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Jun 73

SOLAR FLARES Confirmed

JUNE 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS			
	DATE JUN	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %				
					LAT.	MER. DIST.																
	01	2125	2141	NO FLARE	PATROL																	
GRP48789	02	0840	0857	0847	N19	W82	.992	12364	27.2	17	-N				.52				4 4 4 6			
ATHN	02	0840	0856	0846	N21	W83	.994	12364	27.1	16	-N	3	C		.50				DE			
ARCE	02	0840E	08500		N18	W80	.987	12364	27.4	100	-N		C	0845	.29							
TEHR	02	0841	0858	0847	N16	W84	.995	12364	27.1	17	-N	2	C		.28				DE			
CAPS	02	0842E	08520		N20	W79	.984	12364	27.4	100	-F		V	0847	1.00			(156)				
GRP48789	02	1255	1305	1258	N18	W81	.989	12364	27.5	10	-N				.46				5 5 5 7			
ATHN	02	1254E	1304	1256	N16	W84	.995	12364	27.2	100	-N	3	V		.50				DE			
ATHN	02	1254	1303	1257	N22	W63	.994	12364	27.3	9	-N	3	C		.17				DE			
RAMY	02	1255	1304	1259	N17	W80	.987	12364	27.5	9	-F	4	C		.66				DE			
CATA	02	1255	13050	1300	N21	W77	.978	12364	27.8	100	-F	3	P	1300	.29			(141)				
TEHR	02	1255	1307	1258	N16	W86	.998	12364	27.1	12	-N	2	C		.36				DE			
TEHR	02	1255	1307	1258	N16	W86	.998	12364	27.1	12	-N	2	V		.36				DE			
CAPS	02	1257E	13050		N19	W78	.981	12364	27.7	90	-N	3	S	1258	.30							
	02	2215	2217	NO FLARE	PATROL																	
790 MANI	02	2310E	23150	2310U	N17	W86	.998	12364	27.5	50	-N	1		2310	.31	.90			2			
	03	1905	1924	NO FLARE	PATROL																	
	03	2036	2230	NO FLARE	PATROL																	
GRP48791	04	0841	0858	0846	N14	E65	.913	12375	9.2	17	--N				.20				3 3 3 6			
ARCE	04	0840E	09000		N13	E66	.919	12375	9.3	200	-N		C	0845	.17	.40						
ATHN	04	0842	0855	0844	N13	E64	.905	12375	9.2	14	-N	2	C		.33				DE H			
MONT	04	0842	0857	0847	N16	E66	.921	12375	9.3	15	-N		C	0847	.10				H			
	04	2237	2245	NC FLARE	PATROL																	
	05	1906	1916	NO FLARE	PATROL																	
	06	1929	2018	NO FLARE	PATROL																	
	06	2108	2130	NO FLARE	PATROL																	
795 BOUL	06	2130E	21530	2132U	N16	E85	.997	12379	13.3	230	1F		V	2132		2.40			2			
	06	2153	2155	NO FLARE	PATROL																	
	06	2158	2215	NO FLARE	PATROL																	
796 PALE	06	2253E	2301	2255	N15	E86	.998	12379	13.4	80	--F	2	C		.36				F 3			
GRP48797	07	1116	1131	1120	N15	E80	.986	12379	13.5	15	--F				.33				2 2 2 6			
ATHN	07	1116	1126	1120	N15	E80	.986	12379	13.5	10	-N	3	C		.33				DE			
ARCE	07	1116	1135	1120	N15	E80	.986	12379	13.5	19	-F		C	1120	.32							
GRP48793	07	1235	1249	1237	S19	W32	.598	12366	5.1	14	--F				.65				4 4 4 5			
RAMY	07	1232	1249	1237	S18	W33	.603	12366	5.0	17	-N	3	C		.46				DE			
TEHR	07	1235	1256	1236	S18	W31	.579	12366	5.2	21	-F	3	C		1.00				F H			
MCMA	07	1235	1249	1238	S21	W31	.600	12366	5.2	14	-F		C	1238	.52	.60			EH			
MEUD	07	1237	1243	1238	S18	W33	.603	12366	5.1	6	-F		C	1238	.62	.80			I			
GRP48800	07	1419	1429	1422	N16	E81	.989	12379	13.7	10	-N				.31				3 3 2 6			
ATHN	07	1419	1430	1423	N15	E80	.986	12379	13.6	11	-N	3	C		.33				DE			
BOUL	07	1419	1426	1421	N17	E85	.997	12379	14.0	7	-N		V	1421								
RAMY	07	1420	1430	1422	N16	E78	.980	12379	13.4	10	-N	4	C		.28				DE			
803 HUAN	07	1755	1758	1756	N13	E73	.959	12379	13.2	3	--F	1	C	1756	.21				D 4			
804 PALE	07	2253E	2259	2254U	N16	E86	.998	12385	14.4	60	--F	2	V		.36				3			
805 PALE	07	2257E	2308	2300U	N14	E16	.360	12375	9.2	110	--F	2	C		.45				F 3			
GRP48808	08	1843	1856	1846	S13	E62	.890	12380	13.4	13	--F				.29				3 3 2 3			
BOUL	08	1840	1858	1840U	S12	E62	.889	12380	13.4	18	-F		V			.60						
MCMA	08	1842	1857	1849	S15	E60	.876	12380	13.3	15	-F		C	1849	.31	.70			E			
HUAN	08	1847	1854	1849	S12	E63	.896	12380	13.5	7	-F	1	C	1849	.26	.55			D			
	08	2109	2110	NO FLARE	PATROL																	
	08	2150	2153	NO FLARE	PATROL																	
	08	2202	2245	NO FLARE	PATROL																	
809 BOUL	08	2310	2316	2314	S14	W72	.954	12366	3.6	6	--F		V			.60			3			

Note: Catania and Capri-S express Maximum Intensities in percent of the local undisturbed chromosphere instead of percent of the local continuum. Parentheses are used to indicate this difference.

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS				
	DATE JUN	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _a	MAX. INT. %					
					LAT.	MER. DIST.																
810 MANI	09	0027	01110	0044	N20	E57	.858	12379	13.3	440	--F	2		0044	.62	1.11			F	2		
811 MANI	09	0246	0318	0306	N14	E03	.243	12375	9.3	32	--N	2		0306	.31	.32				2		
GRP48813	09	1815	1842	1818	N16	E45	.732	12379	13.1	27	-N				.64				6	6	5	6
CANR	09	1809	1833	1818	N18	E43	.717	12379	13.0	24	-B		V			1.10						
CANR	09	1809	1833	1811	N17	E45	.735	12379	13.1	24	-B		V			.30						
BOUL	09	1813	1850	1818	N16	E44	.721	12379	13.1	37	-N		V	1818	1.40	2.00						
HUAN	09	1815	18390		N17	E45	.735	12379	13.1	240	-F	1	P	1816	.36	.53			E			
PALE	09	1816E	1845	1816	N16	E46	.743	12379	13.2	290	-N	3	C		.55				OE			
MCMA	09	1816	1945	1818	N16	E46	.743	12379	13.2	29	-N		C	1818	.52	.80			E			
RAMY	09	1818	18290	1818U	N15	E45	.729	12379	13.1	110	-N	2	C		.37				OE			
GRP48815	09	2243	2255	2245	N12	W11	.276	12375	9.1	12	--F				.19				2	2	1	3
BOUL	09	2241	2255	2245	N12	W10	.265	12375	9.2	14	-N		V									
PALE	09	2245	22490	2245	N12	W11	.276	12375	9.1	40	-F	3	C		.19				F			
	10	0005	0027	NO FLARE PATROL																		
GRP48820	10	1145	1206	1147	N15	E14	.344	12377	11.5	21	--N				.60				5	5	5	8
RAMY	10	1145	1203	1147	N16	E15	.367	12377	11.6	18	-F	4	C		.65				OE			
TEHR	10	1145	1203	1147	N13	E13	.309	12377	11.5	18	-N	3	C		.36				OE			
MCMA	10	1145	1215	1147	N16	E15	.367	12377	11.6	30	-N		C	1147	.52	.50			E			
CATA	10	1146	1202	1146	N15	E16	.367	12377	11.7	16	-N	3	C	1146	.87	.93	(155)					
CAPS	10	1148E	12050		N15	E13	.333	12377	11.5	170	-F	3	V	1150	.60	.60	(155)					
GRP48823	10	2057	2112	2101	N15	E31	.558	12379	13.2	15	--N				.71				3	3	3	3
MCMA	10	2057	2112	2101	N15	E31	.558	12379	13.2	15	-N		C	2101	.52	.60			E			
PALE	10	2058E	21060	2101	N13	E31	.548	12379	13.2	80	-N	3	C		.88				F			
HUAN	10	2100E	21050		N16	E31	.564	12379	13.2	50	-F	1	P	2102	.72	.88			E			
824 PALE	10	2149E	2158	2152	N12	E29	.515	12379	13.1	90	--N	3	C		.45				OE		2	
825 PALE	11	0010	0016	0013	N12	W27	.487	12375	9.0	6	--F	3	C		.36				OE		3	
GRP48828	11	0835	0847	0837	N14	E85	.996	12387	17.7	12	--N				.24				3	3	3	7
ATHN	11	0835E	0853	0837	N13	E86	.998	12387	17.8	180	-N	4	V		.33				OE			
CANR	11	0835	0842	0837	N15	E82	.991	12387	17.5	7	-N		V	0837	.30							
MONT	11	0836	0845	0837	N14	E86	.998	12387	17.8	10	-N		C	0837	.10				D			
829 PALE	12	0202	0225	0202U	N13	W43	.699	12375	8.9	24	--F	3	C		.27				OE		3	
GRP48832	12	0551	0658	0622	N13	E72	.953	12387	17.6	67	1F				2.22				3	2	2	11
ABST	12	0551E	06370	0622	N13	E72	.953	12387	17.6	460	1F		P	0622	1.35			80	FJ			
WEND	12	0612	06580		N13	E72	.953	12387	17.7	460	1N		P		3.09							
ARCE	12	0637E	0655		N13	E70	.942	12387	17.5	180	-N		C	0637	.62							
GRP48838	12	0955	1010	1002	N13	W49	.767	12375	8.7	15	--F				.22				2	2	2	8
MONT	12	0955	1009	1001	N14	W48	.758	12375	8.8	14	-N		C	1001	.10				OE			
ATHN	12	1000E	10100	1002	N12	W49	.765	12375	8.7	100	-F	2	C		.33							
841 PALE	12	1916	19310	1918	N14	W52	.800	12375	8.9	150	--F	2	C		.45				F		2	
842 PALE	12	1948E	19480	1948U	N11	E63	.894	12387	17.6		--N	2	C		.36				OE		3	
GRP48843	12	2211	2239	2212	N11	E60	.870	12387	17.4	28	--F				.45				2	1	1	2
PALE	12	2211E	2239	2212U	N11	E60	.870	12387	17.4	280	-F	2	C		.45				OE			
BOUL	12	2224E	2240	2230U	N14	E61	.881	12387	17.5	160	-F		V	2230		.60						
844 PALE	12	2227E	2233	2227U	N14	W51	.790	12375	9.1	60	--N	2	V		.21						2	
	12	2256	2301	NO FLARE PATROL																		
	12	2305	2311	NO FLARE PATROL																		
GRP48850	13	1244	1303	1245	N12	E54	.816	12387	17.6	19	--N				.37				3	3	3	7
HUAN	13	1243	1301	1245	N13	E55	.827	12387	17.7	18	-N		C	1245	.31	.53						
CATA	13	1245	1300	1245	N11	E54	.815	12387	17.6	15	-B	3	C	1245	.58	1.00	(204)		DH			
MCMA	13	1245E	1308		N12	E53	.806	12387	17.5	230	-N		P	1245	.21	.40						
GRP48855	13	1723	1734	1726	N17	W05	.292	12379	13.3	11	--F				.21				2	2	1	5
BOUL	13	1723	1731	1726	N16	W05	.276	12379	13.3	8	-N		V	1726								
BOUL	13	1723	1731	1731	N16	W05	.276	12379	13.3	8	-N		V	1726								
MCMA	13	1724E	1737		N18	W04	.304	12379	13.4	130	-F		P	1730	.21	.20			D			

