.5	21	-N		C		1.05	1.06			
MCMA	09	2153	2205	2155	N10	E24	.435	10134	11.7	12	-N		C	2155	.52	.60			D
585 HALE	09	2252	2256	2253	S13	E05	.245	10135	10.3	4	--N	2	C	2253	.41	.40			3
GRP23586	09	2350	0001	2353	S16	E06	.298	10135	10.4	11	--N				.62				1 1 1 2
MITK	09	2350	0001	2353	S16	E06	.298	10135	10.4	11	-N		C	2353	.62	.60			E
MITK	09	2350	0001	2353	S16	E06	.298	10135	10.4	11	-N		C	2353	.62	.60			2 0

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23587	10	0002	0022	0010	N10	W24	.434	10130	8.2	20	-N				.86				3 3 3 4
MITK	10	0000	0018	0001	N10	W25	.449	10130	8.1	18	-N		C	0001	1.03	1.20			D
HALE	10	0002E	0028		N11	W24	.440	10130	8.2	26D	-B	2	P	0012	1.03	1.20			F
SACP	10	0004	0021	0010	N10	W24	.434	10130	8.2	17	-N		C		.53	.53			
GRP23591	10	0149	0159	0150	S12	W01	.215	10135	10.0	10	--N				.52				3 3 3 5
MITK	10	0148	0155	0149	S13	W02	.234	10135	9.9	7	-N		C	0149	.52	.50			E
HALE	10	0149	0203	0150	S10	W02	.184	10135	9.9	14	-B	1	C	0150	.62	.60			FV
MANI	10	0149E	0158D	0150	S13	E00	.232	10135	10.1	9D	-N	2		0150	.41	.42			
GRP23593	10	0230	0241	0233	S12	E00	.215	10135	10.1	11	-N				1.97				4 4 4 6
MITK	10	0230	0243	0232	S13	E00	.232	10135	10.1	13	1N		C	0232	2.48	2.50			
CRON	10	0230	0240	0233	S12	W01	.215	10135	10.0	10	-N		C		1.80	1.80			E
HALE	10	0231	0240	0232	S10	E00	.181	10135	10.1	9	-B	1	C	0232	1.86	1.90			V
MANI	10	0232E	0242	0234	S13	E01	.232	10135	10.2	10D	-N	2		0234	1.75	1.80			
GRP23596	10	0458	0509	0500	S12	W03	.221	10135	10.0	11	-B				1.35				4 4 4 7
MITK	10	0457	0510	0500	S12	W04	.225	10135	9.9	13	-N		C	0500	1.24	1.30			D
ABST	10	0458	0516	0459	S12	W04	.225	10135	9.9	18	-N		C	0459	1.35	1.40		66	F
TACH	10	0458	0503	0500	S12	W02	.217	10135	10.1	5	-B		C	0500	1.55	1.50	1.90	120	E
MANI	10	0458E	0507D		S13	W02	.234	10135	10.1	9D	-B	1		0459	1.24	1.40			
GRP23598	10	0627	0637	0630	N12	W06	.226	10134	9.8	10	--N				.65				3 3 2 7
CATA	10	0625	0635	0630	N13	W06	.241	10134	9.8	10	-N			0630	.46	.48		178	
MITK	10	0628	0641D	0630	N13	W05	.234	10134	9.9	13D	-N		C	0630	.83	.90			D
ONDR	10	0630E	0635		N11	W07	.219	10134	9.7	5D	-N		V	0631			1.50		C
GRP23602	10	0733	0750	0741	S15	W01	.266	10135	10.2	17	-N				1.57				8 8 7 12
MANI	10	0725	0753	0742	S17	E01	.300	10135	10.4	28	-B	2		0742	.83	.86			
ZURI	10	0725	0735	0734	S13	W05	.247	10135	9.9	10	-N		C	0734	1.20	1.20			
CATA	10	0735	0805	0745	S15	E01	.266	10135	10.4	30	-N			0745	1.09	1.14		182	
CAPE	10	0737	0746	0739	S15	W02	.268	10135	10.2	9	-N		C	0739	1.06	1.10			V
MITK	10	0737	0747	0739	S14	E00	.249	10135	10.3	10	-N		C	0739	1.55	1.60			D
CANR	10	0737	0744	0739	S15	W01	.266	10135	10.2	7	-N		C		1.70	1.70			
ABST	10	0737	0756	0739	S16	E01	.283	10135	10.4	19	1B		C	0739	2.25	2.30		80	EK
CATA	10	0740	0800	0745	S10	E00	.181	10135	10.3	20	-B			0745	.23	.24		214	
ONDR	10	0741E	0745		S15	W01	.266	10135	10.2	4D	1F		V	0742			1.90		CJ
ZURI	10	0741E	0750	0741	S14	W03	.254	10135	10.1	9D	1N		C	0741	2.31	2.40			
GRP23608	10	1023	1049	1026	N13	E15	.334	10134	11.6	26	-N				1.41				7 7 6 11
ONDR	10	1022	1036		N12	E15	.323	10134	11.6	14	1F		V	1024			1.70		CFJ
ZURI	10	1022	1045	1024	N14	E14	.332	10134	11.5	23	-N		C	1024	1.11	1.20			
ABST	10	1022	1055	1025	N14	E16	.356	10134	11.6	33	-F		C	1025	1.80	1.90		64	EK
UCCL	10	1023	1053	1025	N15	E14	.344	10134	11.5	30	1N		C	1025	3.09	3.60			E
ARCE	10	1025E	1050	1025	N12	E15	.323	10134	11.6	25D	-F		C	1025	.71	.70			
CATA	10	1025	1100	1025	N13	E15	.334	10134	11.6	35	-B			1025	.87	.93		234	Z
LOCA	10	1025	1043	1031	N14	E16	.356	10134	11.6	18	-F		V	1031	.85	.90			
GRP23610	10	1242	1257	1246	N20	E16	.424	10134	11.7	15	-N				1.41				7 7 5 13
MCMA	10	1240	1258	1244	N20	E15	.415	10134	11.7	18	-N		C	1244	.72	.80			E
SACP	10	1241	1252	1244	N21	E15	.427	10134	11.7	11	-N		C		.85	.85			
ZURI	10	1242	1257	1243	N22	E14	.431	10134	11.6	15	-N		C	1243	.91	1.00			
WEND	10	1242	1300		N19	E19	.444	10134	12.0	18	1N		V		3.09				
BOUL	10	1244	1300	1253	N18	E14	.380	10134	11.6	16	-N		V						
CAPS	10	1244E	1255		N18	E19	.433	10134	12.0	11D	-N	3	V	1245	1.50	1.60			C
ONDR	10	1244E	1247D		N24	E16	.473	10134	11.7	3D	-F		V						CJ
GRP23612	10	1244	1256	1247	S15	W09	.305	10135	9.9	12	-N				1.42				6 5 4 13
MONT	10	1243	1255	1245	S14	W08	.283	10135	9.9	12	-N		C	1245	2.27				
SACP	10	1243	1254	1247	S16	W10	.328	10135	9.8	11	-N		C		.74	.73			
BOUL	10	1244	1258	1247	S16	W11	.337	10135	9.7	14	-N		V						
ZURI	10	1244	1254	1247	S13	W08	.268	10135	9.9	10	1N		C	1247	2.21	2.30			
MCMA	10	1244	1257	1247	S16	E02	.284	10135	10.7	13	-N		C	1247	.83	.90			E
CATA	10	1245	1300	1250	S12	W09	.264	10135	9.9	15	-N			1250	.46	.48		155	
CATA	10	1245	1300	1250	S16	W12	.346	10135	9.6	15	-N			1250	.40	.43		184	
GRP23615	10	1329	1343	1333	S12	W07	.246	10135	10.0	14	--N				.65				7 7 5 16
MONT	10	1326	1342	1333	S11	W08	.240	10135	10.0	16	-N		C	1333	.57				
SACP	10	1328	1340	1331	S12	W08	.254	10135	10.0	12	-N		C		.63	.62			
MCMA	10	1329	1345	1331	S12	E02	.217	10135	10.7	16	-B		C	1331	.41	.40			E
ZURI	10	1329	1339	1334	S11	W07	.231	10135	10.0	10	-N		C	1334	.93	.90			
CATA	10	1330	1345	1335	S11	W09	.250	10135	9.9	15	-B			1335	.69	.72		204	E
BOUL	10	1330	1350	1334	S12	W09	.264	10135	9.9	20	-F		V						
ONDR	10	1334E	1342		S12	W09	.264	10135	9.9	8D	-N		V	1335			1.40		EHJ

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23616	10	1348	1401	1351	N14	E11	.299	10134	11.4	13	--F				.58				4 4 3 15
SACP	10	1347	1356	1349	N13	E10	.276	10134	11.3	9	-F		C		.53	.52			
MCMA	10	1348	1403	1350	N14	E13	.321	10134	11.6	15	-N		C	1350	.52	.60			E
ZURI	10	1348	1354D	1350	N13	E12	.298	10134	11.5	6D	-N		P	1350	.69	.70			
BOUL	10	1349	1405	1355	N14	E10	.289	10134	11.3	16	-F		V						
4 STATIONS REPORTING GROUP 23619. 8 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23619	10	1430	1509	1434	S11	W90	1.000	10121	3.9	39	1N				1.26				2 2 1 11
MCMA	10	1430	1520	1433	S10	W90	1.000	10121	3.9	50	-N		C	1433					AK
ARCE	10	1433E	1458	1435	S12	W90	1.000	10121	3.9	25D	2N		C	1435	1.26	7.10			H
23619	10	1440	1524	1451	S13	W90	1.000	10121	3.9	44	*-F				.84				2 2 1 9
BOUL	10	1438	1451D	1451	S15	W90	1.000	10121	3.9	13D	1F		V						
SACP	10	1442	1524	1451	S11	W90	1.000	10121	3.9	42	-N		C		.84				
GRP23620	10	1443	1459	1447	N13	E10	.276	10134	11.4	16	--N				.87				8 8 6 9
CATA	10	1440E	1500D	1445	N12	E10	.263	10134	11.4	20D	-N			1445	.63	.66		155	
MCMA	10	1442	1506	1446	N13	E09	.266	10134	11.3	24	-B		C	1446	.52	.50			E
ZURI	10	1442	1454	1444	N13	E12	.298	10134	11.5	12	-N		C	1444	1.13	1.20			
SACP	10	1442	1454	1446	N13	E09	.266	10134	11.3	12	-N		C		.84	.82			
LOCA	10	1443	1504	1450	N12	E10	.263	10134	11.4	21	-N		V	1450	1.05	1.10			
ARCE	10	1444E	1500	1445	N12	E10	.263	10134	11.4	16D	-N		C	1445	1.06	1.10			
CAPS	10	1446	1500D		N12	E13	.298	10134	11.6	14D	-F	4	V					147	C
BOUL	10	1447	1457	1450	N14	E10	.289	10134	11.4	10	-F		V						
GRP23621	10	1512	*1524	1514	N09	W10	.228	10134	9.9	12	--N				.79				5 5 4 11
MCMA	10	1510	1525	1512	N10	W11	.251	10134	9.8	15	-N		C	1512	.62	.70			E
ZURI	10	1511	1520	1513	N09	W08	.203	10134	10.0	9	-N		C	1513	1.18	1.20			
LOCA	10	1512	1522	1516	N08	W09	.204	10134	10.0	10	-F		V	1516	.85	.80			
BOUL	10	1514E	1523	1515	N09	W11	.241	10134	9.8	9D	-F		V						
CATA	10	1515	1530	1515	N09	W10	.228	10134	9.9	15	-N			1515	.52	.53		153	
GRP23626	10	1700	1736	1707	N14	E13	.321	10134	11.7	36	-N				2.05				6 6 5 7
ZURI	10	1659	1726	1705	N14	E14	.332	10134	11.8	27	1N		C	1705	2.31	2.40			
BOUL	10	1700	1710D	1707	N13	E13	.309	10134	11.7	10D	-F		V						
HALE	10	1700	1716D	1705	N15	E11	.312	10134	11.5	16D	-N	2	P	1705	1.50	1.60			F
SACP	10	1700	1718	1706	N13	E11	.287	10134	11.5	18	-N		C		1.26	1.24			
WEND	10	1700E	1735D		N15	E14	.344	10134	11.8	35D	1F		V		4.13				
MCMA	10	1702	1805D	1710	N13	E13	.309	10134	11.7	63D	-N		C	1710	1.03	1.10			E
GRP23627	10	1708	1732	1712	S13	W05	.247	10135	10.3	24	--N				.31				4 4 2 7
ZURI	10	1703	1733	1711	S14	W05	.263	10135	10.3	30	-N	8							
HALE	10	1709	1716D		S11	W06	.223	10135	10.3	7D	-B	2	P	1711	.10	.10			D
MCMA	10	1709	1735	1713	S14	W04	.258	10135	10.4	26	-N	8	C	1713	.52	.50			E
BOUL	10	1709	1729	1712	S12	W04	.225	10135	10.4	20	-N	8	V						
GRP23628	10	1725	1737	1730	S16	W09	.320	10135	10.1	12	--N				.92				2 2 2 5
ZURI	10	1703	1733	1731	S14	W05	.263	10135	10.3	30	-N	8	C	1731	1.32	1.40			
MCMA	10	1725	1740	1729	S18	W13	.381	10135	9.8	15	-N	8	C	1729	.52	.50			EL
GRP23631	10	1850	1928	1900	N09	W10	.228	10134	10.0	38	1B				2.79				5 4 4 5
SACP	10	1849	1936	1905	N09	W10	.228	10134	10.0	47	1N		C		2.84	2.78			
MCMA	10	1850	1925	1858	N08	W09	.204	10134	10.1	35	1B		C	1858	2.06	2.10			E
HALE	10	1850	1934	1902	N10	W09	.227	10134	10.1	44	1B	2	C	1902	2.27	2.30			F
CANR	10	1851	1915	1856	N09	W11	.241	10134	10.0	24	1N		C		4.00	4.00			E
BOUL	10	1906E	1906D		N10	W10	.239	10134	10.0		-N		S						
GRP23633	10	2100	2115	2104	N14	E08	.271	10134	11.5	15	--N				.69				3 3 3 4
HALE	10	2059	2118	2104	N15	E08	.286	10134	11.5	19	-N	2	C	2104	.93	1.00			F
SACP	10	2100	2112	2105	N14	E08	.271	10134	11.5	12	-F		C		.63	.62			
MCMA	10	2101	2114	2104	N13	E09	.266	10134	11.6	13	-N		C	2104	.52	.60			D
GRP23634	10	2138	2157	2143	S09	W09	.225	10135	10.2	19	--N				.69				3 3 3 4
MCMA	10	2135	2200		S11	W11	.272	10135	10.1	25	-B		C	2150	.93	1.00			EK
HALE	10	2138	2159	2141	S07	W07	.177	10135	10.4	21	-N	2	C	2141	.31	.30			
SACP	10	2140	2151	2145	S09	W08	.213	10135	10.3	11	-N		C		.84	.82			
GRP23635	10	2204	2212	2207	N08	W14	.274	10134	9.9	8	--F				.53				2 2 2 4
SACP	10	2203	2211	2205	N08	W14	.274	10134	9.9	8	-F		C		.53	.52			
MCMA	10	2204	2213	2209	N07	W13	.251	10134	9.9	9	-N		C	2209	.52	.60			E
GRP23636	10	2208	2228	2213	N22	E03	.371	10134	11.1	20	--F				1.04				3 2 2 4
HALE	10	2206	2221	2210	N23	E02	.386	10134	11.1	15	-N	2	C	2210	.57	.60			F
HOUS	10	2210	2235	2215	N21	E03	.355	10134	11.1	25	-F		C		1.50	1.70			
MCMA	10	2213	2300D	2230	N21	E07	.370	10134	11.5	47D	-N		C	2230	.31	.40			D
GRP23638	10	2357	0013	0001	S17	W12	.359	10135	10.1	16	-N				1.35				2 2 2 5
MITK	10	2357	0015	0000	S19	W15	.412	10135	9.9	18	1N		C	0000	1.96	2.10			E
SACP	11	0000E	0011	0001	S15	W08	.299	10135	10.4	11D	-N		C		.73	.72			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23639	11	0030	0047	0035	S16	W15	.378	10135	9.9	17	-N				1.91				3 3 3 5
HALE	11	0029	0048	0034	S16	W15	.378	10135	9.9	19	-N	2	C	0034	1.55	1.70			H
SACP	11	0029	0047	0036	S17	W15	.389	10135	9.9	18	1N		C		2.73	2.73			
MITK	11	0032	0045	0035	S16	W15	.378	10135	9.9	13	-N		C	0035	1.44	1.60			E
GRP23640	11	0140	0207	0146	S15	W10	.316	10135	10.3	27	1N				3.44				5 5 4 5
HALE	11	0136	0205D	0145	S15	W09	.307	10135	10.4	29D	1N	2	P		3.82	4.00			F
SACP	11	0136	0158D	0139	S18	W16	.412	10135	9.9	22D	-N		C		.64	.64			
SACP	11	0139	0158D	0149	S16	W09	.322	10135	10.4	19D	1N		C		4.46	4.40			
CULG	11	0141	0235	0146	S12	W10	.275	10135	10.3	54	1B		C	0146	3.92	3.99			SV
MITK	11	0142	0205	0143	S15	W10	.316	10135	10.3	23	-B		C	0143	1.55	1.60			E
SIBE	11	0143E	0151		S15	W10	.316	10135	10.3	8D	-F		V						D
GRP23641	11	0245	0315	0246	S10	W13	.287	10135	10.1	30	--N				.79				3 3 3 6
HALE	11	0243	0310	0246	S10	W13	.287	10135	10.1	27	-N	2	C	0246	.72	.80			
MITK	11	0244	0320	0246	S10	W13	.287	10135	10.1	36	-N		C	0246	1.03	1.10			E
MANI	11	0248	0303D		S10	W13	.287	10135	10.1	15D	-N	1		0249	.62	.65			
GRP23643	11	0458	0517	0503	N14	E02	.236	10134	11.4	19	-N				1.52				3 3 3 7
MANI	11	0458	0514	0503	N13	E03	.222	10134	11.4	16	-F	2		0503	1.24	1.30			
MITK	11	0458	0515	0502	N15	E01	.251	10134	11.3	17	-N		C	0502	.62	.60			D
ABST	11	0459	0522	0504	N15	E02	.252	10134	11.4	23	1N		C	0504	2.70	2.80		60	E
GRP23645	11	0513	0538	0519	N09	W17	.324	10134	9.9	25	1N				2.02				8 8 7 9
ABST	11	0436	0545	0522	N09	W17	.324	10134	9.9	69	1F	8	C	0522	2.70	2.80		60	KU
CULG	11	0508	0542	0519	N10	W17	.332	10134	9.9	34	1B	8	C	0519	2.17	2.10			HRZS
MANI	11	0510	0540	0522	N09	W16	.310	10134	10.0	30	1N	2		0522	2.58	2.70			
MITK	11	0510	0532	0518	N10	W18	.346	10134	9.9	22	-N	8	C	0518	1.86	1.90			EH
CRON	11	0513	0520D	0516	N05	W17	.302	10134	9.9	7D	-N	8	C		1.60	1.80			E
CAPS	11	0518E	0531D		N09	W18	.339	10134	9.9	13D	1N	4	S	0520	2.00	2.20		170	
ONDR	11	0518	0537		N07	W17	.312	10134	9.9	19	2F	8	V	0523			2.10		CHJKR
MEUD	11	0524E	0532		N10	W18	.346	10134	9.9	8D	-F	8	C	0524	1.24	1.30			
GRP23646	11	0539	0551	0545	S11	W18	.363	10135	9.9	12	--F				1.28				5 5 5 8
ABST	11	0536	0653	0548	S12	W18	.372	10135	9.9	77	-F		C	0548	1.80	1.90		56	F
MEUD	11	0538	0549	0544	S13	W18	.381	10135	9.9	11	-F		C	0544	.93	1.00			E
MITK	11	0540	0551	0545	S10	W18	.355	10135	9.9	11	-N		C	0545	1.24	1.30			E
CAPS	11	0541E	0549D		S10	W15	.313	10135	10.1	8D	-F	1	V	0546	1.20	1.30			C
MANI	11	0542	0553	0544	S12	W19	.385	10135	9.8	11	-N	2		0544	1.24	1.30			
GRP23648	11	0607	0644	0626	S16	W67	.928	10128	6.2	37	-N				.82				3 3 3 10
CULG	11	0603	0652D	0626	S13	W67	.926	10128	6.2	49D	1N		P	0626	1.34				
MEUD	11	0610	0640		S15	W67	.927	10128	6.2	30	-F		C	0618	.31				D
CAPS	11	0615E	0640		S19	W68	.936	10128	6.2	25D	-N	3	V	0617	.80				CG
GRP23649	11	0618	0635	0619	N14	W01	.234	10134	11.2	17	--F				.47				3 3 2 9
CATA	11	0615E	0640D	0615	N13	W01	.217	10134	11.2	25D	-F			0615	.58	.59		148	
MEUD	11	0620	0630	0622	N15	E00	.250	10134	11.3	10	-F		C	0622	.36	.40			D
CAPS	11	0621E	0635D		N13	W02	.219	10134	11.1	14D	-N	3	V						C
GRP23650	11	0624	0645	0629	S11	W18	.363	10135	9.9	21	-N				1.50				5 5 5 9
CULG	11	0619	0652D	0632	S10	W17	.341	10135	10.0	33D	1N	8	P	0632	3.09	3.00			SL
MITK	11	0624	0655	0630	S10	W18	.355	10135	9.9	31	-N	8	C	0630	1.44	1.50			E
CATA	11	0625	0635	0625	S12	W18	.372	10135	9.9	10	-N	8		0625	.23	.25		162	
MEUD	11	0627	0643	0630	S13	W18	.381	10135	9.9	16	-F	8	C	0630	1.24	1.30			E
CAPS	11	0628E	0639		S12	W18	.372	10135	9.9	11D	-N	3	V	0630	1.50	1.60		180	C
GRP23651	11	0718	0736	0722	N14	E02	.236	10134	11.5	18	-N				1.30				7 7 7 9
CAPS	11	0715E	0733	0722	N14	E01	.234	10134	11.4	18D	-B	4	P	0722	1.30	1.30		215	C
MITK	11	0717	0735	0721	N14	E01	.234	10134	11.4	18	-B		C	0721	1.24	1.30			E
ABST	11	0719	0740	0722	N15	E00	.250	10134	11.3	21	-F		C	0722	1.80	1.80		57	E
CATA	11	0720E	0740	0720	N13	E01	.217	10134	11.4	20D	-N			0720	.87	.89		182	
MEUD	11	0720	0730	0722	N14	W01	.234	10134	11.2	10	-F		C	0722	.72	.70			E
MANI	11	0723E	0725D		N15	E08	.284	10134	11.9	2D	-F	1		0723	1.65	1.70			
CANR	11	0725E	0735	0726U	N14	E01	.234	10134	11.4	10D	-N		C		1.50	1.50			E
7 STATIONS REPORTING GROUP 23652. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23652	11	0729	0756	0736	S15	W13	.345	10135	10.3	27	-N				1.84				6 6 5 9
MITK	11	0728	0737	0734	S14	W15	.355	10135	10.2	9	-N		C	0734	1.44	1.50			
ABST	11	0728	0810	0734	S15	W11	.325	10135	10.5	42	-N		C	0734	1.80	1.90		61	EK
ONDR	11	0729	0753		S18	W15	.402	10135	10.2	24	1N		V	0745			1.90		CHJK
CAPS	11	0730	0745D		S16	W12	.347	10135	10.4	15D	-B	4	P	0733	1.90	2.00		204	F
CATA	11	0730	0750	0735	S15	W12	.334	10135	10.4	20	-B			0735	1.22	1.29		209	
ZURI	11	0740E	0818	0741	S14	W15	.355	10135	10.2	38D	1N		P	0741	2.84	3.00			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
23652	11	0745	0811	0756	S12	W18	.372	10135	10.0	26	*-N				1.89				3 3 3 9
ZURI	11	0740E	0818	0751	S12	W16	.346	10135	10.1	38D	1N		P	0751	3.89	4.10			
ZURI	11	0740E	0818	0802	S12	W21	.412	10135	9.7	38D	1N		P	0802	2.52	2.70			
CATA	11	0750	0810	0755	S12	W17	.359	10135	10.1	20	-N			0755	1.27	1.37		172	F
MEUD	11	0801	0805	0802	S13	W19	.394	10135	9.9	4	-F		C	0802	.52	.60			
GRP23655	11	0842	0847	0843	N20	W01	.334	10134	11.3	5	--F				.55				3 3 3 10
MEUD	11	0842	0846	0843	N21	E00	.350	10134	11.4	4	-F		C	0843	.31	.30			D
ZURI	11	0842	0847	0843	N20	W02	.335	10134	11.2	5	-N		C	0843	.53	.50			
CAPS	11	0843E	0848		N20	W02	.335	10134	11.2	5D	-F	4	V	0844	.80	.80		142	C
GRP23657	11	0903	0912	0906	S14	W16	.366	10135	10.2	9	-N				1.16				3 3 3 9
ZURI	11	0902	0917	0908	S13	W17	.368	10135	10.1	15	-N		C	0908	1.68	1.80			
ZURI	11	0902	0917	0904	S14	W16	.366	10135	10.2	15	-N		C	0904	1.09	1.20			
MEUD	11	0903	0906	0904	S15	W17	.389	10135	10.1	3	-F		C	0904	.26	.30			
UCCL	11	0904E	0904D		S14	W14	.343	10135	10.3		-B		P	0904	1.55	1.90			E
GRP23658	11	1003	1029	1008	N11	W15	.313	10134	10.3	26	1N				2.35				7 7 6 11
ABST	11	0958	1047	1009	N13	W14	.320	10134	10.4	49	1F		C	1009	2.25	2.30		53	D
MONT	11	0959	1019	1004	N12	W12	.285	10134	10.5	20	-N		C	1004	2.06				H
MEUD	11	1001	1015	1004	N10	W17	.332	10134	10.1	14	-F		C	1004	1.44	1.50			EH
CAPS	11	1004E	1024D		N10	W20	.375	10134	9.9	20D	1N	4	V	1008	2.00	2.20		168	C
CATA	11	1005	1035D	1010	N11	W13	.286	10134	10.4	30D	-B			1010	1.16	1.21		209	
ONDR	11	1006	1015		N10	W14	.290	10134	10.4	9	2F		V	1009			2.10		CHJ
UCCL	11	1006E	1046D	1011	N11	W13	.286	10134	10.4	40D	2F		P	1011	5.16	5.30			H
GRP23659	11	1102	1120	1104	N13	W21	.411	10134	9.9	18	--N				.80				5 5 5 10
ZURI	11	1101	1116	1104	N14	W22	.432	10134	9.8	15	-N		C	1104	.79	.90			
ABST	11	1102	1125	1105	N14	W22	.432	10134	9.8	23	-F		C	1105	1.35	1.50		55	E
MEUD	11	1102	1110	1103	N13	W21	.411	10134	9.9	8	-F		C	1103	.62	.70			E
CAPS	11	1105E	1117D		N10	W18	.346	10134	10.1	12D	-N	4	P	1106	.70	.70		182	
MCMA	11	1106E	1130		N13	W22	.425	10134	9.8	24D	-N		C	1106	.52	.60			E
GRP23664	11	1324	1346	1329	S14	W17	.378	10135	10.3	22	--N				.71				6 6 6 10
CAPS	11	1323E	1345		S13	W16	.356	10135	10.4	22D	-N	4	V	1335	.50	.50		176	
ZURI	11	1323	1344	1328	S14	W16	.366	10135	10.4	21	-N		C	1328	1.01	1.10			
SACP	11	1323	1343	1330	S15	W16	.377	10135	10.4	20	-N		C		.53	.52			
MEUD	11	1324	1336	1329	S15	W18	.401	10135	10.2	12	-F		C	1329	.83	.90			E
MCMA	11	1324	1350	1330	S16	W16	.388	10135	10.4	26	-N		C	1330	.62	.70			E
CATA	11	1325	1400	1330	S13	W17	.368	10135	10.3	35	-B			1330	.75	.81		246	
GRP23666	11	1518	1527	1519	N14	W22	.432	10134	10.0	9	--N				.62				5 5 5 8
MEUD	11	1517	1527	1519	N14	W23	.445	10134	9.9	10	-F		C	1519	.31	.30			
MCMA	11	1517	1525	1519	N14	W22	.432	10134	10.0	8	-B		C	1519	.72	.80			E
ZURI	11	1518	1524	1518	N17	W21	.445	10134	10.1	6	-N		C	1518	.99	1.10			
CAPS	11	1519	1528		N12	W23	.431	10134	9.9	9	-F	4	P	1522	.80	.80		152	
CATA	11	1520	1530	1520	N15	W23	.453	10134	9.9	10	-N			1520	.29	.32		174	
GRP23667	11	1616	1724	1628	N10	W20	.375	10134	10.2	68	2B				8.52				12 12 11 12
WEND	11	1613E	1751	1627	N11	W19	.368	10134	10.3	98D	3B		P		20.63				
HALE	11	1614	1741D	1623	N10	W21	.390	10134	10.1	87D	2B	2	P	1623	7.22	7.80			Z
ONDR	11	1615E	1716D		N08	W19	.348	10134	10.3	61D	3B		V	1622			5.10		FHJ
CAPS	11	1615	1725D	1630	N09	W20	.369	10134	10.2	70D	2B	3	P	1630	9.00	9.50		369	
SACP	11	1615	1814	1637	N08	W22	.393	10134	10.0	119	2B		C		6.71	6.73			
MEUD	11	1616	1720	1622	N10	W20	.375	10134	10.2	64	2N		C	1622	5.67	6.00			Z
MCMA	11	1617E	1731D		N10	W20	.375	10134	10.2	74D	2B		C	1627	7.22	7.50			FY
ZURI	11	1618	1724	1624	N10	W18	.346	10134	10.3	66	2B		C	1624	10.09	10.90			
CATA	11	1620	1705D	1627	N11	W20	.382	10134	10.2	45D	2B			1627	5.57	6.00		347	Z
CANR	11	1621E	1645D	1632U	N10	W22	.404	10134	10.0	24D	1B		C		4.80	4.90			BE
CAPF	11	1628E	1700D		N11	W18	.354	10134	10.3	32D	2N		P	1632	8.66	9.42			
HOUS	11	1634E	1655	1634U	N10	W21	.390	10134	10.1	21D	2B		C		8.10	8.90			E
GRP23668	11	1635	1644	1639	S13	W23	.446	10135	10.0	9	--N				.51				5 5 5 12
SACP	11	1634	1643	1639	S13	W24	.460	10135	9.9	9	-N		C		.53	.53			
HALE	11	1634	1643	1639	S12	W23	.439	10135	10.0	9	-N	2	C	1639	.62	.70			
MCMA	11	1635	1646	1639	S15	W21	.437	10135	10.1	11	-B		C	1639	.83	.90			E
MEUD	11	1635	1643	1641	S13	W24	.460	10135	9.9	8	-F		C	1641	.41	.40			
CATA	11	1637	1643	1639	S11	W23	.432	10135	10.0	6	-B			1639	.14	.16		257	DZ
GRP23669	11	2047	2103	2049	N09	W24	.428	10134	10.1	16	--F				.80				2 2 2 4
HALE	11	2047	2107	2049	N09	W25	.443	10134	10.0	20	-F	2	C	2049	.77	.90			
MCMA	11	2047	2058	2049	N08	W23	.408	10134	10.1	11	-N		C	2049	.83	.90			E
GRP23670	11	2153	2200	2155	N10	W25	.448	10134	10.0	7	-N				1.16				3 3 3 4
SACP	11	2152	2200	2153	N13	W26	.479	10134	10.0	8	-N		C		1.26	1.29			
MCMA	11	2153E	2200D		N12	W27	.487	10134	9.9	7D	-B		C	2153	1.03	1.20			E
HOUS	11	2154	2200	2156U	N05	W23	.397	10134	10.2	6	-N		C		1.20	1.40			

