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Solar - Geophysical Data

NO. 363 NOVEMBER 1974

Part II (Comprehensive Reports)

DATA FOR
MAY 1974
APRIL 1974
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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SOLAR - GEOPHYSICAL DATA

No. 363

Issued in two parts

Hope I. Leighton, Editor

J. Virginia Lincoln, Director
Solar - Terrestrial Data Services Division

C O N T E N T S

Part I (Prompt Reports)

Part II (Comprehensive Reports)

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SGD 363 Part II (Comprehensive)

MAY 1974 DATA

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Hα SOLAR FLARES
Confirmed

MAY 1974

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	DATE MAY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.		TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	01	0116	0120	NO FLARE PATROL															
038 VORO	01	0311	0318	0313	S05	E77	.973	12906	6.9	7	--B		C	0313	.19	.63		62	DJL 3
GRP60040	01	0810	0820	0815	S05	E85	.996	12906	7.7	10	1F				.87				1 1 1 2
CATA	01	0810	0820	0815	S03	E90	1.000	12906	8.1	10	1F	3		0815	.58			(138)	
CATA	01	0812	0820	0812	S07	E80	.984	12906	7.3	8	-N	3		0812	.29			(178)	
041 CATA	01	0910	0920	0910	S06	E78	.977	12906	7.2	10	1B	3		0910	.58			(204)	3
	01	0940	0945	NO FLARE PATROL															
GRP60042	01	1002	1027	1006	S11	E76	.968	12906	7.1	25	2B				4.04				3 3 3 3
ABST	01	1002	1030	1005	S11	E80	.983	12906	7.4	28	2B		C	1005	3.60				EJL
UPIC	01	1005E	1023		S11	E73	.954	12906	6.9	18D	2B			1005	2.73				
CATA	01	1006E	1020D	1006	S12	E74	.959	12906	7.0	14D	3B	3		1006	5.80			(380)	
043 CATA	01	1150	1150U	1150	S12	E78	.976	12906	7.3		1B	3		1150	.87			(245)	4
60043	01	1155	1204	1159	S11	E83	.991	12906	7.7	9	*-N				.32				3 3 2 4
MCMA	01	1155	1204	1157	S11	E82	.989	12906	7.6	9	-B		C	1157					D
HUAN	01	1159E	1202		S11	E84	.993	12906	7.8	3D	-F	1	C	1159	.26				D
RAMY	01	1200E	1206	1200U	S11	E82	.989	12906	7.7	6D	-N	4	C		.37				DE
GRP60044	01	1225	1233	1228	S09	E75	.964	12906	7.1	8	-B				.84				4 4 3 4
RAMY	01	1225	1240	1229	S07	E74	.959	12906	7.1	15	-B	4	C		.84				DE
MCMA	01	1225	1231	1227	S10	E75	.964	12906	7.1	6	-B		C	1227					E
HUAN	01	1225	1231	1228	S09	E77	.972	12906	7.3	6	-N	2	C	1228	.62				
UPIC	01	1227U	1231	1229	S10	E73	.954	12906	7.0	4D	1N			1229	1.05				
GRP60045	01	1310	1321	1314	S08	E69	.931	12906	6.7	11	--F				.46				3 2 2 6
BOUL	01	1310	1321	1313	S09	E69	.931	12906	6.7	11	-F		C	1313	.64	1.67			
RAMY	01	1313E	1321	1314U	S07	E68	.925	12906	6.7	8D	-F	4	C		.28				DE
HUAN	01	1320	1327	1322	S08	E82	.989	12906	7.7	7	-F	1	C	1322	.31				
GRP60046	01	1436	1453	1443	S09	E73	.954	12906	7.1	17	-N				.46				4 4 4 5
BOUL	01	1433	1456	1443	S10	E72	.949	12906	7.0	23	1N		C	1443	.75	2.12			
HUAN	01	1435	1451	1444	S08	E75	.964	12906	7.2	16	-N	1	C	1444	.36				
MCMA	01	1437	1452	1443	S10	E74	.959	12906	7.2	15	-B		C	1443	.41	1.60			D
RAMY	01	1437	1452	1443	S07	E72	.949	12906	7.0	15	-N	4	V		.33				DE
HUAN	01	1452	1459	1456	S08	E70	.938	12906	6.9	7	-F	1	C	1456	.46				
047 HUAN	01	1818	1828	1826	S13	E88	.999	12906	8.4	10	--F	1	C	1826	.31				3
GRP60048	01	1845	1855	1849	S08	E67	.918	12906	6.8	10	1N				1.02				5 5 5 5
HUAN	01	1844E	1847D		S07	E68	.925	12906	6.9	3D	-N	1	P	1847	.41				C
BOUL	01	1844	1857	1849	S09	E66	.911	12906	6.7	13	2N		C	1849	2.36	5.67			
RAMY	01	1845E	1854	1849U	S07	E66	.911	12906	6.7	9D	-N	4	V		.66				DE
MCMA	01	1845	1854	1849	S09	E66	.911	12906	6.7	9	-B		C	1849	.62	1.50			E
PALE	01	1845	1856	1850	S09	E68	.925	12906	6.9	11	-N	3	V		1.03				F
049 BOUL	01	1846	1910	1850	S06	E52	.786	12904	5.7	24	--F		C	1850	.43	.70			3
GRP60056	02	0704	0724	0708	S13	E80	.983	12906	8.3	20	-B				.78				2 2 2 4
MANI	02	0704	0725	0707	S13	E79	.979	12906	8.2	21	1N	2		0707	1.03	2.60			
MITK	02	0705E	0723	0708	S13	E80	.983	12906	8.3	18D	-B		C	0708	.52				D
057 MANI	02	0828	0843	0830	S12	E74	.959	12906	7.9	15	--N	1		0830	.41	.94			2
058 ABST	02	1006	1017	1010	S14	E78	.976	12906	8.3	11	1N		C	1010	1.89				D 3
059 RAMY	02	1151	1207	1153	S12	E78	.976	12906	8.3	16	--F	3	C		.28				DE 3
GRP60061	02	1504	1630	1528	S11	E36	.592	12904	5.3	86	--N				.31				2 1 1 3
MCMA	02	1504	1630	1528	S11	E36	.592	12904	5.3	86	-N		C	1528	.31	.40			DH
HUAN	02	1523	1632		S08	E36	.588	12904	5.3	69	-F	1	C	1547	.67	.83			
GRP60062	02	1513	1519	1515	S13	E75	.964	12906	8.3	6	--F				.31				2 2 1 3
MCMA	02	1513	1520	1514	S13	E76	.968	12906	8.3	7	-F		C	1514	.31	1.20			EKL
HUAN	02	1513	1518	1516	S13	E74	.959	12906	8.2	5	-F	2	C						
GRP60063	02	1527	1540	1529	S12	E76	.968	12906	8.3	13	--F				.25				2 2 2 3
MCMA	02	1526	1540	1528	S13	E76	.968	12906	8.3	14	-F		C	1528	.21	.80			D
RAMY	02	1527	1540	1530	S11	E75	.964	12906	8.3	13	-F	3	C		.28				DE
GRP60065	02	1937	1956	1941	S10	E61	.873	12906	7.4	19	--F				.42				3 3 3 4
HUAN	02	1937	1945	1941	S10	E61	.873	12906	7.4	8	-F	2	C	1941	.26	.52			E
RAMY	02	1937	1957D	1940	S09	E60	.864	12906	7.3	20D	-N	3	C		.46				DE
BOUL	02	1937E	2006D	1943	S12	E61	.873	12906	7.4	29D	-F	8	C	1943	.54	1.09			

Hα SOLAR FLARES
Confirmed

MAY 1974

OBSERVATORY	OBSERVED UT DATE MAY	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP60066	02	2030E	2111	2035	N08	W46	.737	12901	29.4	41	--F				.35				2 2 2 5
BOUL	02	2030E	2126	2034	N07	W46	.734	12901	27.4	56D	-F		C	2034	.43	.61			
PALE	02	2033E	2055	2036	N08	W46	.737	12901	27.4	23D	-N	3	C		.27				
GRP60067	02	2133	2139	2135	N08	W46	.737	12901	29.4	6	--N				.31				2 1 1 3
PALE	02	2133E	2139	2135U	N08	W46	.737	12901	27.4	6D	-N	3	V		.31				DE
BOUL	02	2139	2207	2147	N07	W47	.746	12901	27.4	28	-F		C	2147	.43	.62			
068 BOUL	02	2247E	2330	2248	N08	W47	.748	12901	27.4	43D	--F		C	2248	1.29	1.89			2
069 MITK	03	0137	0158	0144	S10	E57	.837	12906	7.3	21	-B		C	0144	.83	1.50			EH 3
GRP60070	03	0221	0255	0228	S09	E51	.776	12906	6.9	34	-B				.83				3 1 1 4
MANI	03	0213E	0235	0216	S09	E52	.787	12906	7.0	22D	1N	1		0216	2.58	4.10			FH
MITK	03	0221	0255	0228	S09	E51	.776	12906	6.9	34	-B		C	0228	.83	1.30			H
KODA	03	0255E	0303		S07	E49	.753	12906	6.8	8D	-B		P	0255	.96	.95			E
071 MITK	03	0301	0308	0305	N06	W52	.797	12901	27.2	7	--F		C	0305	.52	.80			OH 2
GRP60072	03	0702	0715	(0703)	S09	E49	.754	12906	7.0	13	-N				.98				3 3 2 5
UPIC	03	0702	0705		S09	E48	.742	12906	6.9	3	-N			0703	.85				
BUCA	03	0702	0724		S09	E47	.731	12906	6.8	22	-N		P	0703	1.10	1.60			E
WEND	03	0703	0715		S09	E51	.776	12906	7.1	12	-N								
	03	1055	1109	NO FLARE PATROL															
074 RAMY	03	1242	1257	1246	S08	E46	.718	12906	7.0	15	--N	4	C		.46				DE 4
075 RAMY	03	1400	1422	1406	S08	E45	.706	12906	7.0	22	-N	4	C		.93				F 1
GRP60076	03	1457	1501	1457	S08	E46	.718	12906	7.1	4	--F				.29				2 2 2 3
RAMY	03	1456	1502	1457	S07	E45	.706	12906	7.0	6	-N	4	C		.37				DE
HUAN	03	1457	1500	1457	S08	E46	.718	12906	7.1	3	-F	2	C	1457	.21	.29			D
GRP60077	03	1740	1752	1741	S09	E44	.694	12906	7.0	12	--F				.15				2 2 1 4
BOUL	03	1737	1754	1738	S08	E43	.681	12906	7.0	17D	-F		V	1738		.60			
HUAN	03	1742	1750	1743	S10	E44	.695	12906	7.0	8	-F	1	C	1743	.15	.21			D
GRP60079	03	1811	1838	1819	S08	E44	.694	12906	7.1	27	--F				.59				4 4 4 4
BOUL	03	1810	1849D	1815	S10	E42	.670	12906	6.9	39D	-F		C	1815	.64	.86			
PALE	03	1810	1840	1822	S08	E44	.694	12906	7.1	30	-F	3	C		.55				F
HUAN	03	1811	1815	1812	S10	E43	.683	12906	7.0	4	-F	1	C	1812	.15	.21			D
RAMY	03	1812	1825	1819	S06	E46	.718	12906	7.2	13	-N	3	C		.74				DE
HUAN	03	1818	1823	1820	S06	E47	.730	12906	7.3	5	-F	2	C	1820	.41	.60			
HUAN	03	1826	1837	1828	S09	E43	.682	12906	7.0	11	-F	1	C	1828	.36	.49			E
HUAN	03	1827	1831	1828	S08	E42	.668	12906	6.9	4	-F	1	C						
GRP60080	03	1925	1944	1927	S07	E46	.718	12906	7.3	19	-B				1.58				4 4 4 4
PALE	03	1924	1945D	1927	S08	E46	.718	12906	7.3	21D	1N	3	C		1.99				U F
RAMY	03	1924	1942	1927	S07	E46	.718	12906	7.3	18	-B	3	V		.93				DE
BOUL	03	1925E	1950E	1927	S07	E45	.706	12906	7.2	25D	1B		C	1927	2.68	3.81			
HUAN	03	1926	1940	1928	S07	E46	.718	12906	7.3	14	-N	2	C	1928	.72	1.04			E
GRP60081	03	2002	2010	2004	S07	E40	.642	12906	6.8	8	--F				.36				1 1 1 2
HUAN	03	2002	2006	2004	S09	E42	.669	12906	7.0	4	-F	2	C	2004	.21	.28			D
HUAN	03	2003	2010U		S05	E38	.614	12906	6.7	7D	-F	1	C	2006	.15	.20			D
GRP60082	03	2117	2134	2122	S10	E42	.670	12906	7.0	17	--F				.24				3 3 3 3
BOUL	03	2113	2147D	2123U	S08	E41	.655	12906	7.0	34D	-F		C	2123	.32	.43			
HUAN	03	2119	2127	2120	S09	E42	.669	12906	7.0	8	-F	2	C	2120	.15	.21			D
MCMA	03	2120	.2129	2122	S12	E42	.673	12906	7.0	9	-N		C	2122	.26	.40			D
	03	2215	2230	NO FLARE PATROL															
GRP60083	03	2302	2314	2306	S05	E34	.558	12906	6.5	12	--N				.64				2 2 2 4
BOUL	03	2302	2314D	2306	S05	E36	.586	12906	6.7	12D	-N		C	2306	.86	1.06			
MANI	03	2305E	2313	2305U	S05	E32	.529	12906	6.4	8D	-N	1		2305	.41	.49			
GRP60085	04	0224	0237	0228	S04	E34	.558	12906	6.7	13	--F				.49				2 2 2 3
MANI	04	0222	0237D	0226	S03	E34	.558	12906	6.6	15D	-N	2		0226	.62	.75			
PALE	04	0226	0229D	0229U	S05	E33	.543	12906	6.6	3D	-F	2	C		.36				DE
	04	0239	0241	NO FLARE PATROL															
GRP60086	04	0312	0344	0333	S09	E38	.617	12906	7.0	32	--F				.62				3 2 2 5
MANI	04	0312	0346	0329	S08	E38	.616	12906	7.0	34	-N	2		0329	.52	.68			F
PALE	04	0315E	0313D	0315U	S09	E37	.603	12906	6.9	4D	-F	2	C		.63				F
MITK	04	0336E	0341	0337	S10	E37	.605	12906	6.9	5D	-F		C	0337	.72	.90			

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	DATE MAY	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. %	
087 UPIC	04	0831U	0841U		S04	E18	.308	12904	5.7	10D	--F			0831	.85				2
088 UPIC	04	0910E	0915		S04	E18	.308	12904	5.7	5D	--F			0910	.63				2
	04	0936	1037	NO FLARE PATROL															
	04	1038	1045	NO FLARE PATROL															
	04	1111	1139	NO FLARE PATROL															
	04	1213	1225	NO FLARE PATROL															
	04	2042	2107	NO FLARE PATROL															
	04	2113	2119	NO FLARE PATROL															
	04	2150	2333	NO FLARE PATROL															
	04	2336	2342	NO FLARE PATROL															
GRP60089	05	0230	0243	0233	N06	W47	.742	12913	1.6	13	--F				.36				2 2 2 3
MANI	05	0230	0235D	0232	N06	W47	.742	12913	1.6	5D	-N	2		0232	.31	.46			
PALE	05	0233E	0243D	0234	N05	W47	.740	12913	1.6	10D	-F	2	V		.41				DE
090 PALE	05	0321	0327D	0327U	S06	E34	.558	12906	7.7	6D	--F	3	C		.77				F S 3
	05	0730	0800	NO FLARE PATROL															
	05	0815	0835	NO FLARE PATROL															
091 RAMY	05	1038E	1059	1038U	S03	E01	.022	12904	5.5	21D	--F	3	C		.93				DE 2
GRP60092	05	1349	1413	1359	S15	E34	.578	12906	8.1	26	--F				.95				2 2 2 4
BOUL	05	1348	1418D	1357	S16	E35	.595	12906	8.2	30D	-F		C	1357	.96	1.17			
RAMY	05	1349	1412	1400	S14	E33	.561	12906	8.1	23	-N	4	C		.93				DE
RAMY	05	1349	1412	135U	S14	E33	.561	12906	8.1	23	-N	4	C		.65				DE
094 PALE	05	2023	2031	2025	S13	E27	.473	12906	7.9	8	--F	3	C		.45				F 2
GRP60095	05	2205	2221	2213	S15	E30	.524	12906	8.2	16	-N				.87				2 2 2 3
PALE	05	2155	2214D	2211	S18	E32	.565	12906	8.3	19D	-N	3	C		.81				F
PALE	05	2155	2214D	2205	S18	E32	.565	12906	8.3	19D	-F	3	C		.63				F
VORO	05	2214	2221	2215	S12	E28	.483	12906	8.0	7	-N		C	2215	.93	1.04		60	EJL
GRP60096	05	2245E	2310	2247	S17	E31	.547	12906	8.3	25	--N				.78				2 2 2 4
PALE	05	2245E	2259D	2247U	S19	E35	.608	12906	8.6	14D	-F	2	V		.62				DE
VORO	05	2248E	2306		S16	E34	.582	12906	8.5	18D	-B		C	2253	.93	1.11		63	EL
PALE	05	2304E	2315D	2304U	S18	E21	.423	12906	7.5	11D	-N	3	V		.31				F
GRP60099	06	0526	0536	0529	S17	E27	.495	12906	8.3	10	--F				.70				2 2 2 5
MANI	06	0525E	0531D	0529U	S15	E25	.456	12906	8.1	6D	-F	2		0529	.41	.47			F
ABST	06	0526	0536	0529	S18	E28	.514	12906	8.3	10	-F		C	0529	.99	1.10			D
GRP60100	06	0736	0806	0742	N11	W54	.826	12894	2.3	30	--F				.66				2 2 2 5
ABST	06	0736	0804	0738	N11	W53	.817	12894	2.3	28	-F		C	0738	.90	1.50			DG
MANI	06	0743E	0807D	0745	N10	W54	.824	12894	2.3	24D	-F	1		0745	.41	.69			FH
	06	1030	1034	NO FLARE PATROL															
	06	1050	1123	NO FLARE PATROL															
102 KHAR	06	1129E	1141D		N11	W59	.870	12894	2.1	12D	1F		C		1.13	2.40			D 1
	06	1141	1143	NO FLARE PATROL															
	06	1148	1200	NO FLARE PATROL															
	06	1210	1225	NO FLARE PATROL															
	06	1230	1237	NO FLARE PATROL															
4 STATIONS REPORTING GROUP 60103. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP60103	06	1334	1412	1336	N10	W59	.869	12894	2.1	38	-N				.49				2 2 2 3
RAMY	06	1332E	1412	1336	N10	W58	.860	12894	2.2	40D	-N	4	C		.56				DE
HUAN	06	1335	1412D		N09	W59	.867	12894	2.1	37D	-N	2	P	1342	.41	.81			
60103	06	1225E	1415	1238	N10	W56	.843	12894	2.3	110	*-F				.86				2 1 1 2
BOUL	06	1225E	1415	1238	N10	W56	.843	12894	2.3	110D	-F		C	1238	.86	1.52			
CATA	06	1225E	1230D	1225	N08	W58	.857	12894	2.2	5D	-N	3		1225	.58	1.12		(178)	

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	DATE MAY	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. %	
GRP60104	06	1411	1442	1420	N08	W24	.448	12902	4.8	31	-N				2.16				2 2 2 3
BOUL	06	1410	1446	1423	N08	W23	.434	12902	4.9	36	1N		C	1423	3.75	4.06			
RAMY	06	1411	1438	1416	N08	W24	.448	12902	4.8	27	-N	4	C		.56				U S
105 BOUL	06	1418	1446	1430	N11	W58	.862	12894	2.2	28	1F		C	1430	1.29	2.41			3
109 RAMY	06	1512E	1538	1514U	N10	W59	.869	12894	2.2	26D	--N	4	C		.28				DE 1
GRP60110	06	1919	1946	1927	S14	E17	.337	12906	8.1	27	--F				.38				3 2 2 3
BOUL	06	1918	1945	1926	S14	E16	.323	12906	8.0	28	-N		C	1926	.54	.56			
HUAN	06	1920	1924D		S14	E17	.337	12906	8.1	4D	-F	1	P	1920	.21	.22			D
PALE	06	1925E	1934	1927U	S04	E19	.325	12906	8.2	9D	-F	3	V		1.86				U
113 PALE	06	2025	2035	2028	S12	E10	.224	12906	7.6	10	--F	3	C		.36				H 2
GRP60114	06	2219	2229	2221	S12	E09	.211	12906	7.6	10	--F				.25				2 2 2 4
MANI	06	2218E	2228	2218U	S11	E09	.200	12906	7.6	10D	-N	1		2218	.21	.21			
PALE	06	2219	2230	2223	S12	E09	.211	12906	7.6	11	-F	3	C		.28				
GRP60115	06	2246	0018	2311	S17	E32	.561	12915	9.3	92	--N				.26				3 3 3 4
BOUL	06	2239	0018D	2311	S18	E31	.553	12915	9.3	99D	-F		C	2311	.32	.37			
MANI	06	2252	2359D	2314	S15	E34	.578	12915	9.5	67D	-N			2340	.21	.26			
MANI	06	2252	2359D	2259	S15	E34	.578	12915	9.5	67D	-N	1		2259	.21	.26			
MANI	06	2252	2359D	2340	S15	E34	.578	12915	9.5	67D	-N			2314	.21	.26			
PALE	06	2302E	2338D	2309U	S17	E31	.548	12915	9.3	36D	-N	3	V		.26				DE
GRP60120	07	0521	0549	0529	S17	E14	.329	12906	8.3	28	1F				4.71				2 2 2 5
MITK	07	0519	0540	0529	S17	E12	.307	12906	8.1	21	1F		C	0529	2.06	2.20			
MITK	07	0519	0545	0529	S18	E17	.375	12906	8.5	26	1F		C	0529	1.96	2.10			
ABST	07	0522	0556	0528	S18	E17	.375	12906	8.5	34	1F		C	0528	3.15	3.40		74B	F
ABST	07	0524	0552	0528	S17	E12	.307	12906	8.1	28	1F		C	0528	2.25	2.40		83B	F
GRP60121	07	0724	0754	0729	S13	E10	.236	12906	8.1	30	--F				1.37				2 2 2 3
ABST	07	0722	0740	0729	S13	E10	.236	12906	8.1	18	-F		C	0729	1.08	1.10		65	E
BUCA	07	0726	0808		S13	E10	.236	12906	8.1	42	-F		C	0730	1.66	1.70			E
GRP60122	07	0732	0749	0736	S10	E73	.955	12917	12.8	17	-F				.77				2 2 2 4
BUCA	07	0732	0755		S11	E75	.964	12917	12.9	23	-N		C	0739	.55				D
ABST	07	0732	0743	0736	S09	E71	.944	12917	12.6	11	1F		C	0736	.99			83B	DG
	07	1006	1026	NO FLARE PATROL															
123 RAMY	07	1110	1120	1112	S06	W12	.211	12906	6.6	10	--F	3	C		.28				DE H 2
124 RAMY	07	1141	1153	1145	S05	W12	.209	12906	6.6	12	--F	4	C		.65				DE 2
GRP60125	07	1213	1243	1217	S13	E07	.203	12906	8.0	30	-N				1.06				3 3 3 3
RAMY	07	1213	1244	1218	S13	E07	.203	12906	8.0	31	-N	4	C		1.49				F
MCMA	07	1213	1245	1217	S13	E07	.203	12906	8.0	32	-N		C	1217	1.03	1.00			E
HUAN	07	1214	1240	1217	S14	E06	.208	12906	8.0	26	-N	2	C	1217	.67	.68			E
4 STATIONS REPORTING GROUP 60126.					2 STATIONS OBSERVING AND NOT REPORTING.														
GRP60126	07	1256	1347	1309	S12	E07	.189	12906	8.1	51	1N		V		7.11				2 2 2 6
HEND	07	1256	1333		S12	E07	.189	12906	8.1	37	2N		V		11.00				
BOUL	07	1309E	1400D	1309U	S12	E06	.179	12906	8.0	51D	1N		C	1309	3.21	3.23			
60126	07	1248	1335	1252	S14	E07	.217	12906	8.1	47	*-N				1.24				2 2 2 4
HUAN	07	1248	1335	1252	S14	E06	.208	12906	8.0	47	-N	2	C	1252	1.24	1.26			
MCMA	07	1248	1335	1252	S13	E07	.203	12906	8.1	47	-N		C	1252	1.24	1.20			E
GRP60127	07	1453	1509	1455	S01	W28	.471	12904	5.5	16	--N				.63				3 3 3 3
HUAN	07	1451	1510	1455	S03	W28	.469	12904	5.5	19	-N	2	C	1455	.62	.71			
RAMY	07	1453	1513	1456	N03	W29	.496	12904	5.4	20	-N	4	V		.66				DE
MCMA	07	1454	1505	1455	S03	W28	.469	12904	5.5	11	-N		C	1455	.62	.70			E
GRP60128	07	1519	1531	1521	S13	E06	.193	12906	8.1	12	--F				.44				3 3 3 3
MCMA	07	1519	1531	1521	S13	E05	.185	12906	8.0	12	-N		C	1521	.41	.40			E
HUAN	07	1519	1530	1520	S14	E06	.208	12906	8.1	11	-F	2	C	1520	.41	.42			E
RAMY	07	1520E	1529D	1523	S13	E07	.203	12906	8.2	9D	-F	4	V		.50				DE
GRP60129	07	1647E	1715	1652	S14	E18	.352	12915	9.0	28	--F				.33				2 2 2 4
BOUL	07	1647E	1730	1650	S14	E18	.352	12915	9.0	43D	-F		C	1650	.32	.34			
RAMY	07	1653E	1700	1654	S14	E18	.352	12915	9.1	7D	-F	3	V		.33				DE
GRP60130	07	1806	1819	1810	S11	E04	.146	12906	8.1	13	--N				.60				3 3 3 4
PALE	07	1805	1818	1810	S11	E04	.146	12906	8.1	13	-N	3	C		.99				F
MCMA	07	1807	1820	1810	S10	E03	.123	12906	8.0	13	-F		C	1810	.41	.40			E
HUAN	07	1808E	1814D		S12	E05	.170	12906	8.1	6D	-N	1	P	1809	.41	.42			C