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OBSERV- ATORY	OBSERVED UT				LOCATION				DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
GRP48856	13	1757	1841	1806	N12	E50	.775	12387	17.5	44	-N		.77				4 4 2 4
MCMA	13	1756	1848		N12	E50	.775	12387	17.5	52	-N	P 1805	.62	1.00			E
BOUL	13	1756	1848	1806	N13	E50	.777	12387	17.5	52	1N	V 1801		3.20			
BOUL	13	1756	1843	1801	N13	E50	.777	12387	17.5	52	1N	V 1801		3.20			
CANR	13	1758	1828	1803	N13	E49	.767	12387	17.4	30	-N	V		1.30			
PALE	13	1809E	1813D	1809U	N11	E50	.774	12387	17.5	40	-N	2 C	.91				DE
857 MCMA	13	1932	2013D		N17	W63	.899	12375	9.1	410	--F	P 1936	.21	.40			D 1
	13	2030	2142	NO FLARE PATROL													
GRP48860	14	0206	0423	0429	N12	W67	.923	12375	9.1	143	1N		3.30				3 1 1 4
KODA	14	0206E	0429D	0429	N12	W67	.923	12375	9.1	1430	1N	P 0211	3.30	3.29	1.96		D
CRON	14	0320E	0324D	0324	N13	W71	.947	12375	8.8	40	-N	V 0324	.40				
ATHN	14	0340E	0420	0340U	N12	W71	.947	12375	8.8	400	-N	1 V	.50				DE
GRP48862	14	0640	0715	0704	N15	W76	.971	12375	8.6	35	-B		.27				4 2 2 6
CRON	14	0601E	0655	0610	N13	W72	.953	12375	8.9	540	-N	V 0610	.40				
BUCA	14	0640	0720		N15	W75	.967	12375	8.7	40	-B	P 0646	.44				D
MONT	14	0640E	0709	0653	N14	W76	.971	12375	8.6	290	-N	C 0653	.10				D
ABST	14	0711E	0723D	0714	N13	W75	.967	12375	8.7	180	1F	P 0714	1.44				F
GRP48870	14	1017	1024	1020	N12	E41	.671	12387	17.5	7	--N		.50				3 3 3 6
MEUD	14	1016	1022	1019	N12	E40	.659	12387	17.4	6	-F	C 1019	.41	.50			
CAPS	14	1016E	1026D		N12	E43	.696	12387	17.7	100	-B	2 V 1017	.50	.70			(277)
CATA	14	1020	1025	1020	N12	E41	.671	12387	17.5	5	-B	3 C 1020	.58	.78			(224)
GRP48871	14	1615	1647	1631	N15	E44	.715	12387	18.0	32	--N		.54				5 4 3 6
BOUL	14	1613E	1652D	1613E	N16	E43	.707	12387	17.9	390	-B	V 1613					
HUAN	14	1614	1622D		N15	E44	.715	12387	18.0	80	-F	1 P 1620	.36	.50			E
MCMA	14	1614	1701D		N13	E46	.733	12387	18.1	470	-N	P 1616	.26	.40			E
CANR	14	1619	1628	1621	N15	E44	.715	12387	18.0	9	-N	V 1621	1.00	1.30			
PALE	14	1639E	1650	1640U	N13	E44	.710	12387	18.0	110	-N	2 C	.27				
872 PALE	14	1916	1923	1917	N16	W77	.975	12375	9.0	7	--F	3 C	.27				2
GRP48873	14	2028	2113	2041	N14	W81	.988	12375	8.8	45	-F		.27				2 2 1 3
BOUL	14	2026	2110	2031	N13	W80	.985	12375	8.9	44	-N	V 2027		.70			
BOUL	14	2026	2110	2027	N13	W80	.985	12375	8.9	44	-N	V 2027		.70			
PALE	14	2029	2043D	2036	N16	W78	.979	12375	9.0	140	-F	2 C	.27				
BOUL	14	2043	2116	2046U	N11	W87	.999	12375	8.3	33	1N	V 2046		3.20			
874 BOUL	14	2049	2056	2051	N12	E35	.594	12387	17.5	7	--F	V 2056		.30			2
877 PALE	14	2213E	2222	2216U	N16	W78	.979	12375	9.1	90	-N	2 C	.36				4
GRP48878	15	0025	0036	0029	N12	E31	.540	12387	17.3	11	-N		1.06				3 3 3 3
CRON	15	0024	0035	0028	N11	E30	.521	12387	17.3	11	-N	V 0028	.90				
VORO	15	0026	0037	0027	N14	E32	.562	12387	17.4	11	-N	C 0027	1.66	2.00		60	E
PALE	15	0030E	0036	0033	N10	E32	.546	12387	17.4	60	-N	3 V	.62				F
GRP48882	15	0511	0548	0514	S14	W07	.284	12382	14.7	37	-F		.95				4 3 3 7
ABST	15	0511E	0553D	0512	S15	W05	.288	12382	14.8	420	-N	P 0512	1.44	1.50			EG
ATHN	15	0514E	0547	0516	S12	W10	.282	12382	14.5	330	-F	3 V	.66				F
CRON	15	0519E	0538		S14	W05	.272	12382	14.8	190	-F	V	.75				
WEND	15	0530E	0555		S15	W08	.307	12382	14.6	250	1N	V	3.09				
13 STATIONS REPORTING GROUP 48885.					0 STATIONS OBSERVING AND NOT REPORTING.												
GRP48885	15	1405	1455	1413	N17	W32	.578	12379	13.2	50	1B		4.33				11 10 10 12
RAMY	15	1401	1457	1414	N15	W32	.567	12379	13.2	56	1B	4 C	3.90				FDE
ATHN	15	1402E	1412D	1412D	N15	W34	.593	12379	13.0	100	1B	3 V	3.96				UF
MCMA	15	1404	1509		N18	W32	.584	12379	13.2	65	1B	P 1413	1.80	2.20			FL
HUAN	15	1404	1453	1411	N17	W31	.566	12379	13.3	49	1B	2 C 1411	3.20	4.00			
CATA	15	1405	1430D	1415	N18	W32	.584	12379	13.2	250	2B	3 P 1415	5.21	6.42			(339)
CANR	15	1407	1455	1410	N19	W32	.590	12379	13.2	48	2B	V 1412	6.00	6.00			
MEUD	15	1407	1445	1412	N18	W31	.572	12379	13.3	38	2N	C 1412	4.64	5.50			F
ZURI	15	1408	1445	1414	N17	W33	.591	12379	13.1	38	2N	C 1414	5.67	7.20			
TEHR	15	1408E	1456	1415	N15	W36	.618	12379	12.9	480	1B	4 V	3.96				F U
TEHR	15	1408E	1456	1408U	N15	W36	.618	12379	12.9	480	1B	3 V	3.96				F U
CAPS	15	1410E	1458D		N15	W27	.502	12379	13.6	480	2B	3 P 1415	5.00	5.50			(300)
CAPF	15	1442E	1509		N19	W35	.626	12379	13.0	270	1N	P 1447	3.09	3.75			C
48885	15	1406	1445	1425	N16	W34	.598	12379	13.0	39	*-B		1.55				2 2 1 11
BOUL	15	1406E	1429D		N15	W34	.593	12379	13.0	230	1N	V					
HERS	15	1425E	1445D	1425E	N17	W33	.591	12379	13.1	200	-B	P 1425	1.55	1.90	.15		BE