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23671	11	2251	2304	2253	S11	W25	.460	10135	10.1	13	--N				.82				3 3 3 5
MANI	11	2251	2303		S10	W25	.454	10135	10.1	12	-N	2		2256	.26	.29			
MCMA	11	2251	2305	2253	S12	W25	.466	10135	10.1	14	-B		C	2253	.52	.60			EH
SACP	11	2251	2304	2253	S11	W24	.446	10135	10.2	13	-N		C		1.68	1.71			
673 SACP	11	2331	2340	2334	N10	W36	.602	10134	9.3	9	--F		C		.32	.34			3
GRP23674	12	0103	0139	0108	S17	W30	.565	10135	9.8	36	-N				1.31				2 2 2 3
SACP	12	0103	0139	0107	S17	W29	.553	10135	9.9	36	-N		C		1.59	1.68			
MANI	12	0105E	0120D	0109	S17	W30	.565	10135	9.8	15D	-N	1		0109	1.03	1.29			
676 MANI	12	0257	0316		S13	W28	.514	10135	10.0	19	-N	1		0305	1.13	1.33			2
GRP23683	12	0810	0854	0820	N14	W17	.366	10134	11.1	44	--F				1.10				3 2 2 13
CATA	12	0805E	0825D	0805	N14	W15	.342	10134	11.2	20D	-N			0805	.23	.25		195	
ABST	12	0810	0902	0816	N14	W16	.354	10134	11.1	52	-F		C	0816	1.35	1.40		50	E
ZURI	12	0810	0845	0823	N14	W18	.379	10134	11.0	35	-F		C	0823	.84	.90			
GRP23684	12	0941	0957	0943	N14	W35	.603	10134	9.8	16	-F				1.21				2 2 2 8
ZURI	12	0940	0948	0944	N14	W35	.603	10134	9.8	8	-N		C	0944	.61	.70			
ABST	12	0941	1005	0942	N14	W35	.603	10134	9.8	24	1F		C	0942	1.80	2.20		50	D
GRP23685	12	1057	1100	1058	S15	W31	.565	10135	10.1	3	--N				.43				2 2 2 8
MONT	12	1055	1059	1057	S16	W31	.571	10135	10.1	4	-N		C	1057	.10				
ZURI	12	1058	1100	1058	S14	W31	.559	10135	10.1	2	-N		C	1058	.75	.90			
GRP23688	12	1214	1244	1233	N09	W58	.851	10130	8.2	30	1F				1.60				2 2 1 6
ZURI	12	1214	1249	1233	N09	W55	.823	10130	8.4	35	1F		C	1233	1.60	2.80			
ONDR	12	1224E	1238		N08	W60	.868	10130	8.0	14D	1N		V	1230			1.50		C
GRP23695	12	1457	1531	1505	N14	W34	.590	10134	10.1	34	--N				.79				4 3 3 10
MCMA	12	1456	1527	1500	N13	W36	.612	10134	9.9	31	-N		C	1500	.62	.70			E
CAPS	12	1458	1520D	1508	N14	W30	.538	10134	10.4	22D	-B	2	S	1500	1.00	1.20		208	C
CATA	12	1507E	1535	1507	N16	W37	.637	10134	9.9	28D	-N			1507	.75	.97		195	
ZURI	12	1514E	1526	1520	N12	W36	.608	10134	9.9	12D	-F		P	1520	1.05	1.30			
GRP23698	12	1647	1715	1652	N20	W12	.385	10134	11.8	28	-N				1.09				6 6 5 8
HALE	12	1645	1727	1651	N21	W13	.407	10134	11.7	42	-N	2	C	1651	.93	1.00			F
MCMA	12	1646	1715	1650	N21	W12	.399	10134	11.8	29	-B		C	1650	1.03	1.10			E
SACP	12	1646	1725	1650	N20	W14	.402	10134	11.6	39	-N		C		1.58	1.58			
CAPS	12	1648E	1654D		N16	W10	.313	10134	12.0	6D	-N	2	S	1650	.70	.70		167	C
HOUS	12	1651	1701	1655	N22	W11	.405	10134	11.9	10	-N		C		1.20	1.30			
ONDR	12	1652E	1707		N19	W13	.380	10134	11.7	15D	-N		V	1653			2.00		CJ
GRP23702	12	2223	2256	2228	N09	W38	.626	10134	10.1	33	--F				.63				2 2 2 4
HALE	12	2220	2305	2226	N09	W37	.612	10134	10.2	45	-N	2	C	2226	.41	.50			
SACP	12	2225	2246	2230	N09	W38	.626	10134	10.1	21	-F		C		.85	.94			
GRP23703	12	2305	2325	2310	N09	W39	.639	10134	10.0	20	1N				1.55				3 3 3 4
SACP	12	2302	2324	2310	N08	W40	.650	10134	10.0	22	1N		C		2.10	2.37			
HALE	12	2307	2333	2309	N08	W39	.637	10134	10.0	26	1B	2	C	2309	1.55	2.00			F
HOUS	12	2309U	2318	2312	N10	W39	.641	10134	10.0	9D	-N		C		1.00	1.30			
	12	2359	0000	NO FLARE PATROL															
	12	2359	0000	NO FLARE PATROL															
704 SACP	13	0009	0025	0010	N11	W37	.618	10134	10.2	16	--N		C		.74	.81			2
GRP23705	13	0041	0135	0048	N14	W20	.404	10134	11.5	54	-N				1.41				2 2 2 3
SACP	13	0041	0114	0046	N14	W20	.404	10134	11.5	33	-N		C		1.37	1.37			
HALE	13	0049E	0155D	0050	N14	W19	.391	10134	11.6	66D	-N	1	P	0050	1.44	1.60			
	13	0212	0236	NO FLARE PATROL															
	13	0212	0236	NO FLARE PATROL															
GRP23708	13	0713	0731	(0714)	S22	E68	.940	10146	18.4	18	--F				.41				3 3 2 11
ONDR	13	0711E	0726		S23	E64	.917	10146	18.1	15D	-F		V	0712			1.60		CD
CAPS	13	0713E	0720D		S20	E70	.948	10146	18.6	7D	-F	4	V	0714	.40			150	CG
MEUD	13	0714	0736		S23	E70	.951	10146	18.6	22	-F		C	0716	.41				

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	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23714	13	1009	1051	1022	N11	W44	.706	10134	10.1	42	1N				2.16				7 7 6 7
CATA	13	1005	1045D	1020	N11	W43	.694	10134	10.2	40D	-B			1020	1.44	2.01		204	Z
MONT	13	1010	1041	1018	N13	W42	.687	10134	10.3	31	1N		C	1018	4.54				
ARCE	13	1011	1059D	1022	N10	W50	.772	10134	9.7	48D	1F		C	1022	1.71	2.60			
CAPS	13	1012E	1105		N10	W41	.667	10134	10.3	53D	1B	2	P	1015	1.80	2.30		220	C
ONDR	13	1012E	1057		N11	W46	.729	10134	10.0	45D	2N		V	1015			2.20		CH
UCCL	13	1016E	1043D	1023	N11	W43	.694	10134	10.2	27D	1N		P	1023	2.06				E
CANR	13	1025E	1048	1028U	N12	W42	.684	10134	10.3	23D	1N		C		1.40	2.10			
	13	1100	1105	NO FLARE PATROL															
	13	1112	1113	NO FLARE PATROL															
GRP23717	13	1126	1136	1129	N14	E82	.990	10148	19.6	10	-N				1.01				3 3 3 5
ZURI	13	1121	1135	1129	N14	E84	.995	10148	19.8	14	1N		C	1129	.89				
ABST	13	1127	1134	1128	N14	E82	.990	10148	19.6	7	-F		C	1128	1.35			53	EY
CAPS	13	1131	1138		N15	E79	.982	10148	19.4	7	-N	4	V	1133	.80				
7 STATIONS REPORTING GROUP 23722. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23722	13	1550	1808	1626	S24	E69	.947	10146	18.8	138	2B				4.96				6 6 4 8
SACP	13	1549	2000U	1633U	S24	E69	.947	10146	18.8	251D	3B		C		7.60	14.78			6 0
SACP	13	1549	2000U	1633U	S24	E69	.947	10146	18.8	251D	3B		C		7.60	14.78			
HOUS	13	1550	1800	1624	S24	E69	.947	10146	18.8	130	3N								
HOUS	13	1550	1800	1557	S24	E69	.947	10146	18.8	130	3N		C		6.00	15.00			EHKL
CANR	13	1551	1800	1623	S28	E70	.955	10146	18.9	129	2N		C						
CAPS	13	1553E	1712D		S22	E70	.950	10146	18.9	79D	3B	2	P	1621	6.00			237	CW
HALE	13	1555E	1815D	1623	S22	E66	.928	10146	18.6	140D	2B	3	P	1623	3.30				FU
LOCA	13	1615E	1649D	1625	S23	E68	.941	10146	18.8	34D	2N		V	1625	2.94				
23722	13	1551	1800	1645	S26	E70	.953	10146	18.9	129	*2N								2 2 0 7
HOUS	13	1550	1800	1645	S24	E69	.947	10146	18.8	130	3N								
CANR	13	1551	1800	1645	S28	E70	.955	10146	18.9	129	2N		C						
23722	13	1551	1800	1608	S28	E70	.955	10146	18.9	129	*2N				4.60				2 1 1 7
CANR	13	1551	1800	1608	S28	E70	.955	10146	18.9	129	2N		C		4.60	12.00			EHK
ONDR	13	1625E	1719D		S23	E59	.883	10146	18.1	54D	3F		V	1634			2.40		GHI
	13	1905	1930	NO FLARE PATROL															
	13	1905	1930	NO FLARE PATROL															
724 SACP	13	1954	2000	1955	S14	W53	.814	10135	9.9	6	--N		C		.53	.70			3
725 HALE	13	2133	2150	2135	N14	W36	.616	10134	11.2	17	--F	2	C	2135	.88	1.10			3
GRP23728	14	0044	0054	0047	S15	W52	.807	10135	10.1	10	--F				.63				2 2 2 4
MITK	14	0043	0058	0048	S13	W53	.813	10135	10.1	15	-F		C	0048	.93	1.50			E
SACP	14	0044	0050	0045	S17	W51	.802	10135	10.2	6	-F		C		.32	.42			
GRP23730	14	0056	0118	0100	N17	W39	.664	10134	11.1	22	--F				.52				2 2 2 5
SACP	14	0055	0110	0100	N17	W39	.664	10134	11.1	15	-F		C		.63	.72			
HALE	14	0056	0126	0100	N19	W38	.661	10134	11.2	30	-N	1	C	0100	.41	.60			F
HALE	14	0121	0130	0123	N14	W39	.653	10134	11.1	9	-N	1	C	0123	.21	.30			
GRP23732	14	0428	0450	0433	N12	W85	.996	10130	7.8	22	--F				.71				2 2 2 5
CULG	14	0427	0455D	0432	N12	W85	.996	10130	7.8	28D	1F		P	0432	.52				R
ABST	14	0429	0444	0434	N12	W85	.996	10130	7.8	15	-F		C	0434	.90			55	AD
	14	0530	0533	NO FLARE PATROL															
GRP23734	14	0727	0747	0730	S13	W59	.867	10135	9.9	20	--F				1.52				4 4 3 9
MONT	14	0724	0754	0731	S13	W57	.850	10135	10.0	30	1N		C	0731	3.09				
MEUD	14	0725	0740	0729	S13	W60	.875	10135	9.8	15	-F		C	0729	.36	.70			D
ONDR	14	0728E	0740		S11	W59	.865	10135	9.9	12D	-F		V	0729			2.30		CDJ
ARCE	14	0730	0755	0730	S15	W58	.861	10135	10.0	25	1F		C	0730	1.11	2.20			
GRP23735	14	0744	0802	0755	N11	W88	.999	10130	7.7	18	-N				.58				3 3 3 9
ARCE	14	0735	0805	0755	N10	W90	1.000	10130	7.6	30	-B		C	0755	.29	1.70			H
MONT	14	0748	0801	0755	N11	W88	.999	10130	7.7	13	-N		C	0755	1.13				
MEUD	14	0750	0801	0754	N11	W85	.996	10130	8.0	11	-F		C	0754	.31				D
GRP23740	14	1030	1119	1045	N10	W58	.851	10134	10.1	49	-N				1.53				7 6 5 7
MONT	14	1022	1127	1049	N11	W55	.824	10134	10.3	65	1N		C	1049	3.61				
CATA	14	1025	1125D	1040	N02	W56	.829	10134	10.2	60D	-N			1040	1.09	1.97		178	Z
ONDR	14	1030E	1117D		N11	W59	.861	10134	10.0	47D	1N		V	1041			2.80		CJ
KHAR	14	1033E	1051D		N11	W57	.843	10134	10.2	18D	1N		P	1042	1.70	3.20	2.30		D
HTPR	14	1035	1115	1045	N12	W60	.870	10134	9.9	40	-F		C	1045	.41	.80			Z
MEUD	14	1035	1110		N11	W58	.852	10134	10.1	35	-N		C	1040	.83	1.50			
MCMA	14	1114E	1145		N11	W57	.843	10134	10.2	31D	-N		C	1115	.83	1.50			E