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE MAY	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. %	
GRP60131	07	1811	1819	1814	S08	W16	.284	12906	6.6	8	--F				.34				4 4 4 5
RAMY	07	1810	1820D	1814	S08	W15	.268	12906	6.6	10D	-N	2	V		.33				DE
MCMA	07	1811	1817	1814	S06	W16	.278	12906	6.6	6	-F		C	1814	.21	.20			D
HUAN	07	1812	1814D		S08	W15	.268	12906	6.6	2D	-F	1	P	1813	.21	.23			D
PALE	07	1813E	1819	1815U	S08	W16	.284	12906	6.6	6D	-N	3	V		.62				
GRP60133	07	1930	1940	1932	S06	W17	.294	12906	6.5	10	--F				.21				2 2 1 4
MCMA	07	1930	1938	1932	S05	W17	.293	12906	6.5	8	-F		C	1932	.21	.20			DH
HUAN	07	1933E	1942		S07	W16	.281	12906	6.6	9D	-F	1	P						H
135 MCMA	07	2027E	2035		S13	E03	.172	12906	8.1	8D	--F		C	2027	.41	.40			E 3
	07	2211	2213	NO FLARE PATROL															
137 PALE	07	2219E	2231	2222	S06	W18	.311	12906	6.6	12D	--N	3	C		.36				F 3
GRP60138	07	2223	2238	2224	S14	E15	.311	12915	9.1	15	--F				.51				2 2 2 2
BOUL	07	2222	2245E	2223	S14	E15	.311	12915	9.1	23D	-F		C	2223	.75	.78			
PALE	07	2223	2231	2225	S13	E14	.288	12915	9.0	8	-N	3	C		.27				F
GRP60139	07	2301	2315	2309	S10	E04	.132	12906	8.3	14	--N				.24				3 3 2 4
BOUL	07	2301	2307D	2307U	S10	E04	.132	12906	8.3	6D	-F		V	2307		.50			
PALE	07	2304E	2315	2309	S10	E04	.132	12906	8.3	11D	-N	3	C		.27				
MANI	07	2312E	2315	2312U	S11	E03	.139	12906	8.2	3D	-N	2		2312	.21	.21			F
GRP60140	08	0011	0145	0017	S16	E03	.223	12906	8.2	94	1N				4.86				4 3 3 4
MANI	08	0010	0145D	0015	S17	E04	.244	12906	8.3	95D	1N	2		0015	3.30	3.42			F
MITK	08	0012	0044	0020	S16	W02	.220	12906	7.9	32	1N		C	0020	3.40	3.50			F
MITK	08	0012	0047	0019	S17	E07	.262	12906	8.5	35	1N		C	0019	3.20	3.30			F
BOUL	08	0016	0110D	0028	S17	E02	.237	12906	8.2	54D	2N		C	0028	10.71	10.72			
PALE	08	0017E	0145	0017U	S16	E02	.220	12906	8.2	88D	1N	3	C		4.69				DE
GRP60144	08	0448	0539	0522	S12	W01	.149	12906	8.1	51	-F				1.79				2 2 2 3
MANI	08	0448	0515	0449	S11	E00	.131	12906	8.2	28	-N	2		0449	1.34	1.35			H
MANI	08	0514	0546	0518	S12	W01	.149	12906	8.1	32	-N	2		0518	1.86	1.87			F
ABST	08	0524E	0532	0526	S13	E00	.166	12906	8.2	8D	-F		P	0526	1.71	1.70		764	E
ABST	08	0524E	0532	0526	S11	W03	.141	12906	8.0	8D	-F		P	0526	.90	.90		78	D
GRP60145	08	0501	0514	0506	S04	W35	.573	12904	5.6	13	--F				.71				2 2 2 3
MANI	08	0500	0514	0507	S04	W35	.573	12904	5.6	14	-N	2		0507	.52	.63			
ABST	08	0501	0514	0504	S04	W34	.558	12904	5.7	13	-F		C	0504	.90	1.10		696	D
GRP60146	08	0606	0629	0607	N04	E80	.986	12918	14.3	23	-F				.99				2 2 2 3
MANI	08	0606	0627	0606	N04	E79	.983	12918	14.2	21	-N	2		0606	.62	1.56			F
ABST	08	0608E	0630	0608U	N03	E81	.988	12918	14.3	22D	1F		P	0608	1.35			836	EG
	08	1104	1110	NO FLARE PATROL															
	08	1125	1130	NO FLARE PATROL															
GRP60149	08	1233	1249	1234	N03	E77	.975	12918	14.3	16	--F				.61				3 3 3 5
MONT	08	1232	1240	1233	N03	E79	.982	12918	14.4	8	-N		C		.72				
HUAN	08	1233	1237	1234	N04	E75	.967	12918	14.1	4	-F	2	C	1234	.26				D
BOUL	08	1233	1310U	1235	N03	E76	.971	12918	14.2	37D	1F		C	1235	.86	2.62			
GRP60150	08	1546	1554	1548	S05	W40	.642	12904	5.7	8	--F				.40				2 2 2 3
RAMY	08	1545	1553	1548	S05	W40	.642	12904	5.7	8	-N	3	C		.37				DE
BOUL	08	1546	1555D	1548	S04	W40	.642	12904	5.7	9D	-F		C	1548	.43	.56			
GRP60151	08	1839	1851	1841	S09	W19	.337	12906	7.4	12	--N				.51				2 2 2 4
BOUL	08	1837	1855	1841	S09	W18	.321	12906	7.4	19	-N		C	1841	.64	.68			
RAMY	08	1840	1846	1841	S09	W20	.352	12906	7.3	6	-N	3	C		.37				DE H
	08	1955	1957	NO FLARE PATROL															
	08	2059	2100	NO FLARE PATROL															
153 BOUL	08	2129	2155U	2132E	S13	W13	.276	12906	7.9	26D	--F		C	2132	.64	.66			2
	08	2136	2142	NO FLARE PATROL															
GRP60155	09	0208	0229	0213	S12	W15	.295	12906	8.0	21	1N				2.25				4 3 3 5
MANI	09	0200	0215	0210	S13	W15	.304	12906	8.0	15	1N			0215	2.89	3.02			
MANI	09	0200	0210	0204	S13	W15	.304	12906	8.0	10	-F	2		0204	.62	.65			FU
VORO	09	0212	0222	0214	S12	W14	.281	12906	8.0	10	1N		C	0214	2.87	2.93		62	E
MANI	09	0212	0230	0215	S13	W14	.290	12906	8.0	18	1N	2		0215	2.68	2.81			F
TEHR	09	0213	0227	0215	S12	W16	.310	12906	7.9	14	-N	2	C		1.00				F
PALE	09	0224E	0237	0224U	S12	W14	.281	12906	8.0	13D	1F	3	C		2.17				F

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	DATE MAY	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. %	
GRP60156	09	0409	0437	0416	S05	W34	.558	12906	6.6	28	--N				.64				2 2 2 5
MANI	09	0408	0435	0412	S05	W35	.573	12906	6.5	27	-N	2		0412	.83	1.01			FH
TEHR	09	0410	0438	0419	S04	W33	.544	12906	6.7	28	-N	3	C		.45				F
157 ABST	09	0624	0645	0629	S09	W16	.290	12906	8.1	21	--F		C	0629	.99	1.00		728	D 2
GRP60158	09	0825	0843	0828	S05	W36	.587	12906	6.7	18	--N				.54				3 3 3 4
TEHR	09	0824	0846	0827	S04	W36	.587	12906	6.6	22	-N	3	C		.28				DE
MEUD	09	0826	0840	0828U	S05	W36	.587	12906	6.7	14	-F		C	0828	.52	.60			E
MANI	09	0829E	0842	0829U	S05	W37	.601	12906	6.6	13D	-N	1		0829	.83	1.03			F
	09	1005	1012	NO FLARE PATROL															
GRP60159	09	1036	1101	1047	S05	W38	.615	12906	6.6	25	1B				2.31				4 4 4 5
ARCE	09	1032E	1100		S04	W39	.628	12906	6.5	28D	-B		G	1040	.59	.80			F
KHAR	09	1038E	1103	1045U	S05	W38	.615	12906	6.6	25D	2N		C		4.54	5.80			E
RAMY	09	1039	1102	1046	S05	W38	.615	12906	6.6	23	1B	4	C		2.88				F H
MEUD	09	1049E	1100	1049U	S05	W37	.601	12906	6.7	11D	-N		C	1049	1.24	1.50			EH
GRP60160	09	1301	1325	1304	S04	W37	.601	12906	6.8	24	--F				2.05				3 3 2 6
BOUL	09	1259	1343	1302	S04	W39	.628	12906	6.6	44	1F		C	1303	3.64	4.69			
RAMY	09	1302	1318	1305	S05	W39	.628	12906	6.6	16	-F	4	C		.46				DE H
HUAN	09	1307E	1313		S04	W34	.558	12906	7.0	6D	-F	1	P						
GRP60161	09	1409	1427	1413	S05	W40	.642	12906	6.6	18	-N				.78				5 5 5 5
HUAN	09	1407	1422	1413	S05	W40	.642	12906	6.6	15	-N	2	C	1413	.57	.75			E
BOUL	09	1407	1426	1412	S04	W40	.642	12906	6.6	19	-N		C	1412	1.50	1.95			
CATA	09	1410E	1435D	1415	S06	W40	.642	12906	6.6	25D	-B	1		1415	.87	1.13		(240)	
MONT	09	1410	1414D	1412	S04	W40	.642	12906	6.6	4D	-N		C		.52				E
RAMY	09	1412E	1425	1415	S05	W39	.628	12906	6.7	13D	-N	2	C		.46				DE
GRP60162	09	1619	1653	1628	S05	W40	.642	12906	6.7	34	1N				2.06				3 3 3 5
BOUL	09	1613	1715	1624	S04	W40	.642	12906	6.7	62	1N		C	1624	3.32	4.33			
HUAN	09	1624	1638	1625	S05	W40	.642	12906	6.7	14	-N	1	C	1625	.83	1.07			E
CATA	09	1630E	1645	1635	S05	W41	.655	12906	6.6	15D	1N	3		1635	2.02	2.68		(195)	
	09	2139	2150	NO FLARE PATROL															
163 BOUL	09	2153E	2211	2155	S13	W32	.546	12906	7.5	18D	--F		C	2155	.32	.38			3
164 MANI	09	2245E	2255	2246	S05	W45	.706	12906	6.6	10D	-N	1		2246	1.13	1.59			1
	09	2308	2314	NO FLARE PATROL															
165 BOUL	09	2335E	0002D	2337	S03	W43	.681	12906	6.8	27D	--F		C	2337	.43	.59			3
GRP60166	10	0809	0817	0811	S02	W74	.961	12904	4.8	8	--F				.43				3 3 3 6
MANI	10	0807	0815	0811	S02	W73	.956	12904	4.9	8	-F	2		0811	.62	1.38			
MONT	10	0809	0816	0812	S01	W74	.961	12904	4.8	7	-F		C		.21				
CATA	10	0810	0820	0810	S03	W74	.961	12904	4.8	10	-N	3		0810	.46			(158)	
GRP60167	10	1428	1441	1430	S05	W52	.787	12906	6.7	13	--F				.36				3 3 2 8
RAMY	10	1427	1440	1430	S05	W54	.808	12906	6.6	13	-F	3	C		.31				DE
MONT	10	1428	1451	1432	S06	W50	.765	12906	6.9	23	-N		C		.41				E
HUAN	10	1429	1433	1429	S05	W53	.797	12906	6.6	4	-F	2	C						
	10	1944	1948	NO FLARE PATROL															
	10	2053	2054	NO FLARE PATROL															
169 BOUL	10	2341	0005	2347	S13	W45	.714	12906	7.6	24	--F		C	2347	.64	.90			2
	11	0148	0153	NO FLARE PATROL															
	11	0215	0225	NO FLARE PATROL															
170 PALE	11	0217E	0219D	0217U	S13	W47	.737	12906	7.6	2D	--F	1	V		.83				2
171 TEHR	11	0450	0517	0502	S14	W58	.850	12906	6.9	27	-N	3	C		.55				DE 3
GRP60172	11	0810	0822	0814	S10	W45	.709	12906	8.0	12	--N				.59				3 3 3 6
TEHR	11	0807	0820	0813	S11	W44	.699	12906	8.0	13	-N	3	C		.73				F
MONT	11	0812	0824	0814	S09	W48	.744	12906	7.7	12	-N		C		.41				E
MONT	11	0813	0818	0814	S11	W41	.661	12906	8.3	5	-N		C		.21				
ARCE	11	0814E	0823D		S08	W48	.743	12906	7.7	9D	-N		P	0814	.42	.60			

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	DATE MAY	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. %	
GRP60175	11	1216	1226	1218	S10	W31	.523	12915	9.2	10	--N				.66				3 3 3 5
HUAN	11	1214	1224	1217	S10	W30	.508	12915	9.3	10	-F	1	C		.41	.48			
MONT	11	1215	1231	1217	S10	W30	.508	12915	9.3	16	-N		C		.41				D
MONT	11	1217	1225	1219	S10	W33	.551	12915	9.0	8	-N		C		.21				D
CATA	11	1220	1230	1220	S11	W32	.540	12915	9.1	10	-N	3		1220	1.16	1.37		(158)	
GRP60177	11	1320	1333	1323	S14	W27	.481	12915	9.5	13	--F				.33				3 3 3 6
BOUL	11	1319	1339	1323	S15	W27	.487	12915	9.5	20	-F		C	1323	.43	.48			
MCMA	11	1320	1330	1320	S12	W28	.486	12915	9.5	10	-F		C	1320	.31	.40			E
HUAN	11	1320	1330	1325	S15	W27	.487	12915	9.5	10	-F	1	C		.26	.29			D
GRP60178	11	1546	1607	1555	S14	W65	.906	12906	6.8	21	--F				.67				2 2 2 4
BOUL	11	1542	1606	1554	S13	W64	.899	12906	6.9	24	1F		C	1554	.96	2.21			
RAMY	11	1549	1608	1555	S14	W65	.906	12906	6.8	19	-F	4	C		.37				DE
	12	0855	0856	NO FLARE PATROL															
	12	0900	0905	NO FLARE PATROL															
GRP60182	12	1452	1456	1453	S06	W87	.998	12906	6.1	4	--F								2 2 0 4
HUAN	12	1452	1456	1453	S06	W86	.997	12906	6.2	4	-F	1	C						
MCMA	12	1455E	1456		S05	W88	.999	12906	6.0	1D	-N		P	1455					D
GRP60183	12	1604	1614	1606	S12	W83	.992	12906	6.4	10	--F								4 4 0 5
RAMY	12	1603	1613	1605	S15	W80	.983	12906	6.7	10	-N	4	C						DE
MCMA	12	1604	1612	1607	S13	W85	.995	12906	6.3	8	-F		C	1607					D
BOUL	12	1604	1620	1605	S06	W80	.984	12906	6.7	16	-F		V	1605		1.30			
HUAN	12	1604	1612	1608	S14	W86	.997	12906	6.2	8	-F	1	C						
GRP60184	12	1742	1749	1746	S06	W85	.996	12906	6.4	7	--F								2 2 0 5
RAMY	12	1740	1746D		S06	W82	.990	12906	6.6	6D	-N	3	C						DE
HUAN	12	1744	1749	1746	S06	W88	.999	12906	6.1	5	-F	1	C						
GRP60185	12	2140	2238	2157	S17	W63	.894	12906	8.2	58	1N				3.13				2 2 2 2
BOUL	12	2139	2244	2157	S18	W62	.887	12906	8.3	65	2N		C	2157	4.82	10.41			
PALE	12	2141	2231	2156U	S16	W63	.893	12906	8.2	50	1N	3	C		1.44				DE
PALE	12	2141	2231	2210U	S16	W63	.893	12906	8.2	50	1N	3	C		1.18				DE
186 PALE	12	2213	2234	2219	S13	W47	.737	12915	9.4	21	--N	3	C		.45				DE 3
187 PALE	12	2213	2234	2225	S13	W47	.737	12915	9.4	21	--N	3	C		.55				DE 3
GRP60189	12	2253	2321	2303	S41	W81	.988	12906	6.9	28	--F				.35				2 2 2 3
BOUL	12	2253	2327	2308	S40	W82	.990	12906	6.8	34	-F		C	2308	.43	1.48			
PALE	12	2257E	2315	2258U	S41	W80	.986	12906	7.0	18D	-F	3	V		.26				
GRP60191	13	0031	0125	0042	S16	W65	.908	12906	8.1	54	1F				1.53				2 2 2 4
BOUL	13	0023	0045D	0041	S16	W65	.908	12906	8.1	22D	1F		C	0041	1.71	4.07			
PALE	13	0038	0125	0043	S15	W65	.907	12906	8.2	47	-F	3	C		.81				F
PALE	13	0038	0125	0102	S15	W65	.907	12906	8.2	47	1N	3	C		1.35				F
193 ARCE	13	0940E	1000D		S13	W53	.802	12915	9.4	20D	--F		C	0945	.33	.60			T 4
GRP60194	13	1145E	1157	1152	S12	W63	.891	12915	8.8	12	-N				.76				2 2 2 6
ARCE	13	1145E	1155D		S11	W63	.891	12915	8.8	10D	-F		C	1150	.36	.80			
CATA	13	1147E	1157D	1152	S13	W63	.891	12915	8.8	10D	1B	3		1152	1.16	2.55		(224)	
GRP60195	13	1357	1414	1400	S11	W57	.839	12915	9.3	17	--F				.49				4 4 4 5
MONT	13	1356	1412	1358	S10	W58	.848	12915	9.2	16	-N		C		.41				D
RAMY	13	1356	1412	1400	S11	W57	.839	12915	9.3	16	-F	3	C		.28				DE
BOUL	13	1356	1417	1402	S11	W56	.830	12915	9.4	21	-F		C	1402	.64	1.15			
UPIC	13	1401	1407U		S11	W56	.830	12915	9.4	6D	-F			1402	.63				
	13	1850	1855	NO FLARE PATROL															
	13	1935	1937	NO FLARE PATROL															
	13	2102	2104	NO FLARE PATROL															
GRP60196	13	2118	2328	2128	S13	W66	.913	12915	8.9	130	2N				4.02				3 2 2 3
BOUL	13	2115E	2328D	2129U	S11	W64	.898	12915	9.1	133D	3N		C	2129	6.96	16.00			
HUAN	13	2120	2221D	2126	S14	W67	.920	12915	8.9	61D	1N	1	C		1.08				
PALE	13	2131E	2148D	2139U	S13	W65	.906	12915	9.0	17D	2N	1	V		6.19				F
	13	2120	2129	NO FLARE PATROL															
	14	0255	0258	NO FLARE PATROL															
	14	0445	0447	NO FLARE PATROL															

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE MAY	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. %	
	14	0448	0450	NO FLARE PATROL															
	14	0453	0458	NO FLARE PATROL															
	14	0549	0558	NO FLARE PATROL															
	14	0845	0857	NO FLARE PATROL															
	15	0111	0121	NO FLARE PATROL															
	15	0127	0141	NO FLARE PATROL															
197 MANI	15	0200	0215	0203	S13	W85	.995	12915	8.7	15	-N	2		0203	.52	1.47			1
	15	0229	0230	NO FLARE PATROL															
	15	0545	0600	NO FLARE PATROL															
	15	0642	0705	NO FLARE PATROL															
GRP60198	15	1020	1042	1027	S10	W83	.992	12915	9.2	22	-B				.64				2 2 2 4
MONT	15	1020	1026	1023	S08	W86	.997	12915	9.0	6	-N		C		.21				D
MONT	15	1021	1042	1027	S11	W80	.984	12915	9.4	21	-N		C		.41				DK
ARCE	15	1025E	1035D		S11	W83	.992	12915	9.2	100	-B		P	1025	.66				B
199 HUAN	15	1859	1902	1900	N06	W17	.327	12918	14.5	3	--F	1	C		.21	.22			H 3
GRP60201	16	2309	0018	2337	N07	W43	.694	12918	13.7	69	--F				.54				2 1 1 3
BOUL	16	2309	0018	2337	N07	W43	.694	12918	13.7	69	-F		C	2337	.54	.73			
PALE	16	2341E	2355D	2353U	N08	W43	.697	12918	13.8	140	-N	2	C		.72				DE
202 PALE	17	0307E	0311D	0307U	N07	W45	.718	12918	13.8	40	--F	1	C		.27				F 3
GRP60204	17	1835	1855	1840	N05	W54	.814	12918	13.7	20	--F				.43				2 2 2 3
PALE	17	1829E	1853	1837U	N06	W53	.805	12918	13.8	240	-F	1	C		.55				
HUAN	17	1841	1856	1842	N04	W55	.823	12918	13.7	15	-F	1	C		.31	.53			
205 PALE	17	1921	1929	1925	N08	W54	.818	12918	13.8	8	--F	1	C		.36				2
GRP60211	18	2052	2109	2059	N05	W71	.947	12918	13.5	17	--F				.37				2 2 1 5
HUAN	18	2049	2103	2058	N05	W72	.953	12918	13.5	14	-F	1	C						
RAMY	18	2054	2114	2059	N05	W69	.936	12918	13.7	20	-F	3	C		.37				
	19	0607	0608	NO FLARE PATROL															
	19	0619	0624	NO FLARE PATROL															
GRP60213	19	1644	1700	1651	N06	W77	.976	12918	13.9	16	--F				.64				2 2 1 6
BOUL	19	1640E	1705	1652	N07	W76	.972	12918	14.0	250	-N		C	1652	.64	1.96			
HUAN	19	1648	1655	1650	N05	W78	.979	12918	13.8	7	-F	1	C						
214 BOUL	19	2324	2331	2326	N07	W78	.979	12918	14.1	7	--F		C	2326	.21	.69			3
	21	0221	0246	NO FLARE PATROL															
	21	0334	0336	NO FLARE PATROL															
GRP60215	21	2007	2025	2011	S14	E21	.406	12951	23.4	18	--F				.27				2 2 2 4
PALE	21	2004	2016D	2011	S12	E21	.392	12951	23.4	120	-N	3	C		.27				F
MCMA	21	2009	2025	2011	S15	E21	.414	12951	23.4	16	-F		C	2011	.26	.30			D
	22	1651	1654	NO FLARE PATROL															
	23	0100	0115	NO FLARE PATROL															
	23	0203	0210	NO FLARE PATROL															
	23	0226	0233	NO FLARE PATROL															
	23	0235	0246	NO FLARE PATROL															
	23	2150	2156	NO FLARE PATROL															
	23	2209	2230	NO FLARE PATROL															
	23	2333	2345	NO FLARE PATROL															
	23	2346	2353	NO FLARE PATROL															