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY	MIN.	COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP48888	15	2200	2232	2205	S15	W15	.372	12382	14.8	32	-B			.87				4 4 3 5
BOUL	15	2200	2250	2205	S15	W16	.383	12382	14.7	50	-N	V						
VORO	15	2200	2222	2204	S15	W14	.361	12382	14.9	22	-B	C	2204	1.29	1.37		65	EGH
PALE	15	2201	2225	2206U	S14	W15	.360	12382	14.8	24	-N	3 C		.81				U
MCMA	15	2205E	2209D		S14	W16	.372	12382	14.7	40	-B	P	2206	.52	.60			EL
GRP48889	15	2230	2251	2234	N18	W37	.644	12379	13.2	21	--F			.34				3 3 2 5
BOUL	15	2230E	2252	2234	N17	W37	.640	12379	13.2	220	-F	V						
PALE	15	2233E	2250	2233U	N21	W36	.648	12379	13.2	170	-F	3 C		.27				F
MANI	15	2235E	2250D		N17	W37	.640	12379	13.2	150	-N	1	2235	.41	.54			F
GRP48891	16	0041	0101	0043	N14	E26	.481	12387	18.0	20	--N			.45				3 3 3 4
BOUL	16	0040	0107	0044	N15	E22	.435	12387	17.7	27	-N	V		.50	.50			
CRON	16	0041E	0050	0043	N13	E28	.503	12387	18.1	90	-N	V	0043	.40				
PALE	16	0042	0106	0042	N13	E27	.489	12387	18.1	24	-N	3 C		.45				
PALE	16	0046	0052	0048	N13	E27	.489	12387	18.1	6	-F	2 V		.52				
GRP48893	16	0859	0939	0901	N17	W90	1.000	12375	9.6	40	-N			.35				5 5 4 9
MONT	16	0856	0945	0902	N18	W90	1.000	12375	9.6	49	-N	C	0902	.21				0
MEUD	16	0856	0942	0901	N19	W90	1.000	12375	9.6	46	-N	C	0901	.41				
CANR	16	0858	0915	0900	N15	W90	1.000	12375	9.6	17	-B	V						
CATA	16	0900	0945	0900	N18	W90	1.000	12375	9.6	45	1F	3 C	0900	.58			(129)	
UPIC	16	0903	0947		N17	W90	1.000	12375	9.6	44	-N	P	0904	.21				
GRP48894	16	1419	1513	1427	N13	E11	.278	12387	17.4	54	2B			7.23				9 9 9 9
RAMY	16	1403	1519	1425	N13	E11	.278	12387	17.4	76	2B	3 C		10.30				DE
RAMY	16	1403	1519	1407	N13	E11	.278	12387	17.4	76	-N	3 C		.28				DE
TEHR	16	1417	1508	1425	N10	E10	.231	12387	17.3	51	1B	3 C		4.85				U H
ATHN	16	1418	1512	1427	N13	E12	.289	12387	17.5	54	2B	3 C		7.26				U F
MEUD	16	1420	1500	1425	N14	E10	.280	12387	17.3	40	2N	C	1425	5.67	5.70			F
HUAN	16	1420	1504	1425	N12	E12	.278	12387	17.5	44	1B	2 C	1425	3.92	4.07			U
BOUL	16	1420	1520	1426	N13	E11	.278	12387	17.4	60	2N	V	1426	9.20	9.20			
WEND	16	1420	1533	1438	N11	E13	.280	12387	17.6	73	2N	P		12.38				
CANR	16	1421	1455	1425	N13	E10	.267	12387	17.3	34	2B	V	1427	6.50	7.20			
CAPS	16	1426E	1530D		N15	E12	.313	12387	17.5	640	2B	3 P	1432	5.00	5.30		(330)	U
GRP48895	16	1424	1443	1425	N04	E04	.086	12389	16.9	19	--F			.46				4 4 4 9
BOUL	16	1423	1447	1424	N04	E03	.072	12389	16.8	24	-F	V	1424	.80	.80			
TEHR	16	1423	1450	1426	N03	E03	.062	12389	16.8	27	-N	3 C		.36				DE
HUAN	16	1424	1443	1425	N05	E04	.097	12389	16.9	19	-F	1 C	1425	.26	.26			
MEUD	16	1424	1430	1425	N05	E04	.097	12389	16.9	6	-F	C	1425	.41	.40			
GRP48896	16	1536	1619	1541	N14	E11	.290	12387	17.5	43	-N			2.10				8 8 8 10
MCMA	16	1516E	1638D		N15	E10	.293	12387	17.4	820	-N	P	1546	1.55	1.50			BF
BOUL	16	1524	1531	1526	N12	E10	.254	12387	17.4	7	-F	V	1526	.80	.80			
RAMY	16	1534	1618	1540	N15	E12	.313	12387	17.5	44	1N	4 C		2.32				F
WEND	16	1534	1646D	1543	N13	E12	.289	12387	17.5	720	1F	P		5.16				
HUAN	16	1535	1627	1539	N14	E12	.301	12387	17.5	52	-N	1 C	1539	1.44	1.51			
ATHN	16	1537	1616	1543	N14	E11	.290	12387	17.5	39	1N	3 C		2.31				F
CAPS	16	1538E	1600D		N16	E11	.316	12387	17.5	220	-B	3 S	1540	1.80	1.90		(230)	C
BOUL	16	1538	1613	1542	N15	E08	.275	12387	17.3	35	-N	V	1542	1.00	1.00			
CANR	16	1539	1551	1541	N14	E10	.280	12387	17.4	12	-B	V	1542	1.20	1.50			
GRP48897	16	1811	1828	1815	N14	E13	.312	12387	17.7	17	--F			.50				4 4 3 7
BOUL	16	1810	1821	1812	N14	E12	.301	12387	17.7	11	-F	V	1812	.50	.50			
HUAN	16	1810	1829	1818	N13	E13	.301	12387	17.7	19	-N	2 C	1818	.62	.64			
MEUD	16	1812	1828	1816	N14	E13	.312	12387	17.7	16	-F	C						
RAMY	16	1814E	1833	1815U	N14	E12	.301	12387	17.7	190	-F	4 V		.37				DE H
GRP48898	16	1858	1924	1905	N14	E12	.301	12387	17.7	26	--N			.39				4 4 2 6
MCMA	16	1854E	1907D		N15	E10	.293	12387	17.5	130	-N	V						OH
RAMY	16	1857	1917	1901	N14	E12	.301	12387	17.7	20	-F	3 V		.37				DE H
HUAN	16	1857	1918	1906	N13	E13	.301	12387	17.8	21	-N	2 C	1906	.41	.43			H
BOUL	16	1905	1936	1908	N13	E11	.278	12387	17.6	31	-N	V	1908					
	16	1943	1947		NO FLARE PATROL													
GRP48899	16	1947	2005	1952	N11	E10	.242	12387	17.6	18	--F			.48				2 2 2 2
HUAN	16	1947E	1950		N10	E11	.243	12387	17.6	30	-N	1 P	1947	.46	.48			C
BOUL	16	1950E	2020	1952	N12	E09	.243	12387	17.5	300	-F	V		.50	.50			
GRP48900	16	2014	2024	2017	S15	W27	.518	12382	14.8	10	--F			.60				2 2 1 3
HUAN	16	2013	2023	2015	S15	W26	.505	12382	14.9	10	-F	1 C						
BOUL	16	2014	2024	2019	S15	W28	.531	12382	14.7	10	-F	V		.60	.70			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _a	MAX. INT. %	
					LAT.	MER. DIST.												
GRP48901 HUAN BOUL BOUL HUAN	16	2019	2108	2024	N13	E11	.278	12387	17.7	49	--N			.53				2 2 2 3
	16	2016	2037	2024	N13	E12	.289	12387	17.7	21	-N	2	C	2024	.26	.27		
	16	2021	2114	2024	N12	E10	.254	12387	17.6	53	-N		V		.80	.80		
	16	2021	2114	2029	N12	E10	.254	12387	17.6	53	-N		V		.80	.80		
	16	2055	2102	2059	N13	E12	.289	12387	17.8	7	-F	1	C	2059	.26	.27		D
GRP48902 HUAN BOUL	16	2122	2152	2128	N13	E11	.278	12387	17.7	30	--F			.43				2 2 2 2
	16	2118	2125		N13	E12	.289	12387	17.8	80	-F	1	P	2126	.36	.37		
	16	2125	2152	2128	N13	E09	.256	12387	17.6	27	-N		V		.50	.50		
GRP48910 TEHR MANI BUCA CAPS CANR CRON CATA ISTA ATHN TEHR	17	0812	0833	0615	S15	W33	.594	12382	14.9	21	--N			.74				9 9 8 11
	17	0809	0834	0812	S13	W32	.571	12382	14.9	25	-N	3	C		.50			F
	17	0810	0831	0813	S13	W33	.583	12382	14.9	21	-N	2		0813	.93	1.13		
	17	0810	0832		S15	W35	.619	12382	14.7	22	-F		C	0812	.55	.70		
	17	0810	0840		S13	W33	.583	12382	14.9	300	-B	3	V	0813	.60	.70	(250)	C
	17	0813	0830	0816	S17	W32	.594	12382	14.9	17	-N		V		1.20			
	17	0813	0829	0816	S15	W34	.607	12382	14.8	16	-N		V	0816	.60			
	17	0815	0835	0815	S14	W34	.601	12382	14.8	20	-N	3	C	0815	.87	1.08	(182)	
	17	0815	0830		S15	W28	.531	12382	15.2	15	-F							E
	17	0819	0823	0819	S16	W35	.624	12382	14.7	40	-N	2	C		.66			DE
	17	0820	0834	0821	S14	W30	.550	12382	15.1	140	-N	3	V		.50			F U
	GRP48911 TEHR ATHN MEUD	17	1126	1131	1126	S18	W31	.589	12382	15.2	5	--F			.25			
17		1125	1130	1126	S18	W30	.577	12382	15.2	5	-N	3	C		.12			
17		1126	1131	1126	S18	W32	.600	12382	15.1	50	-F	2	C		.33			DE
17		1126	1131	1127	S17	W31	.582	12382	15.2	5	-F		C	1127	.31	.40		D
17		2100	2127		NO FLARE PATROL													
17		2138	2155		NO FLARE PATROL													
GRP48912 MANI MANI TEHR ATHN CRON	18	0453	0510	0456	N13	W10	.264	12387	17.5	17	-N			.99				4 4 4 7
	18	0449	0523	0456	N13	W10	.264	12387	17.5	34	-N	2		0456	1.03	1.07		UE
	18	0452	0523	0500	N16	W12	.323	12387	17.3	31	-N	2		0500	.31	.32		
	18	0453	0509	0456	N12	W10	.251	12387	17.5	16	-N	3	C		.63			F
	18	0454	0507	0456	N12	W10	.251	12387	17.5	130	-N	2	V		.99			F
	18	0454	0459		N14	W09	.267	12387	17.5	50	-N		V		1.30			
GRP48913 UPIC TEHR RAMY CAPS TEHR	18	1104	1113	1107	N13	W12	.286	12387	17.6	9	--F			.40				4 4 4 6
	18	1102	1106		N14	W14	.321	12387	17.4	4	-F		P	1103	.63			
	18	1102	1115	1107	N12	W12	.275	12387	17.6	13	-N	3	C		.19			F
	18	1105	1117	1107	N14	W11	.287	12387	17.6	12	-F	3	V		.37			DE
	18	1105	1115		N13	W12	.286	12387	17.6	100	-N	1	V	1107	.30	.30	(176)	
	18	1105	1120	1107	N12	W10	.251	12387	17.7	150	-N	3	V		.31			F
GRP48915 HUAN BOUL PALE	18	1723	1727	1724	S06	E71	.947	12397	24.0	4	--F			.24				3 3 2 7
	18	1723	1728	1725	S06	E72	.952	12397	24.1	5	-F	1	C	1725	.21			DT
	18	1723	1728	1723	S05	E70	.941	12397	24.0	5	-F		V	1723		.70		
	18	1723	1726	1724	S08	E72	.953	12397	24.1	3	-F	3	C		.27			
GRP48919 PALE HUAN CANR MCMA	18	1813	1829	1815	N12	W15	.314	12387	17.6	16	--N			.53				4 4 3 5
	18	1811	1833	1814	N13	W15	.324	12387	17.6	22	-N	3	C		.63			F
	18	1814	1824	1816	N12	W14	.301	12387	17.7	10	-F	2	C	1816	.15	.16		O
	18	1815	1823	1815	N12	W16	.327	12387	17.6	80	-N		V	1815	.80	.90		
	18	1815	1836		N12	W15	.314	12387	17.6	210	-N		V					
920 HUAN	18	1925	1947		S05	E90	1.000	12398	25.6	22	--F	1	C	1939	.21			D 4
921 HUAN	18	2107	2121		S05	E88	.999	12398	25.5	14	--F	1	C	2110	.26			D 1
	18	2140	2146		NO FLARE PATROL													
	18	2153	2155		NO FLARE PATROL													
	18	2241	2249		NO FLARE PATROL													
	18	2250	2314		NO FLARE PATROL													
GRP48927 MEUD ZURI	19	1156	1214	1157	S10	E61	.881	12397	24.1	18	--F			.89				2 2 2 7
	19	1155	1220	1157	S10	E60	.873	12397	24.0	25	-F		C	1157	.72	1.50		H
	19	1156	1208	1156	S10	E61	.881	12397	24.1	12	-N		C	1156	1.05	2.10		
GRP48931 CANR HUAN	19	1806	1819	1810	S03	E73	.957	12398	25.2	13	--F			.36				2 2 2 6
	19	1806	1825	1811	S03	E72	.952	12398	25.2	19	-F		V		.40			
	19	1806	1813	1808	S02	E73	.957	12398	25.2	7	-F	1	C	1808	.31			D