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	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23744	14	1424	1428	1424	S16	W60	.879	10135	10.1	4	--N				.19				2 2 2 5
SACP	14	1422	1425	1423	S17	W59	.873	10135	10.2	3	-N	8	C		.21	.32			
CATA	14	1425	1430D	1425	S14	W60	.877	10135	10.1	5D	-N	8		1425	.17	.35		170	
747 SACP	14	1736	1739	1737	S18	W61	.890	10135	10.2	3	--N		C		.32	.50			1
GRP23748	14	1903	1919	1909	N07	W76	.970	10134	9.1	16	-N				.84				2 2 2 3
HALE	14	1900	1924	1909	N08	W75	.966	10134	9.2	24	1B	2	C	1909	.83				
SACP	14	1906	1913	1909	N05	W76	.970	10134	9.1	7	-F		C		.85	1.90			
GRP23749	14	2038	2341	2108	S11	W65	.911	10135	10.0	183	2B				3.23				4 2 2 4
SACP	14	2037	2321	2112	S12	W66	.919	10135	9.9	164	2N		C		3.05	5.22			
HALE	14	2038	2043D	2043	S10	W65	.911	10135	10.0	5D	1B	2	C	2043	1.65				FH
HALE	14	2104E	0000	2104	S10	W63	.896	10135	10.2	176D	2B	2	C	2104	3.40	7.60			FH
MANI	14	2150E	2235		S13	W62	.891	10135	10.3	45D	1B	1		2152	2.58	4.93			
CULG	14	2203E	2258D		S11	W60	.873	10135	10.4	55D	1B		P	2223	2.27	4.95			E
MANI	14	2253E	2300D		S13	W62	.891	10135	10.3	7D	-N	2		2255	1.03	1.97			
750 HALE	14	2102	2116	2103	S17	E66	.923	10146	19.8	14	--N	1	C	2103	.15				2
GRP23751	14	2238	2245	2240	S16	E66	.922	10146	19.9	7	--N				.37				2 2 2 4
HALE	14	2238	2246	2239	S16	E65	.916	10146	19.8	8	-N	1	C	2239	.21				
SACP	14	2238	2243	2240	S16	E66	.922	10146	19.9	5	-N		C		.53	.91			
GRP23753	14	2330	2350	2332	N11	W65	.909	10134	10.1	20	-B				.73				2 2 2 3
SACP	14	2330	2345	2333	N10	W65	.908	10134	10.1	15	-N		C		.63	1.06			
HALE	14	2330	2355	2331	N12	W64	.902	10134	10.2	25	1B	1	C	2331	.83				
755 MITK	15	0025	0044	0030	S08	W70	.942	10135	9.8	19	--N		C	0030	.52				E 3
756 HALE	15	0106	0114	0106	N16	W45	.729	10134	11.7	8	--B	2	C	0106	.21	.30			V 3
757 HALE	15	0120	0131	0121	N19	W61	.886	10134	10.5	11	--N	2	C	0121	.31	.70			C 3
GRP23758	15	0341	0455	0401	S16	W63	.902	10135	10.4	74	1N				1.36				5 5 5 5
HALE	15	0332	0338D	0338	S14	W60	.877	10135	10.6	6D	-B	1	P	0338	.52	1.10			FK
MANI	15	0333	0450	0356	S15	W64	.908	10135	10.3	77	1N	2		0356	1.55	3.11			
TACH	15	0348	0502	0406	S17	W66	.923	10135	10.2	74	1N		C	0406	1.19		2.20	66	E
MITK	15	0358	0457D	0403	S16	W61	.887	10135	10.6	59D	1F		C	0403	1.24	2.60			E
HALE	15	0358E	0450D	0358	S15	W60	.878	10135	10.7	52D	1B	1	P	0358	1.03	2.20			FK
ABST	15	0402E	0454D	0404	S16	W64	.909	10135	10.4	52D	1F		P	0404	1.80	4.30		55	EK
GRP23760	15	0424	0432	0426	S18	E40	.691	10146	18.2	8	--F				.52				2 2 2 4
MANI	15	0423	0431D	0426	S19	E40	.696	10146	18.2	8D	-F	2		0426	.52	.70			
HALE	15	0424	0432	0425	S17	E39	.675	10146	18.1	8	-N	2	C	0425	.52	.70			
GRP23761	15	0436	0450	0439	N08	E35	.582	10144	17.8	14	--F				.47				2 2 2 4
HALE	15	0436	0450D		N09	E34	.570	10144	17.7	14D	-N	2	P	0438	.52	.60			F
MANI	15	0436E	0444D	0439	N07	E35	.579	10144	17.8	8D	-F	2		0439	.41	.50			
GRP23763	15	0831	0855	0839	S18	W76	.974	10135	9.7	24	1N				1.70				9 9 8 9
MANI	15	0830	0858	0836	S17	W74	.966	10135	9.8	28	1N	2		0836	1.13	2.64			
CATA	15	0830E	0855	0835	S16	W74	.966	10135	9.8	25D	-B			0835	.69			229	
ZURI	15	0830	0852	0842	S18	W76	.974	10135	9.7	22	2B		C	0842	2.63				
MONT	15	0831	0856	0843	S19	W77	.978	10135	9.6	25	1B		C	0843	3.20				
MEUD	15	0831	0855	0841	S17	W74	.966	10135	9.8	24	1N		C	0841	1.24				
ONDR	15	0832E	0855		S19	W75	.971	10135	9.7	23D	2N		V	0843			3.60		JK
HTPR	15	0832	0855	0843	S17	W78	.981	10135	9.5	23	-N		C	0843	.93				W
CANR	15	0832	0855	0834	S18	W75	.971	10135	9.7	23	1N		C		.90	2.50			H
KHAR	15	0835E	0851D		S17	W77	.978	10135	9.6	16D	2N		P	0844	2.84				O
GRP23764	15	0927	1012	0938	S12	W73	.959	10135	9.9	45	1N				1.05				9 9 8 11
CATA	15	0925	0950D	0945	S10	W72	.954	10135	10.0	25D	-N			0945	.29			174	
ZURI	15	0926	1016	0940	S12	W74	.964	10135	9.8	50	2B		C	0940	2.73				
MONT	15	0926	0952	0928	S12	W72	.954	10135	10.0	26	-N		C	0928	1.34				
MANI	15	0926	0938D	0930	S12	W72	.954	10135	10.0	12D	1N	2		0930	1.44	3.20			
HTPR	15	0930	1010	0938	S12	W75	.968	10135	9.8	40	-F		C	0938	.21				E
ONDR	15	0931E	1015	0935	S12	W70	.944	10135	10.1	44D	1N		V	0935			2.40		J
HERS	15	0939E	0949D	0939U	S12	W74	.964	10135	9.9	10D	1N		S	0940	.72	2.80			E
MEUD	15	0939E	0946D		S12	W72	.954	10135	10.0	7D	-F		C	0939	.83				
CANR	15	0947E	1025D	0947E	S12	W73	.959	10135	9.9	38D	1N		C		.80	2.10			
GRP23766	15	1148	1158	1154	N22	W06	.371	10147	15.0	10	--F				.52				2 2 1 4
ONDR	15	1147	1158		N20	W06	.340	10147	15.0	11	-F		V	1152			1.70		CH
HTPR	15	1149	1157	1154	N24	W05	.399	10147	15.1	8	-F		C	1154	.52	.60			
	15	1441	1445	NO FLARE PATROL															
	15	1542	1546	NO FLARE PATROL															

SOLAR FLARES
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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23767	15	1557	1604	1559	S16	W73	.961	10135	10.2	7	--B				.34				3 3 3 3
CAPS	15	1556E	1604D	1600	S16	W75	.970	10135	10.0	8D	-B	1	S	1600	.40				
HALE	15	1557	1603	1559	S15	W70	.945	10135	10.4	6	-B	1	C	1559	.31				
MEUD	15	1557	1604	1559	S17	W75	.970	10135	10.0	7	-N		C	1559	.31				
768 HALE	15	1603	1638	1606	S09	E55	.826	10146	19.8	35	--B	2	C	1606	.31	.50			3
769 HALE	15	1658	1718	1659	N20	W53	.821	10134	11.7	20	--B	2	C	1659	.41	.70			FV 3
770 HALE	15	1738	1743	1739	S15	W71	.951	10135	10.4	5	--B	2	C	1739	.21				1
771 HALE	15	1746	1820	1749	S15	W68	.934	10135	10.6	34	1B	2	C	1749	1.34				1
772 HALE	15	1916	1924	1919	S16	W67	.929	10135	10.8	8	--B	2	C	1919	.10				D 1
773 HALE	15	2020	2039	2021	S21	E56	.857	10146	20.0	19	--B	1	C	2021	.21	.40			3
774 HALE	15	2025	2042	2027	N25	W10	.436	10147	15.1	17	--N	1	C	2027	.62	.70			F 3
775 HALE	15	2106	2115	2108	S21	E54	.840	10146	19.9	9	--B	1	C	2108	.26	.50			3
776 HALE	15	2121	2132	2123	S15	E25	.492	10146	17.8	11	--N	2	C	2123	.31	.40			3
GRP23792	16	1240	1259	1241	S18	W89	1.000	10135	9.9	19	-N				.27				3 3 2 9
MONT	16	1239	1258	1241	S19	W88	1.000	10135	9.9	19	-N		C	1241	.21				
SACP	16	1240	1245D	1241	S18	W90	1.000	10135	9.8	5D	-N		C		.32				
ONDR	16	1241E	1259		S17	W88	1.000	10135	9.9	18D	1F		V	1243			1.90		ACKR
GRP23794	16	1534	1555	1539	S17	E15	.397	10146	17.8	21	--N				.60				3 3 3 6
MCMA	16	1533	1549	1535	S17	E15	.397	10146	17.8	16	-N		C	1535	.62	.70			E
SACP	16	1534	1546D	1541	S17	E15	.397	10146	17.8	12D	-N		C		.42	.42			
CATA	16	1535E	1600	1540	S18	E14	.400	10146	17.7	25D	-N			1540	.75	.82		158	
796 MCMA	16	2025E	2034		N09	E12	.247	10144	17.8	9D	--N		C	2025	.62	.70			E 3
GRP23799	16	2305	2339	2313	N25	W23	.539	10147	15.2	34	--F				1.59				3 3 3 5
CULG	16	2256	2345	2313	N26	W23	.549	10147	15.2	49	1N		C	2313	2.06	2.40			
HOUS	16	2309	2327	2311	N25	W24	.549	10147	15.2	18	-F		C		.80	1.00			
SACP	16	2310	2345	2315	N24	W23	.529	10147	15.2	35	-F		C		1.90	2.00			
GRP23811	17	1402	1429	1409	S18	E30	.577	10146	19.8	27	-N				1.24				9 9 9 10
MCMA	17	1355	1452	1407	S18	E30	.577	10146	19.8	57	-N		C	1407	1.19	1.50			EL
CATA	17	1400E	1435	1405	S20	E29	.580	10146	19.8	35D	-N			1405	.52	.64		158	
HTPR	17	1402	1414	1408	S20	E30	.592	10146	19.8	12	-F		C	1408	.41	.50			
CANR	17	1402	1425	1406	S18	E29	.565	10146	19.8	23	-N		C		.80	1.00			
SACP	17	1403	1416	1405	S17	E30	.570	10146	19.8	13	-F		C		.63	.68			
MONT	17	1403	1429	1412	S19	E31	.596	10146	19.9	26	1N		C	1412	2.58				
ARCE	17	1405E	1435	1406	S15	E27	.519	10146	19.6	30D	-N		C	1406	1.11	1.30			
HOUS	17	1406	1430	1413	S17	E30	.570	10146	19.8	24	-F		C		1.40	1.70			
ZURI	17	1410E	1428	1418	S18	E32	.600	10146	20.0	18D	1F		C	1418	2.52	3.10			
GRP23814	17	1640	1706	1644	N15	W36	.617	10147	15.0	26	-N				1.36				9 9 9 9
MCMA	17	1608	1645	1612	N19	W32	.588	10147	15.3	37	-F	8	C	1612	.31	.40			D
MCMA	17	1632	1730D	1643	N15	W37	.630	10147	14.9	58D	-B	8	C	1643	1.03	1.40			EV
MONT	17	1636	1700	1644	N15	W37	.630	10147	14.9	24	-B	8	C	1644	1.13				
CATA	17	1640	1650D	1640	N18	W35	.619	10147	15.1	10D	-F	8		1640	1.09	1.34		138	
HOUS	17	1642	1705	1645	N14	W36	.613	10147	15.0	23	-N	8	C		1.50	2.00			E
HALE	17	1642	1714	1645	N15	W38	.642	10147	14.8	32	-N	2	C	1645	1.44	1.90			F
SACP	17	1642	1655	1645	N14	W37	.626	10147	14.9	13	-F	8	C		1.06	1.17			
ZURI	17	1642	1647D	1645	N15	W33	.579	10147	15.2	5D	-N	8	P	1645	.53	.70			
CANR	17	1643	1653	1646	N15	W38	.642	10147	14.8	10	-N	8	C		1.00	1.30			
CAPS	17	1643	1705D	1647	N15	W33	.579	10147	15.2	22D	1N	2	V	1650	3.50	4.20		182	
GRP23816	17	1722	1742	1728	N20	E13	.385	10148	18.7	20	--F				1.25				2 2 2 6
HALE	17	1722	1751	1727	N20	E13	.385	10148	18.7	29	-F	3	C	1727	1.55	1.70			CF
SACP	17	1722	1732	1728	N20	E13	.385	10148	18.7	10	-F		C		.95	.95			
GRP23818	18	0038	0115	0042	N14	E28	.507	10148	20.1	37	--F				.21				2 1 1 5
HALE	18	0038	0115	0042	N14	E28	.507	10148	20.1	37	-F	2	C	0042	.21	.20			
MANI	18	0115E	0127	0116	N05	E26	.442	10148	20.0	12D	-F	2		0116	.41	.45			
GRP23819	18	0310	0336	0318	S18	W02	.333	10146	18.0	26	--F				.60				2 2 2 5
HALE	18	0310	0342	0318	S17	W01	.315	10146	18.1	32	-N	3	C	0318	.57	.60			
MANI	18	0320E	0330		S18	W02	.333	10146	18.0	10D	-F	2		0322	.62	.66			
GRP23820	18	0416	0440	0419	N16	W42	.693	10147	15.0	24	-N				1.34				3 3 3 4
CULG	18	0357	0444	0418	N16	W42	.693	10147	15.0	47	1N		C	0418	2.48	2.96			S
HALE	18	0415	0439	0418	N17	W43	.708	10147	15.0	24	-N	1	C	0418	.52	.70			
MANI	18	0416	0436	0421	N15	W42	.690	10147	15.0	20	-N	2		0421	1.03	1.40			

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OBSERVATORY	OBSERVED UT DATE 1969 JUNE	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP23827	18	1116	1135	1120	N22	W44	.737	10147	15.2	19	-N				1.23				5 5 3 5
HURB	18	1110	1135		N22	W44	.737	10147	15.2	25	1N						2.20		
MONT	18	1117	1137	1119	N23	W43	.731	10147	15.2	20	-N		C	1119	1.34				
CAPS	18	1118E	1131D	1122	N23	W43	.731	10147	15.2	13D	1N	3	V	1124	2.00	2.80		168	
CATA	18	1120	1140	1120	N22	W45	.748	10147	15.1	20	-N			1120	.34	.52		153	
ONDR	18	1121E	1130		N22	W46	.758	10147	15.0	9D	-F		V	1124			1.70		CDJ
GRP23828	18	1215	1345	1254	N08	E16	.297	10148	19.7	90	-N				1.27				3 3 1 9
CATA	18	1215	1345	1250	N05	E17	.298	10148	19.8	90	-N			1250	1.27	1.33		172	
BOUL	18	1246	1305D	1257	N08	E17	.312	10148	19.8	19D	-N		V						
ONDR	18	1248E	1258D		N10	E15	.296	10148	19.7	10D	1F		V	1249			1.40		J
GRP23829	18	1258	1322	1301	N24	W46	.765	10147	15.1	24	--F				1.11				6 6 4 9
BOUL	18	1256	1320D	1258	N23	W42	.721	10147	15.4	24D	-F		V						
CANR	18	1256	1312	1301	N25	W45	.759	10147	15.2	16	-N		C		1.10	1.70			E
HURB	18	1259	1329		N23	W45	.751	10147	15.2	30	1F						1.60		
CATA	18	1300	1335	1300	N24	W45	.755	10147	15.2	35	-N			1300	.58	.88		178	
SACP	18	1300	1313	1305	N25	W50	.806	10147	14.8	13	-F		C		.64	.84			
CAPS	18	1304E	1322D		N21	W47	.764	10147	15.0	18D	-F	2	P	1306	2.10	2.90		152	
GRP23831	18	1352	1414	1357	S13	W02	.250	10146	18.4	22	--F				1.20				7 7 5 9
CATA	18	1350	1425	1355	S05	W02	.116	10146	18.4	35	-F			1355	1.56	1.62		148	
SACP	18	1351	1423	1357	S14	W01	.265	10146	18.5	32	-N		C		1.26	1.24			
CANR	18	1352	1408	1355	S15	W02	.284	10146	18.4	16	-N		C		1.10	1.20			
ONDR	18	1353E	1411		S15	W02	.284	10146	18.4	18D	1F		V	1357			1.60		CJ
BOUL	18	1353	1410	1400	S13	E00	.248	10146	18.6	17	-F		V						
HOUS	18	1354	1407	1356	S16	W02	.300	10146	18.4	13	-N		C		1.00	1.00			
CAPS	18	1356E	1412D		S14	W02	.267	10146	18.4	16D	-F	2	V	1358	1.10	1.10		150	
GRP23832	18	1438	1508	1444	N07	E18	.322	10148	20.0	30	-N				1.67				7 7 6 10
BOUL	18	1425	1513	1445	N08	E20	.358	10148	20.1	48	1N		V						
CANR	18	1429	1510	1440	N03	E20	.343	10148	20.1	41	1N		C		2.80	2.90			EK
CANR	18	1429	1510	1453	N03	E20	.343	10148	20.1	41	1N		C						
CATA	18	1435	1600	1445	N06	E17	.302	10148	19.9	85	-B			1445	1.39	1.45		204	
HOUS	18	1439E	1455	1440U	N07	E17	.307	10148	19.9	16D	-N		C		1.70	1.80			E
HERS	18	1441	1507	1446	N07	E18	.322	10148	20.0	26	1N		S	1447	2.17	2.30			E
CAPS	18	1442E	1458D		N06	E16	.286	10148	19.8	16D	-B	2	P	1444	.80	.80		208	E
SACP	18	1443	1523	1450	N09	E16	.303	10148	19.8	40	-N		C		1.16	1.14			
9 STATIONS REPORTING GROUP 23833. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23833	18	1520	1546	1525	N09	E13	.259	10148	19.6	26	-N				1.13				8 7 5 10
SACP	18	1519	1601	1524	N10	E12	.254	10148	19.5	42	-N		C		1.68	1.65			
CANR	18	1520	1536	1526	N09	E12	.245	10148	19.5	16	-N		C		.90	1.00			H
BOUL	18	1520	1537	1526	N11	E13	.278	10148	19.6	17	-B		V						
CATA	18	1520	1550	1525	N08	E13	.251	10148	19.6	30	-B			1525	.69	.72		246	
ONDR	18	1521	1537	1524	N09	E11	.231	10148	19.5	16	1N		V	1524			2.60		CHJ
HOUS	18	1521E	1532	1523U	N07	E14	.260	10148	19.7	11D	-N		C		1.70	1.80			
CAPS	18	1521E	1539D		N08	E15	.282	10148	19.8	18D	-N	2	V	1523	.70	.70		182	CHJ
CATA	18	1525	1550	1530	N05	E13	.233	10148	19.6	25	-B			1530	.46	.48		211	
HURB	18	1549	1612		N08	E14	.266	10148	19.7	23	1F						2.00		
23833	18	1529	1556	1539	N08	E16	.297	10148	19.8	27	*-N				1.03				2 2 1 9
BOUL	18	1529	1556	1539	N08	E17	.312	10148	19.9	27	-N		V						
MCMA	18	1535E	1535D		N07	E15	.275	10148	19.8		-N		P	1535	1.03	1.10			E
GRP23835	18	1640	1702	1648	N27	W90	1.000	10134	11.9	22	-N				.54				3 2 2 9
HALE	18	1638	1709	1648	N27	W89	1.000	10134	12.0	31	1N	3	C	1648	.57				
BOUL	18	1641	1654	1647	N26	W90	1.000	10134	11.9	13	-N		C		.50	1.70			
SACP	18	1644	1657	1648	N25	W80	.986	10134	12.7	13	-F		C		.73				
GRP23837	18	1715	1729	1720	N09	E12	.245	10148	19.6	14	--B				.67				6 6 4 8
MCMA	18	1711E	1720		N07	E14	.260	10148	19.8	9D	-N		C	1712	.83	.90			E
HALE	18	1712	1728	1717	N07	E14	.260	10148	19.8	16	-N	3	C	1717	.46	.50			
SANM	18	1713	1722	1715	N05	E14	.249	10148	19.8	9	-F	1	C		.17	.17			E
ONDR	18	1716	1727	1720	N09	E10	.217	10148	19.5	11	1B		V	1720			3.10		CHJ
BOUL	18	1719	1731	1721	N11	E13	.278	10148	19.7	12	-N		V						
SACP	18	1719	1731	1721	N10	E11	.241	10148	19.5	12	-N		C		1.05	1.03			
MCMA	18	1719	1723D		N10	E12	.254	10148	19.6	4D	-B		P	1720	.52	.60			FHKL
SANM	18	1720	1730	1721	N10	E11	.241	10148	19.5	10	-B	1	C		.64	.65			E
HALE	18	1720	1745	1721	N11	E11	.252	10148	19.5	25	-N	3	C	1721	.46	.50			H