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE MAY	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. %	
	23	2357	0012	NO FLARE PATROL															
	24	0155	0159	NO FLARE PATROL															
	25	0302	0303	NO FLARE PATROL															
GRP60221	25	1741	1759	1747	S16	W28	.517	12968	23.6	18	--F				.27				2 2 2 5
RAMY	25	1741	1749	1744	S16	W28	.517	12968	23.6	8	-F	3	C		.33				DE
BOUL	25	1748E	1809U	1750	S15	W28	.511	12968	23.6	21D	-F		C	1750	.21	.24			
222 HUAN	25	1828	1836	1831	N16	W49	.782	12967	22.1	8	--F	1	C		.26	.41			2
223 HUAN	25	1850	1855	1854	N17	W49	.785	12967	22.1	5	--F	1	C						1
	25	1919	1928	NO FLARE PATROL															
224 HUAN	25	1929	1934	1931	N17	W51	.805	12967	22.0	5	--F	1	C						3
	25	2107	2108	NO FLARE PATROL															
	25	2112	2114	NO FLARE PATROL															
	25	2203	2253	NO FLARE PATROL															
	25	2259	2314	NO FLARE PATROL															
	25	2342	2345	NO FLARE PATROL															
225 ABST	26	0520	0525	0521	S15	W34	.591	12968	23.7	5	--F		C	0521	1.35	1.70			EV 4
GRP60227	26	1025	1220	1028	S15	W38	.641	12968	23.6	115	-N				1.07				2 2 2 5
MEUD	26	1025	1040	1025U	S14	W38	.638	12968	23.6	15	-F		C	1025	.41	.50			E
MEUD	26	1025	1040	1031U	S14	W38	.638	12968	23.6	15	-F		C						
CATA	26	1030E	1220D	1030	S16	W37	.633	12968	23.7	110D	1B	3		1030	1.73	2.24		(209)	
	26	1942	1946	NO FLARE PATROL															
	26	2237	2240	NO FLARE PATROL															
GRP60233	27	0834	0846	0837	S14	W50	.777	12968	23.6	12	-N				.65				7 7 5 9
LOCA	27	0826	0844	0830	S15	W48	.758	12968	23.8	18	-N		V		.63	1.00			
WENO	27	0832	0844		S13	W50	.776	12968	23.6	12	-N								
ATHN	27	0835	0859	0837	S14	W52	.798	12968	23.5	24	-N	3	C		.83				F
MONT	27	0835	0841	0836	S15	W50	.779	12968	23.6	6	-N		C		.41				D
ZURI	27	0836	0844	0836	S13	W51	.786	12968	23.5	8	-N		C		.84	1.30			
HURB	27	0837	0852	0837	S14	W47	.745	12968	23.8	15	-B						2.32		DT
MEUD	27	0838E	0841		S14	W51	.788	12968	23.5	3D	-N		C	0838	.52	.80			C
GRP60242	27	1523	1546	1528	S16	W52	.802	12968	23.7	23	--N				.46				6 6 6 8
MCMA	27	1520	1535	1527	S16	W50	.781	12968	23.9	15	-N		C	1527	.31	.50			D
HUAN	27	1520	1528D		S17	W53	.813	12968	23.7	8D	-N	1	P		.36	.62			
MONT	27	1520	1544	1527	S16	W52	.802	12968	23.7	24	-B		C		.72				E
BOUL	27	1521	1609	1527U	S15	W54	.819	12968	23.6	48	-F		C	1527	.21	.36			
RAMY	27	1526	1537	1528	S17	W51	.794	12968	23.8	11	-F	4	C		.56				DE
CATA	27	1530	1545	1530	S16	W52	.802	12968	23.7	15	-B	3		1530	.58	.97		(269)	
MONT	27	1602	1647	1616	S15	W53	.810	12968	23.7	45	-N		C		.21				OK
245 RAMY	27	1716	1725D	1720	S14	W55	.827	12968	23.6	9D	--F	4	C		.37				DE 2
GRP60246	27	1728	1755	1730	S13	E81	.988	12972	2.8	27	-N				.45				2 2 2 4
BOUL	27	1723	1805	1728U	S13	E79	.982	12972	2.6	42	-N		C	1728	.54	1.74			
BOUL	27	1723	1805	1728U	S13	E79	.982	12972	2.6	42	-F		C	1728	.54	1.74			
PALE	27	1732	1745	17323	S13	E83	.992	12972	3.0	13	-N	3	C		.36				DE
247 PALE	27	1741	1751	1743	S15	W54	.819	12968	23.7	10	--F	3	C		.27				DE 3
248 PALE	27	1846	1855D	1849	S13	W57	.844	12968	23.5	9D	--F	2	C		.63				F 3
249 PALE	27	1934E	1938D	1935	S15	W56	.838	12968	23.6	4D	--F	2	C		.63				F 2
	27	1952	1957	NO FLARE PATROL															
250 PALE	27	2003	2014D	2009U	S13	E87	.998	12972	3.4	11D	--F	2	C		.36				1
251 PALE	27	2111E	2126	2125	S18	W53	.815	12968	23.9	15D	--N	2	V		.26				DE 1
	27	2129	2135	NO FLARE PATROL															
	27	2150	2223	NO FLARE PATROL															

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE MAY	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. %	
252 PALE	27	2223E	2231D	2231U	S17	W57	.850	12968	23.7	8D	-N	2	V		.83				1
	27	2232	2244	NO FLARE PATROL															
	27	2249	2307	NO FLARE PATROL															
	27	2311	2336	NO FLARE PATROL															
	27	2339	0003	NO FLARE PATROL															
	28	0006	0043	NO FLARE PATROL															
	28	0045	0053	NO FLARE PATROL															
	28	2018	2030	NO FLARE PATROL															
262 HUAN	28	2142	2153	2144	S15	W70	.942	12968	23.7	11	--F	1	C		.21				D 2
264 ABST	29	0844	0851D	0847	S14	E66	.917	12972	3.3	7D	1F		P	0847	.90	2.10			DG 3
	29	2017	2024	NO FLARE PATROL															
GRP60265	30	0720	0739	0731	S24	E90	1.000	12977	6.1	19	1B				1.37				4 2 2 7
CATA	30	0720	0730	0725	S22	E90	1.000	12977	6.1	10	2N	3		0725	2.31			(162)	
UPIC	30	0724E	0748U		S25	E90	1.000	12977	6.1	24D	1B			0734	.42				
ABST	30	0728E	0737D	0728U	S14	E89	1.000	12977	6.0	9D	1N		P	0728	.90				ADJ
MONT	30	0739E	0744D	0739	S12	E87	.999	12977	5.8	5D	-N		C		.41				D
266 MONT	30	0824	0843	0826	S12	E87	.999	12977	5.9	19	-N		C		.41				D 4
267 MONT	30	0847	0908	0849	S12	E87	.999	12977	5.9	21	-N		C		.41				E 4
GRP60270	30	1443	1514	(1452)	S17	E87	.998	12977	6.1	31	-F				.39				2 2 2 6
HUAN	30	1443	1514		S13	E88	.999	12977	6.2	31	-F	1	C		.36				
UPIC	30	1452E	1506U		S20	E86	.997	12977	6.1	14D	1N			1452	.42				
GRP60271	30	1606	1620	1610	S10	E80	.985	12977	5.7	14	--F				.34				3 3 2 5
RAMY	30	1605	1625	1609	S10	E79	.982	12977	5.6	20	-F	3	C		.37				DE
MCMA	30	1605	1619	1608	S11	E80	.985	12977	5.7	14	-F		C	1608					E
HUAN	30	1607	1617	1613	S10	E80	.985	12977	5.7	10	-F	1	C		.31				
274 MCMA	30	1835	1840	1837	S11	E78	.978	12977	5.6	5	--F		C	1837					D 3
275 RAMY	30	1844	1908	1850	S12	E89	1.000	12977	6.5	24	-N	3	C						DE 2
	30	1909	1934	NO FLARE PATROL															
	30	1939	2014	NO FLARE PATROL															
	30	2022	2031	NO FLARE PATROL															
276 HUAN	30	2042	2046	2043	S13	E88	.999	12977	6.5	4	--F	1	C		.26				1
	30	2156	2213	NO FLARE PATROL															
	30	2220	2239	NO FLARE PATROL															
	30	2249	2252	NO FLARE PATROL															
277 MANI	30	2252E	2310	2252U	S14	E84	.994	12977	6.3	18D	1N	1		2252	.83	2.30			2
	31	0018	0025	NO FLARE PATROL															
	31	0103	0113	NO FLARE PATROL															
	31	0114	0121	NO FLARE PATROL															
	31	0128	0142	NO FLARE PATROL															
	31	0148	0159	NO FLARE PATROL															
278 MANI	31	0159E	0207D	0205	S16	E80	.985	12977	6.1	8D	1N	1		0205	.93	2.38			1
	31	0207	0222	NO FLARE PATROL															
	31	0307	0313	NO FLARE PATROL															
279 MANI	31	0329E	0333D	0331	S14	E78	.979	12977	6.0	4D	--F	1		0331	.62	1.56			2

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OBSERVATORY	OBSERVED UT DATE MAY	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
283 CATA	31	0955E	1050	1020	S15	E75	.967	12977	6.0	550	1B	3		1020	1.73			(214)	2
GRP60284	31	1133	1246	1241	S13	E76	.971	12977	6.2	73	1F				1.70				2 1 1 6
KHAR	31	1133E	1246D		S13	E76	.971	12977	6.2	730	1F		C	1152	1.70				E
HUAN	31	1225	1301	1241	S14	E75	.967	12977	6.1	36	-N	1	C		.26				D
GRP60285	31	1143	1228	1158	S08	E14	.270	12970	1.5	45	-F				1.69				3 3 3 6
KHAR	31	1143	1225	1152U	S07	E14	.263	12970	1.5	42	1F		C	1152	2.27	2.30			EG
CATA	31	1200E	1235	1200	S08	E14	.270	12970	1.5	350	-N	3		1200	1.44	1.50		(195)	
ATHN	31	1202E	1223	1202	S09	E15	.293	12970	1.6	210	-F			1202	1.35	1.31			
288 HUAN	31	1416	1426	1420	S14	E75	.967	12977	6.2	10	--F	1	C		.26				D 4
289 HUAN	31	1531	1538	1533	S13	E72	.953	12977	6.0	7	--F	1	C		.26				D 3
GRP60290	31	1542	1550	1544	S17	E57	.851	12977	4.9	8	--F				.57				2 2 2 3
HUAN	31	1540	1554	1544	S16	E56	.841	12977	4.9	14	-F	1	C	1544	.52	.98			E
MCMA	31	1543	1545		S17	E57	.851	12977	4.9	2	-F		C	1543	.62	1.20			E
291 HUAN	31	1727	1729	1727	S14	E74	.963	12977	6.3	2	--F	1	C		.26				D 1
GRP60292	31	2023	2031	2028	S17	E72	.954	12977	6.2	8	--F				.23				2 2 2 2
HUAN	31	2023	2031	2028	S19	E75	.968	12977	6.5	8	-F	1	C		.26				D
PALE	31	2026E	2031	2027U	S14	E69	.936	12977	6.0	5D	-N	2	C		.19				
	31	2121	2132	NO FLARE PATROL															
	31	2137	2214	NO FLARE PATROL															
	31	2252	2300	NO FLARE PATROL															
	31	2307	2315	NO FLARE PATROL															
	31	2322	0104	NO FLARE PATROL															

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

In the importance column "--" signifies the subflare has been confirmed by the 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
740501	106.24	23.9	740510	0.00	23.9	740523	0.00	22.3
740502	22.06	24.0	740511	1.60	23.8	740524	0.00	23.9
740503	30.08	23.5	740512	51.71	23.9	740525	0.00	22.6
740504	0.00	19.8	740513	100.69	23.7	740526	6.04	23.9
740505	4.05	23.2	740514	0.00	23.5	740527	7.30	21.9
740506	41.64	22.7	740515	3.59	23.0	740528	0.00	23.0
740507	392.94	23.6	740519	0.00	23.9	740529	4.27	23.9
740508	146.74	23.7	740521	0.00	23.5	740530	17.23	22.2
740509	87.23	23.6	740522	0.00	24.0	740531	52.40	20.1

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

Hα SOLAR FLARES
Unconfirmed
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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE MAY	START	END	MAX. PHASE	APPROX. LAT.	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. %	
039 MANI	01	0357E	0410	0357U	N08	W16	.343	12901	28.0	13D	-N	1		0357	.41	.44			4
GRP60050	01	2306	2312	2306	S15	E85	.995	12906	8.3	6	-N				.29				2 2 2 7
MANI	01	2305E	2315D	2306U	S14	E85	.995	12906	8.3	10D	-N	1		2306	.31	.88			
PALE	01	2306	2308	23063	S15	E85	.995	12906	8.3	2	-N	3	V		.26				
051 MANI	02	0239E	0255	0239U	N08	E36	.614	12902	4.8	16D	-F	1		0239	.41	.53			F 4
052 MANI	02	0354	0423D	0358	N07	E36	.610	12902	4.9	29D	-F	2		0358	.52	.52			F 4
053 MANI	02	0415	0423	0417	S06	E62	.881	12906	6.8	8	-N	2		0417	.41	.77			4
054 MANI	02	0451	0505	0457	S13	E81	.986	12906	8.3	14	-F	2		0457	.52	1.36			4
055 MANI	02	0604	0625	0608	S13	E79	.979	12906	8.2	21	-N	2		0608	.62	1.56			3
060 MCMA	02	1354	1402	1357	S07	E62	.881	12906	7.2	8	-F		C	1357	.26	.60			O 5
064 BOUL	02	1937E	1946	1940	N06	W45	.720	12901	27.4	9D	-F		C	1940	1.18	1.67			4
073 ABST	03	0750	0815	0753	S06	E45	.705	12906	6.7	25	-F		C	0753	.90	1.30			OJ 6
078 HUAN	03	1810	1821	1817U	S12	E61	.873	12906	8.3	11	-F	1	C	1817	.21	.42			O 4
084 MANI	04	0049	0115D	0058	S10	E40	.645	12906	7.0	26D	-F	2		0058	.31	.41			F 4
093 PALE	05	1732	1743	1733	S15	E29	.510	12906	7.9	11	-F	3	C		.45				F 4
097 MANI	06	0354	0423D	0359	S04	W07	.122	12904	5.6	29D	-F	2		0359	.62	.62			F 5
098 MANI	06	0448E	0456	0448U	N04	W61	.878	12913	1.6	8D	-N	1		0448	.52	.96			5
101 MANI	06	0814E	0835D	0814U	N10	W54	.824	12894	2.3	21D	-N	1		0814	.41	.69			3
106 HUAN	06	1427E	1428D		S05	W14	.242	12904	5.6	1D	-F	1	P						4
107 BOUL	06	1449	1505	1452	S14	E20	.379	12906	8.1	16	-F		C	1452	.43	.46			4
108 BOUL	06	1450	1458	1452	N10	W58	.860	12894	2.3	8	-F		C	1452	.21	.40			4
111 BOUL	06	1938	2039	1955	S09	E79	.980	12917	12.7	61	-F		C	1955	.32	1.05			5
112 HUAN	06	1950	1953	1952	S07	W03	.078	12906	6.6	3	-F	1	C	1952	.26	.26			O 5
116 PALE	07	0003E	0008D	0003U	S14	E15	.311	12906	8.1	5D	-N	3	C		.45				F 4
117 PALE	07	0014	0019D	0019D	S16	E01	.216	12906	7.1	5D	1N	3	V		3.30				UDE 5
118 MANI	07	0126	0133	0128	S04	W22	.374	12904	5.4	7	-N	2		0128	.41	.45			F 4
119 PALE	07	0235	0244	0237	S12	E10	.225	12906	7.9	9	-F	2	C		.63				F 5
132 BOUL	07	1848	1901	1850	S07	W16	.281	12906	6.6	13	-F		C	1850	.64	.67			4
134 BOUL	07	2010D	2016	2010	S11	E17	.316	12915	9.1	6D	-F		V	2010		.40			3
136 HUAN	07	2152	2155D	2154	S07	W16	.281	12906	6.7	3D	-F	1	P	2154	.21	.22			O 5
141 MANI	08	0150	0201	0152	S11	E02	.136	12906	8.2	11	-F	2		0152	.31	.31			5
142 MANI	08	0237	0255	0244	S06	W21	.360	12906	6.5	18	-N	2		0244	.72	.78			F 3
143 MANI	08	0258	0320	0259	S11	E01	.132	12906	8.2	22	-F	2		0259	.83	.83			3
147 BOUL	08	1218	1230	1219	S13	W08	.215	12906	7.9	12	-F		V	1219		.50			5
148 BOUL	08	1225U	1240	1227	S04	W38	.615	12904	5.7	15D	-F		C	1227	.32	.41			4
152 PALE	08	1844E	1848D	1845U	S08	E18	.317	12915	10.1	4D	-F	3	V		.26				F 3
154 MANI	09	0136	0153	0139	S12	W01	.151	12915	9.0	17	-N	2		0139	.62	.62			F 5
GRP60168	10	1501	1528	1506	S13	E30	.518	12917	12.9	27	-F				.50				2 2 2 7
RAMY	10	1500	1528	1505	S12	E30	.514	12917	12.9	28	-F	3	C		.37				DE
MONT	10	1501	1528	1506	S13	E29	.504	12917	12.8	27	-N		C		.62				E
173 MONT	11	1103	1121	1105	S06	W64	.897	12906	6.7	18	-F		C		.21				4
174 MONT	11	1202	1208	1205	S07	W61	.873	12906	6.9	6	-N		C		.41				O 5

Hα SOLAR FLARES
Unconfirmed
MAY 1974

OBSERV-ATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE		COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE MAY	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY						TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
176 HUAN	11	1313	1317	1315	S10	W30	.508	12915	9.3	4	-F	1	C						6
179 BOUL	11	2008	2025	2011	S15	W67	.920	12906	6.8	17	-N		C	2011	.21	.53			4
GRP60180	12	0027	0046	0032	S14	W36	.604	12915	9.3	19	-F				.20				2 2 2 6
MANI	12	0025	0043	0032U	S15	W36	.608	12915	9.3	18	-F	2		0032	.21	.26			
PALE	12	0028	0048	0032	S13	W35	.588	12915	9.4	20	-F	3	C		.19				F
181 PALE	12	0218	0225	0220	N12	W20	.421	12920	10.6	7	-F	3	C		.27				F 4
188 PALE	12	2240	2246D	2241	S10	W47	.733	12915	9.4	6D	-F	3	V		.31				F 3
190 PALE	12	2350E	2358	2352U	S41	W80	.986	12906	7.0	8D	-F	3	V		.26				5
192 ABST	13	0614	0625	0619	S09	W54	.809	12915	9.2	11	-F		C	0619	.90	1.50			D 4
200 HUAN	16	1512	1519	1512	N05	W37	.612	12918	13.9	7	-F	1	C						6
203 BOUL	17	1533	1548	1537	N08	W51	.787	12918	13.8	15	-F		C	1537	.21	.34			4
206 PALE	17	2347E	2355	2347U	N06	W51	.784	12918	14.2	8D	-F	2	C		.19				6
207 HUAN	18	1256	1310	1300U	N05	W65	.909	12918	13.7	14	-F	1	C						5
208 HUAN	18	1341	1401	1342U	N06	W65	.910	12918	13.7	20	-F	1	C						6
209 HUAN	18	1448	1505	1452U	N05	W66	.916	12918	13.7	17	-F	1	C		.31				4
210 HUAN	18	1849	1858	1852	N05	W68	.929	12918	13.7	9	-F	1	C						4
212 BOUL	19	1337	1402E	1345	N21	W74	.970	12925	14.0	25D	-F		C	1345	.21	.63			7
216 RAMY	21	2009	2024	2012	S13	E25	.455	12968	23.7	15	-F	3	C		.28				DE 5
217 RAMY	23	1435	1455D	1443	N09	E28	.499	12940	25.7	20D	-F	3	C		.19				DE 6
218 ABST	24	0534	0600D	0538	S18	W36	.628	12948	21.5	26D	-F		P	0538	.90	1.10			E 5
219 MCMA	25	1524	1531	1526	S03	E77	.974	12970	31.4	7	-F		C	1526					D 6
220 MCMA	25	1702	1714		S11	E90	1.000	12970	1.5	12	1N		P	1710					6
226 ABST	26	0645	0710	0646	S16	W34	.595	12968	23.7	25	-F		C	0646	.90	1.10			EHV 5
GRP60228	26	1520	1533	1527	S03	E77	.974	12970	1.4	13	-N				.32				2 2 2 9
RAMY	26	1519	1532	1526	S02	E77	.974	12970	1.4	13	-N	3	C		.31				DE
BOUL	26	1521	1533	1527	S04	E76	.970	12970	1.3	12	-N		C	1527	.32	.99			
229 MANI	27	0317E	0325D	0321U	S15	W46	.736	12968	23.7	8D	-F	2		0321	.41	.62			F 4
230 ABST	27	0644E	0652D	0645U	S14	W50	.777	12968	23.5	8D	1F		P	0645	.90	1.20			E 6
231 HURB	27	0710	0738	0716	S16	W48	.761	12968	23.7	28	-B						3.35		D 9
GRP60232	27	0741	0803	0749	S17	W48	.763	12968	23.7	22	-F				.21				1 1 1 9
MONT	27	0741	0752	0749	S16	W50	.781	12968	23.6	11	-F		C		.21				
MONT	27	0741	0803D	0749	S18	W47	.755	12968	23.8	22D	-F		C		.21				
GRP60234	27	0928	0939	(0930)	S16	W49	.771	12968	23.7	11	-N				.66				2 2 2 8
ARCE	27	0855E	0945D		S15	W49	.769	12968	23.7	50D	-B		C	0930	1.00	1.50			D
MEUD	27	0928	0932		S17	W48	.763	12968	23.8	4	-F		C	0929	.31	.50			D
235 RAMY	27	1040E	1052	1045U	S18	W50	.786	12968	23.7	12D	-F	3	C		.46				DE 7
236 MEUD	27	1205E	1210D		S17	W50	.784	12968	23.8	5D	-F		C	1209	.41	.60			CD 8
GRP60237	27	1316	1412	1341	S17	W51	.794	12968	23.7	56	-N				.41				2 1 1 8
MONT	27	1316	1412	1341	S18	W50	.786	12968	23.8	56	-N		C		.41				DK
HUAN	27	1327E	1331		S15	W52	.800	12968	23.7	4D	-F	1	P						
238 MONT	27	1422	1426	1424	S13	E90	1.000	12972	3.3	4	-N		C		.41				D 7
GRP60239	27	1444	1451	1447	S15	E75	.967	12970	2.2	7	-F				.21				2 2 2 7
BOUL	27	1443	1451	1446	S15	E74	.962	12970	2.2	8	-F		C	1446	.21	.62			
MONT	27	1444	1451	1447	S15	E75	.967	12970	2.2	7	-N		C		.21				D
240 HUAN	27	1445	1452	1447	S17	W52	.804	12968	23.7	7	-F	2	C		.26	.43			7
241 MONT	27	1512	1528	1514	S15	E75	.967	12970	2.3	16	-F		C		.41				9