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE JUN	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA TH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
					LAT.	MER. DIST.													
GRP48932 PALE HUAN RAMY	19	1823	1851	1830	S03	E73	.957	12398	25.2	28	--N				.32				3 3 3 5
	19	1819	1855	1828U	S04	E73	.957	12398	25.2	36	--N	2	C		.36				F
	19	1826	1903	1831	S02	E73	.957	12398	25.2	37	--N	1	C	1831	.31				D
	19	1830E	1834	1830U	S02	E72	.951	12398	25.2	40	--F	3	V		.28				DE
	19	1923	1947	NO FLARE PATROL															
	19	2043	2054	NO FLARE PATROL															
	19	2122	2129	NO FLARE PATROL															
	19	2133	2214	NO FLARE PATROL															
	19	2220	2233	NO FLARE PATROL															
	19	2238	2312	NO FLARE PATROL															
5 STATIONS REPORTING GROUP 48939. 4 STATIONS OBSERVING AND NOT REPORTING.																			
GRP48939 ABST MONT TEHR	20	0749	0819	0759	S02	E65	.907	12398	25.2	30	--N				.39				3 3 3 10
	20	0747	0807D	0758	S01	E66	.914	12398	25.3	200	--F		P	0758	.81	1.80			D
	20	0750	0811	0758	S02	E66	.914	12398	25.3	21	--N		C	0758	.10				DH
	20	0759E	0825	0802	S02	E64	.899	12398	25.1	270	--N	4	V		.25				DE
48939 WEND ATHN	20	0815	0830	0820	S04	E67	.922	12398	25.4	15	*--F				.33				2 2 1 7
	20	0815	0820		S05	E64	.901	12398	25.1	5	--F								
	20	0819E	0839	0820	S03	E69	.934	12398	25.5	200	--N	4	V		.33				DE
GRP48942 MONT CATA UPIG	20	1029	1100	1035	S02	E63	.892	12398	25.2	31	--N				.72				3 3 3 8
	20	1028	1111	1034	S02	E65	.907	12398	25.3	43	--N		C	1034	.52				D
	20	1030	1045	1035	S03	E62	.884	12398	25.1	15	--N	3	C	1035	.58	1.24			(162)
	20	1033E	1105U		S02	E63	.892	12398	25.2	320	--N	1N	P	1033	1.05				K
GRP48944 PALE BOUL	20	1745	1755	1748	S03	E61	.876	12398	25.3	10	--B				.31				2 2 1 5
	20	1745E	1755	1745U	S05	E61	.877	12398	25.3	100	--N	4	V		.31				
	20	1746E	1750D	1750	S01	E60	.866	12398	25.2	40	--B		V	1750		.50			
GRP48945 RAMY PALE BOUL	20	1813	1834	1816	S03	E58	.850	12398	25.1	21	--F				.24				3 3 2 4
	20	1811	1839D	1815	S02	E55	.820	12398	24.9	280	--F	2	C		.28				DE
	20	1814	1829	1816	S06	E59	.861	12398	25.2	15	--F	3	C		.19				
	20	1814	1819D		S01	E59	.858	12398	25.2	40	--N		V	1818		.80			
GRP48946 RAMY PALE	20	1922	1929	1922	N14	W46	.733	12387	17.4	7	--N				.28				2 2 2 3
	20	1922	1929	1922	N14	W46	.733	12387	17.4	7	--N	2	C		.28				DE
	20	1922	1929	1922	N14	W46	.733	12387	17.4	7	--N	0	C		.28				DE
GRP48947 RAMY PALE	20	1950	2001	1952	N13	W46	.731	12387	17.4	11	--F				.31				2 2 2 3
	20	1950E	2000	1952U	N14	W45	.721	12387	17.5	100	--N	2	V		.31				DE
	20	1952E	2001	1952U	N11	W46	.727	12387	17.4	90	--F	3	V		.31				
	20	2209	2312	NO FLARE PATROL															
950 PALE	21	0226E	0227D		S18	E73	.963	12402	26.6	10	--N	2	C						4
GRP48952 TEHR ATHN	21	1206	1216	1212	S06	E48	.749	12398	25.1	10	--N				.37				2 2 2 6
	21	1206	1216	1212	S06	E49	.761	12398	25.2	10	--N	4	C		.41				DE
	21	1211E	1216	1211U	S06	E47	.738	12398	25.0	50	--N	3	C		.33				DE
GRP48953 ATHN RAMY HUAN	21	1420	1428	1421	S13	E60	.877	12402	26.1	8	--F				.27				3 3 3 7
	21	1419	1428	1421	S14	E60	.879	12402	26.1	9	--N	3	C		.33				DE
	21	1420	1430	1422	S12	E60	.876	12402	26.1	10	--F	3	C		.28				DE
	21	1420	1425	1421	S12	E61	.884	12402	26.2	5	--F	1	C	1421	.21	.45			D
GRP48954 HUAN ATHN MCMA	21	1543	1602	1546	S07	E33	.560	12397	24.1	19	--N				.43				3 3 2 7
	21	1541	1559	1546	S05	E34	.568	12397	24.2	18	--F	1	C	1546	.36	.44			E
	21	1544	1601	1546	S07	E30	.518	12397	23.9	17	--N	2	V		.50				F
	21	1550E	1607D		S08	E34	.577	12397	24.2	170	--N		V						
GRP48955 TEHR RAMY MCMA	21	1546	1602	1548	S12	E58	.859	12402	26.0	16	--N				.46				3 3 2 8
	21	1546	1559	1548	S12	E55	.832	12402	25.8	13	--N	3	C		.46				DE H
	21	1546	1559	1548	S12	E55	.832	12402	25.8	13	--N	3	C		.46				DE H
	21	1550E	1607D		S13	E64	.907	12402	26.5	170	--N		V						
GRP48958 PALE MCMA PALE RAMY	21	1851	1921	1858	S13	E63	.900	12402	26.5	30	--N				.60				3 3 3 3
	21	1849	1915	1857	S16	E64	.911	12402	26.6	26	--N	3	C		.55				DE
	21	1850	1925		S13	E64	.907	12402	26.6	35	--N		P	1900	.52	1.40			E
	21	1850E	1910	1856	S15	E65	.916	12402	26.7	200	--N	3	V		.52				DE
	21	1853	1922	1859	S11	E60	.875	12402	26.3	29	--N	3	C		.74				DE

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMAH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP48959	21	1959	2019	2004	S08	E31	.536	12397	24.2	20	--N			.52				3 3 2 3
PALE	21	1959	2012	2002	S08	E30	.522	12397	24.1	13	-N	3	V	.52				DE
MCMA	21	1959	20260		S08	E34	.577	12397	24.4	270	-N		V					
KAMY	21	2000E	2020	2005U	S07	E30	.518	12397	24.1	200	-F	3	V	.52				DE
960 MANI	21	2348E	2353	2348U	S12	E54	.823	12402	26.0	50	--F	2		2348	.62	1.05		1
	22	0049	0057															
	22	0100	0127															
	22	0152	0158															
GRP48961	22	0208	0218	0212	S06	E42	.678	12398	25.2	10	--F			.24				2 2 2 4
MANI	22	0208	02120	0210	S06	E42	.678	12398	25.2	40	-N	2		.31	.42			E
TEHR	22	0209E	0218	0214	S05	E41	.663	12398	25.2	90	-F	2	V	.17				F
GRP48964	22	0711	0721	0714	S13	E47	.754	12402	25.8	10	--N			.38				3 3 3 5
CATA	22	0710	0720	0715	S13	E50	.786	12402	26.0	10	-N	3	C	.40	.65			(178) F U
TEHR	22	0711	0721	0714	S13	E46	.743	12402	25.7	10	-F	4	V	.33				H
MANI	22	0711	0721	0714	S13	E46	.743	12402	25.7	10	-N	1		.41	.61			
GRP48968	22	1031	1047	1034	S05	E22	.391	12397	24.1	16	--N			.64				3 3 3 6
TEHR	22	1028	1045	1031	S03	E22	.383	12397	24.1	17	-N		C	.35				
CANR	22	1032	10400	1036	S06	E21	.381	12397	24.0	80	-N		V	.90	1.00			F
ATHN	22	1032E	1049	1034	S07	E24	.431	12397	24.2	170	-N	3	V	.66				
GRP48968	22	1230	1244	1233	S07	E19	.357	12397	23.9	14	--F			.40				3 3 3 6
BOUL	22	1230E	1244	1233U	S08	E20	.378	12397	24.0	140	-F		V	.50	.50			DE
KAMY	22	1230	1243	1233	S07	E18	.342	12397	23.9	13	-F	4	C	.28				E
MCMA	22	1233E	12330		S07	E18	.342	12397	23.9		-N		P	.41	.40			
GRP48971	22	1447	1507	1451	S12	W32	.569	12390	20.2	20	--F			.57				4 4 4 7
KAMY	22	1446	1458	1447	S12	W33	.582	12390	20.1	12	-F	3	C	.46				DE
CANR	22	1447	1510	1450	S12	W30	.542	12390	20.4	23	-F		V	1.10				
MCMA	22	1448E	1510		S10	W30	.532	12390	20.4	220	-F		P	.31	.40			E
BOUL	22	1457E	1510	1457E	S15	W34	.610	12390	20.1	130	-F		V	.40	.50			
GRP48973	22	1859	1910	1902	S11	E16	.349	12397	24.0	11	--F			.56				2 2 2 4
PALE	22	1858	1905	1902	S13	E14	.347	12397	23.8	7	-F	3	V	.62				F
BOUL	22	1859	1914	1902	S09	E18	.358	12397	24.1	15	-F		V	.50	.50			
GRP48974	22	2010	2033	2019	S12	W34	.595	12390	20.3	23	--F			.36				2 2 2 3
BOUL	22	2010	2030	2019	S13	W33	.587	12390	20.4	20	-F		V	.50	.60			D
MCMA	22	2015E	20360		S10	W35	.599	12390	20.2	210	-F		P	.21	.30			
	22	2107	2200															
	23	0136	0207															
	23	0212	0231															
GRP48975	23	0407	0420	0409	S09	E09	.244	12397	23.8	13	--F			.37				4 4 4 6
TEHR	23	0404	0430	0407	S05	E10	.211	12397	23.9	26	-N	3	C	.28				DE
ATHN	23	0407E	0415	0409	S10	E07	.239	12397	23.7	80	-F	1	V	.33				DE
PALE	23	0407E	04140	0408U	S10	E07	.239	12397	23.7	70	-F	2	V	.36				DE
TEHR	23	0407E	0424	0411	S07	E10	.232	12397	23.9	170	-F	3	V	.25				DE
MANI	23	0408	0421	0410	S08	E11	.256	12397	24.0	13	-N	2		.52	.54			FS
GRP48979	23	1045	1055	1046	S07	E09	.219	12397	24.1	10	--N			.64				5 5 5 6
TEHR	23	1042	1053	1043	S06	E08	.195	12397	24.0	11	-N	3	C	.28				F
CATA	23	1045	10450	1045	S07	E08	.208	12397	24.0		-N	3	P	.58	.59			(182)
CANR	23	1045	1053	1048	S06	E07	.184	12397	24.0	8	-F		V	1.00	1.00			(196)
CAPS	23	1046	10570		S07	E12	.258	12397	24.3	110	-N	2	V	.70	.70			F
ATHN	23	1046E	1058	1046U	S07	E10	.232	12397	24.2	120	-N	3	V	.66				
981 PALE	23	1701E	1704	1702U	S07	E03	.164	12397	23.9	30	--F	3	V	.31				F 2
983 PALE	23	2035E	2047	2037	S02	E13	.235	12398	24.8	120	--N	3	C	.45				DE 1
GRP48984	23	2336	2358	2342	S08	E02	.176	12397	24.1	22	-N			1.11				2 2 2 3
MANI	23	2335E	23560	2341	S08	E01	.173	12397	24.1	210	-N	2		.62	.63			F
BOUL	23	2336	2358	2342	S08	E02	.176	12397	24.1	22	-N		V	1.60	1.60			
985 BOUL	24	0048	0102	0053	S07	E01	.158	12397	24.1	14	--N		V	.50	.50			2