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23838	18	1731	1745	1734	N10	E06	.182	10148	19.2	14	-B				2.17				7 7 7 8
HALE	18	1730	1748	1735	N11	E06	.197	10148	19.2	18	1B	3	C	1735	4.18	4.30			H
CANR	18	1731	1740	1733	N09	E07	.180	10148	19.3	9	-B		C		1.00	1.00			H
SACP	18	1731	1747	1735	N10	E06	.182	10148	19.2	16	1B		C		2.31	2.26			
HOUS	18	1732	1743	1733	N09	E06	.169	10148	19.2	11	-B		C		1.90	1.90			H
MCMA	18	1732E	1743D		N10	E06	.182	10148	19.2	11D	-B		P	1733	1.03	1.10			EH
SANM	18	1732	1746	1733	N10	E07	.193	10148	19.3	14	-F	1	C		2.57	2.60			
SANM	18	1732	1746	1733	N10	E07	.193	10148	19.3	14	-F	1	C		1.29	1.30			EW
BOUL	18	1732	1744	1736	N10	E06	.182	10148	19.2	12	1N		C		2.20	2.20			EH
BOUL	18	1732	1745	1733	N10	E09	.215	10148	19.4	13	-N		V						
GRP23839	18	2108	2120	2112	N09	E09	.204	10148	19.6	12	--N				.81				4 4 3 5
MCMA	18	2105E	2214D		N07	E11	.214	10148	19.7	69D	-B		C	2110	1.13	1.20			E
SACP	18	2108	2120	2111	N09	E07	.180	10148	19.4	12	-N		C		.73	.72			
BOUL	18	2109	2119	2112	N10	E09	.215	10148	19.6	10	-N		V						
HALE	18	2110	2120	2113	N10	E07	.193	10148	19.4	10	-N	2	C	2113	.57	.60			
GRP23840	18	2227	2248	2235	S18	W11	.377	10146	18.1	21	-N				1.04				3 3 2 5
BOUL	18	2226	2247	2237	S15	W12	.345	10146	18.0	21	-N		V						
SACP	18	2227	2250	2233	S18	W12	.385	10146	18.0	23	-N		C		1.05	1.05			
MANI	18	2228	2248	2234	S20	W10	.399	10146	18.2	20	-N	2		2234	1.03	1.03			
GRP23841	18	2243	2251	2245	N11	E08	.216	10148	19.5	8	--N				.52				2 2 2 4
SACP	18	2242	2249	2245	N10	E08	.204	10148	19.5	7	-N		C		.63	.62			
HALE	18	2243	2253	2245	N11	E08	.216	10148	19.5	10	-N	2	C	2245	.41	.40			
4 STATIONS REPORTING GROUP 23842. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23842	18	2336	2351	2340	N09	E05	.159	10148	19.4	15	-B				1.28				3 3 3 5
MANI	18	2332	2350	2341	N08	E05	.144	10148	19.4	18	-N	2		2341	.83	.83			
SACP	18	2337	2348	2340	N09	E06	.169	10148	19.4	11	-B		C		1.58	1.55			
HALE	18	2339	2356	2340	N09	E05	.159	10148	19.4	17	-B	2	C	2340	1.44	1.50			V
842 BOUL	18	2340E	2348	2340	N19	W07	.325	10148	18.5	8D	*-N		S						5
843 BOUL	18	0051	0000	0058	N10	E09	.215	10148	18.7		--F		V						1 0 1
GRP23845	19	0053	0118	0059	N09	E09	.203	10148	19.7	25	-N				1.83				3 3 2 6
BOUL	19	0051	0058D	0058	N10	E09	.214	10148	19.7	7D	-F		V						
HALE	19	0052	0125	0058	N10	E09	.214	10148	19.7	33	-N	1	C	0058	1.55	1.60			F
CRON	19	0056	0110	0101	N08	E10	.206	10148	19.8	14	1N		C		2.10	2.10			E
GRP23847	19	0221	0246	0224	N16	W55	.830	10147	15.0	25	1N				1.32				3 3 3 3
MANI	19	0220	0240	0222	N14	W55	.827	10147	15.0	20	-N	2		0222	.83	1.43			
HALE	19	0221	0305D	0224	N17	W56	.840	10147	14.9	44D	1B	2	P	0224	1.34	2.50			
CRON	19	0223	0234	0225	N18	W56	.842	10147	14.9	11	1N		C		1.80	3.20			
MANI	19	0258E	0316		N14	W54	.817	10147	15.1	18D	-F	1		0258	.77	1.29			
GRP23852	19	1224	1242	1232	N08	E03	.125	10148	19.7	18	-N				1.11				5 5 4 8
MONT	19	1221	1239D	1230	N08	E04	.133	10148	19.8	18D	1N		C	1230	2.37				
SANM	19	1224	1235	1230	N07	E01	.098	10148	19.6	11	-F	2	C		.48	.50			E
HTPR	19	1225	1236	1230	N07	E02	.102	10148	19.7	11	-N		C	1230	1.24	1.20			
BOUL	19	1226	1247	1232	N08	E04	.133	10148	19.8	21	-N		V						
CATA	19	1240	1255	1240	N08	E03	.125	10148	19.8	15	-N			1240	.34	.35		195	
GRP23853	19	1238	1248	1239	N09	W26	.453	10144	17.6	10	--N				.33				3 3 2 8
SANM	19	1237	1249	1238	N08	W27	.464	10144	17.5	12	-F	2	C		.32	.35			E
BOUL	19	1238	1245	1239	N09	W25	.438	10144	17.7	7	-N		V						
CATA	19	1240	1250	1240	N10	W27	.472	10144	17.5	10	-N			1240	.34	.39		155	
GRP23856	19	1440	1448	1442	N07	E01	.098	10148	19.7	8	--F				.49				4 4 3 8
SACP	19	1438	1449	1441	N07	E02	.102	10148	19.8	11	-F		C		.53	.52			
SANM	19	1439	1448	1441	N07	E01	.098	10148	19.7	9	-F	2	C		.32	.30			E
HTPR	19	1441	1446	1442	N07	E01	.098	10148	19.7	5	-F		C	1442	.62	.60			E
BOUL	19	1442	1450	1443	N08	E01	.115	10148	19.7	8	-F		V						
GRP23858	19	1538	1558	1546	N07	E01	.098	10148	19.7	20	-N				2.31				8 8 8 11
SANM	19	1535	1548D		N06	E01	.081	10148	19.7	13D	1N	2	P	1544	2.25	2.25			E
LOCA	19	1538	1554	1541	N07	E00	.096	10148	19.7	16	-N		V	1541	1.05	1.00			
BOUL	19	1538	1604	1543	N08	E02	.119	10148	19.8	26	1N		V						
HTPR	19	1539	1602	1549	N07	E00	.096	10148	19.7	23	1B		C	1543	2.37	2.30			E
SACP	19	1540	1552	1545	N07	E01	.098	10148	19.7	12	-N		C		1.47	1.46			
BOUL	19	1541U	1551	1544U	N08	E01	.115	10148	19.7	10D	1N		C		4.10	4.10			
HOUS	19	1543E	1547D	1545	N08	E01	.115	10148	19.7	4D	-N		C		1.50	1.50			
HALE	19	1546E	1610	1546	N08	E00	.114	10148	19.7	24D	-N	2	P	1546	1.44	1.50			
HERS	19	1549E	1600	1549U	N06	E04	.105	10148	20.0	11D	1N		P	1550	4.33	4.30			L

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23859	19	1545	1621	1553	S17	E03	.321	10146	19.9	36	1N				2.66				10 10 10 10
SANM	19	1535	1548D		S19	E02	.351	10146	19.8	13D	-N	2	P	1545	.80	.85			E
HTPR	19	1543	1613	1552	S18	E01	.334	10146	19.7	30	-B	8	C	1552	1.75	1.80			
BOUL	19	1543	1625	1552	S13	E01	.250	10146	19.7	42	1B	8	V						
SACP	19	1544	1617	1554	S18	E02	.335	10146	19.8	33	1N	8	C		2.74	2.72			
LOCA	19	1545	1630	1553	S18	E03	.337	10146	19.9	45	1B	8	V	1553	2.94	3.10			
HALE	19	1546E	1646	1556	S16	E03	.304	10146	19.9	60D	1N	2	P	1556	2.78	2.90			FGH
BOUL	19	1547U	1603	1551U	S19	E04	.356	10146	20.0	16D	2N	8	C		5.00	5.30			E
HERS	19	1549E	1608	1551	S16	E05	.312	10146	20.0	19D	-B	8	P	1552	1.01	1.80			E
HOUS	19	1549	1611	1554	S18	E04	.340	10146	20.0	22	1B	8	C		3.10	3.40			E
ARCE	19	1552E	1620D	1554	S18	E01	.334	10146	19.7	28D	1F	8	C	1554	2.89	3.00			
ZURI	19	1555E	1600D		S17	E04	.324	10146	20.0	5D	1N	8	P	1558	3.57	3.80			
GRP23864	19	1745	1853	1756	N09	E01	.132	10148	19.8	68	1N				2.85				6 6 5 7
HTPR	19	1742	1826	1800	N08	E00	.114	10148	19.7	44	1B		C	1800	3.09	3.00			EI
BOUL	19	1742E	1909	1754	N12	E02	.186	10148	19.9	87D	1N		V						
HALE	19	1744	2014	1753	N10	E01	.149	10148	19.8	150	1N	2	C	1753	2.11	2.10			FZJ
SACP	19	1746	1821	1801	N08	E00	.114	10148	19.7	35	1N		C		3.27	3.22			
CANR	19	1749	1845	1752	N08	E04	.133	10148	20.0	56	1N		C		3.70	4.10			EH
HOUS	19	1749	1845	1755	N09	E01	.132	10148	19.8	56	1N		C		2.10	2.10			EK
HOUS	19	1749	1845	1803	N09	E01	.132	10148	19.8	56	1N								
GRP23865	19	2006	2029	2011	N15	W66	.917	10147	14.9	23	--N				.48				3 3 2 4
HALE	19	2005E	2034	2011	N15	W68	.930	10147	14.7	29D	-B	2	P	2011	.41				
BOUL	19	2006E	2034D	2010	N17	W64	.904	10147	15.0	28D	-N		V						
SACP	19	2008	2019	2011	N13	W66	.916	10147	14.9	11	-N		C		.54	.92			
866 HALE	19	2028	2047	2031	N12	W29	.509	10144	17.7	19	--F	2	C	2031	.10	.10			H 3
GRP23867	19	2130	2144	2134	N09	W31	.526	10144	17.6	14	--N				.64				2 2 1 5
BOUL	19	2129	2146	2134	N09	W30	.512	10144	17.6	17	-N		V						
SACP	19	2131	2142	2134	N08	W32	.538	10144	17.5	11	-N		C		.64	.67			
GRP23871	19	2323	2338	2326	S16	W02	.302	10146	19.8	15	--F				.43				4 4 3 7
MANI	19	2322	2336	2325	S19	W01	.350	10146	19.9	14	-F	2		2325	.72	.77			
HALE	19	2323	2339D	2326	S14	W03	.271	10146	19.7	16D	-F	1	P	2326	.15	.20			
SACP	19	2324	2335	2325	S17	W03	.321	10146	19.8	11	-F		C		.42	.42			
BOUL	19	2325E	2340D	2328	S12	W02	.235	10146	19.8	15D	-N		V						
GRP23873	20	0129	0138	0132	N11	E74	.961	10158	25.6	9	-B				.52				3 3 3 6
HALE	20	0129	0134	0131	N12	E74	.961	10158	25.6	5	-B	1	C	0131	.41				
MANI	20	0129	0143	0135	N11	E75	.966	10158	25.7	14	-N	2		0135	.83	2.00			
SACP	20	0130	0136	0131	N10	E72	.951	10158	25.5	6	-B		C		.32	.65			
GRP23874	20	0153	0214	0157	S16	W04	.309	10146	19.8	21	--N				.56				3 3 3 6
MANI	20	0150	0220D	0158	S17	W03	.323	10146	19.9	30D	-F	2		0158	.41	.44			
HALE	20	0154	0207	0157	S14	W04	.277	10146	19.8	13	-N	1	C	0157	.62	.60			F
SACP	20	0154	0159D	0156	S16	W04	.309	10146	19.8	5D	-N		C		.66	.66			
GRP23875	20	0223	0252	0225	N10	W02	.150	10148	19.9	29	-B				1.24				2 1 1 4
HALE	20	0223	0252	0225	N10	W02	.150	10148	19.9	29	-B	1	C	0225	1.24	1.30			F
MANI	20	0239E	0307D		N08	W02	.117	10148	20.0	28D	-F	2		0241	.83	.83			
876 HALE	20	0225	0237	0228	N11	E73	.956	10158	25.6	12	-B	2	C	0228	.52				3
GRP23877	20	0311	0330	0317	N12	E73	.957	10158	25.6	19	-N				.57				2 2 2 7
HALE	20	0311	0329	0317	N11	E72	.951	10158	25.5	18	1B	2	C	0317	.62				
MITK	20	0322E	0330		N12	E74	.961	10158	25.7	8D	-F		C	0322	.52				DG
8 STATIONS REPORTING GROUP 23884. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23884	20	1329	1357	1336	N09	W10	.215	10148	19.8	28	-N				1.83				6 6 6 8
HTPR	20	1324	1354	1336	N09	W10	.215	10148	19.8	30	1N		C	1336	2.17	2.20			E
CAPE	20	1329	1405	1337	N10	W11	.238	10148	19.7	36	-F		C	1337	1.21	1.20			F
MONT	20	1330	1355	1331	N10	W09	.213	10148	19.9	25	-N		C	1333	1.55				
HOUS	20	1330	1350	1334	N09	W09	.201	10148	19.9	20	-N		C		1.50	1.50			E
SACP	20	1333	1402	1338	N09	W11	.229	10148	19.7	29	1N		C		2.34	2.29			
ZURI	20	1335E	1355	1337	N09	W09	.201	10148	19.9	20D	1N		P	1337	2.21	2.20			
23884	20	1332	1410	1352	N12	W10	.248	10148	19.8	38	*-N				1.69				4 4 4 8
CAPS	20	1328E	1410D		N08	W09	.191	10148	19.9	42D	1N	3	V	1350	3.50	3.50		182	
CATA	20	1335E	1420	1345	N10	W10	.225	10148	19.8	45D	1B			1345	2.08	2.14		202	
HTPR	20	1355	1403	1356	N14	W13	.307	10148	19.6	8	-N		C	1356	.52	.50			
SACP	20	1355	1406	1356	N14	W12	.295	10148	19.7	11	-N		C		.64	.63			
CATA	20	1420	1435	1425	N13	W03	.204	10148	20.4	15	-F			1425	.40	.41		144	
GRP23886	20	1659	1701	1659	N08	W12	.234	10148	19.8	2	--B				.18				2 2 2 5
MCMA	20	1658	1701	1659	N07	W12	.227	10148	19.8	3	-N		C	1659	.26	.30			D
HALE	20	1659	1700	1659	N08	W11	.220	10148	19.9	1	-B	2	C	1659	.10	.10			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP23887	20	1659	1707	1701	N22	W77	.976	10147	14.9	8	-N				.59				3 3 2 5
HALE	20	1658	1710	1701	N23	W76	.972	10147	15.0	12	-N	2	C	1701	.41				
MONT	20	1659	1705	1701	N22	W77	.976	10147	14.9	6	-N	8	C	1701	.77				
MCMA	20	1700	1706	1701	N22	W77	.976	10147	14.9	6	-N	8	C	1701					D
GRP23890	20	1830	1918	1859	N13	W07	.231	10148	20.2	48	-N				2.48				4 4 3 4
HALE	20	1828	1925	1859	N15	W09	.277	10148	20.1	57	1N	3	C	1859	3.04	3.20			F
HALE	20	1828	1925	1835	N14	W07	.245	10148	20.2	57	-N	3	C	1835	1.24	1.30			F
BOUL	20	1832	1905D	1900	N09	W02	.134	10148	20.6	33D	-N		V						
BOUL	20	1846	1905D	1900	N10	W06	.179	10148	20.3	19D	-N		V						
SACP	20	1855	1910	1900	N15	W07	.260	10148	20.3	15	-N		C		1.70	1.67			
HOUS	20	1857E	1900D	1857U	N14	W08	.254	10148	20.2	3D	1F		C		2.70	2.70			
891 HALE	20	2006	2021	2008	N12	W22	.409	10148	19.2	15	--F	2	C	2008	.52	.60			FK 3
GRP23892	20	2117	2145	2124	S19	W15	.428	10146	19.8	28	-N				1.33				4 3 3 4
SACP	20	2115	2146	2125	S20	W15	.440	10146	19.8	31	-N		C		1.06	1.08			
HALE	20	2116	2149	2119	S17	W15	.403	10146	19.8	33	-N	2	C	2119	1.13	1.20			F
HOUS	20	2120	2140	2127	S20	W15	.440	10146	19.8	20	-N		C		1.80	2.00			E
MCMA	20	2136E	2139D		S20	W15	.440	10146	19.8	3D	-N		P	2137	1.03	1.10			E
893 HALE	20	2301	2313	2304	N10	W14	.280	10148	19.9	12	--B	1	C	2304	.52	.50			F 3
894 HALE	20	2308	2312	2308	N14	W18	.370	10148	19.6	4	--B	1	C	2308	.31	.30			F 3
GRP23895	21	0008	0016	0010	N06	W17	.301	10148	19.7	8	--N				.43				3 3 3 4
SACP	21	0008	0015	0010	N05	W17	.297	10148	19.7	7	-N		C		.53	.52			
MANI	21	0008	0018D	0010	N07	W16	.289	10148	19.8	10D	-F	2		0010	.41	.43			
HALE	21	0009	0016	0011	N06	W17	.301	10148	19.7	7	-N	2	C	0011	.36	.40			
GRP23896	21	0143	0224	0150	S19	W31	.599	10146	18.7	41	1N				3.76				4 4 4 4
HALE	21	0140	0330	0150	S19	W32	.611	10146	18.7	110	1B	2	C	0150	3.30	4.10			GL
MANI	21	0140	0235	0149	S17	W31	.586	10146	18.7	55	-N	2		0149	2.27	2.80			
VORO	21	0145	0212	0150	S21	W29	.593	10146	18.9	27	2N		C	0150	6.56	8.00		102	EK
SACP	21	0147	0200D	0150	S19	W31	.599	10146	18.7	13D	1N		C		2.92	3.17			
GRP23901	21	1258	1330	1312	N10	W21	.382	10148	20.0	32	-N				1.73				6 6 5 10
CATA	21	1255	1340	1305	N10	W22	.397	10148	19.9	45	1N			1305	1.86	2.02		184	
BOUL	21	1255	1329	1313	N10	W17	.323	10148	20.3	34	-N		V						
MONT	21	1258	1326	1317	N09	W21	.377	10148	20.0	28	-N		C	1317	2.06				
ZURI	21	1258	1332	1312	N10	W22	.397	10148	19.9	34	1N		C	1312	2.73	3.00			
MCMA	21	1259E	1333		N09	W21	.377	10148	20.0	34D	-N		C	1310	.83	.90			E
SACP	21	1305	1319	1311	N09	W22	.392	10148	19.9	14	-F		C		1.17	1.17			
GRP23902	21	1320	1325	1322	N14	W26	.477	10148	19.6	5	--N				.76				3 3 3 10
SACP	21	1320	1326	1322	N13	W26	.471	10148	19.6	6	-N		C		.85	.87			
MONT	21	1320	1324	1322	N15	W26	.483	10148	19.6	4	-N		C	1322	1.13				
MCMA	21	1321	1324	1322	N14	W26	.477	10148	19.6	3	-N		C	1322	.31	.30			E
GRP23905	21	1913	1934	1917	N11	W26	.461	10148	19.9	21	-N				1.32				4 4 4 5
MCMA	21	1913	1935	1918	N12	W23	.423	10148	20.1	22	-N		C	1918	1.13	1.20			E
CANR	21	1913U	1920D	1916U	N11	W27	.475	10148	19.8	7D	-N		C		1.70	1.90			E
HALE	21	1914	1942	1918	N10	W27	.471	10148	19.8	28	-N	2	C	1918	1.24	1.40			
HOUS	21	1917E	1925	1917U	N09	W25	.437	10148	19.9	8D	-N		C		1.20	1.30			
906 HALE	21	2144	2215	2147	S15	W28	.535	10146	19.8	31	--F	2	C	2147	.36	.40			KG 3
909 HALE	22	0239	0246	0241	S30	E27	.655	10155	24.1	7	--F	2	C	0241	.10	.10			C 3
GRP23911	22	1030	1112	1049	N09	W35	.581	10148	19.8	42	-N				1.38				3 3 3 7
CATA	22	1025	1125	1050	N09	W35	.581	10148	19.8	60	-B			1050	1.62	1.98		204	Z
HTPR	22	1033	1106	1047	N10	W32	.542	10148	20.0	33	-F		C	1047	.62	.70			E
ZURI	22	1033	1104	1049	N09	W37	.609	10148	19.7	31	1N		C	1049	1.89	2.30			
GRP23912	22	1330	1342	1330	N10	W36	.598	10148	19.9	12	--N				.44				3 3 3 9
SACP	22	1329	1338	1330	N09	W36	.595	10148	19.9	9	-N		C		.32	.34			
CATA	22	1330	1345	1330	N12	W35	.590	10148	19.9	15	-B			1330	.58	.71		206	E
HTPR	22	1331E	1335D		N10	W36	.598	10148	19.9	4D	-F		C	1332	.41	.50			E
6 STATIONS REPORTING GROUP 23914. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP23914	22	1557	1624	1604	N09	W37	.609	10148	19.9	27	-N				1.96				4 4 4 6
CAPS	22	1555E	1633D		N10	W36	.598	10148	20.0	38D	1N	2	P	1606	4.00	4.80		166	C
CANR	22	1557	1625	1603	N08	W38	.620	10148	19.8	28	-F		C		1.40	1.80			
HALE	22	1558E	1717	1605U	N09	W38	.622	10148	19.8	79D	-B	2	P	1605	1.03	1.30			F
HOUS	22	1559	1615	1603	N08	W37	.607	10148	19.9	16	-F		C		1.40	1.80			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
23914	22	1557	1648	1620	N10	W38	.624	10148	19.8	51	*-N				1.25				3 3 3 6
MCMA	22	1556	1648		N10	W38	.624	10148	19.8	52	-N		P	1618	1.19	1.50			E
SACP	22	1558	1654	1615	N10	W38	.624	10148	19.8	56	-N		C		1.27	1.39			
HOUS	22	1625E	1642	1625U	N09	W39	.635	10148	19.8	17D	-N		C		1.30	1.70			
GRP23922	23	0249	0314	0253	N13	W44	.706	10148	19.8	25	2N				5.35				4 3 3 5
MANI	23	0248	0320	0252	N14	W46	.732	10148	19.7	32	1N	2		0252	3.09	4.47			
CRON	23	0250	0300	0253	N13	W43	.694	10148	19.9	10	2N		C		6.00	8.40			E
HALE	23	0257E	0322D		N13	W44	.706	10148	19.8	25D	2B	1	P	0257	6.96	9.70			F
TACH	23	0305E	0308		N09	W43	.686	10148	19.9	3D	3F		V	0306	14.58	20.20	1.70	57	BL
GRP23923	23	0905	0923	0912	N12	W49	.761	10148	19.7	18	1N				1.87				6 6 5 6
CAPE	23	0904	0925	0913	N13	W49	.763	10148	19.7	21	-N		C	0913	1.10	1.60			
MONT	23	0904	0927	0913	N12	W48	.750	10148	19.8	23	1N		C	0913	3.09				
CAPS	23	0905E	0924D		N13	W48	.752	10148	19.8	19D	1N	2	P	0906	2.00	2.80		178	
ARCE	23	0905	0925	0909	N12	W48	.750	10148	19.8	20	-N		C	0909	.86	1.30			
ONDR	23	0907E	0922		N12	W51	.783	10148	19.6	15D	2F		V	0909			2.00		C
CRON	23	0907	0917	0911	N11	W48	.749	10148	19.8	10	1N		C		2.30	3.50			E
927 SACP	23	2000	2025	2014	S19	W73	.964	10146	18.4	25	--F		C		.32	.70			2
GRP23928	23	2117	2143	2121	S17	E90	1.000	10166	30.6	26	-N				.45				2 2 2 2
SACP	23	2115	2144	2122	S17	E89	1.000	10166	30.6	29	-N		C		.53				
HALE	23	2118	2142	2120	S17	E90	1.000	10166	30.6	24	-N	1	C	2120	.36				
GRP23929	24	0039	0110	0047	N09	W58	.849	10148	19.7	31	-N				.68				4 4 4 7
HALE	24	0035	0114	0046	N09	W58	.849	10148	19.7	39	-B	1	C	0046	.52	1.00			F
MANI	24	0038	0115	0048	N09	W55	.820	10148	19.9	37	-N	2		0048	.83	1.40			
MITK	24	0040	0105	0046	N09	W59	.858	10148	19.6	25	-B		C	0046	.93	1.80			E
SACP	24	0043	0105	0046	N08	W59	.857	10148	19.6	22	-F		C		.42	.61			
GRP23933	24	1134	1226	1139	N07	E26	.444	10163	26.4	52	-N				1.50				3 3 2 8
ABST	24	1133E	1249D	1139	N07	E27	.460	10163	26.5	76D	-F		P	1139	1.80	2.00		56	E
HURB	24	1135	1202		N07	E24	.413	10163	26.3	27	1N						1.80		
CAPS	24	1140E	1153D		N08	E28	.477	10163	26.6	13D	-N	2	V	1141	1.20	1.40		164	J
GRP23934	24	1544	1615	1551	N11	E12	.257	10158	25.6	31	-N				.97				3 3 3 7
SACP	24	1542	1608	1550	N11	E12	.257	10158	25.6	26	-F		C		1.05	1.03			
MCMA	24	1545	1610	1547	N10	E13	.262	10158	25.6	25	-N		C	1547	.62	.70			E
HALE	24	1549E	1626	1557	N13	E12	.278	10158	25.6	37D	-N	2	P	1557	1.24	1.30			
GRP23935	24	1547	1604	1555	N06	W68	.927	10148	19.6	17	--N				.38				3 3 3 8
HTPR	24	1547	1600	1554	N05	W70	.939	10148	19.4	13	-F		C	1554	.31	.70			
HALE	24	1549E	1611	1555	N06	W67	.920	10148	19.6	22D	-B	2	P	1555	.31				
MCMA	24	1550E	1600D		N07	W68	.927	10148	19.6	10D	-N		C	1552	.52	1.50			E
GRP23938	24	1809	1946	1854	S18	E74	.968	10166	30.3	97	-N				.73				2 2 2 3
HALE	24	1809	1956	1854	S17	E73	.963	10166	30.2	107	1B	1	C	1854	.83				
SACP	24	1839	1935	1853	S18	E75	.972	10166	30.4	56	-F		C		.63	1.45			
GRP23943	25	0059	0112	0101	N10	W70	.939	10148	19.8	13	--N				.26				3 2 2 7
MANI	25	0057	0115	0101	N10	W70	.939	10148	19.8	18	-F	2		0101	.21	.50			
HALE	25	0100	0108	0101	N10	W70	.939	10148	19.8	8	-B	1	C	0101	.31				
CRON	25	0111	0118	0114	N09	W73	.956	10148	19.6	7	-N		C		.50	1.40			
GRP23947	25	0436	0448	0439	N08	W80	.984	10148	19.2	12	-N				.58				2 2 2 5
HALE	25	0436	0443	0438	N09	W79	.981	10148	19.3	7	-B	1	C	0438	.26				
ABST	25	0439E	0452	0439	N06	W80	.984	10148	19.2	13D	1F		P	0439	.90			54	D
GRP23950	25	0852	0902	0856	S20	E69	.946	10166	30.5	10	-N				1.52				2 2 2 5
CRIM	25	0850	0903	0855	S19	E69	.945	10166	30.5	13	1N		C	0855	1.80				D
HTPR	25	0853	0901	0857	S20	E69	.946	10166	30.5	8	-N		C	0857	1.24				
GRP23951	25	1238	1307	1246	S25	W90	1.000	10146	18.8	29	-N				1.36				2 2 2 5
CAPS	25	1235	1255		S26	W90	1.000	10146	18.8	20	1N	4	V	1249	2.50			171	ACEIY
SACP	25	1241	1318	1246	S24	W89	1.000	10146	18.9	37	-N		C		.22				
GRP23952	25	1334	1346	1338	S20	W77	.980	10146	19.8	12	-N				.57				7 7 4 11
SACP	25	1329	1347	1336	S21	W77	.981	10146	19.8	18	-F		C		.21	.53			
MONT	25	1334	1343	1339	S20	W77	.980	10146	19.8	9	-N		C	1339	.77				
HTPR	25	1335	1343	1337	S20	W78	.983	10146	19.7	8	-F		C	1337	.41				
MCMA	25	1335	1347	1338	S21	W77	.981	10146	19.8	12	-B		C	1338					D
ABST	25	1335	1350	1339	S22	W79	.987	10146	19.6	15	1F		C	1339	.90			56	D
HURB	25	1335	1343		S18	W76	.976	10146	19.9	8	1N						1.90		
BOUL	25	1337	1347	1338	S21	W75	.974	10146	19.9	10	-N		V						