Hα SOLAR FLARES
Unconfirmed
MAY 1974

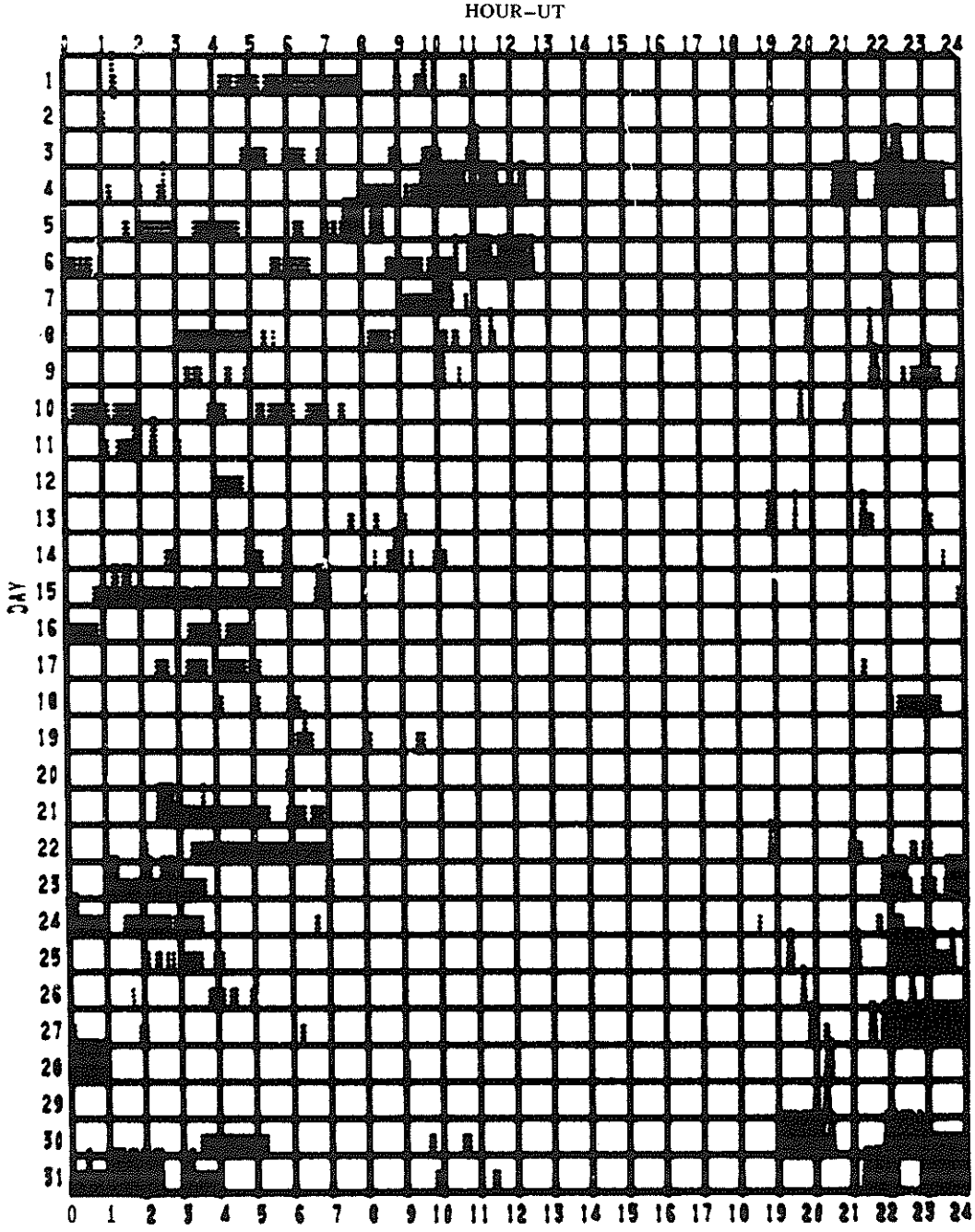
OBSERVATORY	DATE MAY	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION McMATH PLAGE REGION	LOCATION CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME — UT	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT. %	REMARKS	
243 MONT	27	1603	1637	1612	S21	E90	1.000	12972	3.4	34	-N		C		.41					6
244 MONT	27	1655	17100	1705	S14	W55	.827	12968	23.6	150	-N		C		.52				D	5
253 ABST	28	0521	0545	0524	S16	W61	.882	12968	23.6	24	1F		C	0524	1.79	3.60			EJ	6
254 MONT	28	0625E	0700D	0628	S15	W63	.896	12968	23.5	350	-N		C		1.55				E	9
255 MONT	28	0724	0743	0729	S17	W61	.883	12968	23.7	19	-N		C		.52				E	7
256 UPIC	28	0849	0903U	0854U	S15	W63	.896	12968	23.6	140	1N			0854	1.26					4
257 UPIC	28	1055	1125		S14	W64	.903	12968	23.7	31	-F			1110	.85					4
258 UPIC	28	1149U	1200U	1155	S13	W67	.923	12968	23.5	110	1N			1155	1.47					3
259 UPIC	28	1207	1213	1209U	S13	W68	.929	12968	23.4	6	1N			1209	1.05					3
260 RAMY	28	1239	1254	1242	S17	W67	.925	12968	23.5	15	-F	4	C		.46				OE	5
261 PALE	28	1910	1920	1913U	S14	E65	.910	12972	2.7	10	-F	2	C		.27				F	4
263 MANI	29	0648	0700	0650	S11	E68	.929	12972	3.4	12	-F	2		0650	.83	1.74				5
268 HUAN	30	1309	1323		S14	E88	.999	12977	6.1	14	-F	1	C							7
269 ATHN	30	1344	1411	1347	S12	E83	.992	12977	5.8	27	-N	3	C		.50				OE	7
272 HUAN	30	1627	1647	1636	S13	W48	.755	12960	27.1	20	-F	2	C		.36	.55			H	5
273 HUAN	30	1647	17090	1659	S13	E88	.999	12977	6.3	220	-N	2	C		.46					4
280 ABST	31	0529	0535	0530	S11	E79	.982	12977	6.2	6	1N		C	0530	.90				DV	5
281 ABST	31	0619	0630	0622	S13	E78	.979	12977	6.1	11	1F		C	0622	.90				D	6
282 ABST	31	0717	0725	0719	S15	E80	.985	12977	6.3	8	1N		C	0719	.90				D	6
286 HUAN	31	1339	1353	1347	S14	E75	.967	12977	6.2	14	-F	1	C		.26				D	4
287 HUAN	31	1349	1355	1352	S20	E78	.980	12977	6.4	6	-F	1	C		.21				D	5

A = Eruptive prominence whose base is less than 90° from central meridian.
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 visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

MAY 1974



Observatories included in total patrol:

Abastumani	Bucharest	Hurbanovo	McMath-Hulbert	Tachkent
Arcetri	Catania	Kharkov	Meudon	Teheran
Arosa	Culgoora	Kiev	Mitaka	Upice
Athenes	Herstmonceux	Kodaikanal	Monte Mario	Voroshilov
Boulder	Huancayo	Locarno	Palehua	Wendelstein
		Manila	Ramey	Zürich

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MAY 1974

MAY 1974	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	REMARKS
1	100	GORK	44	0301		36		5.0		
	200	GORK	6	0451.4	0452	2.6	20.0	8.0		
	100	GORK	6	0458.9	0459.7	1	20.0D			
	100	GORK	6	0523.1	0523.2	.6	20.0D			
	100	GORK	41	0533.5	0533.6	1.5	15.0			
	100	GORK		0533.5	0534.8		30.0			
	650	GORK	1	0534.7	0535	.7	4.7	2.0		
	100	GORK	41	0543.2	0543.8	16.3	30.0D			
	100	GORK		0543.2	0552		30.0D			
	100	GORK		0543.2	0554.4		30.0D			
	200	GORK	6	0554.2	0554.3	.1	80.0	40.0		
	100	HIRA	45	0554	0554.1	2	800.0	100.0		
	113	POTS	45	0613.4	0613.5	.4	700.0	70.0		
	100	GORK	6	0613.4	0613.8	1.2	30.0D			
	100	GORK	41	0623.3	0627.4	9.4	30.0D			
	100	GORK		0623.3	0627.7		70.0			
	650	GORK	41	0626.8	0627.7	4.1	21.0			
	650	GORK		0626.8	0629.8		20.0			
	950	GORK	1	0627.5	0627.7	.6	1.7	1.4		
	536	ONDR	45	0627	0627.5	3	55.0			
	260	ONDR	45	0630	0630	.5	20.0			
	29	UPIC	45	0631	0632	1.5				
	650	GORK	41	0706.6	0706.7	4	2.2			
	650	GORK		0706.6	0708.6		5.7			
	650	GORK		0706.6	0709.9		3.2			
	536	ONDR	45	0708	0709.5	7	90.0			
	260	ONDR	45	0708	0715	9.5	30.0			
	200	GORK	41	0708.2	0711.5	9.3	5.0			
	200	GORK		0708.2	0715.1		30.0			
	100	GORK	41	0709.7	0709.9	7.9	25.0			
	100	GORK		0709.7	0715.2		30.0			
	200	GORK	41	0737.6	0738.2	5	5.0			
	200	GORK		0737.6	0741.1		30.0			
	100	GORK	41	0810.1	0817.1	16.9	30.0D			
	100	GORK		0810.1	0818		150.0			
	200	GORK	41	0812	0812.4	8.3	4.0			
	200	GORK		0812	0817.8		30.0			
	29	UPIC	45	0813.5	0818	5				
	536	ONDR	45	0815.5	0817.5	2.5	35.0			
	260	ONDR	45	0815.5	0818	11	35.0			
	113	POTS	45	0817.6	0817.7	.2	130.0	15.0		
	200	GORK	41	0837.8	0838.5	4.6	2.0			
	200	GORK		0837.8	0842.1		5.0			
	100	GORK	6	0842.7	0842.8	1	30.0			
	200	GORK	41	0934.4	0935	3.8	45.0			
	200	GORK		0934.4	0937		15.0			
	100	GORK	6	0945.9	0946.6	1	30.0D			
	113	POTS	45	0946.3	0946.3	.1	175.0	45.0		
	29	UPIC	45	0958		11				
	8800	ATHN	20	0959.2	1007	18	4.7	1.6		
	4995	ATHN	1	0959.2	1005.3	9.1	2.0	.8		
	3000	BERL	2	1003	1006	87	4.0			
	2695	ATHN	1	1003	1005.6	5.6	4.0	1.6		
	1470	BERL	4	1003	1006	87	10.0			
	1415	ATHN	1	1003	1005.6	5.6	9.1	2.8		
	536	ONDR	45	1003	1006	8.5	40.0			
	245	SGMR	41	1003.6	1005.2	7.7	38.9D	9.7D		
	234	POTS	41	1003.8	1005.2	7.1	120.0	1.0E		
	9500	BERL	20	1004	1007	21	2.9			
	606	SGMR	40	1004.5	1006.3	5.3	6.9	1.0		
	260	ONDR	45	1004	1010.5	8	45.0			
	228	HARS	45	1004	1004.5	1	100.0	50.0		
	113	POTS	45	1004.2E	1004.2	6.9D	1000.0			
	1415	SGMR	4	1005.8	1006.1	.9	13.7	4.1		
	808	ONDR	45	1005.5	1006.5	6	60.0			
	410	SGMR	41	1005.1	1010.8	6.1	39.4	3.1		
	8800	SGMR	1	1006.1	1006.5	.5	3.9	1.0		
	4995	SGMR	1	1006.3	1006.6	.5	2.8	.8		
	2695	SGMR	1	1006.1	1006.2	.7	2.8	.8		
	228	HARS	45	1010.5	1011	1	20.0	5.0		
	2800	OTTA	24	1105	1140	35	5.6	2.8		
	2800	OTTA	24	1140		180	5.6			
	536	ONDR	5	1155	1155	.5	90.0			
	260	ONDR	45	1218.5	1229.5	12.5	130.0			
	3000	BERL	46	1222.5	1228.5	68	12.0	3.4		
	9500	BERL	46	1224	1227.7	7.5	20.0	7.2		
	2800	OTTA	2	1224	1226	6	8.4	2.4		SPIKE=23FU
	1470	BERL	46	1224.5	1227.5	66	26.0	2.5		
	606	SGMR	46	1224.8	1228	7.6	120.0	42.8		
	606	SGMR	46		1229.8		214.0			
	536	ONDR	45	1224.5		11	90.0D			
	15400	SGMR	46	1225.5	1227.9	5.6	36.9	7.4		
	15400	SGMR	46		1229.7		19.7			
	10700	PENN	45	1225.2	1228.1	6.5	27.4	4.8		
	9400	HUAN	41	1225.6	1227.9	4.8	29.0	6.8		
	8800	ATHN	46	1225.1	1226.1	10.1	15.8	4.7		
	8800	ATHN	46		1228.1		17.4			
	8800	SGMR	46	1225.2	1226	6.1	13.2	3.6		
	8800	SGMR	46		1228.1		18.1			
	4995	ATHN	1	1225.1	1226.1	5.7	9.2	3.1		
				67=oscillations						

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MAY 1974

MAY 1974	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
	4995 SGMR	2	1225.2	1227.1	3.9	9.9	2.0		
	2695 ATHN	46	1225.2	1226.2	7.6	6.0	2.0		
	2695 ATHN	46		1228.1		6.0			
	2695 SGMR	46	1225.1	1226	4.1	6.9	3.4		
	2695 SGMR	46		1228.8		17.0			
	1415 ATHN	46	1225.4	1226.2	6.9	4.2	8.4		
	1415 ATHN	46		1228.1		33.6			
	1415 SGMR	46	1225.4	1228	5.5	40.0	8.9		
	1415 SGMR	46		1229.8		44.4			
	410 SGMR	6	1225.9	1229.8	5.9	219.0	43.8		
	245 SGMR	48	1225.8	1228	6.1	1595.0	638.0		
	113 POTS	40	1225.9	1228	4.8	12000.0	240.0		
	29 UPIC	45	1225.5		4.5				
	234 POTS	41	1226.1	1229.8	3.8	27000.0	220.0		
	808 ONDR	45	1227	1228	3	270.0			
	510 POTS	40	1227	1229.8	3	150.0	6.0		
	228 HARS	45	1227.5	1228	1	100.0D	50.0		
	2800 OTTA	31	1230	1238	35	-4.0	-2.0		
	2800 OTTA	8	1237	1237.2	.2	2.0			
	606 SGMR	1	1310	1311.7	2	2.1	.6		
	1415 SGMR	2	1311.4	1311.7	2.2	1.5	.5		
	410 SGMR	6	1311.2	1311.5	.8	16.4	3.3		
	260 ONDR	5	1311.5	1311.5	.5	50.0			
	245 SGMR	6	1311.5	1311.7	.8	28.2	5.6		
	18 MCMA	6	1332	1333	2			1	
	18 MCMA	6	1406	1407	2			1	
	18 MCMA	42	1434	1442	21			2	
	260 ONDR	45	1439.5	1440.5	3	50.0			
	2800 OTTA	32	1440	1510	60	-4.6	-2.6		
	606 SGMR	4	1440.1	1440.2	4.7	20.0	6.0		
	536 ONDR	45	1440.5	1440.5	2.5	60.0			
	410 SGMR	6	1440.1	1440.5	1.9	22.1	6.6		
	245 SGMR	6	1440.1	1440.5	3.7	55.8	16.6		
	29 UPIC	45	1440.5	1441	1.5				
	808 ONDR	45	1442	1442	2	60.0			
	260 ONDR	45	1452.5	1453	3.5	25.0			
	4995 ATHN	1	1556.7	1557.3	3	6.1	2.0		
	18 MCMA	6	1717	1718	2			1	
	2800 OTTA	67	1740		35	.8			
	18 MCMA	42	1750	1752	9			1	
	245 SGMR	6	2043.5	2057.5	20.7	37.7	11.3		
	18 MCMA	42	2050	2059	11			1	
	410 SGMR	6	2053.3	2054.2	2	26.0	7.8		
	18 BOUL	6	2056	2057	4			1	
	2800 OTTA	32	2230	2240	25	-1.8	-0.9		
	18 BOUL	6	2249	2250	2			1	
	2695 PENT	24	2300	2350	50	3.4	1.7		
	2695 PENT	24	2350		120 D	3.4			
2	2000 TYKW	32	0030	0050	50	3.0	1.0		
	3750 TYKW	32	0033	0050	45	5.0	3.0		
	2695 PENT	32	0035	0050	35	-3.4	-1.7		
	9400 TYKW	32	0037	0050	35	4.0	2.0		
	9400 TYKW	20	0204	0218	50	6.0	3.0		
	3750 TYKW	20	0204	0206	15	3.0	1.0		
	1000 TYKW	1	0220	0221.2	10	3.0	1.0		
	3750 TYKW	20	0247	0253	35	2.0	1.0		
	100 GORK	44	0300 E		420 D		5.0		
	260 ONDR	41	0530	1126	490	30.0			
	245 SGMR	44	0941 E	1934.1	839 D	101.2			
	260 ONDR	44	1340	1400	90	75.0			
	234 POTS	45	1345 U	1537	198 D	90.0			
	113 POTS	45	1405 U	1543	178 D	90.0			
	200 HIRA	44	1945 E	0427	825 D	45.0	25.0		
	100 GORK	6	0358.8	0359.2	1.2	20.0D			
	100 GORK	6	0415.6	0416.9	2.2	20.0D			
	200 GORK	6	0418.2	0418.6	.6	20.0	10.0		
	200 GORK	41	0450	0453.8	20.5	5.0			
	200 GORK		0450	0504.2		5.0			
	100 GORK	41	0450	0453.8	7.8	15.0			
	100 GORK		0450	0457.4		20.0			
	29 UPIC	45	0524	0524.5	1				
	29 UPIC	45	0628	0628.5	2				
	100 GORK	41	0641.2	0642.7	4.9	20.0D			
	100 GORK		0641.2	0644.7		20.0D			
	650 GORK	41	0644.4	0644.6	.5	10.5	6.0		
	100 GORK	6	0740.9	0741.8	1.1	20.0D			
	29 UPIC	45	0741 U	0742	1.5				
	200 GORK	6	0749.9	0750.4	.7	6.0	2.0		
	9100 GORK		0828	0829.5	23	5.5	2.6		
	1470 BERL	2	0935.9	0936.1	.6	3.6	1.1		
	100 GORK	6	0935.8	0936.7	2	20.0D			
	113 POTS	45	0936.2	0936.3	.6	3200.0	250.0		
	29 UPIC	45	0936.5	0937	3				
	9500 BERL	20	1047.5	1120	58	5.5			
	3000 BERL	22	1100	1334	270 D	5.6			
	1470 BERL	20	1100	1137.7	60	1.8			
	29 UPIC	45	1109.5	1110	.5				
	9400 HUAN	1	1131.3	1131.9	2.1	12.1	5.2		
	113 POTS	45	1204.4	1204.6	1	140.0	35.0		

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MAY 1974	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}\ Hz^{-1}$ PEAK	FLUX DENSITY MEAN	INT	REMARKS
	29	UPIC	45	1233	1233.5	3				
	2800	OTTA	41	1235		40	1.8			
	2800	OTTA	20	1235	1237	20	1.8	0.9		
	2800	OTTA	20	1300	1302	15	1.8	0.9		
	2800	OTTA	20	1330	1333	12	2.6	1.3		
	2800	OTTA	22	1445	1537	180	4.8	2.4		
	18	MCMA	42	1457	1601	105			3	
	4995	BOUL	45	1509.5	1513.5	9	12.0	4.0		
	510	POTS	45	1516.5U	1522 U	23	28.0	3.0		
	930	BORD	40	1519	1535.9	46	313.0	5.0		
	1470	BERL	46	1520	1536.6U	40 D	21.0			
	1420	BOUL	40	1529	1559	38	43.0	8.0		
	410	SGMR	6	1529.3	1535.8	11.4	56.8	17.0		
	1415	SGMR	40	1531.5	1536	16.2	22.3	6.7		
	606	SGMR	40	1531	1536	16.6	30.0	6.0		
	18	BOUL	42	1533	1541	10			1	
	2695	SGMR	22	1534.1	1538.1	16.9	3.5	2.1		
	410	SGMR	6	1549.2	1557.7	16.5	16.7	6.7		
	1415	SGMR	40	1550.2	1557.9	15.4	55.9	22.3		
	606	SGMR	40	1552.5	1555.9	12.4	4.8	2.9		
	18	BOUL	6	1555	1558	5			1	
	2695	SGMR	2	1558.1	1559	4.3	1.8	1.1		
	9400	HUAN	20	1803.7	1945.9	125.2	13.8	5.4		
	18	MCMA	6	1900	1902	3			1	
	18	MCMA	6	1909	1910	2			1	
	18	BOUL	6	1949	1951	3			1	
	2800	OTTA	32	1950	2040	120	-2.2	-1.1		
	18	MCMA	6	1951	1953	3			2	
	8800	SGMR	2	2023.2	2025.6	8.7	7.6	3.0		
	4995	SGMR	1	2025	2026.5	5	4.0	1.6		
	4995	BOUL	3	2235	2237	5	9.0	3.0		
3	9400	TYKW	3	0210.5	0211.5	4.5	92.0	25.0		
	8800	MANI	4	0210.8	0211.7	11	98.0	29.4		
	4995	MANI	4	0210.8	0211.8	9.7	118.0	26.9		
	3750	TYKW	3	0210.5	0211.8	4.5	109.0	27.0		
	2695	MANI	4	0210.8	0212	10.8	123.0	28.5		
	2000	TYKW	3	0210.5	0212	19.5	113.0	15.0		
	1415	MANI	4	0210.8	0212	13.6	106.0	23.5		
	1000	TYKW	45	0210.5	0212.3	19.5	70.0	17.0		
	606	MANI	4	0210.8	0212.4	18.3	131.0	29.3		
	100	HIRA	45	0211	0211.2	2	700.0	100.0		
	9400	TYKW	29	0215		20	8.0	3.0		
	3750	TYKW	29	0215		30	10.0	4.0		
	2000	TYKW	29	0230		80	2.0	1.0		
	1000	TYKW	29	0230		80	3.0	1.0		
	9400	TYKW	1	0242	0243	5	5.0	2.0		
	3750	TYKW	20	0250	0300	30	3.0	2.0		
	9400	TYKW	1	0253.5	0254.1	1.5	5.0	2.0		
	100	GORK	44	0306 E		414 D		10.0		
	200	GORK	44	0421		87		5.0		
	200	GORK	44	0630		210		10.0		
	260	ONDR	44	0640	0701	520	115.0			
	245	SGMR	44	0940 E	1107.7	841 D	55.1			
	200	HIRA	44	1945 E	2342	825 D	90.0	30.0		
	100	HIRA	27	2300	2347	90	35.0	10.0		
	9400	TYKW	45	0323	0329	25	10.0	3.0		
	8800	MANI	3	0325.4	0329	9	15.7	3.9		
	3750	TYKW	45	0327	0329	45	8.0	2.0		
	4995	MANI	3	0328.5	0329.2	7.9	17.9	5.6		
	100	GORK	6	0358.8	0400.1	1.5	600.0			
	3750	TYKW	3	0515.5	0516.2	2	17.0	3.0		
	2695	ATHN	1	0515.6	0516.2	1.4	7.7	1.9		
	2000	TYKW	45	0515.5	0516.2	4	9.0	2.0		
	1415	ATHN	1	0515.6	0516.2	4	4.2	1.4		
	1000	TYKW	45	0515.5	0518.1	3.5	8.0	1.0		
	950	GORK	1	0515	0516.3	5.6	3.2	2.4		
	200	GORK	6	0515.8	0516.8	2.3	100.0	15.0		
	100	GORK	6	0515	0516.3U	4.5	30.0D			
	100	HIRA	45	0515.5	0517	4	1000.0D	300.0D		
	9400	TYKW	3	0516	0516.2	1.5	23.0	6.0		
	29	UPIC	45	0516	0517	2.5				
	650	GORK	1	0517.9	0518.1	.8	5.1	3.4		
	100	GORK	41	0634	0634.2	1.8	65.0D			
	100	GORK		0634	0635		30.0			
	3000	BERL	1	0700	0701.2	30	5.2	1.5		
	1470	BERL	1	0700	0701.5	5.7	1.9	1.0		
	930	BORD	40	0700	0700	2	18.0	2.0		
	936	ONDR	45	0700.5	0701	2	40.0			
	29	UPIC	45	0700	0701.5	2				
	9500	BERL	4	0701	0701.5	6	15.0	7.1		
	9400	TYKW	3	0701	0701.7	1.5	21.0	6.0		
	9100	GORK	2	0701.3	0701.7	1.2	14.7	7.0		
	8800	MANI	3	0701.4	0701.8	1.1	31.4	7.8		
	4995	MANI	3	0701.4	0701.8	1.2	11.2	2.2		
	3750	TYKW	1	0701	0701.7	2	3.0	1.0		
	2695	MANI	1	0701.4	0701.8	1.2	5.7	1.0		
	1415	MANI	1	0701.4	0701.3	4.6	3.3	.5		
	1000	TYKW	1	0701	0701.1	1	2.4	0.6		
	808	ONDR	45	0701	0701	1.5	70.0			