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %		
6 STATIONS REPORTING GROUP 48987. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48987	24	0225	0311	0257	S08	W01	.176 12397	24.0	46	-N				1.40				3 3 3 7
KODA	24	0225E	0306	0259	S08	W01	.176 12397	24.0	410	-B		P	0230	1.93	1.93	2.12		E
MANI	24	0253E	0315	0257	S08	E00	.175 12397	24.1	220	-N	2		0257	1.03	1.04			F
PALE	24	0255E	02560	0255U	S08	W01	.176 12397	24.0	10	-N	2	V		1.24				F
48987																		
TEHR	24	0216	0303	0223	S07	W01	.158 12397	24.0	47	*-N				.77				4 3 3 4
CRON	24	0214E	03110	0223	S06	W02	.144 12397	23.9	570	-N		C		.50				
MITK	24	0218	0254		S07	W02	.161 12397	23.9	36	-F		V		1.10				
MANI	24	0218	0259	0235	S08	E02	.178 12397	24.2	41	-F		C	0235	1.86	1.90			E
	24	0222E	02320	0222U	S08	E00	.175 12397	24.1	100	-N	2		0222	.72	.73			F
GRP48988																		
MANI	24	0512	0525	0516	S12	W52	.804 12390	20.3	13	--F				.32				2 2 2 5
	24	0510	0530	0515	S12	W52	.804 12390	20.3	20	-F	2		0515	.31	.52			
ATHN	24	0514	0520	0517	S12	W52	.804 12390	20.3	6	-N	4	C		.33				DE
8 STATIONS REPORTING GROUP 48989. 3 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48989	24	0645	0746	0714	S08	W02	.178 12397	24.1	61	-N				1.02				5 5 4 11
ATHN	24	0635E	0736	0714	S07	W04	.172 12397	24.0	610	-N	3	V		1.16				F
BUCA	24	0655	0751		S08	W02	.178 12397	24.1	56	-F		C	0705	1.10	1.10			
ISTA	24	0700E	0750		S08	W03	.182 12397	24.1	500	-N								B
CAPS	24	0702E	07050		S08	W01	.176 12397	24.2	30	-N	1	S	0703	1.20	1.20		(189)	
CANR	24	0716E	07170		S08	W02	.178 12397	24.2	10	-F		V	0717	.60	.60			
48989																		
ATHN	24	0650	0741	0655	S08	W04	.188 12397	24.0	51	*-N				1.38				4 4 4 8
MANI	24	0635E	0736	0655	S07	W04	.172 12397	24.0	610	-N	3	V		.99				F
ABST	24	0647	0725	0656	S08	W04	.188 12397	24.0	38	-N	2		0656	.83	.84			F
CATA	24	0650	0751	0653	S09	W04	.204 12397	24.0	61	1F		C	0653	2.24	2.20			F
ATHN	24	0650	0750	0655	S09	W03	.199 12397	24.1	60	-B	3	C	0655	1.44	1.47		(204)	
	24	0651	0728	0656	S08	W04	.188 12397	24.0	37	-F	4	C		.99				F
24 2145 2237 NO FLARE PATROL																		
GRP48991																		
MONT	25	0755	0820	0801	S05	W17	.316 12397	24.1	25	--N				.47				7 7 6 13
CANR	25	0753	0818	0802	S05	W18	.331 12397	24.0	25	-N		C	0802	.52				E
CATA	25	0755	07570		S06	W18	.338 12397	24.0	20	-F		V	0757	.30	.30			
ISTA	25	0755	0825	0800	S04	W18	.326 12397	24.0	30	-N	3	C	0800	.58	.61		(178)	
MANI	25	0755E	0820		S06	W17	.323 12397	24.1	250	-F								E
ATHN	25	0756	08100	0759	S04	W14	.264 12397	24.3	140	-N	1		0759	.52	.54			F
UPIC	25	0800E	0817	0801	S05	W18	.331 12397	24.0	170	-N	3	V		.66				F
	25	0801E	08010		S06	W17	.323 12397	24.1		-F		P	0801	.21				
GRP48992																		
PALE	25	1748	1820	1749	S07	W22	.403 12397	24.1	32	--N				.83				2 2 1 3
MCMA	25	1748	1754	1749	S07	W24	.433 12397	23.9	6	-N	3	V		.83				U
	25	1749E	18450		S07	W20	.374 12397	24.2	560	-N		V						
993 BOUL																		
	25	1852E	1857	1852E	S07	W24	.433 12397	24.0	50	--N		V		.30	.35			3
25 2148 2154 NO FLARE PATROL																		
25 2156 2210 NO FLARE PATROL																		
GRP48994																		
MANI	26	0038	0110	0046	S09	W27	.488 12397	24.0	32	-N				.61				3 3 3 5
CRON	26	0038	01200	0052	S08	W27	.482 12397	24.0	420	-N	2		0052	.62	.71			F
PALE	26	0040E	0059	0043	S10	W27	.493 12397	24.0	190	-N		V		.45				
	26	0043E	00530	0043U	S09	W27	.488 12397	24.0	100	-N	3	V		.77				DE
48994																		
BOUL	26	0048	0135	0117	S08	W27	.482 12397	24.0	47	*-N				1.98				2 2 2 4
MANI	26	0048E	01260	0112	S09	W29	.515 12397	23.9	380	1N		V		2.40	2.60			
MANI	26	0054E	01350	0121	S06	W24	.428 12397	24.2	410	-N	2		0121	1.55	1.71			F
MANI	26	0054E	01350	0100	S06	W24	.428 12397	24.2	410	-N	2		0100	.21	.23			F
4 STATIONS REPORTING GROUP 48995. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP48995	26	0157	0402	0159	S08	W27	.482 12397	24.1	125	1B				3.35				2 2 2 4
KODA	26	0157E	0402	0200	S08	W26	.468 12397	24.1	1250	1B		P	0205	4.38	4.38	1.92		EK
TEHR	26	0157E	0158	0158U	S08	W28	.496 12397	24.0	10	1N	2	V		2.32				F
48995																		
MANI	26	0135	0300	0142	S09	W28	.501 12397	24.0	85	*-B				1.73				3 2 2 3
CRON	26	0135E	03000	0142	S09	W27	.488 12397	24.0	850	1N	2		0142	1.86	2.12			F
TEHR	26	0136E	0259	0142	S09	W28	.501 12397	24.0	830	-B		V		1.60				
	26	0216E	0259	0218U	S08	W28	.496 12397	24.0	430	-N	1	C		1.09				F
GRP48998																		
TEHR	26	0829	0843	0832	S05	W18	.332 12398	25.0	14	--F				.63				4 4 4 13
TEHR	26	0825	0839	0831	S06	W19	.353 12398	24.9	14	-N	2	C		.36				F
UPIC	26	0827E	0840	0832U	S06	W19	.353 12398	24.9	130	-N	3	V		.33				F
ATHN	26	0828	0836	0830	S04	W17	.311 12398	25.1	8	-F		P	0830	1.05				F
CANR	26	0830	0844	0834	S04	W18	.326 12398	25.0	14	-F	3	C		.50				DE
CANR	26	0830	0850		S04	W15	.280 12398	25.2	20	-F		V	0830	.60	.60			
CANR	26	0844	0900		S08	W22	.410 12398	24.7	16	-B		V		.70	.80			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP48999	26	0840	0927	0645	S08	W33	.566	12397	23.9	47	-N				1.17				4 4 4 13
ATHN	26	0839	0927	0846	S06	W30	.516	12397	24.1	48	-N	3	C		.99				F
TEHR	26	0839	0921	0845	S09	W31	.543	12397	24.0	42	-N	3	C		.64				F
CAPS	26	0840	09030		S07	W29	.506	12397	24.2	230	-B	3	V	0844	.90	1.00			(220) F
TEHR	26	0841	0922	0844	S09	W31	.543	12397	24.0	41	-N	4	V		.99				
CRON	26	0845E	0854		S08	W42	.684	12397	23.2	90	-F				1.80				
48999	26	0906	0930	0910	S09	W31	.543	12397	24.1	24	*-N				.43				3 3 3 10
TEHR	26	0841	0922	0910	S09	W31	.543	12397	24.0	41	-N	4	V		.41				F
ARGE	26	0905E	09310		S09	W33	.570	12397	23.9	260	-N			0915	.39	.50			
CAPS	26	0907	09370		S09	W29	.515	12397	24.2	300	-B	3	V	0911	.50	.60			(212)
GRP49004	26	1517	1533	1523	S09	W34	.584	12397	24.1	16	-N				.82				5 5 4 11
CAPS	26	1514E	15430		S07	W32	.548	12397	24.2	290	-N	3	V	1517	.80	1.00			(167) C
UPIC	26	1515	1523	1521	S08	W35	.593	12397	24.0	14	-N			1521	1.05				F
ZURI	26	1518	1526	1522	S09	W35	.597	12397	24.0	8	-N			1522	.85	1.10			
BOUL	26	1518E	15380	1523	S10	W36	.614	12397	23.9	200	-F			1523					DE
RAMY	26	1520	15290	15250	S11	W33	.579	12397	24.2	90	-F	3	C		.56				
GRP49005	26	1538	1610	1548	S13	W07	.289	12402	26.1	32	-F				1.50				6 6 5 10
BOUL	26	1535E	16100	15480	S12	W09	.290	12402	26.0	350	-F			1548		1.70			
CATA	26	1535	1605	1550	S13	W09	.304	12402	26.0	30	-N	3	C	1550	.58	.60			(162)
RAMY	26	1539E	15460	15440	S12	W09	.290	12402	26.0	70	-F	3	C		.65				DE
WEND	26	1541	1615	1548	S13	W05	.277	12402	26.3	34	1N				5.16				8
CAPS	26	1543E	15580		S13	W02	.266	12402	26.5	150	-N	3	V	1546	.80	.80			(151) C
MCMA	26	1556E	15560		S12	W05	.261	12402	26.3		-F			1556	.31	.30			E
GRP49006	26	1639	1648	1642	S13	W15	.364	12402	25.6	9	-N				.52				4 4 2 9
WEND	26	1636	1648		S13	W14	.353	12402	25.6	12	-B								
UPIC	26	1639	1642	1640	S14	W15	.375	12402	25.6	3	-N			1640	.85				E
BOUL	26	1640	1650	1643	S13	W14	.353	12402	25.6	10	-N			1643		.40			
RAMY	26	1640	1650	1642	S12	W15	.353	12402	25.6	10	-N	3	C		.19				DE
008 PALE	26	1852	1859	1855	S12	W16	.364	12398	25.6	7	--F	3	C		.36				F 3
	26	1921	1957	NO FLARE PATROL															
	26	1959	2053	NO FLARE PATROL															
010 MANI	26	2340	0012	0002	S12	W17	.377	12402	25.7	32	--N	2		0002	.62	.61			FU 2
GRP49011	27	0535	0601	0544	S12	W22	.441	12402	25.6	26	1N				2.10				5 5 5 6
ATHN	27	0530	0602	0538	S14	W20	.434	12402	25.7	32	-N	3	V		.99				F
TEHR	27	0533	0601	0545	S11	W22	.433	12402	25.6	28	-B	4	V		.55				F Z
WEND	27	0536E	0612		S11	W23	.446	12402	25.5	360	1N				4.13				
TACH	27	0537	0549	0545	S11	W24	.460	12402	25.4	12	1F			0545	2.73	3.00	1.72	51	E
UPIC	27	0538	0603	0546	S12	W22	.441	12402	25.6	25	1B			0546	2.10				
	27	2136	2139	NO FLARE PATROL															
013 MANI	28	0008E	0015	00080	S08	W53	.808	12397	24.0	70	--F	2		0008	.31	.51			3
GRP49016	28	0801	0841	0817	S11	W37	.632	12402	25.6	40	--N				.69				6 5 5 11
MONT	28	0756	0848	0822	S11	W36	.619	12402	25.6	52	-N			0822	.21				D
ATHN	28	0757E	0843	0800	S13	W38	.653	12402	25.5	460	-N	4	V		.66				DE
CANR	28	0806	0846	0814	S12	W37	.636	12402	25.6	40	-F				1.20				
ARGE	28	0807E	08400		S11	W37	.632	12402	25.6	330	-N			0817	.46	.60			
MEUD	28	0809E	0830		S10	W37	.628	12402	25.6	210	-N			0811	.41	.50			
CATA	28	0815E	08400	0815	S10	W37	.628	12402	25.6	250	-N	3	P	0815	1.16	1.49			(182)
GRP49017	28	1523	1545	1528	S08	W62	.889	12397	24.0	22	-N				.87				8 8 7 9
BOUL	28	1521	1551	1526	S08	W62	.889	12397	24.0	30	-N			1526		1.68			
RAMY	28	1522	1542	1529	S10	W60	.875	12397	24.1	20	-F	4	C		.46				DE
CAPS	28	1523E	15430		S08	W60	.873	12397	24.1	200	-B	3	V	1526	.50	1.00			(246)
CANR	28	1524	1537	1528	S10	W64	.906	12397	23.8	13	-N			1528	.80	1.40			
HUAN	28	1525	1543	1527	S08	W61	.881	12397	24.1	18	-N	1	C	1527	.31	.63			
MCMA	28	1525E	15550		S07	W63	.896	12397	23.9	300	-N			1525	.26	.60			D
WEND	28	1526E	1544		S07	W62	.888	12397	24.0	180	1N				3.09				
ATHN	28	1530E	1544	1532	S08	W63	.896	12397	23.9	140	-N	4	V		.66				DE
GRP49018	28	1525	1537	1529	S09	E35	.598	12409	1.3	12	--F				.40				4 4 3 9
RAMY	28	1522	1537	1528	S08	E35	.594	12409	1.3	15	-F	4	C		.28				DE
BOUL	28	1525	1539	1527	S09	E35	.598	12409	1.3	14	-F			1527		.48			
CANR	28	1527	1535	1530	S08	E34	.581	12409	1.2	8	-F			1530	.60	.60			
ATHN	28	1530E	1536	15300	S09	E37	.624	12409	1.4	60	-F	4	V		.33				DE
GRP49021	28	1843	1904	1846	N12	E90	1.000	12417	5.5	21	1B				.46				2 2 1 4
HUAN	28	1841	1852		N11	E90	1.000	12417	5.5	11	-N			1842	.46				
BOUL	28	1844	19150	18480	N12	E90	1.000	12417	5.5	310	2B			1848					