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23961	27	0852	0923	0856	N09	E31	.523	10165	29.7	31	--F				.61				6 5 4 11
ARCE	27	0850	0926	0854	N10	E30	.511	10165	29.6	36	-F		C	0854	.62	.70			
HTPR	27	0851	0925	0858	N08	E30	.506	10165	29.6	34	-N		C	0858	.52	.60			
CAPS	27	0852	0907		N10	E31	.526	10165	29.7	15	-F	3	P	0855	.40	.50		150	
ABST	27	0852E	0935	0856	N07	E33	.548	10165	29.8	43D	-F		P	0856	.90	1.10		50	D
HURB	27	0855	0921		N10	E30	.511	10165	29.6	26	-F						1.30		
ONDR	27	0911E	0921		N06	E32	.532	10165	29.8	10D	-F		V	0916			1.50		DGJ
GRP23962	27	1718	1726	1719	S09	E16	.335	10165	28.9	8	--F				.21				2 2 2 6
SACP	27	1717	1724	1719	S09	E17	.349	10165	29.0	7	-F		C		.21	.21			
HALE	27	1718	1728	1719	S08	E15	.313	10165	28.8	10	-F	2	C	1719	.21	.20			C
GRP23965	27	2216	0035	2224	N15	E05	.234	10185	28.3	139	--F				.42				2 2 2 6
HALE	27	2215	0035	2229	N16	E06	.256	10185	28.4	140	-N	2	C	2229	.31	.30			TLJW
MCMA	27	2217	2250	2219	N14	E05	.218	10185	28.3	33	-F		C	2219	.52	.60			E
HALE	27	2320	0035	2330	N16	E04	.245	10185	28.3	75	-N	2	C	2330	.41	.40			TLJ
GRP23969	28	1835	1842	1837	N14	E83	.992	10174	5.0	7	-N				.52				3 3 2 5
SACP	28	1834	1844	1836	N16	E78	.977	10174	4.6	10	-N		C		.63	1.51			
CANR	28	1835	1841	1837	N14	E85	.995	10174	5.1	6	-N		C		.40	1.30			H
MCMA	28	1835	1842	1837	N12	E85	.996	10174	5.1	7	-F		C	1837					D
GRP23971	28	2048	2101	2051	N28	E83	.992	10175	5.1	13	--F				.42				2 2 1 4
SACP	28	2046	2105	2050	N29	E80	.985	10175	4.9	19	-N		C		.42				
MCMA	28	2049	2056	2052	N27	E85	.995	10175	5.2	7	-F		C	2052					D
GRP23973	29	0215	0227	0218	N27	E76	.972	10175	4.8	12	-N				.56				2 2 2 5
HALE	29	0213	0231	0216	N28	E77	.976	10175	4.9	18	1N	1	C	0216	.62				
CRON	29	0216	0223	0220	N26	E75	.968	10175	4.7	7	-N		C		.50	1.40			
976 CATA	29	1115E	1130	1115	N15	E70	.940	10174	4.7	15D	-N			1115	.40			186	3
GRP23978	29	1256	1310	1259	N17	E70	.940	10174	4.8	14	--F				.51				2 2 2 7
SACP	29	1256	1315	1259	N17	E69	.935	10174	4.7	19	-F		C		.42	.79			
CANR	29	1256	1304	1258	N17	E70	.940	10174	4.8	8	-N		C		.60	1.40			
GRP23980	29	1503	1516	1506	S11	E19	.396	10166	1.1	13	--N				.42				2 2 2 4
MCMA	29	1451	1504	1455	S12	E24	.469	10166	1.4	13	-N		C	1455	.41	.50			E
SACP	29	1501	1518	1506	S10	E17	.360	10166	30.9	17	-N		C		.42	.42			
MCMA	29	1505	1514	1506	S11	E17	.370	10166	30.9	9	-N		C	1506	.41	.50			E
GRP23982	29	1545	1600	1548	N17	E68	.929	10174	4.8	15	-N				.72				5 5 5 6
LOCA	29	1543	1606	1549	N15	E67	.921	10174	4.7	23	-B		V	1549	.63				
SACP	29	1545	1603	1548	N18	E68	.929	10174	4.8	18	-N		C		.94	1.69			
CANR	29	1545	1556	1548	N15	E70	.940	10174	4.9	11	-N		C		.50	1.20			
MCMA	29	1546	1602	1548	N17	E68	.929	10174	4.8	16	-N		C	1548	.62	1.70			E
HOUS	29	1547E	1555	1549U	N18	E68	.929	10174	4.8	8D	1N		C		.90	2.10			E
GRP23986	29	1959	2018	2003	N19	E66	.917	10174	4.8	19	--N				.45				4 4 3 5
SACP	29	1955	2016	2002	N19	E66	.917	10174	4.8	21	-N		C		.32	.54			
BOUL	29	2001	2018D	2004	N18	E63	.895	10174	4.6	17D	-F		V						
HALE	29	2001E	2007D	2002	N19	E67	.923	10174	4.9	6D	-B	2	P	2002	.31				
MCMA	29	2011E	2020D		N18	E66	.916	10174	4.8	9D	-N		P	2011	.72	1.80			E
GRP23992	29	2327	2336	2329	N18	E65	.910	10174	4.9	9	--F				.23				2 2 2 5
MANI	29	2326	2335	2330	N17	E65	.909	10174	4.9	9	-F	1		2330	.31	.65			
HALE	29	2327	2337	2328	N19	E64	.903	10174	4.8	10	-F	1	C	2328	.15				
GRP23993	29	2342	0003	2350	S10	E12	.299	10166	30.9	21	--N				.52				3 3 3 5
SACP	29	2339	2352D	2347	S10	E13	.310	10166	1.0	13D	-N		C		.42	.41			
MANI	29	2343	0006	2350	S11	E12	.311	10166	30.9	23	-N	2		2350	.62	.70			
HALE	29	2345	0000	2352	S09	E12	.287	10166	30.9	15	-B	1	P	2352	.52	.50			
GRP23996	30	0112	0121	0114	N17	E75	.965	10174	5.7	9	--N				.37				2 2 2 5
SACP	30	0111	0120	0114	N17	E75	.965	10174	5.7	9	-F		C		.53	1.15			
HALE	30	0112	0121	0113	N17	E75	.965	10174	5.7	9	-B	2	C	0113	.21				DF
998 HALE	30	0241	0257	0243	S06	W53	.805	10183	26.1	16	--N	1	C	0243	.10	.20			D 3
GRP23999	30	0245	0304	0249	N07	E90	1.000	10180	6.9	19	-B				.62				2 2 2 4
HALE	30	0245	0303	0249	N07	E90	1.000	10180	6.9	18	-B	1	C	0249	.31				
MANI	30	0247E	0251D	0249	N05	E90	1.000	10180	6.9	4D	1B	2		0249	.93	2.90			
HALE	30	0258	0304	0301	N12	E89	1.000	10180	6.8	6	-B	1	C	0301	.10				D
001 HALE	30	0333	0345	0337	S10	E10	.278	10166	30.9	12	--N	1	C	0337	.26	.30			3
002 HALE	30	0345	0353	0347	N19	E61	.881	10174	4.7	8	--B	1	C	0347	.10	.20			D 3

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	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. %	
GRP24003	30	0408	0427	0412	N16	E74	.961	10174	5.7	19	-N				.45				3 3 3 4
CULG	30	0405	0435	0412	N16	E73	.956	10174	5.6	30	1F		P	0412	.72				RH
HALE	30	0409	0426	0411	N18	E74	.961	10174	5.7	17	-B	1	C	0411	.21				
MANI	30	0409E	0421	0412	N15	E74	.960	10174	5.7	12D	-F	1		0412	.41	1.00			
GRP24007	30	0822	0840	0824	N08	W60	.865	10163	25.8	18	--F				.84				3 3 3 9
MONT	30	0822	0831	0825	N07	W60	.865	10163	25.8	9	-N		C	0825	.77				
ABST	30	0822	0845	0824	N10	W60	.866	10163	25.8	23	1F		C	0824	1.35	2.70		52	D
ARCE	30	0824E	0845D	0824	N07	W59	.856	10163	25.9	21D	-F		C	0824	.39	.70			
GRP24008	30	0922	0945	0928	N14	E63	.892	10174	5.1	23	-F				1.90				2 2 2 4
CANR	30	0922	0940	0928	N12	E61	.875	10174	5.0	18	-N		C		.80	1.60			
CAPS	30	0927E	0949		N15	E64	.900	10174	5.2	22D	1F	4	P	0935	3.00			146	E
GRP24009	30	1306	1321	1309	N18	E55	.829	10174	4.7	15	-N				.63				3 3 2 7
SACP	30	1306	1326	1307	N17	E55	.827	10174	4.7	20	-N		C		.42	.58			
CAPE	30	1306	1318	1312	N18	E56	.838	10174	4.7	12	-F		C	1312	.84	1.50			
BOUL	30	1307E	1318	1307	N19	E54	.821	10174	4.6	11D	-N		S						
GRP24014	30	1710	1719	1712	S07	E62	.888	10179	5.4	9	-N				1.09				5 5 5 5
HALE	30	1709	1724	1711	S07	E62	.888	10179	5.4	15	1B	2	C	1711	1.03	2.20			CFH
HOUS	30	1710	1715	1711	S07	E64	.903	10179	5.5	5	-N		C		.90	1.90			
CANR	30	1710	1714	1711	S08	E62	.889	10179	5.4	4	-N		C		1.00	2.00			H
SANM	30	1710	1722	1713	S06	E62	.887	10179	5.4	12	-N	3	C		.64	1.35			E
BOUL	30	1710	1715	1712	S06	E62	.887	10179	5.4	5	1N		C		1.90	3.80			H
BOUL	30	1711E	1722	1711	S10	E62	.891	10179	5.4	11D	-N		V						
GRP24015	30	1719	1753	1722	N09	E55	.819	10174	4.8	34	--N				.42				3 3 2 5
SANM	30	1717	1752	1722	N06	E55	.818	10174	4.8	35	-N	3	C		.32	.55			D
HALE	30	1720	1754	1721	N08	E56	.829	10174	4.9	34	-B	3	C	1721	.52	.90			DF
BOUL	30	1722E	1750D	1724	N05	E56	.828	10174	4.9	28D	-N		V						
BOUL	30	1732	1740	1733	N19	E52	.802	10174	4.6	8	-F		V						
GRP24016	30	1751	1813	1756	S14	E74	.967	10181	6.3	22	1N				1.15				5 5 5 5
HALE	30	1749	1813	1756	S13	E74	.966	10181	6.3	24	1B	2	C	1756	1.08				
BOUL	30	1751	1810	1754	S13	E77	.978	10181	6.5	19	1N		V						
HOUS	30	1752	1810	1757	S14	E73	.962	10181	6.2	18	1N		C		1.00	2.80			E
SANM	30	1752	1818	1755	S13	E73	.962	10181	6.2	26	-N	3	C		.97				E
CANR	30	1752	1815	1755	S16	E74	.968	10181	6.3	23	1N		C		1.00	3.00			E
BOUL	30	1753	1810	1757	S15	E78	.982	10181	6.6	17	1N		C		1.70	5.10			HI
GRP24017	30	1827	1840	1829	S22	W89	1.000	10182	24.1	13	-B				.59				5 4 4 5
CANR	30	1827	1832	1829	S22	W90	1.000	10182	24.0	5	-B		C		.40	1.60			H
SANM	30	1827	1845	1828	S21	W87	.999	10182	24.2	18	-B	3	C		.64				A
HOUS	30	1827	1845	1829	S23	W90	1.000	10182	24.0	18	-N		C		.40	1.60			
HALE	30	1827	1846	1828	S20	W78	.984	10182	24.9	19	-B	2	C	1828	.31				
BOUL	30	1828	1836	1829	S23	W90	1.000	10182	24.0	8	1B		C		.90	3.60			H
GRP24021	30	2129	2152	2138	S21	W89	1.000	10182	24.2	23	-N				.50				2 2 1 4
MCMA	30	2128	2151	2137	S20	W88	1.000	10182	24.3	23	-N		C	2137					D
BOUL	30	2130	2153	2138	S22	W90	1.000	10182	24.1	23	-N		C		.50	2.00			
GRP24023	30	2219	2245	2224	S21	W80	.989	10155	24.9	26	-N				.52				2 2 1 5
BOUL	30	2219	2255D	2223	S21	W80	.989	10155	24.9	36D	-N		V						
MANI	30	2220E	2234	2224	S21	W80	.989	10155	24.9	14D	-N	2		2224	.52	1.40			
GRP24026	30	2320	2347	2339	S13	E76	.974	10181	6.7	27	-B				.53				2 2 1 3
BOUL	30	2320E	2346	2337	S12	E75	.970	10181	6.6	26D	-B		V						
SACP	30	2323E	2348	2340	S13	E76	.974	10181	6.7	25D	-N		C		.53	1.25			