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MAY 1974	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
3	606 MANI	8	0701.2	0701.3	.3	30.2	.5		
	234 POTS	5	0701.2	0701.2	.1	1800.0	600.0		
	113 POTS	45	0701.2	0701.2	.3	17000.0	1700.0		
	200 GORK	6	0704.6	0704.8	.7	150.0	50.0		
	100 GORK	41	0704.7	0704.9	9.3	65.0D			
	100 GORK		0704.7	0712.7		65.0			
	200 GORK	41	0730	0730.5	2.9	100.0			
	200 GORK		0730	0732.4		100.0			
	100 GORK	41	0804.6E	0805.2	4.2E	90.0			
	100 GORK		0804.6E	0808.6					
	1470 BERL	1	0832.7	0832.9	.8	2.7			
	100 GORK	6	0832.9	0833.2	.6	90.0D			
	100 GORK	6	0928.2	0928.7	1.7	90.0D			
	29 UPIC	45	0928	0928.5	4				
	113 POTS	45	0950	0950	.3	150.0	30.0		
	100 GORK	6	0950	0950.2	1.2	90.0D			
	29 UPIC	5	1155	1155.5	1				
	1415 SGMR	1	1241.9	1242.3	.6	2.0	.6		
	410 SGMR	6	1241.9	1242.3	.7	8.6	2.6		
	2800 OTTA	8	1242	1242.2	.5	2.2	1.1		
	2695 SGMR	1	1242	1242.1	1.5	2.1	.6		
	606 SGMR	1	1242	1242.2	.5	1.0	.3		
	245 SGMR	6	1242.1	1242.2	.9	17.9	5.4		
	113 POTS	45	1242	1242.7	.7	400.0	15.0		
	29 UPIC	45	1242	1242	1.5				
	930 BORD	45	1245	1245.9	2	14.0	2.0		
	536 ONDR	45	1246	1248	4	50.0			
	9240 ARCE	20	1346.9	1359.6	53 U				ATMOS ATTEN
	9500 BERL	20	1355	1357.5	7	7.1			
	4995 SGMR	1	1400.7	1401.1	1.2	9.0	2.7		
	3000 BERL	3	1400	1401	10	8.3	3.1		
	2830 ARCE	2	1400.7	1401.1	1.6				
	2800 OTTA	1	1400.7	1401	1.5	7.4	2.5		
	2695 BOUL	8	1400.5	1401.5	2	9.0	3.0		
	2695 SGMR	1	1400.7	1401.2	1.1	6.9	2.1		
	2695 PENT	41	1400.7	1406	6.5	10.0			
	1470 BERL	1	1400	1401	2	3.1	1.0		
	1420 BOUL	8	1400.5	1401	1	3.0	1.0		
	1415 SGMR	2	1400.7	1401.1	.7	2.4	.7		
	930 BORD	45	1400	1401	2	35.0	2.0		
	606 SGMR	4	1400.8	1401.2	.5	36.7	11.0		
	410 SGMR	6	1400.7	1401.2	.9	37.7	15.1		
	29 UPIC	45	1400	1401	1.5				
	808 ONDR	5	1401	1401	.5	180.0			
	536 ONDR	5	1401	1401	.5	60.0			
	245 SGMR	6	1401	1401.2	.8	16.2	6.5		
	1470 BERL	3	1404.7	1404.8	.6	10.0	3.9		
	2695 PENT	3	1405.8	1406	1.5	10.0	2.0		
	2800 OTTA	1	1456	1456.5	1.5	1.0	0.5		
	808 ONDR	45	1456	1457	2	70.0			
	606 SGMR	4	1456.1	1457	1.7	27.4	8.2		
	410 SGMR	6	1456	1456.8	1.1	54.5	5.5		
	18 MCMA	6	1456	1457	2			2	
	2800 OTTA	67	1505		195	2.6			
	930 BORD	45	1526	1526.6	1	11.0	2.0		
	930 BORD	45	1711	1711.2	1	11.0	2.0		
	18 MCMA	41	1734	1741	9			1	
	245 SGMR	6	1740	1742.5	5.5	31.5	9.4		
	18 BOUL	6	1809	1811	3			1	
	2695 BOUL	3	1810.5	1811.5	1.5	4.0	1.0		
	245 SGMR	6	1810.7	1811.1	1.7	11.4	3.4		
	18 MCMA	6	1810	1811	2			2	
	2800 OTTA	41	1811	1817.7	8	4.0			
	2800 OTTA	1	1811	1811.2	1	1.6	0.8		
	410 SGMR	6	1811	1811.1	1.3	7.9	2.4		
	2800 OTTA	8	1817.5	1817.7	.3	4.0			
	2800 OTTA	1	1818	1818.5	1	.8	0.4		
	18 MCMA	41	1820	1826	9			2	
	18 MCMA	41	1837	1839	8			1	
	2800 OTTA	1	1900.2	1901	2	1.0	0.5		
	2695 BOUL	3	1900.5	1901.5	2.5	3.0	1.0		
	18 MCMA	6	1916	1918	3			1	
	7000 SAOP	1	1922.2	1923.3	1.3	75.4	37.7		
	9400 HUAN	21	1923.5	1930.4	16.9	8.5	3.8		
	7000 SAOP	29	1923.6		4.4				
	8800 SGMR	4	1924.8	1925.9	18.9	47.6	14.3		
	4995 SGMR	4	1924.8	1925.9	18.4	71.0	21.3		
	4995 BOUL	8	1924	1926	13.5	63.0	19.0		
	2800 OTTA	4	1924	1925.8	6	54.0	14.0		
	2695 SGMR	4	1924.6	1925.8	19	80.9	24.3		
	1420 BOUL	8	1924	1926	8	22.0	9.0		
	1415 SGMR	3	1924.8	1926	7.2	31.5	9.5		
	960 PENN	3	1924.7	1926.1	16	17.5	1.9		
	410 SGMR	6	1924.5	1925.9	4.3	212.1	63.6		
	245 SGMR	6	1924.5	1925.9	4.9	41.9	12.6		
	15400 SGMR	3	1925.6	1925.8	.3	20.9	6.3		
	10700 PENN	3	1925.3	1926	9	26.5	3.0		
	9400 HUAN	3	1925.4	1926.1	1.4	27.3	8.9		
	2695 BOUL	8	1925	1926.5	5	44.0	15.0		
	606 SGMR	4	1925	1926	6	29.0	8.7		

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MAY 1974	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	REMARKS
	2800	OTTA	29	1930	1930	135	2.4	1.2		
	18	BOUL	6	2015	2017	3			1	
	245	SGMR	6	2116.8	2122.2	6.9	20.3	6.1		
	410	SGMR	6	2117.7	2122.2	4.9	14.5	4.4		
	18	MCMA	41	2117	2121	7			2	
	18	BOUL	42	2117	2122	6			1	
	606	SGMR	1	2118.1	2118.3	1.1	2.1	.4		
	100	HIRA	45	2118	2119.7	6.5	750.0	20.0		
4	200	HIRA	45	0225.5	0226.2U	1	175.0D	110.0D		
	100	HIRA	45	0225	0226.4	2	1000.0D	300.0D		
	100	GORK	44	0303 E		417 D		5.0		
	200	GORK	44	0322 E		398		10.0		
	260	ONDR	44	0617	1111	383	50.0			
	245	SGMR	44	0939 E	1339.3	843 D	101.2			
	100	GORK	41	0318.4	0320.2	13.2	50.0D			
	100	GORK		0318.4	0325.1		500.0D			
	100	GORK		0318.4	0329.3		700.0D			
	100	HIRA	45	0324	0324.7	2	300.0	60.0		
	200	GORK	6	0327.2	0328 U	2.2	100.0D			
	950	GORK	3	0329.2	0329.3	.4	9.6	6.8		
	650	GORK	3	0329.2	0329.4	.4	35.0	17.0		
	606	MANI	8	0329.1	0329.4	.8	50.0	16.2		
	500	HIRA	5	0329.3	0329.4	.2	250.0	160.0		
	100	HIRA	45	0329	0329.5	1.5	1000.0D	200.0D		
	100	GORK	41	0616.5	0617.7	26.2	200.0			
	100	GORK		0616.5	0619.5		150.0			
	100	GORK		0616.5	0627.6		350.0			
	100	GORK		0616.5	0634.1		600.0D			
	100	GORK		0616.5	0642.4		150.0			
	200	GORK	41	0617.3	0617.4	2.3	15.0			
	200	GORK		0617.3	0619.4		100.0			
	29	UPIC	45	0617	0619	2.5				
	200	HIRA	45	0619.3	0619.5	.7	120.0	40.0		
	100	HIRA	45	0619	0619.4	1	250.0	100.0		
	950	GORK	1	0627.5	0627.7	.5	3.2	2.2		
	29	UPIC	45	0627 U	0627.5	1				
	200	GORK	6	0633.6	0633.9	.4	15.0			
	100	HIRA	45	0633.5	0634	1	200.0	90.0		
	29	UPIC	45	0633	0634	1.5				
	113	POTS	41	0717.4	0717.5	17	150.0	1.0		
	100	GORK	41	0717.3	0717.7	10.1	45.0D			
	100	GORK		0717.3	0722.3		150.0			
	100	GORK		0717.3	0726.3		300.0			
	29	UPIC	45	0719	0722	8				
	200	GORK	41	0736.4	0736.6	2.4	30.0			
	200	GORK		0736.4	0738.6		130.0			
	100	GORK	41	0736.3	0736.7	3.9	45.0D			
	100	GORK		0736.3	0738.6		600.0D			
	29	UPIC	45	0736	0738.5	3				
	950	GORK	3	0738	0738.7	.5	7.6	4.1		
	606	MANI	8	0738.6	0738.7	.3	5.9	1.6		
	113	POTS	41	0820.6	0820.6	1.8	800.0	8.0		
	113	POTS	41	0836.4	0838.6	2.3	770.0	10.0		
	8800	ATHN	1	0929.2	0929.4	.6	4.2	1.4		
	4995	ATHN	1	0929.2	0929.5	.4	4.9	2.0		
	100	GORK	6	0943.8	0944.7	2	250.0			
	29	UPIC	45	0943	0944	3				
	100	GORK	6	0959.3	0959.4	.7	40.0			
	2800	OTTA	20	1219	1225	40	2.0	1.0		
	18	MCMA	6	1257	1300	4			2	
	29	UPIC	5	1302.5	1302.5	.5				
	18	MCMA	6	1303	1305	3			2	
	29	UPIC	45	1400.5	1404	4				
	8800	ATHN	28	1601.7	1603.1	1.4	1.4	.4		
	4995	ATHN	28	1601.1	1602.7	1.6	2.8	.9		
	8800	SGMR	2	1602.9	1603.3	4.4	7.8	2.3		
	7000	SAOP	1	1602.3	1603	1.8	22.0	17.3		
	4995	ATHN	1	1602.7	1603.6	5.8	1.0	3.7		
	4995	SGMR	3	1602.4	1603.6	13.7	14.4	4.3		
	4995	BOUL	3	1602	1603	2	13.0	4.0		
	8800	ATHN	1	1603.1	1603.6	5.1	5.6	1.4		
	2800	OTTA	20	1635	1643	25	1.2	0.6		
	18	MCMA	41	1649	1721	84			3	
	2800	OTTA	22	1725	1817	105	3.4	1.5		
	18	BOUL	42	1916	1923	24			1	
	2800	OTTA	1	2155	2155.5	1	1.2	0.6		
	2695	PENT	1	2257	2258.5	3	1.2	0.6		
5	2695	BOUL	3	0112.5	0113	1	4.0	1.0		
	1420	BOUL	3	0112	0112.5	1	1.0			
	3750	TYKW	45	0230	0330	150	6.0	3.0		
	3750	TYKW	45	0230	0244.7	30	6.0	2.0		
	2000	TYKW	20	0230	0325	210	8.0	3.0		
	1000	TYKW	20	0230	0325	210	4.0	2.0		
	9400	TYKW	20	0300	0330	100	4.0	2.0		
	3750	TYKW	20	0300	0330	120	6.0	3.0		
	100	GORK	44	0300 E		600 D		20.0		
	260	ONDR	44	0600	0958	330	35.0			
	245	SGMR	44	0937 E	2117.4	846 D	44.5			

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5	260	ONDR	44	1130	1338	290	20.0			
	200	HIRA	45	0322.5	0323	1	150.0	30.0		
	100	GORK	24	0706		40	300.0U			
	100	HIRA	27	0706	0725	40	20.0	10.0		
	200	GORK	6	0717.6	0718	1	20.0	10.0		
	100	HIRA	45	0720.5	0726.7	8	600.0	100.0		
	200	GORK	41	0732.2	0739.9	25.4	7.0			
	200	GORK		0732.2	0746.8		7.0			
	200	GORK		0732.2	0757.4		10.0			
	200	GORK	42	0845	0848	116	20.0			
	200	GORK		0845	0940.7		20.0			
	1470	BERL	20	1015	1042.5	195	5.5			
	3000	BERL	20	1025	1115	138	6.4			
	9100	GORK	20	1030	1100	90 D	4.5			
	29	UPIC	45	1034.5	1038.5	15.5				
	9500	BERL	20	1045	1107	70	5.6			
	650	GORK	1	1048.1	1049.4	5.1	1.4	0.7		
	113	POTS	45	1048.8	1049	.5	150.0	30.0		
	100	GORK	6	1048.9	1049.3	1.1	450.0	200.0		
	950	GORK	1	1049.1	1049.4	1.2	1.5			
	200	GORK	6	1049.2	1049.2	.2	50.0			
	9400	HUAN	20	1135.1	1136	3	20.5	7.9		
	9400	HUAN	20	1140.3	1141.2	3.1	12.0	5.1		
	2800	OTTA	26	1212	1310	58	-2.0	-1.0		
	8800	ATHN	1	1348.8	1349.5	3	7.1	2.8		
	8800	SGMR	1	1348.4	1349.1	5	9.1	2.7		
	4995	ATHN	1	1348.7	1349.5	3.1	8.7	2.9		
	4995	SGMR	4	1348.6	1349.2	4.4	10.5	3.2		
	4995	BOUL	3	1348.5	1349	1	11.0	4.0		
	2800	OTTA	21	1350	1400	45	2.6	1.3		
	2695	BOUL	3	1352.5	1356	8	6.0	2.0		
	2800	OTTA	1	1353	1355.5	4	5.4	2.7		
	18	MCMA	42	1527	1533	8			1	
	8800	SGMR	3	1731.1	1731.5	7.5	10.0	3.0		
	4995	SGMR	20	1731	1731.5	14.9	7.1	4.3		
	18	MCMA	42	1847	1850	3			1	
	8800	SGMR	1	2020.4	2024.4	6.8	3.2	1.0		
	4995	SGMR	4	2021.7	2022.5	3.2	12.6	3.8		
	4995	BOUL	3	2021	2022	2	13.0	4.0		
	2800	OTTA	1	2022	2022.8	4	2.6	1.3		
	1415	SGMR	1	2025.3	2029.2	9.2	2.5	1.5		
	4995	SGMR	20	2028.7	2032	15.3	3.4	2.0		
	8800	SGMR	20	2029.9	2031.9	12.9	10.0	6.0		
	2695	SGMR	20	2030.6	2033	11.6	5.5	3.3		
	2800	OTTA	22	2153	2202	25	2.0	1.1		
	2800	OTTA	20	2240	2250	40	3.0	1.5		
6	3750	TYKW	20	0025	0034	25.	3.0	1.0		
	100	GORK	44	0300 E		600 D		35.0		
	260	ONDR	41	0750	0756	270	30.0			
	200	GORK	41	0411.8	0411.9	1.2				
	200	GORK		0411.8	0412.9					
	100	GORK	6	0411.6	0413	2.6	850.0			
	950	GORK	1	0412.3	0412.8	.7	4.5	1.2		
	100	GORK	6	0453.8	0454.4	1	900.0D			
	100	GORK	6	0531.4	0533.7	2.3	250.0			
	200	GORK	41	0814.6	0814.8	1.9	300.0			
	200	GORK		0814.6	0815.5		300.0			
	113	POTS	45	0814.4	0814.7	2.3	900.0	90.0		
	100	GORK	6	0814.2	0814.9	.8	650.0			
	100	HIRA	45	0814	0814.8	2.5	1000.0	300.0		
	29	UPIC	45	0814	0814.5	2.5				
	200	GORK	6	0926.8	0927.6	1.2	400.0	200.0		
	100	GORK	41	1108.7	1109.5	3.4	40.0D			
	100	GORK		1108.7	1111.3		40.0D			
	245	SGMR	6	1109	1109.5	1.4	3.5	1.0		
	29	UPIC	45	1109.5	1110.5	6.5				
	100	GORK	41	1213.7	1217.4	110	40.0D			
	100	GORK		1213.7	1224.3		40.0			
	245	SGMR	6	1217	1217.8	1.7	8.9	2.7		
	29	UPIC	45	1224	1225	1.5				
	29	UPIC	5	1255.5	1255.5	.5				
	1415	SGMR	40	1421	1421.5	2.7	2.3	1.4		
	606	SGMR	40	1421.3	1421.5	1.9	2.2	1.4		
	113	POTS	40	1421.2	1421.6	4.4	750.0	25.0		
	29	UPIC	45	1421	1423	5.5				
	18	MCMA	41	1421	1426	9			2	
	4995	SGMR	1	1533	1534.2	2.4	1.6	.5		
	2695	SGMR	1	1533.9	1534.8	2.4	1.6	.5		
	245	SGMR	6	1533.9	1534.3	1.8	10.8	3.2		
	1415	SGMR	3	1534.1	1534.8	1.9	14.4	4.3		
	245	SGMR	6	1616.1	1618.4	4.1	16.4	4.9		
	1415	SGMR	2	1617.9	1618.5	1	8.8	2.6		
	410	SGMR	6	1617.6	1618.5	1.3	9.0	2.7		
	606	SGMR	4	1618.1	1618.7	1	15.1	4.5		
	2695	PENT	67	1706		44	1.6			
	2800	OTTA	1	1707	1708	4	3.0	1.5		
	18	BOUL	6	1737	1740	3			1	
	18	MCMA	6	1738	1740	4			2	
	18	BOUL	6	1807	1809	2			1	

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	18	MCMA	6	1809	1810	2			1	
	18	ROUL	42	1823	1827	8			1	
	245	SGMR	6	1825.8	1826.8	5.9	16.5	4.8		
	18	MCMA	42	1826	1828	8			2	
	18	BOUL	41	1841	1850	9			1	
	18	MCMA	42	1842	1851	10			2	
	7000	SAOP	1	1917.9	1919.1	3.6	13.3	6.6		
	18	MCMA	42	1920	1921	2			1	
	18	BOUL	41	1946	1952	8			1	
	18	MCMA	42	1947	1952	8			2	
	18	MCMA	41	2152	2233	56			2	
	100	HIRA	45	2314.2	2314.5	1.5	480.0	80.0		
	100	HIRA	45	2340.5	2340.8	1	240.0	100.0		
7	100	HIRA	45	0124.9	0125.3	1	500.0	100.0		
	200	HIRA	45	0125	0125.3	1	180.0	60.0		
	100	GORK	44	0253 E		607 D		5.0		
	100	GORK	6	0331.7	0332.1	.7	25.0			
	100	GORK	6	0359.5	0401.3	2.2	35.0D			
	9400	TYKW	20	0510	0528	80	7.0	3.0		
	3750	TYKW	28	0510	0523	13	3.0	1.0		
	2000	TYKW	20	0510	0527.6	70	14.0	3.0		
	8800	ATHN	20	0523.9	0528.1	29.3	7.3	2.9		
	4995	ATHN	20	0523.9	0527.5	23 U	25.0	7.7		
	4995	MANI	4	0523.8	0527.6	8.9	23.6	9.1		
	3750	TYKW	3	0523	0527.6	10	39.0	15.0		
	2695	ATHN	22	0523.9	0527.5	14.9	27.7	8.5		
	2695	MANI	4	0523.8	0527.6	9	35.6	8.9		
	100	GORK	41	0524.9	0525.2	8.8	35.0D			
	100	GORK		0524.9	0532.1		35.0D			
	200	GORK	6	0531.9	0532	.7	60.0			
	3750	TYKW	29	0533		50	10.0	4.0		
	100	GORK	6	0552.2	0552.4	.4	30.0D			
	100	GORK	41	0658.8	0659.2	7	35.0D			
	100	GORK		0658.8	0705.6		35.0D			
	200	HIRA	45	0738	0738.3	.8	55.0	15.0		
	100	GORK	6	0759.8	0800.2	.9	30.0D			
	100	GORK	41	0903.8	0904.4	25.6	35.0D			
	100	GORK		0903.8	0911.7		200.0			
	100	GORK		0903.8	0919.9		35.0D			
	100	GORK		0903.8	0928.7		35.0D			
	29	UPIC	45	0910.5	0915	10.5				
	100	GORK	41	0938.1	0941.2	9.2	30.0D			
	100	GORK		0938.1	0943.7		550.0			
	29	UPIC	45	0942.5	0943.5	4.5				
	260	ONDR	5	0943.5	0943.5	.5	40.0			
	113	POTS	45	0943	0943.5	1.8	500.0	50.0		
	29	UPIC	45	1013.5U	1014	1				
	100	GORK	6	1048.6	1049.5	1.5	40.0D			
	100	GORK	41	1105.7	1106.5	11.1	40.0D			
	100	GORK		1105.7	1116.6		40.0D			
	930	BORD	45	1112	1113.4	3	13.0	2.0		
	29	UPIC	45	1141		13				
	100	GORK	41	1143.9	1144.2	7.9	35.0D			
	100	GORK		1143.9	1151.6		35.0D			
	245	SGMR	6	1146.8	1147.4	2.1	12.5	5.0		
	260	ONDR	5	1147	1147	.5	20.0			
	200	GORK	6	1147.4	1147.5	.1	300.0	150.0		
	113	POTS	41	1147.2	1147.3	4.1	1400.0	14.0		
	15400	SGMR	1	1211.5	1212	.9	7.9	2.4		
	9500	BERL	2	1212.7	1214	12	9.8	2.7		
	8800	ATHN	3	1212.9	1214	3	15.0	4.5		
	4995	ATHN	3	1212.9	1214	2.8	41.6	13.9		
	3000	BERL	4	1212.5	1214	24	31.0	7.9		
	2695	ATHN	3	1212.9	1214	2.9	12.6	4.2		
	2695	SGMR	4	1212.9	1214.2	2.7	14.9	4.5		
	9240	ARCE	20	1213.5U	1226.3U	40 D				ATMOS ATTEN
	8800	SGMR	4	1213.1	1214	1.5	17.6	5.3		
	7000	SAOP	1	1213	1214.2	1.7	34.3	16.6		
	4995	SGMR	4	1213	1214.1	2.7	46.2	13.9		
	2830	ARCE	21	1213.1	1252.1	69.5				
	2830	ARCE	4	1213.1	1214.2	6.6				
	2800	OTTA	4	1213	1214	3	19.0	13.8		
	8800	SGMR	30	1214.6	1214.6	61.4U	7.0	2.6U		
	7000	SAOP	29	1214.8		19.8				
	4995	ATHN	29	1215.7	1215.7	7.2	11.9	4.8		
	4995	SGMR	30	1215.7	1215.7	60.5	14.3	5.7		
	2695	SGMR	30	1215.6	1215.6	61.6	6.5	2.6		
	2800	OTTA	29	1216	1216	22	9.0	3.0		
	9500	BERL	20	1245	1252	30	8.4			
	2695	ATHN	1	1245.9	1251.8	5.6	4.2	1.4		
	4995	ATHN	3	1246.6	1251.8	5.1	22.8	8.9		
	4995	SGMR	22	1247.1	1251.9	17	20.7	6.2		
	2800	OTTA	67	1247		140	3.4			
	8800	ATHN	1	1248.8	1252.1	5.9	7.5	2.7		
	7000	SAOP	1	1248.8	1250.6	7.2	14.4	6.6		
	3000	BERL	22	1248	1252	27	8.7			
	2695	SGMR	22	1248.1	1252.1	26.5	6.2	1.9		
	15400	SGMR	1	1249.4	1252.7	6.9	7.9	2.4		
	2800	OTTA	2	1249	1252	8	6.2	3.1		