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OBSERVATORY	OBSERVED UT				LOCATION						DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %		
					LAT.	MER. DIST.													
GRP49022 HUAN BOUL	28	1903	1909	1906	S06	W66	.917	12397	23.8	6	--F							2 2 0 3	
	28	1901U	1908		S05	W64	.902	12397	24.0	70	-F	1	C						
	28	1905	1910	1906U	S06	W68	.930	12397	23.7	5	-F		V	1906					
023 HUAN	28	1911	1919	1912	N12	E19	.360	12413	30.2	8	--F	1	C	1912	.26			0 3	
	28	1920	1929	NO FLARE PATROL															
	28	1948	1953	NO FLARE PATROL															
	28	2006	2013	NO FLARE PATROL															
	28	2025	2034	NO FLARE PATROL															
	28	2036	2040	NO FLARE PATROL															
024 RAMY	28	2139	2155		S07	E85	.997	12414	5.3	16	--F	3	C					DE 2	
GRP49025 VORO PALE PALE	28	2321	0003	2323	S14	W44	.727	12402	25.7	42	-B			1.11				2 2 2 3	
	28	2321	0003	2322	S15	W45	.741	12402	25.6	42	-B		P	2331	1.38	2.01	64	EL	
	28	2322E	2357D	2324U	S13	W43	.712	12402	25.7	350	-N	2	V		.83			F	
	28	2322E	2357D	2343U	S13	W43	.712	12402	25.7	350	-N	2	V		1.34			F	
026 CRON	29	0039E	0039D		S07	E84	.995	12414	5.3		--N		V	0039	.25			2	
027 CRON	29	0145E	0210		S13	W48	.768	12398	25.5	250	-N		V		.90			1	
028 PALE	29	0217E	0218D	0217U	S08	E84	.995	12414	5.4	10	--N	2	V		.21			DE 2	
029 PALE	29	0217E	0218D	0217U	S12	W45	.732	12402	25.7	10	-N	2	V		1.24			2	
GRP49031 ATHN BUCA TACH	29	0554	0608	0558	S07	E76	.980	12414	5.1	14	-N			.76				3 3 3 6	
	29	0552E	0605	0555	S07	E76	.972	12414	4.9	130	-N	3	V		.83			F	
	29	0555	0608		S07	E80	.986	12414	5.2	13	-N		P	0558	.55			D	
	29	0555	0612D	0600	S06	E78	.979	12414	5.1	170	1N		C	0600	.91	3.67	80	E	
GRP49032 TEHR TEHR ISTA ATHN CATA CAPS	29	0803	0818	0807	S07	E78	.980	12414	5.2	15	-N			.80				5 5 4 6	
	29	0755	0818	0804	S08	E80	.986	12414	5.3	23	-B	3	C		.38			F	
	29	0759E	0818	0810	S06	E78	.979	12414	5.2	190	-B	3	V		.99			F	
	29	0802	0819		S08	E80	.986	12414	5.3	17	-N							F	
	29	0804E	0816	0806	S07	E75	.968	12414	5.0	120	-N	4	V		.83				
	29	0805	0815	0805	S09	E80	.986	12414	5.3	10	1B	3	C	0805	.87		(204)		
	29	0810E	0822D		S05	E76	.972	12414	5.0	120	-N		V	0811	.50				
	29	1201	1259	1204	N11	E86	.997	12417	6.0	58	-N			.31				5 5 4 9	
GRP49034 RAMY ATHN CANR CAPS HUAN	29	1154	1253	1201	N12	E88	.999	12417	6.1	59	-N	3	C					DE	
	29	1156	1304	1200	N11	E85	.996	12417	5.9	68	-N	3	C		.33			F	
	29	1203E	1250	1205	N13	E85	.995	12417	5.9	470	-N		V		.40				
	29	1206E	1310D		N10	E83	.992	12417	5.7	640	-B	3	V	1206	.25			0	
	29	1206	1211	1206	N11	E87	.998	12417	6.0	5	-F	2	C	1206	.26				
	29	1309	1325	1312	S07	E74	.963	12414	5.1	16	-N			.66				8 8 8 9	
	29	1305	1324	1311	S07	E75	.968	12414	5.2	19	-N	3	C		.74			F	
GRP49035 TEHR CANR HUAN CAPS MEUD ATHN BOUL	29	1307	1345	1310	S08	E78	.980	12414	5.4	38	-N	3	C		.36			DE	
	29	1308E	1320	1315	S05	E74	.963	12414	5.1	120	-N		V	1315	.50	1.60			
	29	1310	1317		S09	E75	.969	12414	5.2	7	-F	1	C	1313	.52			E	
	29	1310E	1327D		S06	E74	.963	12414	5.1	170	-N	3	V	1310	1.94				
	29	1310	1320	1316	S08	E71	.949	12414	4.9	10	-F		C	1316	.41			E	
	29	1310E	1322	1311	S08	E73	.959	12414	5.0	120	-N	4	V		.33			F	
	29	1311	1324	1311	S08	E72	.954	12414	4.9	13	-N		V	1311	.50	1.50			
	29	1330	1352	1336	N09	E83	.992	12417	5.8	22	-N			.31				3 3 3 10	
GRP49037 BOUL CAPS ATHN	29	1330	1345	1336	N09	E85	.996	12417	5.9	15	-F		V	1336	.25	1.60			
	29	1331E	1354D		N06	E82	.990	12417	5.7	230	-N	3	V	1331	.50			DE	
	29	1333E	1357	1335	N12	E83	.992	12417	5.8	240	-N	4	V		.17				
	29	1513	1526	1517	S08	E74	.964	12414	5.2	13	-B			.57				5 5 5 7	
GRP49038 RAMY HUAN ATHN MEUD BOUL	29	1511	1528	1516	S07	E73	.959	12414	5.1	17	-B	3	C		.74			F	
	29	1511	1524	1516	S09	E74	.964	12414	5.2	13	-N	2	C	1516	.36				
	29	1513	1527	1517	S10	E74	.965	12414	5.2	14	-B	4	C		.83			F	
	29	1514	1524	1517	S08	E70	.943	12414	4.9	10	-N		C	1517	.72				
	29	1515	1527	1517	S08	E80	.986	12414	5.6	12	1B		V		.20	.80			
	29	1641	1653	1644	N12	E84	.994	12417	6.0	12	--F			.31				4 4 3 6	
GRP49039 BOUL HUAN RAMY MEUD	29	1641	1702	1644	N13	E87	.998	12417	6.2	21	-N		V						
	29	1641	1648	1643	N11	E85	.996	12417	6.1	7	-F	1	C	1643	.31				
	29	1641	1651	1643	N13	E85	.995	12417	6.1	10	-N	2	V		.21			DE	
	29	1642	1650	1644	N12	E80	.984	12417	5.7	8	-F		C	1644	.41			D	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
GRP49040	29	1306	1917	1912	S08	E71	.949	12414	5.1	11	--N			.27				4 4 3 4
HUAN	29	1902	1916	1911	S09	E73	.960	12414	5.3	14	-N	1 C	1911	.31				
PALE	29	1908	1915	1910	S07	E72	.954	12414	5.2	7	-N	2 C		.36				
BOUL	29	1909	1920	1911	S08	E71	.949	12414	5.1	11	-N	V	1911		.90			DE
RAMY	29	1915E	1918	1915U	S07	E69	.937	12414	5.0	30	-N	3 V		.15				
GRP49041	29	1947	2007	1949	N13	E82	.989	12417	6.0	20	-B			1.03				4 4 3 4
PALE	29	1946	2008D	1950U	N16	E79	.981	12417	5.7	20	1B	2 C		1.63				UDE
RAMY	29	1947	2010	1950U	N11	E80	.984	12417	5.8	23	1B	2 V		.99				U
BOUL	29	1947	2000D	1950	N12	E82	.989	12417	6.0	13D	-N	V	1950		2.00			E
HUAN	29	1947	2003	1947	N12	E85	.996	12417	6.2	16	-N	2 C	1947	.46				
044 PALE	29	2249	2258	2251	S09	E68	.932	12414	5.1	9	--F	2 V		.31				DE 2
045 PALE	30	0042E	0045D	0045U	S05	E68	.930	12414	5.1	30	--N	2 C		.36				DE 3
046 GRON	30	0045	0057		N11	E75	.965	12417	5.7	12	-N	V		.60				4
047 MITK	30	0055	0103	0057	S07	E66	.918	12414	5.0	8	-N	C	0057	.52				D 3
GRP49048	30	1516	1546	1518	N13	E70	.939	12417	5.9	30	1N			1.64				9 9 7 9
RAMY	30	1514	1548	1518	N15	E69	.934	12417	5.8	34	-B	2 C		.84				DE
ATHN	30	1515	1547	1517	N13	E70	.939	12417	5.9	32	-B	3 C		.99				F
BOUL	30	1515	1532	1518	N13	E67	.920	12417	5.7	17	1N	V	1518		3.50			
CANR	30	1515	1535	1518	N13	E73	.955	12417	6.1	20	1B	V	1518	.90	2.10			
HUAN	30	1515	1607	1518	N12	E70	.939	12417	5.9	52	-N	2 C	1518	.72				
CAPS	30	1515E	1550D		N11	E72	.950	12417	6.0	35D	-B	3 V	1518	1.00			(420) C	
MEUD	30	1516	1536	1518	N13	E70	.939	12417	5.9	20	-N	C	1518	.83				D
MCMA	30	1518E	1600D		N13	E70	.939	12417	5.9	42D	1B	V						
WEND	30	1519	1543		N13	E68	.927	12417	5.7	24	2F	P		6.19				
049 BOUL	30	1851	1904	1853	S07	W75	.968	12398	25.2	13	--F	V	1853		.80			2
	30	1906	1911	NO FLARE PATROL														
050 HUAN	30	2020	2028	2025	N10	E70	.939	12417	6.1	8	--F	1 C	2025	.26				2
051 HUAN	30	2044	2059	2047	N13	E68	.927	12417	6.0	15	--F	1 C	2047	.26				2
	30	2126	2153	NO FLARE PATROL														
GRP49052	30	2159	2222	2202	N16	E65	.908	12417	5.8	23	-B			.99				2 2 1 2
BOUL	30	2159	2225D	2201	N15	E64	.900	12417	5.7	26D	1N	V	2201		3.40			
PALE	30	2202E	2218	2203U	N16	E66	.915	12417	5.9	16D	-B	2 C		.99				DE

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity. These subflares are also not included in the Flare Index below.