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
333 HALE	01	0044	0057	0046	S20	W74	.965	10123	26.5	13	-F	2	C	0046	.21				5
334 HALE	01	0100	0142	0119	N14	W61	.884	10109	27.5	42	-F	2	C	0119	.36	.80			5
335 HOUS	01	1507	1605	1515	N12	E90	1.000	10130	8.4	58	1N		C		.70	2.80			H 6
337 HALE	01	2047	2143	2054	N07	W09	.205	10116	1.2	56	-N	2	C	2054	.31	.30			4
340 HALE	02	0242	0315	0248	S10	E79	.982	10131	8.0	33	-F	2	C	0248	.10				5
GRP23341	02	0743	0756	0748	N12	E80	.986	10130	8.3	13	-F				.29				2 2 2 8
HTPR	02	0740	0800		N12	E80	.986	10130	8.3	20	-F		C	0750	.31				
MEUD	02	0745	0752	0748	N12	E80	.986	10130	8.3	7	-F		C	0748	.26				D
GRP23342	02	0848	0908	0855	N12	E79	.983	10130	8.3	20	-F				.71				2 2 2 9
HTPR	02	0845	0915	0855	N12	E80	.986	10130	8.4	30	-F		C	0855	.72				E
CANR	02	0850	0901	0854	N11	E77	.976	10130	8.1	11	-N		C		.70	2.00			
GRP23343	02	1120	1320	1247	N13	E76	.972	10130	8.2	120	1F				.90				4 1 1 9
MEUD	02	1115E	1124	1117	N11	E77	.976	10130	8.2	9D	-F		C	1117	.52				D
ABST	02	1120E	1320D	1247	N13	E76	.972	10130	8.2	120D	1F		P	1247	.90			54	D
CATA	02	1130	1135	1130	N12	E88	.999	10130	9.1	5	-B			1130	.29			253	
SANM	02	1233	1307	1236	N12	E79	.983	10130	8.4	34	-F		C		.48				E
344 CATA	02	1305E	1445D	1310	S16	E90	1.000	10131	9.3	100D	-N			1310	.34			151	7
346 SANM	02	1420	1428	1422	S10	E19	.360	10121	4.0	8	-F		C		.80	.86			E 6
347 LOCA	02	1525	1604	1532	N12	E75	.968	10130	8.3	39	1N		V	1532	1.26				6
348 LOCA	02	1536	1625	1540	S16	E85	.996	10131	9.0	49	1B		V	1540	.63				6
349 HALE	02	1640	1655	1644	S13	E90	1.000	10131	9.4	15	-B	2	C	1644	.21				5
GRP23354	03	0254	0313	0304	S17	E85	.996	10131	9.5	19	1B				1.12				2 2 2 3
CULG	03	0253	0320	0305	S16	E85	.996	10131	9.5	27	1B		C	0305	1.34				
CRON	03	0255	0305	0303	S17	E85	.996	10131	9.5	10	1B		C		.90	3.00			
GRP23356	03	0830	0900	0850	N13	E90	1.000	10134	10.1	30	-N				.52				2 1 1 10
CATA	03	0830	0900D	0850	N13	E90	1.000	10134	10.1	30D	-N			0850	.52			174	
CANR	03	0839	0850	0842	N03	E80	.985	10134	9.4	11	-F		C		.60	1.90			H
357 ARCE	03	0852	0902	0855	S06	E90	1.000	10135	10.1	10	1F		C	0855	.45	2.50			H 10
358 ARCE	03	0932	0941	0938	N08	E73	.958	10130	8.9	9	-F		C	0938	.38	.90			I 7
359 MONT	03	0937	0951	0940	N07	E90	1.000	10134	10.2	14	-N		C	0940	.10				7
368 HALE	04	0119E	0142		N14	E52	.803	10130	8.0	23D	-N	2	P	0119	.41	.70			4
369 MITK	04	0212E	0220D		S15	E90	1.000	10135	10.8	8D	1N		C	0212	.93				H 5
370 HALE	04	0315	0338	0319	S14	E63	.897	10131	8.9	23	-F	2	C	0319	.31				5
371 MITK	04	0333	0359	0350	S14	E90	1.000	10135	10.9	26	1N		C	0350	1.13				H 5
372 HALE	04	0403E	0405	0403	S14	E63	.897	10131	8.9	2D	-F	2	P	0403	.26				4
373 MITK	04	0412	0517D	0415	S14	E90	1.000	10135	10.9	65D	1N		C	0415	1.03				H 4
374 ISTA	04	0605	0621		S15	E85	.996	10135	10.6	16	1F								5
375 ABST	04	0612	0625	0615	N11	E51	.787	10130	8.1	13	1F		C	0615	2.25	3.70		50	E 5
378 ARCE	04	0740E	1036	0740	S15	E80	.986	10135	10.3	176D	2N		C	0740	2.93	9.40			HE 11
380 ARCE	04	1045E	1051D	1045	N09	E52	.795	10130	8.3	6D	-N		C	1045	.77	1.30			4
GRP23382	04	1229	1250	1244	S16	E79	.983	10135	10.4	21	-B				.14				2 2 1 5
CAPS	04	1229E	1244D		S16	E80	.986	10135	10.5	15D	1N	1	S						
CATA	04	1244E	1250D	1244	S16	E77	.976	10135	10.3	6D	-B			1244	.14			209	
383 UCCL	04	1258E	1314D		S15	E80	.986	10135	10.5	16D	2F		P	1258	2.06				7
384 BOUL	04	1339	1359	1347	S13	E78	.979	10135	10.4	20	-N		V						7
385 BOUL	04	1502	1510	1504	S14	E78	.979	10135	10.5	8	-F		V						7
386 BOUL	04	1509	1518	1513	N13	E80	.986	10134	10.6	9	-N		V						6

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
387 BOUL	04	1551	1600	1554	S15	E78	.979	10135	10.5	9	-N		V						7
388 HALE	04	1600	1607	1601	N07	W48	.748	10116	1.1	7	-N	2	C	1601	.26	.40			6
390 MCMA	04	1735	1745	1739	S18	E76	.973	10135	10.4	10	-B		C	1739					E 5
391 HALE	04	1836	1928	1839	N16	E79	.983	10134	10.7	52	-N	2	C	1839	.41				K 3
397 HALE	05	0415	0440D	0423	S16	E49	.775	10131	8.9	25D	-F	2	P	0423	.46	.70			4
GRP23398	05	0424	0445	0425	N16	E80	.986	10134	11.2	21	-F				1.12				2 2 2 5
ABST	05	0424E	0445D	0425	N15	E80	.986	10134	11.2	21D	1N		P	0425	1.62			60	E
MANI	05	0432E	0432D		N16	E79	.983	10134	11.1		-F	1		0432	.62	1.60			
399 ABST	05	0425	0440	0426	N11	E75	.967	10134	10.8	15	1F		C	0426	.90			58	D 4
GRP23400	05	0426	0741	0734	S15	E70	.944	10135	10.4	195	-F				1.80				2 2 1 8
ABST	05	0426	0742	0734	S14	E69	.937	10135	10.4	196	1F		C	0734	1.80			50	FK
ISTA	05	0730	0740		S16	E70	.944	10135	10.6	10	-F								
403 BOUL	05	1156	1204	1159	N19	E49	.785	10134	9.2	8	-F		V						5
404 BOUL	05	1204	1231	1215	S15	E64	.905	10135	10.3	27	-N		V						3
407 BOUL	05	1314	1338	1324	S10	W21	.392	10121	4.0	24	-F	8	V						3
408 BOUL	05	1353	1422	1400	S10	W21	.392	10121	4.0	29	-N		V						4
411 BOUL	05	1605U	1637	1608U	N10	E19	.366	10130	7.1	32D	2N		C		5.90	6.50			4
415 BOUL	05	1919	1925D	1920	S10	W23	.421	10121	4.1	6D	-F		V						3
BOUL	05	1935	1928	1926	N14	E64	.905	10134	10.6	433	-N	8	V						2 6
HALE	05	2048	2058	2052	N12	E66	.918	10134	10.8	10	-F	2	C	2052	.21				
HALE	05	2133	2145	2139	N11	E65	.910	10134	10.8	12	-N	1	C	2139	.77				
CATA	06	0800E	0805D	0800	N11	E58	.854	10134	10.7	5D	-B	8		0800	.58	1.09		209	
HERS	06	0813E	0823D	0813U	N10	E64	.902	10134	11.1	10D	-N	8	S	0813	.77	1.50			D
SANM	06	1205E	1218D		N10	E50	.774	10134	10.3	13D	-F	8	P	1210	.65	1.07			BE
GRP23431	06	0827	0850	0840	S16	E53	.815	10135	10.3	23	-N				1.17				2 1 1 8
HERS	06	0827E	0850D	0840U	S16	E53	.815	10135	10.3	23D	-N	8	S	0840	1.17	1.90	1.60		D
HTPR	06	0827	0845	0829	S17	E54	.827	10135	10.4	18	-F	8	C	0829	.52	1.00			
433 CATA	06	1030E	1035D	1030	N09	E49	.762	10134	10.1	5D	-N	8		1030	1.22	1.89		166	4
434 SANM	06	1205E	1218D		S15	E48	.763	10135	10.1	13D	-F		P	1210	.80	1.20			BE 6
435 MEUD	06	1219	1227	1221	S17	E53	.817	10135	10.5	8	-N		C	1221	.93	1.50			7
438 SACP	06	1411	1421	1414	N13	E19	.390	10130	8.0	10	-N		C		.63	.63			8
439 BOUL	06	1443	1447D	1445	S15	E26	.496	10131	8.6	4D	-F		V						6
GRP23442	06	1657	1718	1703	N19	E63	.903	10134	11.4	21	-N				.68				2 2 2 8
MCMA	06	1655	1707D		N16	E60	.877	10134	11.2	12D	-N	8	P	1701	.62	1.20			E
SACP	06	1659	1718	1703	N21	E66	.925	10134	11.7	19	-N	8	C		.73	1.31			
445 HOUS	06	1811	1835	1820	N06	E30	.508	10130	9.0	24	1N		C		2.30	2.80			E 2
447 HALE	06	1827E	1848	1827U	S14	E45	.727	10135	10.1	21D	-F	2	C	1827	.41	.60			4
449 SACP	06	1957	2043	2006	N11	E42	.684	10134	10.0	46	-N		C		1.16	1.33			3
GRP23454	07	0325	0348	0329	S12	W37	.624	10121	4.4	23	-N				.57				2 2 2 6
HALE	07	0325	0349	0329	S12	W36	.612	10121	4.4	24	-N	2	C	0329	.72	.90			
MANI	07	0330E	0347		S12	W37	.624	10121	4.4	17D	-N	1		0335	.41	.53			
GRP23455	07	0417	0443	0424	S18	E41	.696	10135	10.3	26	-B				.88				2 2 2 5
HALE	07	0417	0443D	0421	S15	E40	.673	10135	10.2	26D	-N	2	P	0421	.52	.70			
MANI	07	0422E	0432D	0426	S20	E41	.705	10135	10.3	10D	-B	2		0426	1.24	1.79			
HALE	07	0426	0443D	0430	S15	E41	.685	10135	10.3	17D	-N	2	P	0430	.41	.60			
456 ABST	07	0501	0529	0505	N11	E13	.292	10130	8.2	28	-N		C	0505	1.35	1.40		61	D 4
GRP23457	07	0557	0615	0602	N12	E36	.611	10134	9.9	18	-F				.31				2 2 1 6
HTPR	07	0555	0620	0602	N12	E35	.598	10134	9.9	25	-F		C	0603	.31	.40			
ISTA	07	0558	0610		N11	E36	.608	10134	9.9	12	-N								

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23460	07	0744	0803	0747	S16	E41	.688	10135	10.4	19	-N				1.34				6 5 5 9
CATA	07	0740E	0805	0740	S16	E38	.653	10135	10.2	25D	-N	8		0740	.46	.61		170	
CATA	07	0740E	0805	0740	S16	E45	.734	10135	10.7	25D	-F	8		0740	.58	.85		145	
HTPR	07	0741	0750	0745	S18	E40	.685	10135	10.3	9	-F	8	C	0745	1.03	1.40			
MEUD	07	0744	0800		S16	E41	.688	10135	10.4	16	-F	8	C	0745	1.13	1.50			E
CRON	07	0745	0800	0749	S14	E42	.693	10135	10.5	15	1N	8	C		2.70	3.80			EI
CAPS	07	0749	0818D		S16	E42	.700	10135	10.5	29D	-N	3	P	0752	.80	1.10		189	
KHAR	07	0808E	0828D		S14	E48	.761	10135	10.9	20D	1N	8	P	0811	1.03	1.60	2.00		DQ
463 CAPS	07	1050E	1100D		S16	E19	.417	10131	8.9	10D	-F	2	S	1055	.50	.60			H 6
466 CAPS	07	1411E	1427D		S17	E38	.658	10135	10.4	16D	-N	1	S						5
469 HALE	07	1959	2018	2001	N12	E40	.662	10134	10.8	19	-F	2	C	2001	.57	.80			4
471 HALE	07	2048	2110	2053	N14	E45	.727	10134	11.2	22	-N	2	C	2053	.46	.70			F 4
474 MITK	07	2342E	2353		S17	E33	.597	10135	10.5	11D	-N		C	2342	.52	.60			D 5
477 SACP	08	0120	0135	0124	N10	E07	.209	10130	8.6	15	-F		C		.53	.52			7
482 HALE	08	0335	0352	0336	S14	E22	.438	10135	9.8	17	-N	2	C	0336	.36	.40			J 5
483 ABST	08	0430	0535D	0444	N13	E44	.713	10134	11.5	65D	-N		C	0444	.90	1.30		58	D 8
484 MITK	08	0505	0520	0507	S17	E31	.574	10135	10.5	15	-N		C	0507	.72	.90			D 6
GRP23485	08	0530	0545	0533	S17	E29	.549	10135	10.4	15	-N				1.30				2 1 1 9
CRON	08	0530	0545	0533	S17	E29	.549	10135	10.4	15	-N		C		1.30	1.60			EI
MITK	08	0545	0551	0546	S13	E26	.484	10135	10.2	6	1N		C	0546	1.86	2.10			
GRP23489	08	0925	1011	0925	S17	E26	.512	10135	10.3	46	-N				1.00				2 1 1 8
ARCE	08	0925E	1011	0925	S17	E26	.512	10135	10.3	46D	-N		C	0925	1.00	1.10			K
ZURI	08	0945	0954	0951	S14	E23	.451	10135	10.1	9	-N		C	0951	.99	1.10			
491 ONDR	08	0948E	1015		N09	E00	.154	10134	8.4	27D	1F		V	1003			2.10		9
GRP23492	08	0953	0959	0953	N11	E31	.540	10134	10.7	6	-F				.65				2 2 2 7
CAPS	08	0952	1000		N10	E31	.535	10134	10.7	8	-N	2	V	0954	.60	.70			B
ZURI	08	0953	0957	0953	N11	E31	.540	10134	10.7	4	-F	8	C	0953	.69	.80			
GRP23498	08	1203	1232	1211	N13	W03	.228	10130	8.3	29	-N				1.08				2 2 2 9
ZURI	08	1201	1229	1211	N13	W03	.228	10130	8.3	28	-N		C	1211	1.47	1.50			
CATA	08	1205	1235	1210	N13	W02	.225	10130	8.4	30	-N			1210	.69	.72		155	
501 LOCA	08	1302	1324	1310	N10	E20	.378	10134	10.0	22	-B		V	1310	1.05				9
502 ZURI	08	1334	1336	1335	S15	E22	.446	10135	10.2	2	-N		C	1335	.53	.60			8
507 ZURI	08	1533	1541	1533	N14	E34	.593	10134	11.2	8	-F		C	1533	1.05	1.30			8
GRP23508	08	1550	1605	1554	N10	W01	.172	10130	8.6	15	-F				.87				2 2 2 11
SANM	08	1546	1612	1553	N11	W03	.195	10130	8.4	26	-N		C		.48	.49			E
ZURI	08	1553	1557	1555	N09	E01	.155	10130	8.7	4	-F		C	1555	1.26	1.30			
510 SANM	08	1617	1644	1625	N12	W07	.237	10130	8.2	27	-F		C		1.13	1.17			EK 11
511 SANM	08	1618	1635	1625	S15	E20	.421	10135	10.2	17	-F		C		.48	.53			E 11
513 SANM	08	1810	1830	1816	N06	E04	.123	10134	9.1	20	-N		C		.48	.48			E 6
515 SANM	08	1827	1836	1830	N12	W05	.222	10130	8.4	9	-N		C		.48	.49			E 6
516 SANM	08	1934	1945	1936	N12	E38	.636	10134	11.7	11	-F		C		.17	.21			D 5
517 SANM	08	1946	2001D	1950	N13	W07	.252	10130	8.3	15D	-N		P		.80	.83			E 5
518 MITK	08	2318	2333	2322	N13	E27	.495	10134	11.0	15	-N		C	2322	.83	.90			E 6
519 VORO	08	2352	0006	2354	N10	E03	.179	10130	9.2	14	-B		C	2354	1.29	1.29		87	E 6
521 CULG	09	0007E	0041D		S14	E17	.376	10135	10.3	34D	1N		P	0033	2.68	2.86			8
GRP23528	09	0429	0452	0431	S13	E12	.306	10135	10.1	23	-F				.21				2 1 1 8
HALE	09	0429	0452D	0431	S13	E12	.306	10135	10.1	23D	-F	2	C	0431	.21	.20			
MANI	09	0439E	0500		S17	E12	.357	10135	10.1	21D	-N	2		0445	.46	.50			
529 MANI	09	0445	0455	0449	N10	E32	.549	10134	11.6	10	-F	2		0449	.21	.25			8

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
530 MANI	09	0456	0509		N12	E11	.276	10134	10.0	13	-F	2		0501	.36	.86			7
GRP23531	09	0522	0530	0525	S17	E14	.376	10135	10.3	8	-F				.62				2 2 2 7
MITK	09	0521	0530	0523	S17	E15	.387	10135	10.3	9	-F		C	0523	.62	.70			D
HTPR	09	0522	0530	0526	S17	E12	.357	10135	10.1	8	-F		C	0526	.62	.60			
GRP23532	09	0523	0539	0527	N10	W14	.292	10130	8.2	16	-N				1.04				3 3 3 7
ABST	09	0522	0545	0528	N10	W14	.292	10130	8.2	23	-F		C	0528	1.38	1.40		50	E
TACH	09	0523	0530	0526	N10	W14	.292	10130	8.2	7	-B		C	0526	.91	.90	1.30	72	
HTPR	09	0523	0543	0526	N10	W14	.292	10130	8.2	20	-F		C	0526	.83	.80			
533 ONDR	09	0526E	0534		N11	E10	.252	10134	10.0	8D	-F		V	0527			1.70		C 7
GRP23534	09	0556	0603	0559	S16	E11	.335	10135	10.1	7	-F				.41				2 2 1 10
ONDR	09	0554E	0603	0559	S15	E09	.304	10135	9.9	9D	-F		V	0559			2.40		CJ
HTPR	09	0557	0602	0558	S16	E12	.344	10135	10.1	5	-F		C	0558	.41	.40			
536 MANI	09	0641	0650	0644	N10	E31	.535	10134	11.6	9	-F	2		0644	.21	.24			11
GRP23538	09	0658	0714	0710	S16	E10	.326	10135	10.0	16	-N				.86				2 2 2 14
CATA	09	0655E	0715	0710	S16	E12	.344	10135	10.2	20D	-N			0710	.46	.49		170	
ZURI	09	0701	0713	0709	S15	E08	.296	10135	9.9	12	-N		C	0709	1.26	1.30			
541 MONT	09	0742	0758	0747	S10	W72	.953	10121	3.9	16	-N		C	0747	.77				13
548 ARCE	09	0919	0935	0924	S15	E30	.550	10137	11.6	16	-B		C	0924	1.49	1.70			10
GRP23549	09	0958	1004	0959	S15	E09	.304	10135	10.1	6	-N				1.14				7 7 6 10
ZURI	09	0907	0947	0934	S15	E10	.312	10135	10.1	40	-N	8	C	0934	1.78	1.90			
CATA	09	0945E	1010	1000	S15	E09	.304	10135	10.1	25D	-N	8		1000	.40	.43		166	
MEUD	09	0956	1003	0957	S16	E08	.311	10135	10.0	7	-N	8	C	0957	1.24	1.30			
ZURI	09	0956	1002	0958	S15	E08	.296	10135	10.0	6	-N	8	C	0958	1.20	1.20			
MONT	09	0957	1003	0959	S15	E10	.312	10135	10.2	6	-N	8	C	0959	2.27				
ONDR	09	0957	1003	0958	S15	E07	.289	10135	9.9	6	-N	8	V	0958			1.80		CJR
ARCE	09	1000	1004	1000	S16	E09	.318	10135	10.1	4	-F	8	C	1000	.87	.90			
HTPR	09	1000E	1003		S16	E09	.318	10135	10.1	3D	-N	8	C	1000	.83	.80			
551 ZURI	09	1040	1051	1041	N16	E28	.527	10134	11.5	11	-F		C	1041	1.22	1.40			10
554 WEND	09	1130E	1150D		N18	E28	.541	10134	11.6	20D	1F		V		3.09				11
GRP23560	09	1356	1411	1359	S14	E08	.281	10135	10.2	15	-F				.68				2 2 2 14
ZURI	09	1355	1408	1359	S14	E09	.290	10135	10.3	13	-F		C	1359	.95	1.00			
MCMA	09	1356	1413	1358	S14	E07	.274	10135	10.1	17	-N		C	1358	.41	.50			E
GRP23562	09	1412	1423	1414	N10	E07	.207	10134	10.1	11	-F				.50				2 2 2 18
ARCE	09	1412	1421	1414	N10	E10	.240	10134	10.3	9	-F	8	C	1414	.67	.70			
SANM	09	1413E	1425		N10	E04	.182	10134	9.9	12D	-F	8	P		.32	.32			E
GRP23564	09	1454	1456	1455	S16	E07	.304	10135	10.1	2	-F				.63				2 2 2 14
ZURI	09	1453	1455	1454	S15	E08	.296	10135	10.2	2	-F		C	1454	.84	.90			
MEUD	09	1454	1456	1455	S16	E06	.298	10135	10.1	2	-F		C	1455	.41	.40			D
566 ZURI	09	1520	1529	1528	S15	E07	.289	10135	10.2	9	-N		C	1528	.55	.60			14
567 SANM	09	1524	1533	1525	N10	E06	.198	10134	10.1	9	-F	8	C		.17	.16			E 15
568 ZURI	09	1619	1625	1623	S15	E07	.289	10135	10.2	6	-N		C	1623	1.68	1.70			14
569 ZURI	09	1630	1633	1632	S15	E08	.296	10135	10.3	3	-N		C	1632	1.05	1.10			13
GRP23571	09	1715	1741	1719	N11	E03	.193	10134	9.9	26	-F				.54				2 2 2 9
SANM	09	1715	1741	1718	N11	E01	.187	10134	9.8	26	-F		C		.32	.32			E
ZURI	09	1715	1740	1719	N11	E04	.198	10134	10.0	25	-N		C	1719	.75	.80			
GRP23573	09	1759	1811	1801	N13	E25	.467	10134	11.6	12	-N				.42				2 2 2 8
MCMA	09	1759	1815	1800	N12	E25	.461	10134	11.6	16	-N		C	1800	.52	.60			D
SANM	09	1759	1806	1801	N13	E24	.454	10134	11.5	7	-N		C		.32	.35			D
GRP23574	09	1819	1828	1822	S15	E06	.282	10135	10.2	9	-N				.25				2 2 2 8
SANM	09	1818	1827	1822	S15	E05	.277	10135	10.1	9	-N		C		.17	.17			D
SACP	09	1819	1828	1822	S15	E06	.282	10135	10.2	9	-N		C		.32	.31			
576 SACP	09	1853	1901	1855	S12	W81	.988	10121	3.7	8	-F		C		.42				7
577 SANM	09	1859	1906	1903	S15	E05	.277	10135	10.2	7	-N		C		.17	.17			D 8
579 HALE	09	1958	2013	2004	S06	E04	.130	10135	10.1	15	-F	2	C	2004	.41	.40			5