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7	8800	SGMR	1	1251 U	1252.9	2.6U	4.7	1.4U		
	4995	ATHN	29	1251.7	1251.7	25.5	15.8	5.9		
	100	GORK	41	1259	1259.7	1.8	400.0			
	100	GORK		1259	1300.7		550.0			
	930	BORD	5	1318	1318.1	1	14.0	2.0		
	4995	SGMR	4	1517.1	1518	8.8	12.6	3.8		
	4995	BOUL	3	1517.5	1518.5	3	16.0	5.0		
	4995	ATHN	3	1518.1	1519.3	7	10.9	4.0		
	2800	OTTA	1	1518	1519.2	6	2.6	0.8		
	2695	PENT		1518	1519.2	6	•	•		
	2695	SGMR	1	1518	1519	1.7	2.2	.6		
	2695	BOUL	3	1518.5	1519.5	1.5	2.0	1.0		
	7000	SAOP	1	1519.8	1519.9	1.8	8.4	4.0		
	18	MCMA	42	1536	1538	41			2	
	18	MCMA	6	1638	1642	4			3	
	18	BOUL	6	1638	1641	4			1	
	18	MCMA	6	1717	1718	3			2	
	2800	OTTA	22	1805	1809	25	2.4	1.2		
	18	BOUL	41	1805	1814	13			1	
	18	MCMA	42	1806	1815	25			2	
	2800	OTTA	20	1912	1945	60	2.0	1.0		
	18	BOUL	41	1927	1933	11			1	
	18	MCMA	41	1928	1936	9			2	
	245	SGMR	41	1930.7	1935.4	5.9	13.3	2.1		
	4995	BOUL	3	2025	2026	3	9.0	3.0		
	18	BOUL	42	2034	2037	4			1	
	18	MCMA	41	2035	2036	3			1	
	2800	OTTA	20	2105	2112	25	3.2	1.6		
	9400	HUAN	20	2213.7	2214.9	2.1	10.5	3.5		
	100	HIRA	45	2220.5	2221	3	1000.0D	200.0D		
	18	MCMA	41	2220	2223	16			2	
	2000	TYKW	1	2222.5	2222.9	1	10.0	3.0		
	1420	BOUL	3	2222	2223	1.5	2.0	1.0		
	1000	TYKW	45	2245.8	2246.3	2.5	2.3	0.7		
	2695	PENT	20	2250	2305	30	1.4	0.7		
	2695	BOUL	3	2311.5	2313.5	2.5	3.0	1.0		
	3750	TYKW	1	2312	2313	3	3.0	1.0		
	200	HIRA	45	2312.5	2312.7	1	70.0	30.0		
	100	HIRA	45	2312.3	2312.8	2	600.0	180.0		
8	3750	TYKW	3	0008	0015.6	22	160.0	45.0		
	2695	PENT	3	0008	0015.5	22	248.0	59.0		
	2000	TYKW	3	0008	0015.8	22	180.0	45.0		
	1000	TYKW	3	0008	0015.8	15	46.0	14.0		
	2695	MANI	4	0009.3	0015.7	32.8	210.0	42.0		
	4995	BOUL	3	0010	0015.5	17	69.0	20.0		
	4995	MANI	4	0010.6	0014.8	30.7	170.0	30.0		
	1420	BOUL	3	0010	0017	20	56.0	20.0		
	1415	MANI	4	0011.5	0015.7	29.4	108.0	21.2		
	9400	TYKW	3	0012	0015.6	10	43.0	23.0		
	2695	BOUL	3	0012	0016.5	15	127.0	45.0		
	8800	MANI	4	0013.5	0015.7	27.4	56.0	18.7		
	606	MANI	22	0013.8	0014.2	16.4	8.3	3.3		
	9400	TYKW	29	0022		110	18.0	9.0		
	1000	TYKW	29	0023		60	6.0	1.5		
	3750	TYKW	29	0030		110	17.0	9.0		
	2695	PENT	29	0030	0030	70 D	15.8			
	2000	TYKW	29	0030		110	10.0	4.0		
	200	HIRA	45	0047.5	0048	1	75.0	20.0		
	100	HIRA	45	0047	0047.8	2	120.0	30.0		
	4995	MANI	1	0244.4	0244.8	.8	9.8	3.5		
	3750	TYKW	1	0244.3	0244.7	1	9.0	3.0		
	2695	MANI	1	0244.4	0244.8	.8	5.5	1.8		
	2000	TYKW	1	0244	0244.8	2	3.0	1.0		
	4995	ATHN	4	0427.8	0430	4.6	6.5	2.2		
	8800	ATHN	1	0428.5	0430.1	3.5	2.9	1.0		
	2695	ATHN	1	0428.7	0430	3.6	2.2	.7		
	1415	ATHN	1	0429.4	0430.1	2.5	1.3	.4		
	3750	TYKW	45	0447.5	0448.5	1.5	5.0	1.0		
	2000	TYKW	1	0448	0448.4	1	3.0	0.5		
	1415	MANI	1	0448.1	0448.5	1.7	2.0	1.0		
	1415	MANI	1	0448.1	0448.5	1.7	2.0	1.0		
	1000	TYKW	45	0448	0448.5	3	6.0	1.0		
	606	MANI	8	0448.2	0448.5	.8	37.0	2.6		
	3750	TYKW	1	0452	0452.6	1.5	3.0	1.0		
	3750	TYKW	20	0457	0502	50	2.0	1.0		
	9400	TYKW	20	0500	0520	50	4.0	2.0		
	606	MANI	40	0500.4	0502.1	2	17.0	5.3		
	8800	ATHN	1	0512.2	0515.7	6.3	4.4	1.5		
	4995	ATHN	3	0513.2	0516.1	6.1	13.1	4.4		
	4995	MANI	20	0513.7	0515.5	13.4	7.0	2.6		
	3750	TYKW	20	0513	0515.4	25	18.0	4.0		
	2695	ATHN	1	0513.5	0515.7	3.3	8.7	3.3		
	2695	MANI	4	0513.7	0515.5	10.9	10.0	36.0		
	2000	TYKW	20	0514	0515.5	15	1.7	0.5		
	606	MANI	2	0515.7	0516.1	.7	8.5	21.0		
	3750	TYKW	1	0552	0553.6	3	2.0	1.0		
	3750	TYKW	1	0605	0606.1	6	3.0	1.0		
	2000	TYKW	1	0605	0606.3	3	1.5	0.8		
	100	GORK	41	0719.1	0719.3	20.7	30.0			

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8	100	GORK		0719.1	0721.6U		40.0D			
	100	GORK		0719.1	0723.3		40.0			
	100	GORK		0719.1	0732.1		40.0D			
	100	GORK		0719.1	0733.5		40.0D			
	100	GORK		0719.1	0738.7		40.0D			
	113	POTS	45	0720.8	0721.5	.9	200.0	30.0		
	29	UPIC	45	0720.5U	0721.5	1.5				
	200	GORK	6	0721	0721.3	.8	140.0	70.0		
	200	HIRA	45	0721	0721.3	1	130.0	40.0		
	100	HIRA	45	0721	0721.5	1	300.0	150.0		
	1415	MANI	22	0731.5	0732.8	14.5	2.5	5.0		
	606	MANI	40	0731.8	0740.5	14.2	24.4	53.0		
	29	UPIC	45	0738.5U	0739	1.5				
	930	BORD	45	0904	0904.1	1	22.0	2.0		
	113	POTS	41	0918.6	0927.6	11	200.0	1.0		
	100	GORK	41	0918.5	0919.4	12.3	500.0			
	100	GORK		0918.5	0924.3		600.0			
	100	GORK		0918.5	0927.6		800.0			
	100	GORK		0918.5	0929.5		300.0			
	29	UPIC	40	0918 U		24				
	100	GORK	6	1009.9	1010.1	.5	30.0			
	29	UPIC	45	1036	1039.5	4				
	29	UPIC	45	1055.5	1058	7.5				
	100	GORK	41	1056	1056.5	5.8	40.0			
	100	GORK		1056	1059		550.0			
	100	GORK		1056	1128.7		500.0			
	245	SGMR	6	1058.8	1059	8.7	4.4	1.3		
	113	POTS	45	1058.7	1059	2.9D	100.0			
	100	GORK	41	1124.8	1126.1	4.2	50.0			
	950	GORK	1	1125.6	1125.9	.7	4.4	2.0		
	650	GORK	1	1125.5	1125.7	.5	4.4	2.2		
	29	UPIC	45	1125	1128.5	4				
	29	UPIC	45	1152.5U	1155.5	3.5				
	29	UPIC	45	1221 U	1222	1.5				
	29	UPIC	45	1304	1309.5	6.5				
	18	MCMA	42	1306	1307	5			1	
	18	MCMA	42	1402	1406	7			2	
	18	MCMA	42	1515	1518	4			1	
	29	UPIC	45	1516.5U	1517	1				
	29	UPIC	45	1549.5	1550	2				
	8800	SGMR	1	1550.4	1550.5	.3	4.0	1.2		
	4995	SGMR	8	1550.4	1550.6	.4	44.0	13.1		
	2695	SGMR	1	1550.4	1550.5	.3	9.5	2.9		
	1415	SGMR	8	1550.5	1550.6	.2	21.1	6.3		
	18	MCMA	6	1550	1552	3			2	
	18	MCMA	6	1632	1633	2			1	
	2800	OTTA	20	1710	1712	15	2.6	1.3		
	18	MCMA	42	1714	1716	3			1	
	18	MCMA	42	1723	1725	4			1	
	18	MCMA	42	1737	1738	4			1	
	4995	ROUL	3	2127	2128.5	3	14.0	5.0		
9	3750	TYKW	1	0212	0213.1	7	10.0	3.0		
	100	GORK	41	0408.7	0409.8U	20.4	30.0D			
	100	GORK		0408.7	0419		70.0			
	100	GORK		0408.7	0420.6		150.0			
	200	GORK	41	0409	0409.7	2.6	20.0			
	200	GORK		0409	0410.6		20.0			
	100	HIRA	45	0409.4	0410	1	200.0	50.0		
	200	GORK	41	0418.2	0418.5	.7	20.0			
	200	GORK		0418.2	0418.7		15.0			
	100	GORK	41	0511	0512.9	6.2	30.0			
	100	GORK		0511	0514.5		10.0			
	100	GORK	6	0544.2	0544.4U	.4	30.0D			
	100	GORK	41	0614.7	0617.1	8.4	30.0D			
	100	GORK		0614.7	0622.4		20.0			
	200	GORK	41	0616.4	0616.7	1.2	12.0			
	200	GORK		0616.4	0617.3		14.0			
	3750	TYKW	1	0623	0626	7	2.0	1.0		
	2000	TYKW	20	0623	0625.5	25	4.0	1.0		
	100	HIRA	45	0650.5	0651.3	2	800.0	100.0		
	100	GORK	41	0710.3	0714.3	7.6	6.0			
	100	GORK		0710.3	0717.8		10.0			
	100	GORK	6	0751.8	0752	.4	40.0	20.0		
	100	GORK	41	0813.7	0818	24	40.0			
	100	GORK		0813.7	0821		40.0			
	100	GORK		0813.7	0825 U		40.0D			
	100	GORK		0813.7	0829.6		200.0			
	950	GORK	1	0824.6	0824.8	.3	1.7			
	650	GORK	3	0824.6	0824.8	.7	8.3	5.4		
	606	MANI	2	0824.6	0824.9	1.8	9.7	16.0		
	536	ONDR	45	0824.5	0824.5	2	45.0			
	113	POTS	41	0824.2	0824.5	5.3	1100.0	35.0		
	100	HIRA	45	0824	0824.8	3	1000.0D	200.0D		
	29	UPIC	45	0824	0825.5	6				
	260	ONDR	45	0850.5	0857	8.5	20.0			
	100	GORK	41	0921.5	0921.8	1.6	50.0			
	260	ONDR	5	0922	0922	.5	15.0			
	200	GORK	41	0924.5	0824.8	1.3	15.0			
	200	GORK		0924.5	0925.5		27.0			

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9	260	ONDR	45	1033	1045	17	30.0			
	29	UPIC	45	1037.5		12.5				
	8800	ATHN	22	1038.1	1045.3	21.6	11.3	2.8		
	4995	ATHN	22	1038.3	1046.4	22.7	5.5	.9		
	4995	SGMR	1	1038.8	1039.9	1.5	4.5	1.4		
	2695	SGMR	22	1038.7	1040	13.9	6.7	4.0		
	113	POTS	45	1038.5	1039.5	9.5U	450.0	20.0		
	9240	ARCE	20	1039.3	1046	30				
	2830	ARCE	1	1039.1	1039.9	2 U				
	1415	SGMR	2	1039.2	1041.3	7.8	7.8	4.7		
	606	SGMR	22	1039	1041.4	12.7	6.6	4.0		
	536	ONDR	45	1039	1041.5	5	45.0			
	410	SGMR	6	1039.5	1041.5	9.5	8.1	2.4		
	245	SGMR	6	1039.3	1045.3	9.9	15.8	4.7		
	9100	GORK	20	1040 .	1049	15	6.7	3.3		
	260	ONDR	45	1228	1230.5	2.5	20.0			
	113	POTS	45	1257.5	1257.9	1.3D	70000.0			
	2695	ATHN	1	1258.7	1259.4	1.5	3.6	1.1		
	2695	SGMR	1	1258.9	1259.4	1.4	2.4	.7		
	1470	BERL	2	1258.2	1259.4	3.8	3.3	0.9		
	1415	ATHN	1	1258.7	1259.4	1.9	2.0	.6		
	1415	SGMR	1	1258.8	1259.5	1.3	2.8	.8		
	410	SGMR	6	1258.8	1259.3	2.2	3.6	1.1		
	245	SGMR	6	1258.8	1258.9	2.6	13.5	4.1		
	29	UPIC	45	1258.5		3.5				
	606	SGMR	1	1259.1	1259.6	1.2	3.7	1.1		
	18	MCMA	6	1300	1303	4			3	
	245	SGMR	6	1409.4	1415.8	8.1	1.8	.5		
	29	UPIC	45	1409.5	1411	7				
	1470	BERL	2	1410.5	1411.5	2	2.4	0.9		
	113	POTS	45	1410	1415.6	6.6	2500.0	60.0		
	606	SGMR	2	1411.4	1411.7	5.1	2.2	.7		
	410	SGMR	6	1411.1	1412	6.7	4.5	1.4		
	18	MCMA	6	1411	1414	7			3	
	1470	BERL	4	1415	1415.4	1.5	9.8	3.3		
	1420	BOUL	3	1415	1415.5	6	3.0	1.0		
	2695	BOUL	3	1416	1416.5	1.5	4.0	1.0		
	260	ONDR	5	1457.5	1457.5	.5	15.0			
	18	MCMA	6	1511	1514	4			2	
	18	MCMA	6	1529	1530	3			1	
	18	MCMA	6	1615	1616	2			1	
	7000	SAOP	8	1621.2	1621.5	.6	23.6	11.2		
	7000	SAOP	29	1621.8		5.7				
	4995	BOUL	8	1621.5	1622.5	1	20.0	8.0		
	228	HARS	5	1622.5	1623.5	2.5	90.0	25.0		
	18	BOUL	6	1622	1625	5			2	
	10700	PENN	1	1623.6	1624.2	8.2	2.3	0.5		
	8800	SGMR	4	1623.7	1624.2	5.3	16.0	4.8		
	4995	ATHN	4	1623.5	1623.9	10.9	12.7	3.6		
	4995	SGMR	4	1623.5	1624.2	6.3	26.2	7.9		
	2830	ARCE	3	1623.2	1624.1	3				
	2800	OTTA	3	1623.2	1624	2.3	18.8	9.2		
	2695	ATHN	4	1623.5	1623.9	10.9	12.7	3.6		
	2695	SGMR	4	1623.4	1624.1	4.1	19.9	6.0		
	2695	BOUL	8	1623.5	1624	3.5	20.0	7.0		
	1420	BOUL	8	1623	1624	4	9.0	4.0		
	1415	ATHN	1	1623.3	1624.2	3.7	7.3	2.0		
	1415	SGMR	1	1623.8	1624.2	6.9	7.1	2.1		
	960	PENN	5	1623.6	1624.5	9.5				
	606	SGMR	4	1623.7	1624.2	7.3	21.1	6.3		
	410	SGMR	6	1623.6	1624.2	5.1	29.3	8.8		
	245	SGMR	7	1623.3	1624	10.2	457.0	137.0		
	9240	ARCE	1	1624.1	1624.4	4				
	18	MCMA	6	1624	1628	5			3	
	2800	OTTA	29	1625.5	1625.5	5	1.6	0.8		
	18	MCMA	6	1634	1635	2			1	
	18	BOUL	6	1848	1851	4			2	
	18	MCMA	6	1851	1853	3			2	
	18	MCMA	6	1933	1934	2			1	
	18	BOUL	6	1935	1938	3			2	
	18	MCMA	6	1954	1955	2			1	
	18	MCMA	6	2118	2119	3			1	
	18	MCMA	6	2131	2133	2			1	
	245	SGMR	6	2243.6	2247	4.7	8.3	2.5		
	100	HIRA	45	2243.6	2244.2	2	380.0	100.0		
	18	MCMA	6	2244	2245	5			2	
	200	HIRA	45	2335	2335.7	1	120.0	40.0		
	100	GORK	6	0649.2	0651.3U	3.4	400.0D			
10	100	GORK	6	0828.6	0830.1	3.2	50.0			
	260	ONDR	45	0835.5	0837.5	3.5	25.0			
	260	ONDR	5	0959	0959	.5	20.0			
	260	ONDR	45	1313	1313.5	2	20.0			
	260	ONDR	5	1347.5	1347.5	.5	20.0			
	18	MCMA	41	1535	1536	2			1	
	18	MCMA	6	1625	1626	2			1	
	18	MCMA	42	1700	1703	4			1	
	18	MCMA	6	1710	1712	2			1	
	18	MCMA	42	1728	1731	5			1	

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11	200	HIRA	45	0218.5	0218.7	.5	180.0D	100.0D		
	200	HIRA	45	0348.5	0348.8	.5	180.0D	110.0D		
	260	ONDR	45	0631	0633	3.5	30.0			
	100	GORK	6	0631.5	0631.6	2.4	50.0D			
	260	ONDR	45	0755	0756	2	15.0			
	100	GORK	6	0909.5	0909.6	.4	50.0D			
	260	ONDR	45	1106.5	1112.5	10	30.0			
	2800	OTTA	27	1215		370	2.2	1.9		
	2800	OTTA	24	1215	1320	65	2.2	1.1		
	2800	OTTA	24	1320		280	2.2			
	18	MCMA	42	1322	1326	4			1	
	18	MCMA	6	1339	1340	2			1	
	2800	OTTA	20	1505	1605	90	1.2	0.6		
	2800	OTTA	26	1800	1825	25	-2.2	-1.1		
12	260	ONDR	45	0959.5	1000	2	25.0			
	260	ONDR	45	1035	1035.5	1.5	25.0			
	2695	BOUL	21	2138.5	2145	44.5	16.0	4.0		
	1420	BOUL	8	2138.5	2145	11	6.0	1.0		
	2000	TYKW	45	2140	2144.9	50	14.0	3.0		
	3750	TYKW	20	2143	2144.9	20	8.0	3.0		
	2800	OTTA	1	2143.5	2145	9.5	8.2	4.1		
	1415	SGMR	20	2143.5	2144.8	18.5	4.8	1.4		
	2800	OTTA	21	2148	2156	70	5.8	2.9		
	8800	MANI	3	2202.2	2202.9	1.3	14.4	54.0		
13	2000	TYKW	45	0033	0058	100	6.0	2.0		
	2695	PENT	22	0035	0058	70 D	3.8			
	9400	TYKW	20	0050	0105	55	3.0	1.0		
	3750	TYKW	20	0050	0105	80	3.0	1.0		
	100	HIRA	45	0224	0225.6	2.5	90.0	25.0		
	100	HIRA	45	0229	0229.2	1	140.0	50.0		
	100	GORK	6	0536.6	0536.7	.4	20.0	10.0		
	100	GORK	41	0552.8	0553	1.3	20.0			
	100	GORK		0552.8	0553.0		20.0			
	100	GORK	41	0618.5	0618.6	1.5	20.0			
	100	GORK		0618.5	0619.8		20.0			
	100	GORK	6	0626.5	0626.8	.4	20.0	10.0		
	260	ONDR	45	0739.5	0740	1.5	20.0			
	260	ONDR	45	0940	0940.5	2	40.0			
	29	UPIC	45	1208 U	1209.5	5.5				
	260	ONDR	45	1425.5	1426	1	20.0			
	2800	OTTA	28	2100	2115	20	3.4	2.4		
	960	PENN	45	2100		50	40.0D			
	1420	BOUL	45	2104	2123	47.5	92.0	22.0		
	245	SGMR	6	2104.1	2126.1	32	21.8	4.4		
	606	SGMR	23	2105.4	2111.6	30.4	7.5	5.0		
	1415	SGMR	23	2106	2113.5	36.7	18.3	11.0		
	18	BOUL	42	2107	2111	4			1	
	2695	BOUL	45	2110.5	2126	48.5	203.0	38.0		
	1000	TYKW	45	2111 E	2112 U	40 D	280.0	40.0U		
	4995	BOUL	45	2119.5	2126.5	41	41.0	11.0		
	1415	SGMR	46	2119.4	2122.2	18.2	228.0	68.0		
	1415	SGMR	46		2125.3		77.3			
	606	SGMR	46	2119.2	2122.5	14.1	113.3	34.0		
	606	SGMR	46		2123.9		112.5			
	10700	PENN	20	2120	2127.1	59	28.6	9.9		
	2800	OTTA	4	2120	2125.3	25	252.0	22.6		PENT=375FU
	9400	HUAN	20	2121.2	2126.6	9.2	29.2	14.4		
	8800	SGMR	22	2121 U	2127	13 U	19.0	11.4U		
	2000	TYKW	45	2121 E		30 D	135.0D	20.0U		
	500	HIRA	45	2121.5	2124.7	10	60.0	25.0		
	410	SGMR	6	2121	2124.3	10.3	35.1	7.0		
	200	HIRA	45	2121	2125.5	14	70.0	10.0		
	100	HIRA	45	2122	2125.5	16	1000.0D	50.0D		
	18	BOUL	6	2122	2128	6			2	
	15400	SGMR	22	2123.2	2125.8	11	13.2	7.9		
	4995	SGMR	22	2123 U	2127	8 U	26.2	7.9U		
	2695	SGMR	4	2123 U	2125.4	8 U	159.0	46.2U		
	18	MCMA	6	2123	2126	6			3	
	2800	OTTA	29	2145	2145	135	6.2	3.1		
	9400	HUAN	1	2208.1	2208.4	2.6	10.9	6.2		
14	200	GORK	6	0703.5	0703.8	.7	80.0	20.0		
	100	GORK	6	0908	0908.7	1.1	15.0D			
	18	MCMA	41	2244	2247	3			1	
15	2000	TYKW	1	0125.5	0126.6	3	1.3	0.5		
	3750	TYKW	1	0126	0126.6	2	1.0	0.5U		
	536	ONDR	45	1024	1028	6	35.0			
	260	ONDR	45	1027	1028	8	15.0			
	2800	OTTA	26	1228	1248	20	-1.8	-0.9		
	536	ONDR	45	1435	1436	3	50.0			
16	18	MCMA	6	2312	2313	3			1	
17	18	MCMA	6	1400	1402	3			1	
18	260	ONDR	45	0837 U	0839.5	4.5	20.0			
	260	ONDR	5	1443	1443	.5	20.0			