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
730601	0.00	23.7	730612	26.01	23.8	730622	0.00	22.4
730602	3.05	24.0	730613	3.19	22.8	730623	6.54	23.2
730603	0.00	21.8	730614	58.93	24.0	730624	15.90	23.1
730604	0.00	23.9	730615	113.64	24.0	730625	0.00	23.7
730605	0.00	23.8	730616	299.81	23.9	730626	85.27	22.5
730606	3.44	22.5	730617	0.00	23.3	730627	23.27	24.0
730607	0.51	24.0	730618	5.20	23.3	730628	11.61	23.4
730608	0.00	23.2	730619	0.00	21.8	730629	29.44	24.0
730609	2.16	24.0	730620	2.80	23.0	730630	22.74	23.4
730610	0.00	23.6	730621	2.74	24.0			

When no Flare Index is given, it is 0 for that day.

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Jun 73SOLAR FLARES
Unconfirmed

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMT PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %			
783 MANI	01	0029	0050	0034	S12	W81	.988	12357	25.9	21	-F	1	0034	.52	1.36			3		
784 CAPS	01	0802	08350		N15	W62	.893	12364	27.7	330	-N	3	V	0815	.60			8		
785 CATA	01	1005	1025	1005	N17	W64	.910	12364	27.6	20	-N	3	C	1005	.29	.69	(158)	Z	5	
786 TEHR	01	1250	1326	1303	N15	W68	.933	12364	27.4	36	-N	3	V		1.00			F	5	
787 ARGE	01	1610E	16220		N15	W70	.945	12364	27.4	120	-F		C	1610	.17				4	
792 ARGE	05	1200E	12500		N14	E58	.858	12375	9.9	500	-F		C	1225	.36	.70		H	9	
793 PALE	06	0127E	0146	0129	N13	E43	.702	12375	9.3	190	-F	3	V		.21			DE	3	
794 BOUL	06	1749E	1802	1754	S20	W21	.479	12366	5.2	130	-F		V	1754					4	
799 BOUL	07	1410E	1414	1411	N12	E85	.996	12385	14.0	40	-F		V	1411					6	
801 BOUL	07	1436	1449	1440	N17	E85	.997	12385	14.0	13	-N		V	1440					7	
802 BOUL	07	1443	1455	1445	N14	E82	.991	12379	13.8	12	-F		V	1445					6	
806 KODA	08	0408E	04150		N15	E66	.919	12379	13.1	70	1N		P	0408	4.75	4.75		E	4	
GRP48807	08	1451	1501	1453	N16	E62	.892	12379	13.3	10	-F				.27			2 2 2 8		
RAMY	08	1450	15010	1452	N16	E61	.884	12379	13.2	110	-F	1	C		.33			DE		
HUAN	08	1451	1501	1453	N15	E62	.891	12379	13.3	10	-F	1	C	1453	.21	.44		D		
812 KODA	09	0614E	06180		N13	E53	.809	12379	13.2	40	1N		P	0614	4.39	4.39		E	7	
814 BOUL	09	2146	21550	2150	N17	E43	.713	12379	13.1	90	-F		V	2150	.20				3	
816 BOUL	10	0109E	0117	0112	S17	E48	.770	12380	13.6	80	-F		V						4	
817 ATHN	10	0712	0723	0714	S18	E69	.941	12382	15.5	11	-F	3	C		.33			DE	7	
818 CAPF	10	0829E	10000		N21	E85	.996	12387	16.7	910	1N		C	0832	1.24			H	6	
819 ATHN	10	0857E	10050	0857U	N10	E90	1.000	12389	17.1	680	1B	3	C					F	7	
819 ATHN	10	0857E	10050	0950U	N10	E90	1.000	12389	17.1	680	*1N	3	C					F	8	
GRP48821	10	1647	1659	1650	N13	W23	.439	12375	9.0	12	-F				.32			2 2 2 7		
RAMY	10	1646	1659	1650	N13	W22	.425	12375	9.0	13	-F	4	C		.37			DE		
PALE	10	1647	16510	1650	N12	W23	.432	12375	9.0	40	-F	3	C		.27			F		
822 HUAN	10	1853	1905		N15	E32	.571	12379	13.2	12	-F	1	C	1857	.21	.26		D	4	
826 ATHN	11	0711E	07170	0713	N18	E88	.999	12387	17.9	60	-N	4	V					DE	8	
827 MONT	11	0751	0805	0758	N14	E86	.998	12387	17.8	14	-F		C	0758	.10				6	
830 WEND	12	0449	0513		N12	W45	.720	12375	8.8	24	-N								5	
831 WEND	12	0505	0511		N15	W09	.291	12377	11.9	6	-F								6	
833 ABST	12	0649E	0659	0650	N11	W45	.718	12375	8.9	100	-F		P	0650	.81	1.20		76	DJZ	12
834 WEND	12	0717	0741		N12	W45	.720	12375	8.9	24	-N								11	
GRP48835	12	0747	0759	0751	N13	E69	.936	12387	17.5	12	-N				.70			2 2 2 10		
ABST	12	0744	07590	0751	N14	E69	.937	12387	17.5	150	1N		P	0751	.99			71	EJ	
MONT	12	0750	0758	0751	N12	E69	.936	12387	17.5	8	-N		C	0751	.41					
GRP48836	12	0821	0848	0834	N13	W47	.745	12375	8.8	27	-N				1.60			3 2 2 10		
MONT	12	0821	0846	0834	N14	W46	.736	12375	8.9	25	-N		C	0834	.10					
WEND	12	0821E	08500		N12	W47	.743	12375	8.8	290	1N		V		3.09					
CAPS	12	0846E	09150		N15	W41	.681	12375	9.3	290	-N	3	V	0850	.50	.70	(170)			
837 CAPS	12	0915E	09330		N07	E66	.914	12404	17.3	180	-N	3	V	0918	.60			C	9	
839 RAMY	12	1122	1212	1130	N14	E68	.931	12387	17.6	50	-F	3	C		.37			DE	9	
840 BOUL	12	1629	1646	1632	N17	E07	.305	12379	13.2	17	-F		V	1632	.40	.40			7	
845 KODA	13	0321E	03300		N12	E58	.854	12387	17.5	90	1F		P	0321	4.51	4.51		E	6	

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	DATE JUN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H ₀	MAX. INT. %	
GRP48846	13	0539	0637	(0625)	N13	E56	.837	12387	17.4	58	-B				1.85				2 2 2 8
WEND	13	0539E	0634D		N13	E59	.863	12387	17.7	550	1N		V		3.09				
CAPS	13	0622E	0637D		N13	E53	.808	12387	17.2	150	-B	3	V	0625	.60	1.00		(212)	
GRP48847	13	0644	0701	(0645)	N17	W01	.280	12379	13.2	17	-N				.70				2 2 1 10
CAPS	13	0644E	0658D		N16	E00	.263	12379	13.3	140	-N	3	V	0645	.70	.70			
WEND	13	0649	0701		N17	W01	.280	12379	13.2	12	-N								
848 ABST	13	0653E	0746D	0657	N12	E56	.835	12387	17.5	530	-F		P	0657	.90	1.70		63	FK 11
849 ABST	13	0704	0746D	0728	N15	W58	.857	12375	8.9	420	1F		P	0728	1.80	3.40		62	F 12
851 BOUL	13	1501	1513	1505	N12	W65	.909	12375	8.8	12	-F		V	1505		1.30			7
GRP48852	13	1501	1519	1506	N13	E53	.808	12387	17.6	18	-F				.21				2 2 1 7
MCMA	13	1500	1524		N12	E53	.806	12387	17.6	24	-F		P	1500	.21	.40		0	
BOUL	13	1501	1513	1506	N13	E53	.808	12387	17.6	12	-N		V	1506					
853 BOUL	13	1714	1733	1721	N14	W67	.924	12375	8.7	19	-F		V	1721		1.50			7
GRP48854	13	1717	1733	1720	N14	E53	.810	12387	17.7	16	-F				.26				2 2 1 7
BOUL	13	1717	1733	1720	N15	E53	.811	12387	17.7	16	-N		V	1720		1.00			
MCMA	13	1717	1725D		N12	E53	.806	12387	17.7	90	-F		P	1726	.26	.40		E	
858 CROH	14	0047E	0058		N13	W70	.942	12375	8.8	110	-F		V	0050	.35				3
859 MANI	14	0140E	0155	0144	N14	W69	.936	12375	8.9	150	-N	1		0144	.41	.87			4
861 ATHN	14	0442E	0452	0443	N12	E45	.719	12387	17.6	100	-N	3	V		.50			DE	3
863 ABST	14	0711E	0729D	0716	N14	E50	.779	12387	18.0	180	-F		P	0716	.90	1.40		DZ	8
864 ABST	14	0749	0800	0751	N13	W73	.958	12375	8.9	11	1N		C	0751	.90			DZ	7
865 ABST	14	0759E	0810D	0802	N15	E39	.656	12387	17.3	110	-F		P	0802	.90	1.20		DJ	9
GRP48866	14	0819	0855	(0821)	N13	W76	.971	12375	8.6	36	1F				2.14				2 2 2 8
MEUD	14	0818	0838	0818	N13	W73	.958	12375	8.9	20	-F		C	0832	.31			HT	
KHAR	14	0820	0912		N13	W78	.979	12375	8.5	52	2N		P	0823	3.97		2.10	BH	
867 KHAR	14	0820	0858		N14	E47	.747	12387	17.9	38	2N		P	0823	3.64	5.20	1.80	BHJ	8
GRP48868	14	0856	0910	0858	N13	W74	.962	12375	8.8	14	-N				.38				2 2 2 9
ATHN	14	0855E	0912	0856	N12	W72	.952	12375	9.0	170	-N	3	V		.66			DE	
MONT	14	0856	0907	0900	N14	W76	.971	12375	8.7	11	-N		C	0900	.10			D	
GRP48869	14	0910	0937	0911	N15	E48	.760	12387	18.0	27	-F				.21				2 2 1 7
MONT	14	0905	0929	0911	N15	E49	.770	12387	18.1	24	-N		C	0911	.21			D	
KHAR	14	0915	0945		N14	E47	.747	12387	17.9	30	1F		P	0920			1.80	HJ	
875 BOUL	14	2140	2200	2143	N13	W85	.996	12375	8.5	20	1N		V	2143		2.70			4
876 BOUL	14	2143	2151	2145	N12	E35	.594	12387	17.5	8	-F		V	2145		.30			4
879 PALE	15	0141E	0156		N16	W78	.979	12375	9.2	150	-N	2	C						4
GRP48880	15	0424	0437	0428	N14	E38	.640	12387	18.0	13	-N				.39				2 2 2 7
PALE	15	0424	0435D	0428	N14	E38	.640	12387	18.0	110	-N	2	C		.45			F	
ATHN	15	0427E	0437	0427D	N14	E38	.640	12387	18.0	100	-N	3	V		.33			DE	
881 ABST	15	0504E	0518	0511	N16	W85	.996	12375	8.8	140	-F		P	0511	.90			D	8
883 MONT	15	0722	0732	0724	N12	W90	1.000	12375	8.6	10	-N		C	0724	.10			D	9
GRP48884	15	1241	1320	(1247)	S15	W12	.341	12382	14.6	39	-F				1.65				2 2 2 9
MCMA	15	1241E	1248D		S14	W09	.300	12382	14.9	70	-N		P	1247	.21	.20		E	
WEND	15	1242E	1320		S15	W14	.361	12382	14.9	380	1F		V		3.09				
886 BOUL	15	1938E	1953	1938E	S15	W10	.322	12382	15.1	150	-F		V						4
GRP48887	15	2140	2155	2145	N18	W90	1.000	12375	9.2	15	-N				.45				2 1 1 6
PALE	15	2140	2155	2145	N18	W90	1.000	12375	9.2	15	-N	3	C		.45				
BOUL	15	2153E	2202D	2159	N13	W90	1.000	12375	9.2	90	-N		V						
890 BOUL	16	0000	0009	0004	N13	W90	1.000	12375	9.3	9	-F		V						6
GRP48892	16	0811	0826	0811	N11	E20	.378	12387	17.8	15	-F				.10				2 2 1 10
MONT	16	0810	0819	0811	N13	E19	.379	12387	17.8	9	-F		C	0811	.10				
WEND	16	0812	0832		N08	E21	.375	12387	17.9	20	-F								