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
581 HALE	09	2046	2052	2048	S14	E08	.281	10135	10.5	6	-F	2	C	2048	.83	.90			5
582 HALE	09	2122	2137	2123	S09	W78	.979	10121	4.0	15	-N	1	C	2123	.41				5
584 HALE	09	2204	2223	2205	N07	W02	.122	10134	9.8	19	-F	2	C	2205	.52	.50			L 4
588 HALE	10	0032	0054	0033	N15	E06	.272	10134	10.5	22	-B	2	C	0033	.31	.30			V 4
589 HALE	10	0139	0154	0142	S14	W22	.440	10131	8.4	15	-B	2	C	0142	.21	.20			5
590 HALE	10	0141	0200	0142	N13	E90	1.000	10144	16.8	19	-F	1	C	0142	.21				V 5
592 HALE	10	0205	0213	0206	S12	E01	.215	10135	10.2	8	-B	2	C	0206	.26	.30			V 5
594 HALE	10	0258	0309	0259	N15	W05	.266	10134	9.7	11	-B	2	C	0259	.41	.40			V 6
GRP23595	10	0355	0422	0403	N16	E21	.437	10134	11.7	27	-N				1.26				2 2 2 8
ABST	10	0354E	0446D	0403	N14	E20	.407	10134	11.7	52D	1N		P	0403	1.80	2.00		66	FK
MITK	10	0355	0418	0402	N16	E23	.462	10134	11.9	23	-N		C	0402	.72	.80			E
ABST	10	0355	0425	0401	N16	E16	.378	10134	11.4	30	-F		C	0401	.45	.50		50	EZ
GRP23597	10	0625	0643	0629	S15	W20	.424	10131	8.8	18	-N				.65				2 2 2 7
MITK	10	0624	0640	0627	S14	W21	.427	10131	8.7	16	-N		C	0627	.72	.80			EG
CATA	10	0625	0645	0630	S15	W18	.399	10131	8.9	20	-N			0630	.58	.63		151	
599 CRON	10	0650	0710	0656	N03	E72	.951	10142	15.7	20	1N		C		.90	2.30			12
600 CATA	10	0710E	0740	0710	N13	E01	.219	10134	10.4	30D	-N			0710	.75	.77		172	13
GRP23601	10	0713	0729	0721	N13	E17	.359	10134	11.6	16	-N				1.18				5 5 4 12
CATA	10	0710E	0740	0710	N13	E17	.359	10134	11.6	30D	-N			0710	.52	.56		178	
ONDR	10	0711	0723		N14	E16	.356	10134	11.5	12	-N		V	0720			1.70		CDJ
ZURI	10	0717	0725	0721	N14	E14	.332	10134	11.4	8	-N		C	0721	.79	.80			
WEND	10	0718E	0730		N12	E18	.363	10134	11.7	12D	1N		V		3.09				
MANI	10	0723E	0728		N12	E18	.363	10134	11.7	5D	-F	2		0724	.31	.33			
GRP23603	10	0810	0820	0812	N17	E17	.400	10134	11.6	10	-F				.55				2 2 1 14
ZURI	10	0810	0820	0812	N14	E14	.332	10134	11.4	10	-N		C	0812	.55	.60			
ISTA	10	0810	0820		N19	E20	.454	10134	11.8	10	-F								
604 ZURI	10	0920	0930	0925	S12	W05	.231	10135	10.0	10	-N		C	0925	1.47	1.50			12
605 ZURI	10	0933	0938	0935	S14	W02	.251	10135	10.2	5	1N		C	0935	2.10	2.20			13
606 ZURI	10	0957	1001	0959	S14	W02	.251	10135	10.3	4	-N		C	0959	1.68	1.70			12
607 ZURI	10	1008	1200	1020	S14	W02	.251	10135	10.3	112	1F		C	1020	2.10	2.20			13
609 MONT	10	1114	1135D	1124	S11	W90	1.000	10121	3.7	21D	-N		C	1124	1.13				10
GRP23611	10	1242	1343	1251	S12	W90	1.000	10121	3.8	61	-N				.77				2 2 1 14
MONT	10	1236	1400D	1250	S11	W90	1.000	10121	3.8	84D	-N	8	C	1250	.77				
BOUL	10	1248	1325	1252	S13	W90	1.000	10121	3.8	37	-N	8	V						
GRP23613	10	1306	1312	1307	N10	W10	.239	10134	9.8	6	-N				.47				2 2 2 11
MCMA	10	1305	1313	1307	N10	W10	.239	10134	9.8	8	-N		C	1307	.41	.40			E
ZURI	10	1306	1310	1306	N10	W09	.227	10134	9.9	4	-N		C	1306	.53	.50			
GRP23614	10	1309	1322	1311	S14	E00	.249	10135	10.5	13	-N				.84				2 2 2 11
MCMA	10	1309	1324	1311	S14	E05	.263	10135	10.9	15	-N		C	1311	.41	.40			E
ZURI	10	1309	1313	1311	S11	W07	.231	10135	10.0	4	-N		C	1311	1.26	1.30			
ZURI	10	1317	1320	1318	S15	W03	.270	10135	10.3	3	-N		C	1318	.69	.70			
GRP23617	10	1352	1402	1355	S12	W90	1.000	10121	3.8	10	-F								2 2 0 16
MCMA	10	1345	1358	1350	S10	W90	1.000	10121	3.8	13	-N	8	C	1350					
BOUL	10	1359	1405	1400	S13	W90	1.000	10121	3.8	6	-F	8	V						
618 SACP	10	1411	1416	1413	S12	W09	.264	10135	9.9	5	-F		C		.32	.31			12
622 SACP	10	1527	1531	1529	S12	W09	.264	10135	10.0	4	-F		C		.32	.31			11
623 MCMA	10	1602	1630	1611	S10	W90	1.000	10121	3.9	28	-N		C	1611					8
GRP23624	10	1627	1648	1628	S14	W06	.269	10135	10.2	21	-N				1.13				2 1 1 8
ZURI	10	1627	1648	1628	S14	W06	.269	10135	10.2	21	-N		C	1628	1.13	1.20			
MCMA	10	1627	1705	1645	S15	W05	.279	10135	10.3	38	-N		C	1645	.62	.70			E
625 BOUL	10	1630	1640	1632	N12	E07	.234	10134	11.2	10	-F		V						10

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
629 MCMA	10	1803	1820	1806	S18	W13	.381	10135	9.8	17	-N		C	1806	.41	.40			EL 5
630 MCMA	10	1818	1825	1820	N10	W12	.264	10134	9.9	7	-N		C	1820	.41	.40			E 4
632 HALE	10	1932	1942D	1935	S10	W11	.260	10135	10.0	10D	-F	2	P	1935	1.19	1.20			4
637 SACP	10	2223	2231	2225	N11	W14	.301	10134	9.9	8	-N		C		.42	.41			5
GRP23642	11	0432	0446	0434	N08	W16	.303	10134	10.0	14	-N				.70				2 2 2 8
HALE	11	0432	0449D	0434	N08	W15	.288	10134	10.1	17D	-N	2	P	0434	.67	.70			
MANI	11	0432	0443	0434	N08	W16	.303	10134	10.0	11	-N	2		0434	.72	.76			
GRP23644	11	0507	0522	0511	S15	W23	.462	10135	9.5	15	-F				.49				2 2 2 7
MITK	11	0506	0521	0511	S15	W23	.462	10135	9.5	15	-N		C	0511	.72	.80			E
MANI	11	0507	0523	0511	S15	W23	.462	10135	9.5	16	-F	1		0511	.26	.29			
GRP23647	11	0548	0607	0553	N14	E05	.248	10134	11.6	19	-F				1.11				2 2 2 9
ABST	11	0545	0612	0554	N14	E05	.248	10134	11.6	27	-F	8	C	0554	1.80	1.80		50	E
MANI	11	0550	0602	0552	N13	E05	.232	10134	11.6	12	-F	2		0552	.41	.42			
653 ZURI	11	0829	0836	0830	S14	W17	.378	10135	10.1	7	1N		C	0830	2.31	2.50			10
GRP23654	11	0838	0842	0839	N10	W20	.375	10134	9.9	4	-F				.84				2 2 2 9
ZURI	11	0837	0840	0838	N09	W20	.369	10134	9.9	3	-N		C	0838	1.36	1.40			
MEUD	11	0838	0843	0839	N10	W19	.361	10134	9.9	5	-F		C	0839	.31	.30			D
656 ZURI	11	0844	0849	0846	S14	W17	.378	10135	10.1	5	-N		C	0846	.84	.90			9
660 ZURI	11	1207	1209	1208	S13	W16	.356	10135	10.3	2	1N		C	1208	2.31	2.50			9
661 CAPS	11	1212E	1233D		S12	W18	.372	10135	10.2	21D	-F	4	V	1225	.70	.70		157	11
662 ZURI	11	1250	1254	1253	S13	W16	.356	10135	10.3	4	-N		C	1253	1.78	1.90			12
663 CAPS	11	1303E	1320D		S12	W18	.372	10135	10.2	17D	-F	4	V	1307	.30	.30		157	11
665 SACP	11	1347	1358	1353	N13	W22	.425	10134	9.9	11	-F		C		.32	.32			10
672 SACP	11	2317	2336	2320	S21	W20	.486	10135	10.5	19	-N		C		1.05	1.08			4
675 MANI	12	0135	0200D	0145	N12	W23	.430	10134	10.3	25D	-F	2		0145	.26	.29			4
677 HALE	12	0319	0327	0320	S17	W31	.577	10135	9.8	8	-N	2	C	0320	.62	.80			F 4
678 HALE	12	0424	0433	0425	S18	W18	.434	10135	10.8	9	-N	2	C	0425	.31	.30			6
679 HALE	12	0425	0437	0428	N10	W28	.491	10134	10.1	12	-N	2	C	0428	.31	.40			6
680 HALE	12	0437	0449	0444	S17	W43	.718	10131	9.0	12	-F	2	C	0444	.31	.40			5
681 ABST	12	0452	0540	0515	N07	W29	.494	10134	10.0	48	-F		C	0515	1.35	1.60		55	E 6
682 ABST	12	0511	0545	0514	S14	W27	.507	10135	10.2	34	-F		C	0514	1.35	1.60		46	D 5
686 ZURI	12	1204	1249	1207	S15	W34	.603	10135	10.0	45	-N		C	1207	1.05	1.30			5
687 ZURI	12	1204	1249	1242	S15	W30	.552	10135	10.3	45	1N		C	1242	2.31	2.80			6
689 ONDR	12	1258E	1309		N13	W14	.319	10134	11.5	11D	-N		V	1259			1.50		CDJ 5
690 MEUD	12	1307	1316	1310	S16	W35	.620	10135	9.9	9	-F		C	1310	.52	.60			E 6
691 MEUD	12	1323	1335		N10	W57	.843	10130	8.3	12	-F		C	1326	.41	.70			8
692 MCMA	12	1335	1350		N13	W36	.612	10134	9.9	15	-N		C	1340	.41	.50			E 7
693 MEUD	12	1434	1442	1436	N13	W37	.625	10134	9.8	8	-F		C	1436	.52	.60			9
694 MCMA	12	1443	1450	1444	N09	W58	.851	10130	8.3	7	-F		C	1444	.41	.80			D 8
696 MEUD	12	1542	1547		N10	W58	.852	10130	8.3	5	-F		C	1544	.31	.50			D 8
697 HALE	12	1629	1650	1632	S06	E05	.144	10154	13.1	21	-F	2	C	1632	.21	.20			8
699 HALE	12	1701	1855	1736	S18	W50	.794	10131	9.0	114	-N	2	C	1736	.41	.70			SF 6
700 MEUD	12	1747	1759D		N21	W12	.399	10134	11.8	12D	-F		C	1748	1.44	1.50			E 6
701 HALE	12	1801	1849	1813	S20	W50	.800	10131	9.0	48	-F	1	C	1813	.41	.70			CKL 5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23706	13	0539	0546	0540	S17	W42	.707	10135	10.1	7	-F				.41				2 2 1 7
HTPR	13	0538	0543	0540	S16	W40	.681	10135	10.2	5	-F		C	0540	.41	.50			
ONDR	13	0539	0549		S17	W43	.719	10135	10.0	10	-F		V	0540			1.30		CDJ
707 HTPR	13	0657	0701	0658	S16	W40	.681	10135	10.3	4	-F		C	0658	.31	.40			11
709 ARCE	13	0815	0828	0821	N09	W70	.940	10130	8.1	13	-F		C	0821	.26	.60			HI 10
710 CAPS	13	0821E	0829D		N07	W50	.769	10134	9.6	8D	-N	1	V	0824	.40	.60			C 10
GRP23711	13	0854	0906	0858	S09	W90	1.000	10128	6.6	12	-N				.68				2 2 2 12
MONT	13	0852	0907	0857	S08	W90	1.000	10128	6.6	15	-N		C	0857	.77				
ARCE	13	0856	0904	0858	S09	W90	1.000	10128	6.6	8	1N		C	0858	.59	3.30			H
712 ARCE	13	0914	1016	0932	N15	E80	.985	10148	19.4	62	-B		C	0932	.62	2.00			7
713 MEUD	13	0926	0927D		S17	W45	.740	10135	10.0	1D	-F		C	0927	.31	.40			7
715 ARCE	13	1011	1059	1018	N10	E65	.908	10144	18.3	48	-B		C	1018	.69	1.60			6
716 ZURI	13	1113E	1133	1113	S12	W46	.736	10135	10.0	20D	-N		P	1113	1.01	1.50			6
GRP23718	13	1143	1152	(1147)	S17	W38	.662	10135	10.6	9	-F				.40				2 2 1 5
CAPS	13	1143	1155D		S17	W35	.627	10135	10.9	12D	-F	3	V	1149	.40	.50		152	
ONDR	13	1144E	1148		S17	W40	.685	10135	10.5	4D	-F		V	1145			1.40		CDJ
719 CATA	13	1220	1225D	1220	N13	E78	.979	10148	19.4	5D	-N			1220	.29			160	6
720 CATA	13	1220	1225D	1220	S12	W47	.747	10135	10.0	5D	-N			1220	.46	.69		190	Z 6
721 MONT	13	1451	1455	1452	S11	W48	.756	10135	10.0	4	-N		C	1452	.46				11
723 HALE	13	1602	1637	1607	N12	W47	.743	10134	10.1	35	-N	3	C	1607	.93	1.40			6
726 HALE	13	2145	2234	2149	S16	W31	.572	10135	11.6	49	1F	2	C	2149	1.75	2.10			F 4
727 MCMA	13	2236E	2248D		S12	W54	.820	10135	9.9	12D	-N		P	2248	1.03	1.80			EH 5
729 SACP	14	0044	0053	0048	N15	E73	.958	10148	19.5	9	-F		C		.32	.67			4
731 MANI	14	0233E	0238D	0235	S14	W52	.805	10135	10.2	5D	-F	1		0235	.41	.66			3
733 MEUD	14	0716	0719	0717	S16	W57	.855	10135	10.0	3	-F		C	0717	.26	.50			D 8
GRP23736	14	0838	0845	0841	S13	W59	.867	10135	9.9	7	-F				1.55				2 2 2 9
MONT	14	0836	0846	0841	S13	W57	.850	10135	10.1	10	1F		C	0841	2.58				
MEUD	14	0840	0843	0841	S13	W61	.883	10135	9.8	3	-F		C	0841	.52	1.00			D
GRP23737	14	0946	0957	0948	S12	W61	.882	10135	9.8	11	-F				.41				2 2 1 9
ONDR	14	0945	0958D		S11	W60	.873	10135	9.9	13D	1F		V	0948			1.70		CJ
MEUD	14	0947	0955	0948	S13	W61	.883	10135	9.8	8	-F		C	0948	.41	.80			D
GRP23738	14	1002	1009	1005	S14	W59	.868	10135	10.0	7	-F				.56				2 2 2 9
CANR	14	1001	1011	1005	S12	W58	.857	10135	10.1	10	-N		C		.80	1.50			
MEUD	14	1003	1007		S16	W59	.871	10135	10.0	4	-F		C	1003	.31	.60			
GRP23739	14	1006	1019	1010	N18	W33	.597	10134	11.9	13	-F				.67				2 2 2 8
CATA	14	1005	1015	1010	N18	W32	.585	10134	12.0	10	-N			1010	.34	.43		170	
CANR	14	1006	1022	1009	N18	W33	.597	10134	11.9	16	-F		C		1.00	1.30			
741 SACP	14	1225	1251	1232	N10	W59	.860	10134	10.1	26	-N		C		.54	.78			8
GRP23742	14	1346	1419	1355	S11	W64	.904	10135	9.8	33	-N				.43				2 2 2 6
CATA	14	1345	1425	1355	S09	W64	.903	10135	9.8	40	-N			1355	.23	.53		195	
SACP	14	1346	1412	1355	S12	W63	.898	10135	9.8	26	-N		C		.63	1.02			
743 SACP	14	1347	1405	1355	N18	W35	.621	10134	11.9	18	-F		C		.42	.46			6
745 ONDR	14	1440E	1446		S11	W60	.873	10135	10.1	6D	-N		V	1441			2.30		CJ 4
746 CATA	14	1445E	1500D	1445	N14	E06	.249	10147	15.1	15D	-F			1445	.29	.30		144	5
752 MANI	14	2253E	2300D		N12	W90	1.000	10130	8.2	7D	-N	2		2255	.31	1.01			4
754 MITK	15	0007	0023	0016	N12	W90	1.000	10130	8.3	16	1N		C	0016	.62				3
759 HALE	15	0359	0404	0400	N19	W42	.706	10134	12.0	5	-B	1	C	0400	.21	.30			EFV 6
762 MANI	15	0751	0803	0753	S19	E48	.779	10146	18.9	12	-F	1		0753	.36	.56			8