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OUTSTANDING OCCURRENCES

MAY 1974

MAY 1974	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	REMARKS
	260	ONDR	5	1446	1446	.5	15.0			
	18	MCMA	6	1451	1453	2			2	
19	9240	ARCE	2	1100.8	1101.3	2				
20	9240	ARCE	22	1418.4	1503.7	92				RECORD DIST
	18	MCMA	6	2057	2059	2			1	
23	18	BOUL	6	2107	2108	2			1	
25	29	UPIC	45	0641.5	0642	1.5				
	260	ONDR	45	1157.5U	1204	8	30.0			
26	100	HIRA	45	0503	0505	2.5	200.0	70.0		
	9240	ARCE	20	1030.5	1210.8	203 U				
	18	MCMA	6	1133	1135	5			1	
	18	MCMA	6	1157	1158	2			1	
27	260	ONDR	41	0640	1323	463	20.0			
	100	GORK	44	1109		111 D		5.0		
	9240	ARCE	24	1454.5		13				
	2800	OTTA	20	1529	1540	45	1.6	0.8		
	930	BORD	45	1537	1538.1	2	10.0	2.0		
	4995	SGMR	1	1724.9	1725.8	1.5	3.0	1.0		
	2695	SGMR	3	1724.9	1725.8	3.1	45.4	13.7		
	2800	OTTA	1	1725	1725.8	2.5	7.8	2.6		
	2800	OTTA	8	1725.8	1725.8		48.0			
	2695	BOUL	8	1725.5	1726.5	1.5	37.0	16.0		
	3750	TYKW	1	2219.5	2220.2	1.5	3.0	1.0		
	2800	OTTA	1	2219.8	2220	1	1.8	0.9		
	9400	TYKW	1	2220	2220.2	1	5.0	2.0		
	9400	TYKW	1	2226	2226.6	2	6.0	2.0		
	3750	TYKW	1	2226	2226.6	2	4.0	1.0		
	2800	OTTA	1	2226	2226.5	1	1.4	0.7		
	18	BOUL	42	2347	0013	35			3	
28	100	GORK	44	0300 E		600 D		10.0		
	260	ONDR	41	0637	1117	513	25.0			
	9100	GORK	20	0848	0850 U	14	2.5	1.2		
	9100	GORK	20	0928.5	0930.5	13.5	3.2	1.5		
	9100	GORK	20	0946.5	0953	9	3.8	1.9		
	2800	OTTA	20	1140	1200	90	1.4	0.7		
	18	MCMA	6	1445	1449	3			1	
	18	MCMA	6	1655	1657	2			1	
	2800	OTTA	24	1810	1920	70	1.6	0.8		
	18	MCMA	6	1822	1823	2			1	
	2800	OTTA	24	1920		385 D	1.6			
29	2000	TYKW	1	0523	0524.4	4	3.0	1.0		
	260	ONDR	41	0640	0825	390	20.0			
	18	MCMA	6	1616	1618	4			1	
30	260	ONDR	41	0700	0741	310	35.0			
	29	UPIC	45	0723	0724.5	4				
	9100	GORK	20	0744.5	0755	15.5	2.3	1.2		
	9100	GORK	20	1016.7	1112	103 D	5.1			
	18	MCMA	41	1141	1142	3			1	
	4995	SGMR	20	1345.7	1347.7	10.9	2.2	1.3		
	8800	SGMR	1	1346	1346.6	2	3.2	1.0		
	8800	SGMR	1	1446.9	1450.4	6.6	4.4	1.3		
	4995	SGMR	1	1447.9	1450.3	4.3	4.1	1.2		
	8800	ATHN	1	1449.5	1450	2.7	5.8	1.9		
	4995	ATHN	1	1449.5	1450.1	2.8	3.9	1.3		
	2800	OTTA	1	1450	1450.3	1	1.4	0.7		
	18	MCMA	6	1450	1451	2			2	
31	9400	TYKW	20	0150	0230	240	8.0	5.0		
	3750	TYKW	20	0150	0230	240	5.0	3.0		
	2000	TYKW	20	0150	0230	240	2.5	1.5		
	1000	TYKW	40	0151.5	0157	7.5	8.0	0.6		
	2000	TYKW	1	0153	0157	10	2.2	0.7		
	1415	MANI	4	0156.8	0157.1	1.7	12.0	34.0		
	1000	TYKW	1	0321	0322.1	2	23.0	2.0		
	1000	TYKW	40	0555	0555.3	3	10.0	0.5		
	1000	TYKW	40	0616	0616.5	2	10.0	0.7		
	1000	TYKW	8	0656.2	0656.4	.4	24.0	6.0		
	536	ONDR	5	0656.5	0656.5	.5	45.0			
	260	ONDR	45	0812	0817	7	20.0			
	9100	GORK	20	1011	1016.2	26.5	4.6	2.3		
	29	UPIC	45	1054	1056.5	4				
	260	ONDR	5	1056	1056	1.5	20.0			
	536	ONDR	5	1103.5	1103.5	.5	45.0			
	29	UPIC	45	1103	1108	7				
	9100	GORK	22	1107.5	1130	52.5D	7.1			
	29	UPIC	45	1128.5	1131	3.5				
	536	ONDR	5	1131	1131	.5	45.0			
	29	UPIC	45	1142	1145	3.5				
	536	ONDR	45	1235.5	1237.5	3.5	50.0			
	606	SGMR	1	1236.7	1237.7	1.8	8.2	2.5		
	410	SGMR	6	1236.7	1237.5	1.9	7.5	2.2		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MAY 1974

MAY 1974	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
31	536	ONDR	45	1305.5	1306	1	40.0			
	245	SGMR	6	2022	2023.5	4.4	5.6	1.7	1	
	18	MCMA	41	2022	2025	5				
	2800	OTTA	21	2100	2305	160	2.6	1.3		
	2800	OTTA	20	2136	2144	75	5.6	2.6		

Observatories:

ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BERN = Berne
BORD = Bordeaux
BOUL = Boulder
CANR = Canary Islands
CRIM = Simferopol
CRON = Carnarvon
DWIN = Dwingeloo
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow IZMIRAN
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa ARO
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SLOU = Slough
TRST = Trieste
TYKW = Toyokawa
UPIC = Upice
VORO = Voroshilov

Explanation of Type Code:

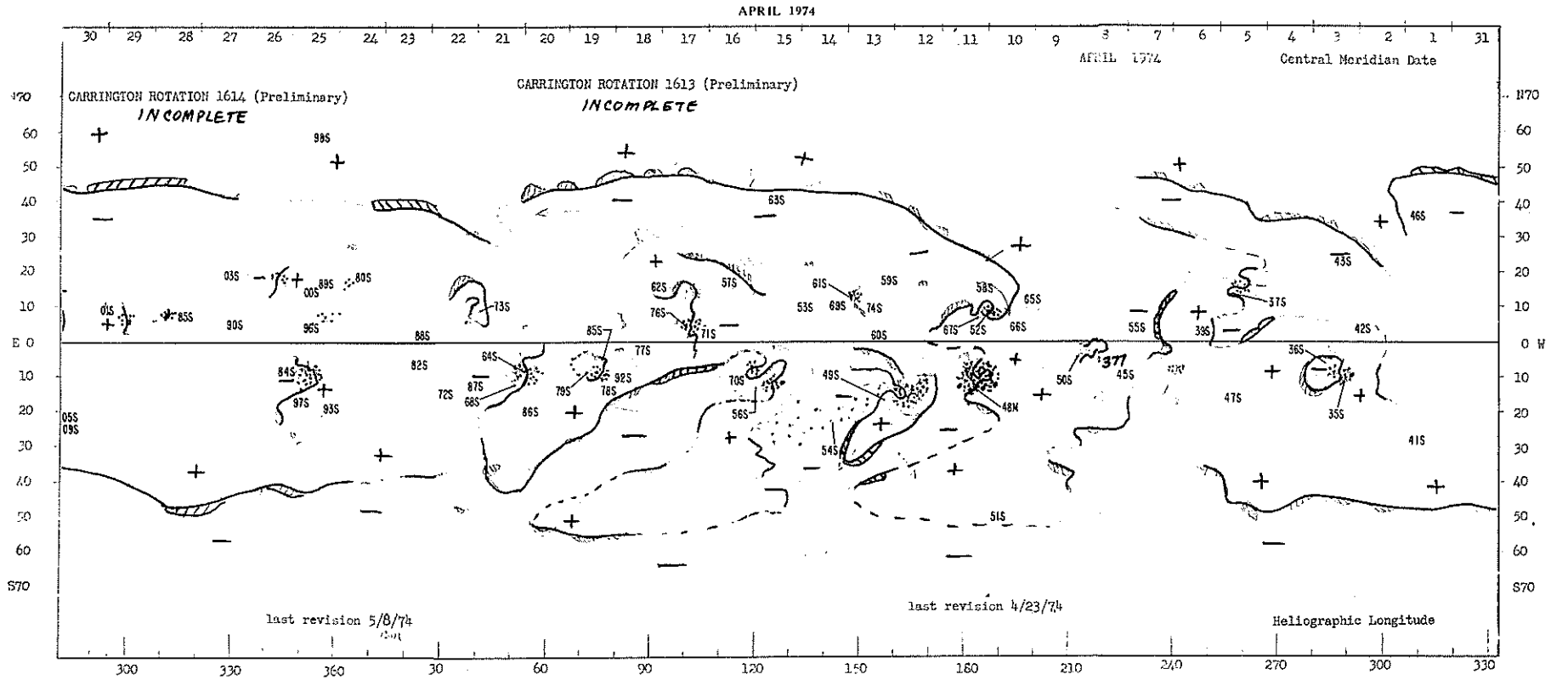
1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

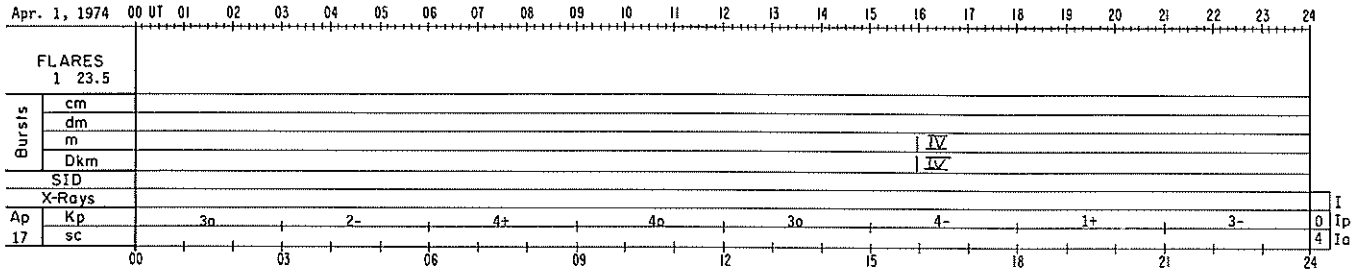
APRIL 1974 DATA

Contents

For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

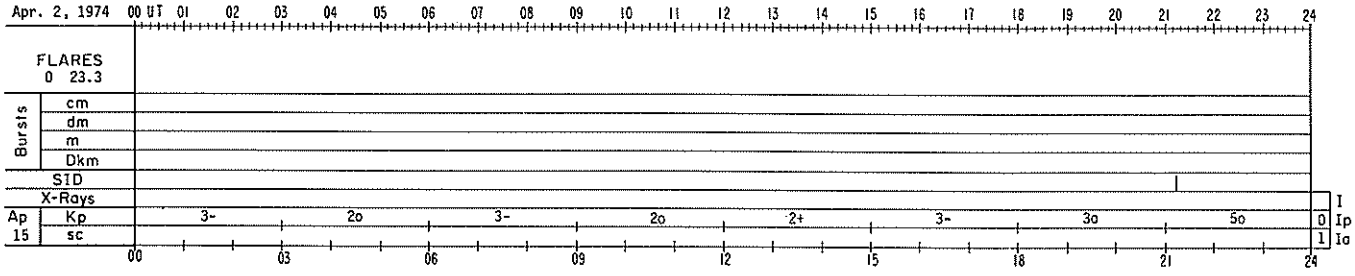
ABBREVIATED CALENDAR RECORD





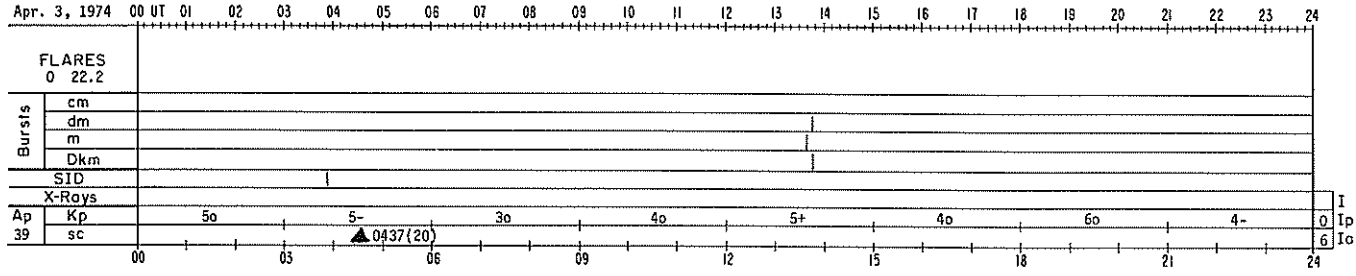
72 10 cm flux
26 Rz
CMP (12846) N36
(12841) S28

Aurora overhead over USSR at ϕ = 60° 1100-1500; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



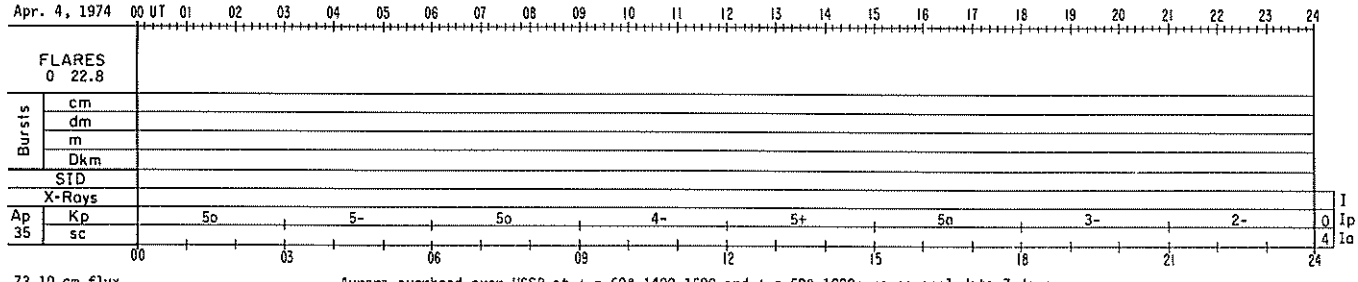
71 10 cm flux
20 Rz
CMP 12842 N05

One of ten most magnetically quiet days; no coronal data 7 days later on W. limb.



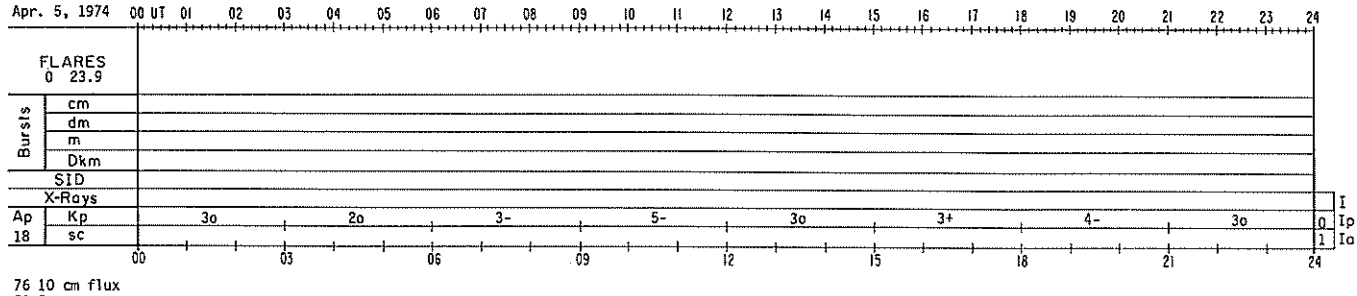
72 10 cm flux
19 Rz
CMP 12835 S11 19357 S11 (Bp 2
(12843) N24
(12836) S05

One of five most magnetically disturbed days with moderate activity after the sc at 0437; aurora overhead over USSR at ϕ = 57° 1800; no coronal data 7 days earlier on E. limb.

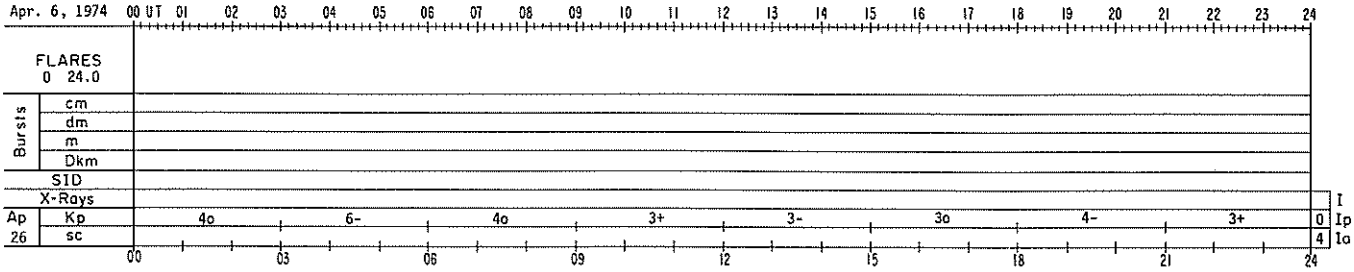


73 10 cm flux
22 Rz

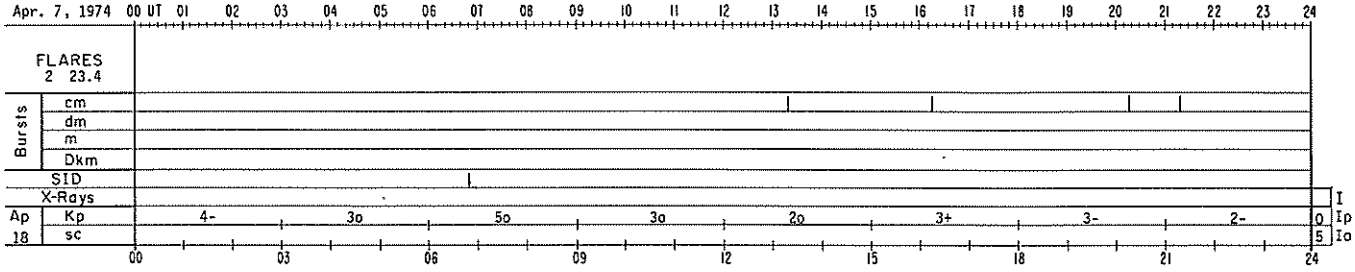
Aurora overhead over USSR at ϕ = 60° 1400-1500 and ϕ = 58° 1800; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



76 10 cm flux
21 Rz
CMP (12847) S15
12837 N14 (2) 19358 N11 (8)3

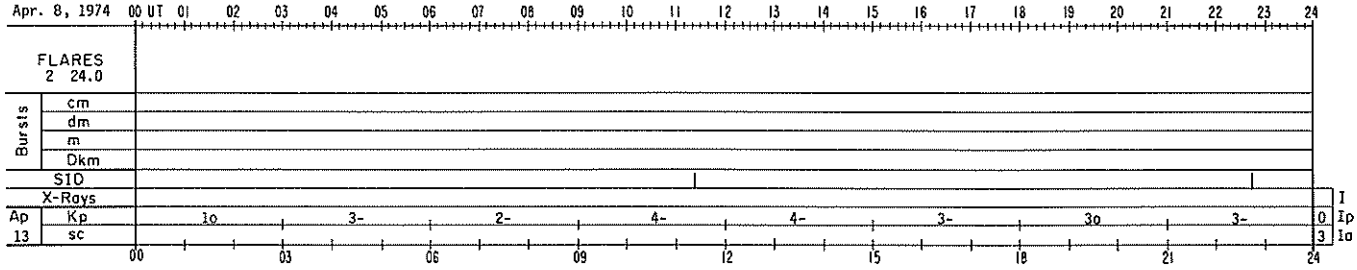


80 10 cm flux
23 Rz
CMP 12839 N03(2) N12



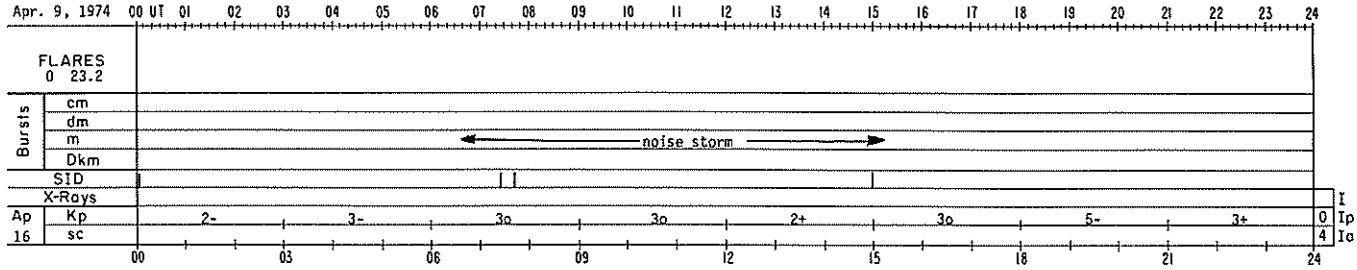
80 10 cm flux
28 Rz
CMP (12855) N03

Moderately br. green corona 7 days later on NW limb.



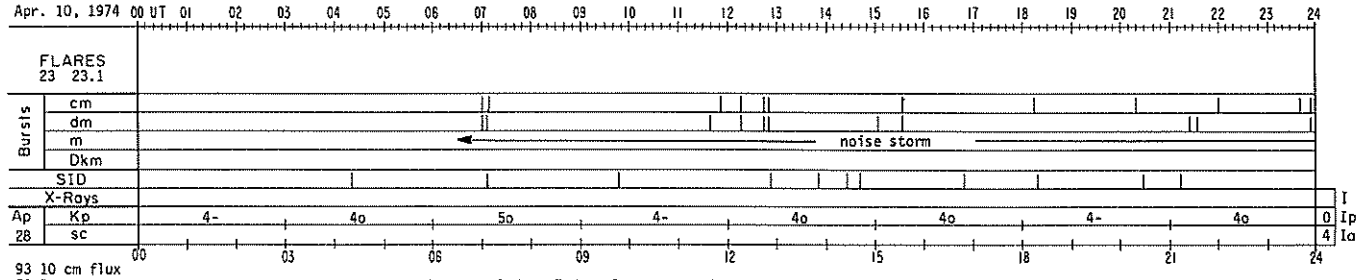
81 10 cm flux
38 Rz
CMP 12845 S08 (3)

One of ten most magnetically quiet days.