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
903 BOUL	16	2156	2207	2158	N11	E07	.209	12387	17.4	11	-F	V		.50	.50			3
904 BOUL	16	2216	2240	2222	S08	E34	.575	12390	19.5	240	-F	V		1.00	1.20			4
905 BOUL	16	2331	2348	2337	N12	E07	.223	12387	17.5	17	-F	V		.40	.40			4
906 PALE	17	0154E	0200	0155U	S04	E54	.811	12394	21.1	60	-F	2 V		.31			DE	4
907 PALE	17	0324	0348	0325	N12	E07	.222	12387	17.7	24	-F	2 C		.55			DE	4
908 PALE	17	0356E	0409	0359	S12	E35	.605	12390	19.8	130	-F	2 V		.31			DE	4
909 WEND	17	0545	0558		N13	E06	.228	12387	17.7	13	-N							5
GRP48914	18	1246	1253	1248	S03	E90	1.000	12398	25.3	7	-F						2 2 0 8	
RAMY	18	1245	1254	1247	S02	E90	1.000	12398	25.3	9	-N	4 V						
HUAN	18	1246	1251	1248	S03	E90	1.000	12398	25.3	5	-F	1 C						
916 PALE	18	1723E	1726	1724	N08	E72	.951	12398	24.1	30	-N	4 V		.21			DE	7
917 PALE	18	1723E	1726	1724	S18	E82	.992	12398	24.9	30	-N	4 V		.21			DE	7
918 BOUL	18	1802	1814	1805	S05	E70	.941	12397	24.0	12	-N	V	1805		.70			5
922 MANI	19	0047E	0110	0049U	N15	W22	.432	12387	17.4	230	-N	2	0049	.83	.90		U	3
923 CAPS	19	0602E	0630		S07	E65	.909	12397	24.1	280	1N	3 S				(152)	8	9
924 CATA	19	0630	0715	0635	N15	W21	.419	12387	17.7	45	-F	3 C	0635	.29	.31	(145)		9
925 ABST	19	0747	0845	0754	S09	E65	.911	12397	24.2	580	1F	P	0754	1.53	3.40		EJ	9
GRP48926	19	0811	0833	0819	S02	E81	.988	12398	25.4	22	-N			.62			2 2 2 9	
ABST	19	0803	0835	0817	S02	E83	.993	12398	25.6	33	1N	C	0817	.90			D	
ATHN	19	0818	0830	0821	S01	E79	.982	12398	25.3	12	-N	3 C		.33			DE	
928 BOUL	19	1415E	1455	1416	S05	E59	.860	12397	24.0	400	-F	V						9
GRP48929	19	1736	1750	1738	S03	E76	.971	12398	25.4	14	-F			.31			2 2 1 8	
HUAN	19	1736	1745	1738	S02	E74	.962	12398	25.3	9	-F	1 C	1738	.31			0	
MCMA	19	1738E	1754		S04	E77	.975	12398	25.5	160	-F	V						
930 CANR	19	1754	1830	1759	N10	W30	.515	12387	17.5	36	-F	V		.20				7
933 CANR	19	1828	1845	1832	N18	E72	.953	12403	25.2	17	-F	V		.70				5
934 KODA	20	0523E	0523		S10	E50	.778	12397	24.0		1N	P	0523	5.05	5.06		E	7
935 KODA	20	0523E	0523		S05	E66	.915	12398	25.2		1N	P	0523	5.05	5.06		E	7
936 ATHN	20	0543E	0600	0545	S10	E80	.986	12402	26.2	170	-F	4 V		.17			DE	7
937 ATHN	20	0632E	0700	0634	S05	E70	.941	12398	25.5	280	-F	4 V		.50			F	9
938 ABST	20	0741	0807	0752	S06	E52	.793	12397	24.2	260	-F	P	0752	.90	1.80		DKZ	9
940 CANR	20	0842	0850		S06	E63	.894	12398	25.1	8	-N	V	0843	.20	.40			9
GRP48941	20	0900	0916	0902	S03	E65	.907	12398	25.3	16	-F			.38			2 2 2 9	
ATHN	20	0900E	0916	0902	S03	E67	.921	12398	25.4	160	-N	4 V		.33			DE	
UPIC	20	0901E	0908U		S02	E63	.892	12398	25.1	70	-F	P	0901	.42				
943 RAMY	20	1237	1254	1242	S01	E62	.883	12398	25.2	17	-F	1 C		.19			DE	8
948 BOUL	20	2004E	2022	2022	N10	W41	.664	12387	17.8	180	-F	V			.60			4
949 HUAN	20	2042E	2048		N11	W46	.727	12387	17.4	60	-F	1 P						4
951 ATHN	21	0810	0819	0812	S04	E49	.758	12398	25.0	9	-F	3 C		.33			DE	5
956 HUAN	21	1637	1643	1639	S12	E65	.913	12402	26.6	6	-F	1 C	1639	.21			D	7
957 BOUL	21	1652E	1701	1652E	N21	W80	.985	12389	15.7	90	-F	V		.40	1.30			7
962 KODA	22	0225E	0229		S08	E28	.494	12397	24.2	40	-N	P	0229	1.03	1.04		E	4
963 MANI	22	0600	0625	0602	S06	E25	.441	12397	24.1	25	-N	2	0602	.31	.34			5

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE JUN	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
GRP48965 MANI TEHR	22	0728	0740	0731	S13	E48	.765 12402	25.9	12	-F				.19				2 2 2 6
	22	0728	0740	0730	S13	E49	.775 12402	26.0	12	-N	2		0730	.21	.32			F U
	22	0728	0740	0731	S13	E46	.743 12402	25.8	12	-F	4	V		.17				
967 MEUD	22	1132	11350	1133	S08	E18	.350 12397	23.8	30	-F		C	1133	.52	.50			DH 7
969 HUAN	22	1322	1328	1325	S09	E17	.344 12397	23.8	6	-F	1	C	1325	.31	.33			6
970 MEUD	22	1345	13480		S12	W30	.542 12390	20.3	30	-F		C	1348	.52	.60			7
972 RAMY	22	1452	1502	1455	S09	E15	.317 12397	23.7	10	-F	3	C		.37				DE 5
976 TEHR	23	0712	0722	0717	S02	E23	.396 12398	25.0	10	-F	2	C		.26				F 8
977 CATA	23	0725E	07300	0725	S04	E24	.418 12398	25.1	50	-F	3	P	0725	.29	.31		(148)	9
978 MEUD	23	0946E	0949		S07	E08	.208 12397	24.0	30	-N		C	0946	.72	.70			E 7
980 BOUL	23	1558	1608	1600	S09	E08	.234 12397	24.3	10	-F		V	1600	.30	.30			6
982 BOUL	23	1728	1744	1733	S14	E34	.606 12402	26.3	16	-F		V			1.80			3
986 BOUL	24	0157	0203	0202	S07	W01	.158 12397	24.0	6	-N		V	0202	.40	.40			5
990 ATHN	24	1222	1246	1227	S15	E23	.476 12402	26.2	24	-N	4	C		.50				DE 7
996 ATHN	26	0756	0815	0758	S15	W80	.988 12390	20.3	19	-F	3	C		.33				DE 15
997 UPIC	26	0759	0807	0801U	S15	E01	.298 12402	26.4	8	-F		P	0801	.42				14
000 CANR	26	0909	0920	0910	S10	W23	.438 12398	24.7	11	-N		V		.40	.50			10
GRP49001 TEHR ATHN	26	1133	1143	1137	S09	W32	.557 12397	24.1	10	-F				.29				2 2 2 9
	26	1133E	1142	1137	S09	W31	.543 12397	24.2	90	-N	3	V		.25				DE
	26	1134E	1143	1136	S08	W32	.552 12397	24.1	90	-F	3	V		.33				DE
002 BOUL	26	1252E	13300	1300U	S12	W12	.319 12402	25.6	380	-F		V	1300		2.60			10
GRP49003 WENO UPIC	26	1456	1520	(1457)	S11	W13	.318 12402	25.6	24	-F				.42				2 2 1 11
	26	1456	1516		S11	W13	.318 12402	25.6	20	-N								
	26	1457E	1524		S11	W13	.318 12402	25.6	270	-F		P	1457	.42				E
007 BOUL	26	1652	1703	1654	S09	W36	.610 12397	24.0	11	-F		V	1654		.20			11
009 MANI	26	2220E	2224	2220U	S03	W26	.447 12398	25.0	40	-F	1		2220	.21	.23			3
012 BOUL	27	1723E	1738	1723U	S15	W21	.456 12402	26.1	150	-F		V		.70	.80			5
014 MONT	28	0748E	10300	0827	S07	E86	.998 12414	4.8	1620	-N		C	0827	.21				K 11
4 STATIONS REPORTING GROUP 49015. 7 STATIONS OBSERVING AND NOT REPORTING.																		
GRP49015 CAPF CAPS	28	0810	0902	(0825)	S13	W35	.616 12402	25.7	52	-N				.87				2 2 2 11
	28	0810E	0854		S13	W37	.641 12402	25.6	440	-N		P	0820	1.24	1.56			
	28	0816E	0909		S12	W33	.586 12402	25.9	530	-N	3	V	0830	.50	.60		(193)	
49015 TEHR ISTA TEHR	28	0758	0822	0808	S13	W37	.641 12402	25.6	24	*-F				.33				2 2 1 9
	28	0755	0831	0808	S13	W37	.641 12402	25.6	36	-N	3	C		.21				DE R
	28	0800	0820		S13	W36	.629 12402	25.6	20	-F								D
	28	0802E	0824	0808	S13	W37	.641 12402	25.6	220	-N	3	V		.33				DE R
019 HUAN	28	1558	1615	1600	S08	W63	.896 12397	23.9	17	-F	1	C						8
020 WENO	28	1746	18020		S04	W67	.922 12397	23.7	160	1N		V		3.09				4
030 PALE	29	0324E	0336	0326	N10	E90	1.000 12417	5.9	120	-N	3	V		.26				DE 3
033 CAPS	29	1024E	10320		S06	E75	.968 12414	5.1	80	-N	3	V	1024	.50				9
036 HUAN	29	1313	1337		S14	E79	.985 12414	5.5	24	-F	1	C						9
042 HUAN	29	2116	2126	2120	S08	E70	.943 12414	5.1	10	-F	1	C	2120	.31				5
043 PALE	29	2131	2144	2134U	S05	E68	.930 12414	5.0	13	-F	1	C		.36				F 4