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
765 ONDR	15	1125E	1137D		S14	W76	.973	10135	9.8	12D	-F		V	1129			1.60		CDJ 3
777 SACP	15	2142	2202	2148	N01	W03	.052	10142	15.7	20	-F		C		.42	.41			4
778 HALE	15	2209	2219	2211	S15	E26	.504	10146	17.9	10	-B	1	C	2211	.21	.20			4
779 HALE	15	2249	2256	2250	S08	E51	.784	10146	19.8	7	-B	1	C	2250	.21	.30			5
780 SACP	15	2304	2334	2310	S22	E55	.851	10146	20.1	30	-N		C		.53	.75			5
781 HALE	16	0050	0125	0053	N12	W61	.878	10134	11.5	35	-F	2	C	0053	.21	.40			6
GRP23782	16	0202	0216	0205	S17	W77	.978	10135	10.3	14	-F				.47				2 2 2 7
HALE	16	0201	0216	0204	S17	W74	.966	10135	10.5	15	-F	2	C	0204	.41				
MANI	16	0203	0209D	0205	S16	W79	.984	10135	10.2	6D	-F	2		0205	.52	1.30			
783 HALE	16	0203	0214	0205	S23	E53	.838	10146	20.1	11	-F	2	C	0205	.15	.30			7
784 CULG	16	0309	0343	0326	S11	W86	.998	10135	9.7	34	1F		C	0326	.83				8
785 HALE	16	0428	0452D	0431	S17	W74	.966	10135	10.6	24D	-F	1	P	0431	.36				6
786 MANI	16	0535	0550	0536	S17	W78	.981	10135	10.4	15	-N	1		0536	.31	.75			9
GRP23787	16	0620	0638	0630	N08	E47	.735	10148	19.8	18	-F				.57				2 2 2 8
CATA	16	0615	0635	0625	N07	E46	.722	10148	19.7	20	-N			0625	.23	.33		151	
ABST	16	0625	0640	0634	N08	E47	.735	10148	19.8	15	-F		C	0634	.90	1.30		50	D
788 MANI	16	0624	0641	0633	N07	W46	.722	10134	12.8	17	-N	2		0633	.41	.55			9
GRP23789	16	0702	0735		N07	E45	.710	10148	19.7	33	-N				.47				2 2 2 11
CATA	16	0655	0710	0700	N07	E46	.722	10148	19.7	15	-N			0700	.29	.42		164	
ZURI	16	0709	0731D	0731	N07	E43	.685	10148	19.5	22D	-N		P	0731	.65	.90			
CATA	16	0710	0735	0720	N06	E48	.745	10148	19.9	25	-N			0720	.29	.43		182	
790 MONT	16	0819	0827	0823	S13	W88	1.000	10135	9.7	8	-N		C	0823	1.13				7
791 MONT	16	1013	1018	1015	S19	W88	1.000	10135	9.8	5	-N		C	1015	.21				10
793 MCMA	16	1257	1301	1258	S18	E18	.439	10146	17.9	4	-F		C	1258	.21	.30			D 9
795 SACP	16	1537	1544	1539	N08	E51	.780	10148	20.5	7	-N		C		.32	.40			6
797 MCMA	16	2214	2237		S17	E12	.369	10146	17.8	23	-N		C	2225	.52	.60			EHK 4
798 MCMA	16	2252	2300D		N09	E12	.247	10144	17.9	8D	-N		C	2259	.52	.60			E 5
800 SACP	17	0041	0049	0044	S18	W90	1.000	10135	10.3	8	-N		C		.32				3
801 HALE	17	0051E	0056	0052	N10	E28	.488	10148	19.1	5D	-F	1	P	0052	.83	.90			C 5
802 HALE	17	0221E	0315D	0306U	S14	E14	.352	10146	18.1	54D	-N	1	P	0306	.41	.40			LJ 4
803 HALE	17	0241	0254	0245	N10	E29	.502	10148	19.3	13	-F	2	C	0245	.41	.50			4
804 HALE	17	0423	0452D	0444	S17	E34	.618	10146	19.7	29D	-F	1	P	0444	.21	.30			4
GRP23805	17	0535	0612	0554	N09	E06	.170	10144	17.7	37	-F				.61				2 2 2 9
HTPR	17	0535	0600	0554	N09	E06	.170	10144	17.7	25	-F		C	0554	.31	.30			W
CRIM	17	0555E	0624		N09	E06	.170	10144	17.7	29D	-F		C	0555	.90	.90			E
806 MEUD	17	0613	0615	0613	N15	W78	.978	10134	11.4	2	-F		C	0613	.31				D 9
807 MANI	17	0617E	0622		S20	E20	.483	10146	18.8	5D	-F	1		0617	.31	.35			9
808 ARCE	17	0900	0920	0912	S17	W90	1.000	10135	10.6	20	-N		C	0912	.23	1.30			7
GRP23809	17	0905	0923	0914	N11	E33	.562	10148	19.9	18	-N				.51				2 2 2 7
CATA	17	0905	0920	0910	N11	E33	.562	10148	19.9	15	-B			0910	.40	.50		204	
ARCE	17	0912E	0925	0918	N11	E33	.562	10148	19.9	13D	-F		C	0918	.62	.70			
810 CATA	17	1045	1100	1045	N09	E25	.439	10148	19.3	15	-N			1045	.34	.39		170	7
812 CATA	17	1435	1440	1435	N06	E23	.398	10148	19.3	5	-F			1435	.29	.32		126	10
813 MCMA	17	1613	1627	1615	S18	E04	.336	10146	18.0	14	-N		C	1615	.31	.30			D 12
815 HALE	17	1704	1710	1705	N14	W90	1.000	10134	11.0	6	-N	3	C	1705	.21				7

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
817 HALE	18	0025	0037	0027	S18	E01	.332	10146	18.1	12	-F	1	C	0027	.36	.40			5
821 MANI	18	0458E	0506	0459	N08	E15	.282	10148	19.3	8D	-F	2		0459	.41	.43			5
GRP23822	18	0650	0710	0703	N09	E14	.274	10148	19.3	20	-F				.52				2 2 2 10
CATA	18	0650	0710	0700	N08	E14	.266	10148	19.3	20	-N			0700	.58	.60		178	
ARCE	18	0705E	0705D	0705	N10	E13	.268	10148	19.3		-F		C	0705	.46	.50			H
823 CATA	18	0730E	0745	0735	N08	E12	.236	10148	19.2	15D	-F			0735	.34	.36		148	10
824 CATA	18	0820	0835	0825	N08	E13	.251	10148	19.3	15	-F			0825	.46	.48		148	10
825 CATA	18	0850	0905	0855	N10	E16	.311	10148	19.6	15	-N			0855	.23	.24		178	11
826 MONT	18	0918	0936	0923	N26	W47	.782	10147	14.9	18	-N		C	0923	.77				9
GRP23830	18	1326	1339	1331	N09	E13	.259	10148	19.5	13	-F				.17				2 2 1 8
BOUL	18	1326E	1329	1326	N09	E11	.231	10148	19.4	3D	-F	8	V						
BOUL	18	1331	1338	1332	N10	E14	.282	10148	19.6	7	-F	8	V						
CATA	18	1335	1340	1335	N08	E14	.266	10148	19.6	5	-N	8		1335	.17	.18		160	
834 HURB	18	1625	1629		N09	E10	.217	10148	19.4	4	-N						2.50		9
GRP23836	18	1651	1700	1652	N10	E11	.241	10148	19.5	9	-F				.55				2 2 2 9
SACP	18	1650	1658	1652	N10	E11	.241	10148	19.5	8	-F		C		.73	.72			
HALE	18	1651	1701	1652	N10	E11	.241	10148	19.5	10	-N	3	C	1652	.36	.40			
844 HALE	19	0020	0030	0021	N08	E08	.179	10148	19.6	10	-N	1	C	0021	.62	.60			6
GRP23846	19	0128	0149	0130	N15	W55	.828	10147	14.9	21	-F				.26				2 2 2 6
HALE	19	0128	0156	0130	N16	W57	.848	10147	14.8	28	-N	1	C	0130	.21	.40			
MANI	19	0130E	0142		N14	W52	.797	10147	15.2	12D	-F	2		0133	.31	.50			
2 STATIONS REPORTING GROUP 23848.					2 STATIONS OBSERVING AND NOT REPORTING.														
848 MANI	19	0518	0544	0525	N14	W55	.827	10147	15.1	26	-F	2		0525	.41	.69			4
848 HTPR	19	0517	0537	0527	N16	W70	.942	10147	14.0	20	*-F		C	0527	.41	.70			5
849 HTPR	19	1002	1009	1005	S17	W19	.443	10146	18.0	7	-F		C	1005	.41	.40			E 5
850 HTPR	19	1137	1140	1138	N08	E04	.133	10148	19.8	3	-N		C	1138	.52	.50			4
851 MONT	19	1211	1226	1216	N15	W61	.880	10147	14.9	15	-N		C	1216	.21				6
GRP23854	19	1300	1307	1303	N08	E04	.133	10148	19.8	7	-F				.41				2 2 1 8
BOUL	19	1258	1304	1301	N09	E04	.148	10148	19.8	6	-N		V						
HTPR	19	1301	1310	1305	N06	E03	.095	10148	19.8	9	-F		C	1305	.41	.40			E
855 MONT	19	1318	1321	1319	N18	W61	.883	10147	15.0	3	-N		C	1319	.21				7
857 BOUL	19	1500E	1507	1501	N12	E02	.186	10148	19.8	7D	-F		V						7
860 HALE	19	1608	1610D	1610	N18	W62	.891	10147	15.0	2D	-N	2	C	1610	.31	.70			K 9
861 HALE	19	1626E	1643	1626	N18	W62	.891	10147	15.0	17D	-N	2	C	1626	.31	.70			K 7
862 SACP	19	1704	1715	1707	N08	E00	.114	10148	19.7	11	-F		C		.53	.52			9
GRP23863	19	1726	1738	1727	N16	W63	.896	10147	15.0	12	-F				.21				2 2 1 7
HALE	19	1725E	1738	1726	N17	W63	.897	10147	15.0	13D	-N	2	P	1726	.21	.50			
BOUL	19	1726	1728D	1727	N15	W63	.896	10147	15.0	2D	-F		V						
GRP23868	19	2241	2252	2245	N09	W03	.141	10148	19.7	11	-F				.21				2 2 1 5
BOUL	19	2240	2253	2244	N09	W05	.157	10148	19.6	13	-F		V						
MANI	19	2241	2251	2246	N08	W01	.115	10148	19.9	10	-F	2		2246	.21	.21			
869 MANI	19	2242	2300	2247	S19	E00	.350	10146	19.9	18	-F	2		2247	.52	.55			5
870 BOUL	19	2318	2329	2321	N09	W07	.178	10148	19.4	11	-F		V						6
872 MANI	19	2340	2350	2342	N06	W04	.105	10148	19.7	10	-F	2		2342	.52	.52			6
878 HALE	20	0326	0408	0328	N10	W03	.155	10148	19.9	42	1N	1	C	0328	2.37	2.40			F 7
879 ARCE	20	0730	0837	0758	N09	E70	.940	10158	25.6	67	-F		C	0758	.29	.70			7
880 ZURI	20	0855	0900	0855	S18	W11	.381	10146	19.5	5	-F		C	0855	1.11	1.20			11
881 ZURI	20	1029	1031	1029	N12	W36	.604	10144	17.7	2	-F		C	1029	.84	1.00			9

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
882 SACP	20	1224	1233	1227	N07	W13	.243	10148	19.5	9	-N		C		.43	.42			6
883 ZURI	20	1235	1237D	1235	N07	W10	.197	10148	19.8	2D	-F		P	1235	1.05	1.10			8
885 MONT	20	1534	1542	1536	N11	W64	.900	10159	15.8	8	-N		C	1536	.77				7
888 HALE	20	1713	1716	1714	N12	W20	.381	10148	19.2	3	-F	2	C	1714	1.24	1.30			4
889 HALE	20	1805	1816	1806	N14	W12	.295	10148	19.9	11	-N	1	C	1806	.31	.30			F 4
897 HALE	21	0217	0224	0218	N06	W17	.301	10148	19.8	7	-F	2	C	0218	.26	.30			4
898 ZURI	21	0956	0958	0956	S17	W22	.479	10146	19.8	2	-N		C	0956	1.40	1.60			8
899 ZURI	21	1006	1010	1006	N11	W30	.518	10148	19.2	4	-N		C	1006	.89	1.00			7
900 CATA	21	1235	1245	1235	N06	W25	.427	10148	19.6	10	-F			1235	.34	.38		148	8
GRP23903	21	1415	1426	1419	S15	W25	.498	10146	19.7	11	-F				.69				2 2 2 11
ZURI	21	1414	1422	1418	S16	W24	.494	10146	19.8	8	-F		C	1418	1.09	1.30			
CATA	21	1415	1430	1420	S14	W25	.490	10146	19.7	15	-N			1420	.29	.33		157	
904 HALE	21	1606	1616	1608	N12	W31	.536	10148	19.3	10	-F	2	C	1608	.36	.40			10
907 HALE	22	0022	0049	0027	S17	W29	.563	10146	19.8	27	1N	2	C	0027	1.86	2.30			F 5
908 HALE	22	0123	0145	0134	S20	W10	.406	10146	21.3	22	-F	2	C	0134	.10	.10			C 4
910 CATA	22	0820	0850	0820	N03	W34	.559	10148	19.8	30	-F			0820	.46	.56		144	8
GRP23913	22	1415	1435	1415	N10	W40	.650	10148	19.6	20	-N				1.04				2 2 2 8
CAPS	22	1415E	1425D		N08	W43	.685	10148	19.4	10D	-N	3	V	1418	1.50	1.80		161	C
CATA	22	1415	1435	1415	N12	W36	.603	10148	19.9	20	-N			1415	.58	.72		166	
915 HALE	22	1722	1748	1732	N06	W41	.657	10148	19.6	26	-N	2	C	1732	.62	.80			F 5
916 HALE	22	2041	2112D	2043	N10	W40	.650	10148	19.9	31D	-N	2	P	2043	.41	.50			4
917 HALE	22	2127	2145	2130	N29	W12	.492	10152	22.0	18	-N	2	C	2130	.21	.20			J 4
918 HALE	22	2158	2206	2159	S22	W39	.706	10146	20.0	8	-F	2	C	2159	.21	.30			5
GRP23919	22	2354	0013	0001	S17	W30	.575	10146	20.7	19	1N				2.27				1 1 1 6
CULG	22	2354	0013	0001	S17	W30	.575	10146	20.7	19	1N		C	0001	2.27	2.75			S
CULG	22	2354	0013	0001	S17	W30	.575	10146	20.7	19	1N		C	0001	2.27	2.75			2 0
920 MANI	23	0106	0120D	0110	N10	W46	.724	10148	19.6	14D	-F	2		0110	.21	.30			3
921 MANI	23	0144	0150	0145	N10	W41	.663	10148	20.0	6	-F	2		0145	.41	.55			4
924 CATA	23	1000E	1025D	1005	N04	W21	.360	10152	21.8	25D	-F			1005	.52	.56		141	7
925 CATA	23	1040E	1105D	1055	N04	W21	.360	10152	21.9	25D	-F			1055	.46	.50		132	8
926 SACP	23	1558	1622	1604	S18	W69	.944	10146	18.5	24	-F		C		.53	1.02			5
930 MANI	24	0308E	0340		S21	W55	.853	10146	20.0	32D	-F	2		0310	.83	1.44			8
931 CULG	24	0415	0510	0436	S13	W61	.886	10146	19.6	55	1F		P	0436	1.13				5
932 ISTA	24	0700	0835	0825	N09	E90	1.000	10165	1.0	95	-F								9
936 HALE	24	1727	1745	1730	N14	W70	.940	10148	19.5	18	-N	1	C	1730	.21				4
937 HTPR	24	1802	1805	1802	N03	W68	.927	10148	19.7	3	-F		C	1802	.31				C 5
GRP23939	24	2211	2229	2223	N11	W71	.945	10148	19.6	18	-F				.24				2 2 2 5
MANI	24	2201	2229	2222	N11	W72	.951	10148	19.5	28	-F	2		2222	.26	.63			
HALE	24	2221	2229D	2223	N10	W70	.939	10148	19.7	8D	-N	1	P	2223	.21				
GRP23940	24	2310	2337	2315	N14	W74	.961	10148	19.4	27	1F				.67				2 2 2 5
CULG	24	2307	2316D	2314	N14	W73	.956	10148	19.5	9D	1F		P	2314	.72				
HALE	24	2312	2337	2315	N13	W75	.966	10148	19.3	25	1N	1	C	2315	.62				
941 HALE	24	2357	2359D	2358	N10	W71	.945	10148	19.7	2D	-F	1	P	2358	.15				4
942 HALE	25	0023	0040	0027	S13	W65	.915	10146	20.1	17	-N	2	C	0027	.46				4

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1969 JUNE																		
GRP23944	25	0146	0258	0206	S17	W73	.963	10146	19.6	72	1F				2.32				2 2 2 7
CULG	25	0144	0307		S20	W75	.973	10146	19.4	83	2F		P	0204	2.89				R
HALE	25	0147	0203	0151	S12	W69	.940	10146	19.9	16	-B	1	C	0151	.31				
HALE	25	0202	0248	0206	S14	W72	.957	10146	19.7	46	1N	1	C	0206	1.74				FW
945 MANI	25	0245E	0248D		S25	W90	1.000	10146	18.4	3D	1N	2		0247	.83	2.68			7
GRP23946	25	0343	0440	(0345)	S20	W73	.965	10146	19.7	57	-F				.57				2 2 2 7
CULG	25	0343	0440		S20	W75	.973	10146	19.5	57	1F		P	0343	.72				
MANI	25	0344E	0415D		S20	W70	.951	10146	19.9	31D	-F	3		0347	.41	1.00			
948 MANI	25	0701	0722	0711	N06	W78	.978	10148	19.4	21	-F	2		0711	.26	.62			6
949 MANI	25	0725E	0731D		S24	W88	1.000	10146	18.7	6D	1N	2		0727	1.24	3.83			6
953 BOUL	25	1408E	1414	1408	N07	W78	.978	10148	19.7	6D	-F		V						9
954 MCMA	25	1421	1426	1423	S21	W77	.981	10146	19.8	5	-N		C	1423					D 8
955 HALE	25	2206	2218	2207	N10	E51	.780	10165	29.7	12	-F	1	C	2207	.41	.70			F 5
GRP23956	26	0832	0915	0842	N07	E45	.708	10165	29.7	43	-F				1.28				2 2 2 7
ABST	26	0832E	0915	0841	N07	E46	.720	10165	29.8	43D	1F		P	0841	1.80	2.60		50	EL
ARCE	26	0842E	0901D	0842	N07	E44	.696	10165	29.7	19D	-N		C	0842	.75	1.00			
957 CATA	26	0910	0915	0910	N18	W50	.782	10152	22.6	5	-N			0910	.58	.92		162	8
958 BOUL	26	1524E	1603	1540	S22	W88	1.000	10146	20.0	39D	-N		V						9
959 MANI	27	0119	0138	0124	N09	E37	.607	10165	29.8	19	-F	2		0124	.93	1.16			5
960 ONDR	27	0529E	0550		N05	E32	.530	10165	29.6	21D	-F		V	0531			1.10		GHJ 5
963 HALE	27	1725	2010U	1809U	N15	E08	.257	10185	28.3	165D	-N	2	C	1809	.62	.60			LJFT 6
964 MCMA	27	2212	2222	2215	N07	W23	.397	10163	26.2	10	-F		C	2215	.72	.80			E 6
966 ISTA	28	0620	0630		N16	E00	.233	10185	28.3	10	-N								5
967 CATA	28	1125E	1140	1130	N16	W03	.239	10185	28.3	15D	-N			1130	.17	.18		158	5
968 BOUL	28	1318	1330	1323	N15	W90	1.000	10152	21.8	12	-N		V						9
970 MCMA	28	1857	1915	1903	S13	E28	.527	10166	30.9	18	-N		C	1903	.31	.40			E 5
972 HALE	28	2120	2250	2133	S23	E44	.765	10170	2.2	90	-F	2	C	2133	.62	1.00			F 5
974 MANI	29	0659E	0700D		N15	E72	.951	10174	4.7	1D	-F	2		0659	.52	1.20			6
975 LOCA	29	0723	0744	0728	S10	E23	.441	10166	1.0	21	-N		V	0728	.63	.80			6
977 CATA	29	1230	1240	1230	S13	E25	.490	10166	1.4	10	-F			1230	.14	.16		148	7
979 SACP	29	1257	1309	1305	N06	W49	.754	10163	25.9	12	-N		C		.21	.26			7
981 SACP	29	1523	1531	1527	S10	E17	.360	10166	30.9	8	-F		C		.31	.31			6
983 HALE	29	1602E	1616		N08	W50	.767	10163	25.9	14D	-N	1	P	1602	.21	.30			7
984 MCMA	29	1640E	1700	1649	S11	E17	.370	10166	1.0	20D	-N		C	1649	.62	.70			E 9
985 BOUL	29	1933	1952D	1936	S08	E13	.288	10166	30.8	19D	-N		V						4
987 BOUL	29	2041E	2052D	2043	S08	E12	.276	10166	30.8	11D	-F		V						4
1 STATIONS REPORTING GROUP 23988. 3 STATIONS OBSERVING AND NOT REPORTING.																			
988 HALE	29	2110	2154	2119	N19	E65	.910	10174	4.8	44	-N	2	C	2119	.15				K 4
988 HALE	29	2110	2154	2136	N19	E65	.910	10174	4.8	44	*-N	2	C	2136	.15				4
989 HALE	29	2229	2352	2235	N22	E40	.687	10176	2.9	83	-F	2	C	2235	.41	.60			H 4
990 HALE	29	2242	2252	2246	N08	W49	.755	10163	26.3	10	-F	2	C	2246	.15	.20			4
991 MANI	29	2325	2340	2328	N09	W55	.820	10163	25.9	15	-F	1		2328	.21	.33			5
GRP23994	29	2348	2359	2350	N19	E66	.917	10174	4.9	11	-F				.42				2 2 2 5
HALE	29	2348	0000D	2350	N20	E67	.924	10174	5.0	12D	-N	1	P	2350	.31				W
MANI	29	2348	2358	2350	N17	E65	.909	10174	4.9	10	-F	2		2350	.52	1.05			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE 1969 JUNE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %		
995 HALE	30	0039	0104	0044	N23	E39	.680	10176	3.0	25	-N	2	C	0044	.36	.50				4
997 HALE	30	0225	0235	0226	S11	E89	1.000	10181	6.8	10	-B	1	C	0226	.31					4
000 HALE	30	0304	0320	0308	N08	W57	.838	10163	25.9	16	-B	1	C	0308	.26	.50			F	4
004 ABST	30	0449	0638	0528	N16	W24	.455	10185	28.4	109	1F		C	0528	2.26	2.50		55	EK	5
005 ABST	30	0451	0510	0454	N07	E67	.919	10174	5.2	19	-F		C	0454	.90	1.98		52	D	6
006 ABST	30	0644	0720	0658	N16	E61	.878	10174	4.9	36	-F		C	0658	.90	1.80		50	D	8
010 CANR	30	1435	1449	1439	S13	E85	.997	10181	7.0	14	-N		C		.40	1.30			H	8
011 BOUL	30	1526	1537	1528	N07	W60	.865	10163	26.1	11	-N		V							7
012 HALE	30	1629	1636	1631	S12	E83	.994	10181	6.9	7	-B	2	C	1631	.31					5
013 HALE	30	1637	1642	1639	N07	E55	.819	10174	4.8	5	-B	3	C	1639	.15	.30				5
018 BOUL	30	1827	1855	1831	S21	W75	.975	10155	25.1	28	1B	8	V							5
019 BOUL	30	1939	1951D	1944	S12	E78	.981	10181	6.7	12D	-F		V							3
020 BOUL	30	1952	2005D	1955	S23	W80	.990	10182	24.8	13D	-F		V							3
022 BOUL	30	2140	2154D	2144	N16	W33	.575	10185	28.4	14D	-F		V							4
024 MCMA	30	2254E	2257D		S20	W88	1.000	10182	24.4	3D	-F		P	2256						5
025 BOUL	30	2314E	2339	2319	S21	W50	.813	10160	27.2	25D	-N		V							4

"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.

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.