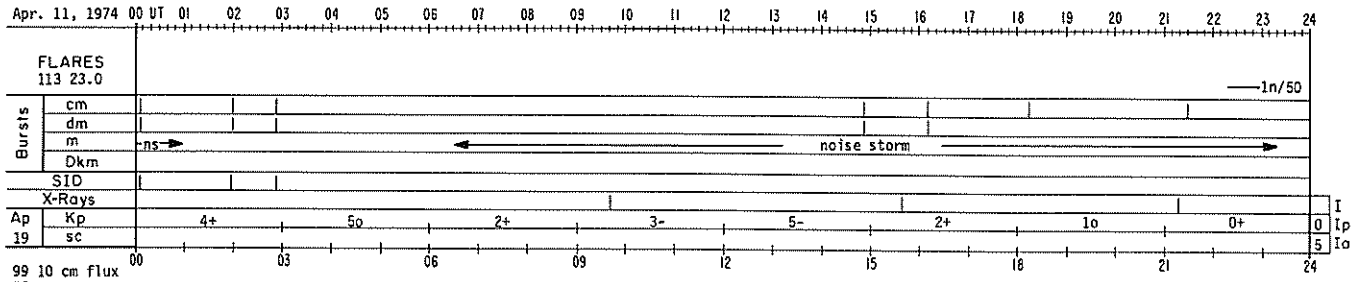
88 10 cm flux
58 Rz
CMP 12850 S04 19361 S04 (βp)3 CMP April 8

One of ten most magnetically quiet days.



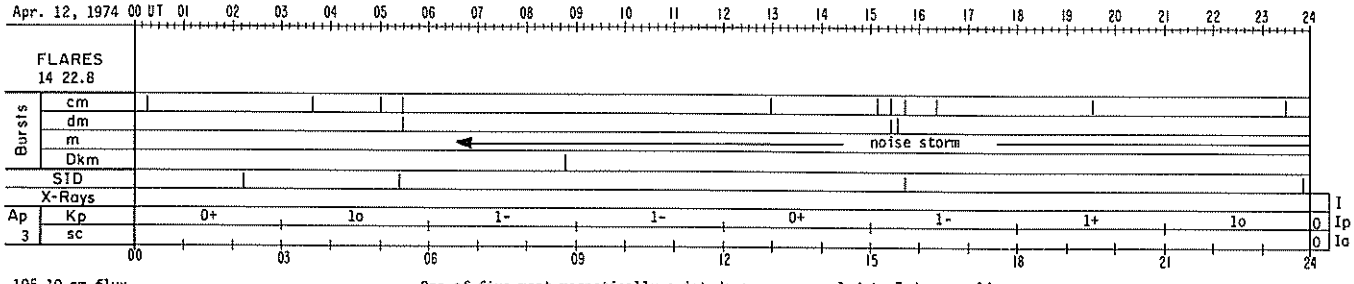
93 10 cm flux
70 Rz
CMP (12865) N12 (19365) N11 (βp)2
(12866) N05
(12851) S49
12852 N08

No coronal data 7 days later on W. limb.



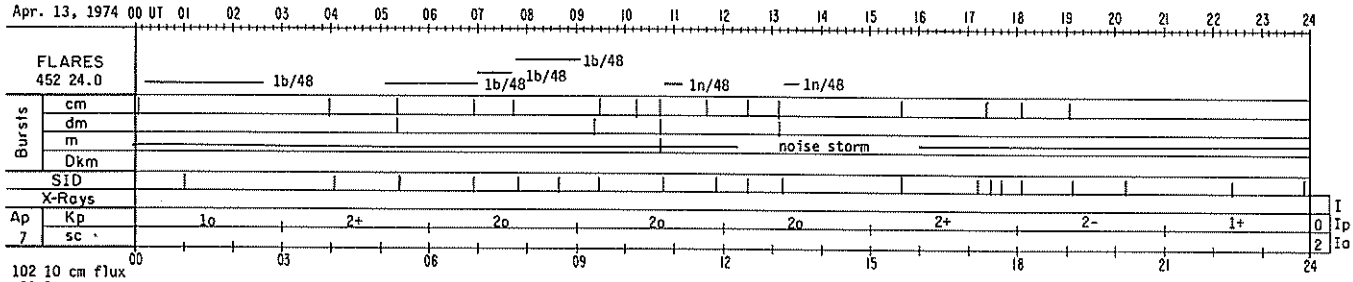
99 10 cm flux
75 Rz
CMP (12858) N15
(12867) N08 (19366) N07 (βp)3
12848 S12 19359 S12 (δ)5
(19363) S08 (αf)1

No coronal data 7 days later on W. limb.



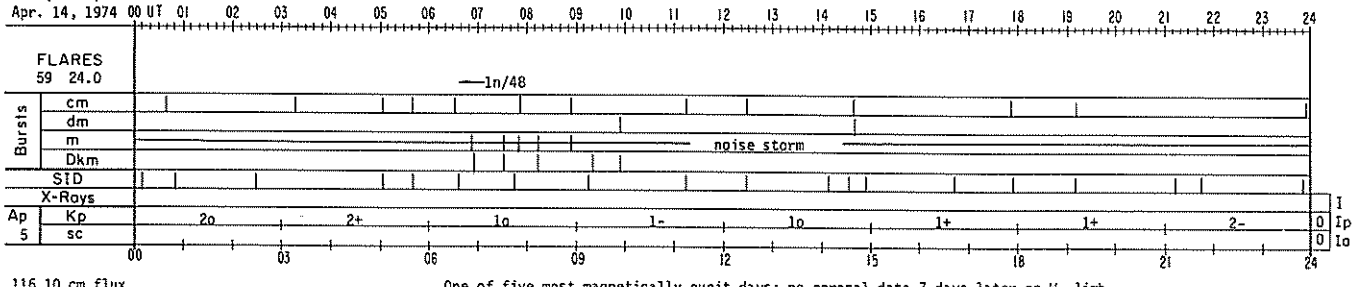
105 10 cm flux
78 Rz

One of five most magnetically quiet days; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



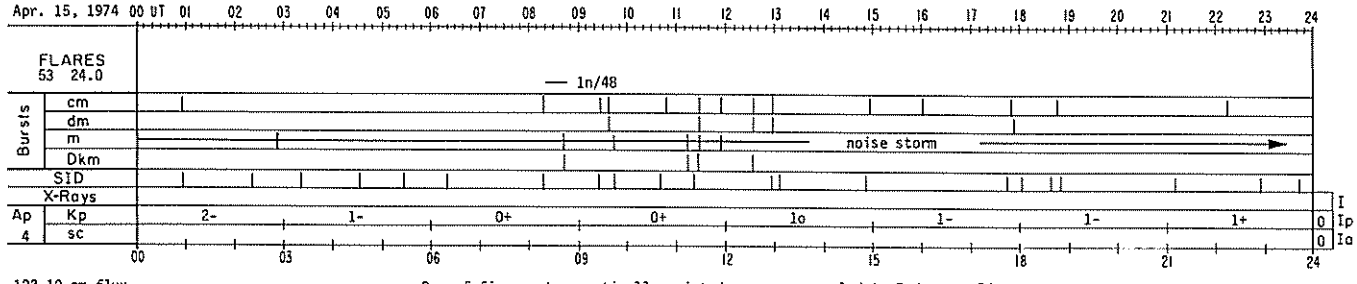
102 10 cm flux
83 Rz
CMP 12859 N18
12849 S16 (3) 19362 S16 (Bp)3 CMP April 12
(12860) N02
(12874) N10
12861 N13
(12869) N10

One of ten most magnetically quiet days; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



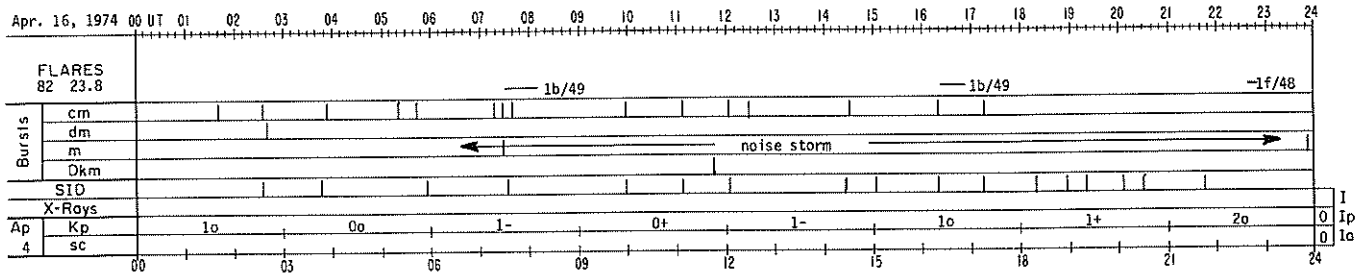
116 10 cm flux
87 Rz
CMP 12854 S23 (3)
(12853) N10

One of five most magnetically queit days; no coronal data 7 days later on W. limb.



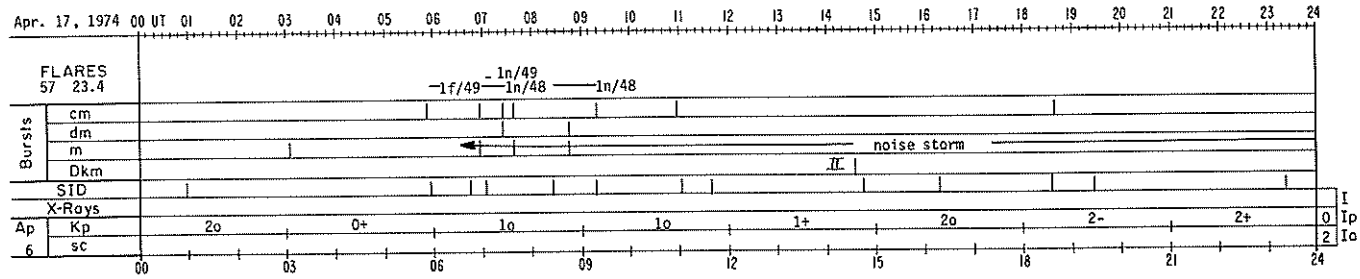
122 10 cm flux
98 Rz
CMP (12863) N41
12856 S14 (19367) S12 (α)2

One of five most magnetically quiet days; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



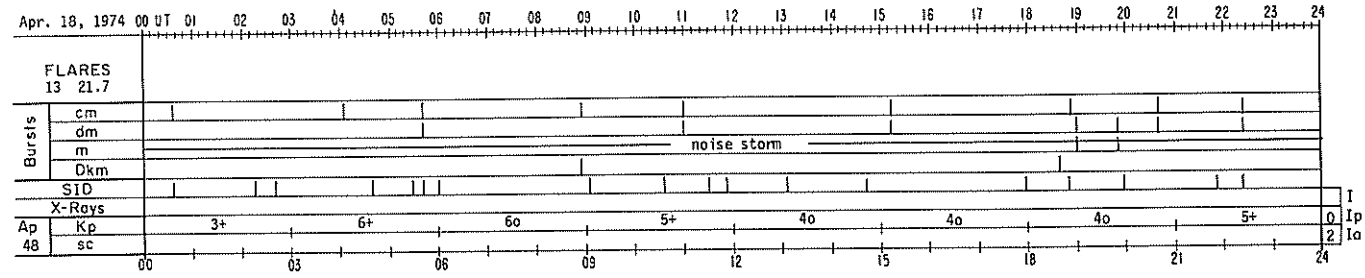
114 10 cm flux
93 Rz
CMP 12870 S10 (19368) S09 (Bp 1
12857 N17 (2)

One of five most magnetically quiet days; no coronal data 7 days earlier on E. limb.



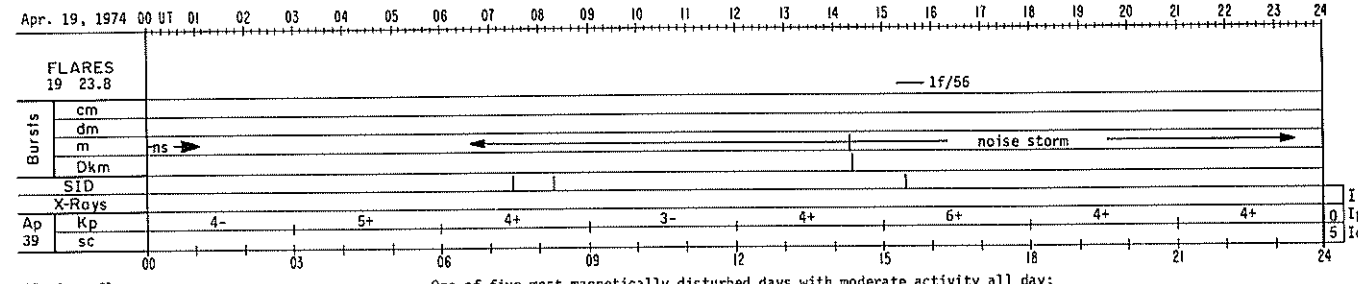
101 10 cm flux
75 Rz
CMP (12871) N02
(12876) N04 (19369) N03 Bf
(12862) N14

One of five most magnetically quiet days.



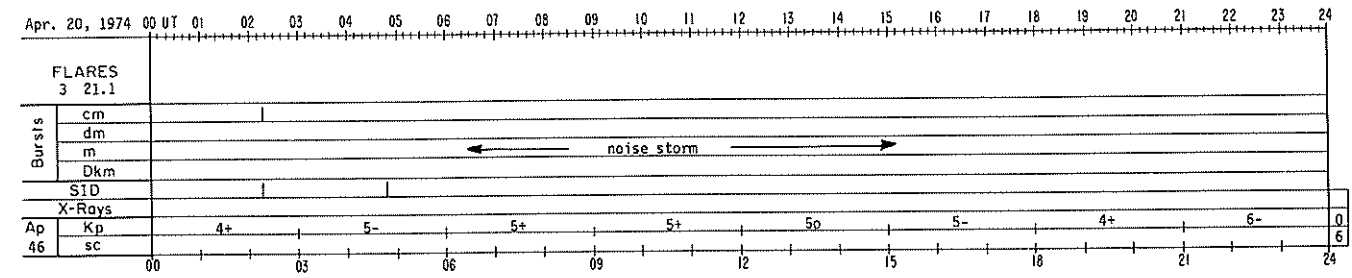
97 10 cm flux
64 Rz
CMP (12877) S03
(12892) S10
(12878) S14

One of five most magnetically disturbed days with moderate storm activity after 0300; aurora overhead over USSR at ϕ = 60° 1000, 1100, 1200, 1300 and at ϕ = 57° 2100; no coronal data 7 days earlier on E. limb.



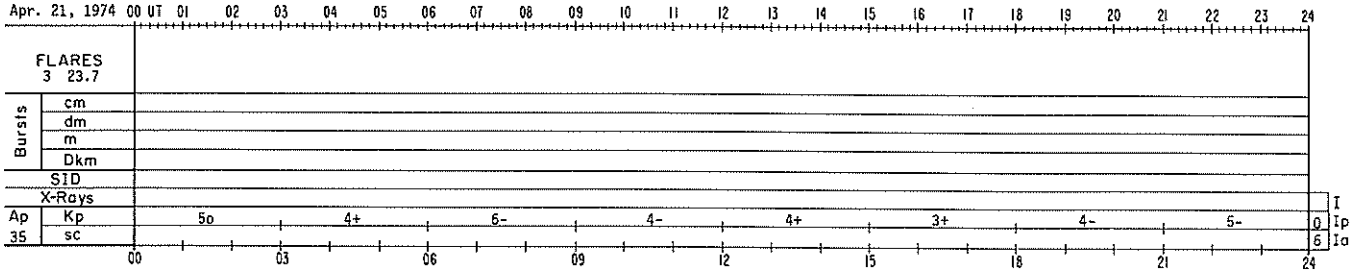
87 10 cm flux
51 Rz
CMP (12883) S02
12879 S08

One of five most magnetically disturbed days with moderate activity all day; no coronal data 7 days later on W. limb.



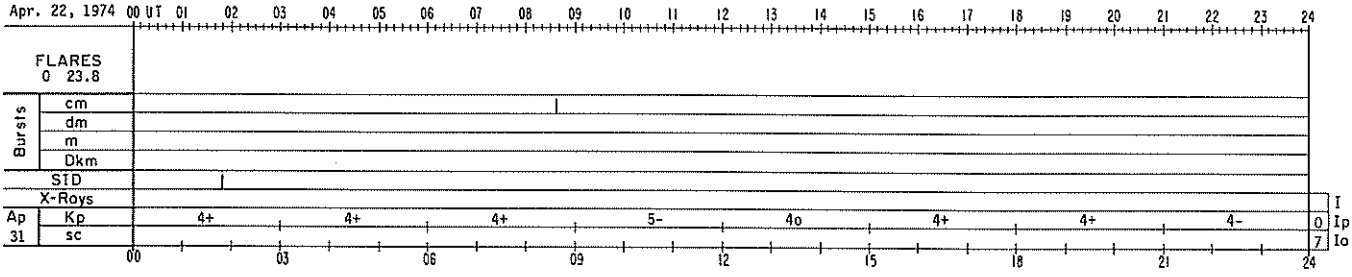
82 10 cm flux
49 Rz
CMP (12886) S20
12864 S08 (2) 19364 S08 αp

One of five most magnetically disturbed days with moderate activity all day; aurora overhead over USSR at ϕ = 57° 1800 and 2000; no coronal data 7 days later on W. limb.



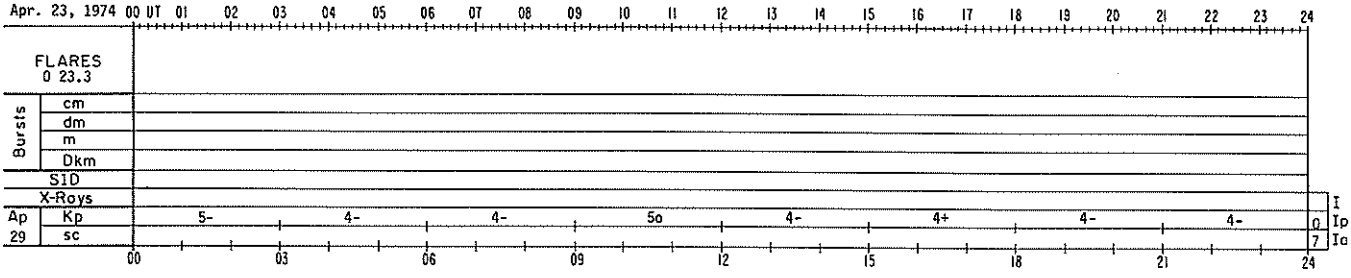
79 10 cm flux
43 Rz
CMP 12868 S12
(12887) S12
12873 N08 (2)

One of five most magnetically disturbed days with moderate activity all day; auroral rays seen as glow over eastern Atlantic at ϕ = 59° 0100-0400, rays visible over western Atlantic at ϕ = 56° 0430-0500 and as a glow 0500-0730; moderately br. green corona 7 days earlier on SE limb, no coronal data 7 days later on W. limb at 210°- 360°.



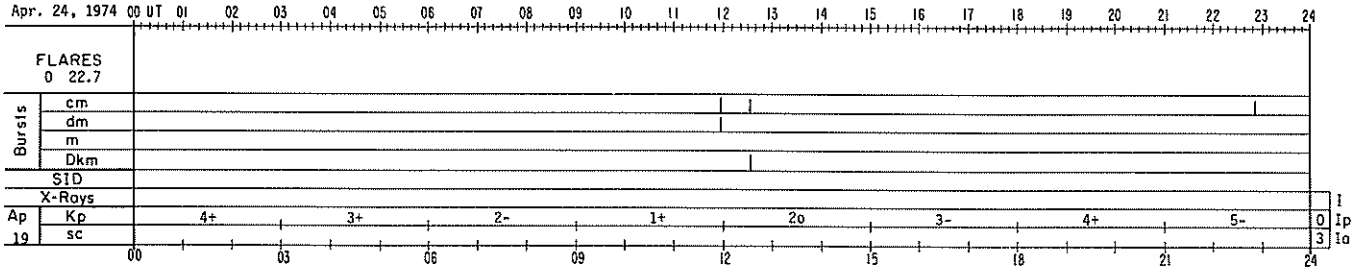
74 10 cm flux
28 Rz
CMP (12872) S14

No coronal data 7 days later on W. limb.



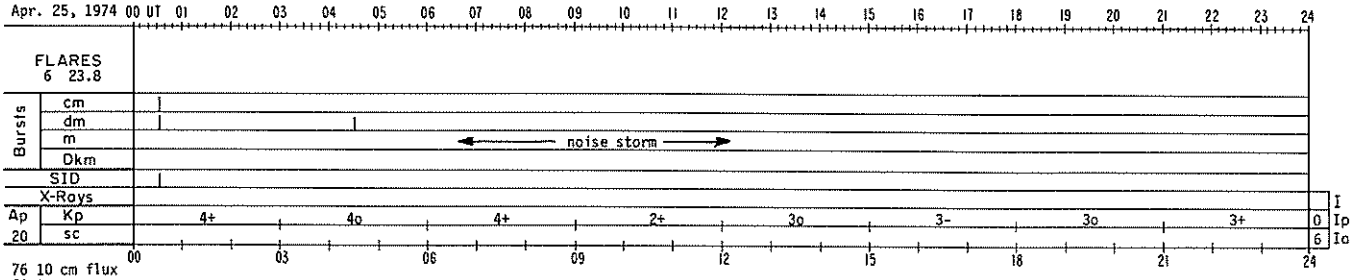
73 10 cm flux
17 Rz
CMP (12888) N02
(12882) S06

Moderately br. green corona 7 days earlier on NE limb.



74 10 cm flux
19 Rz
CMP 12880 N17

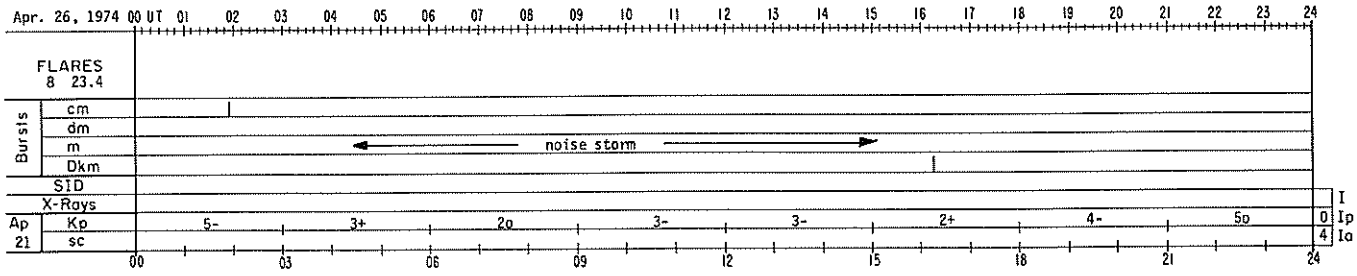
No coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



76 10 cm flux
20 Rz
CMP (12893) S19
12889 N17
(12898) N58
(12900) N17
(12896) N05

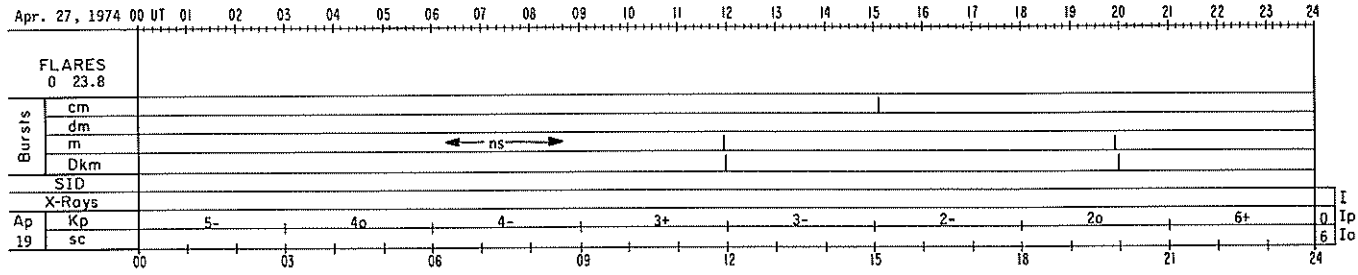
No coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.

(12897) S16
12884 S08 19370 S08 (8p)4



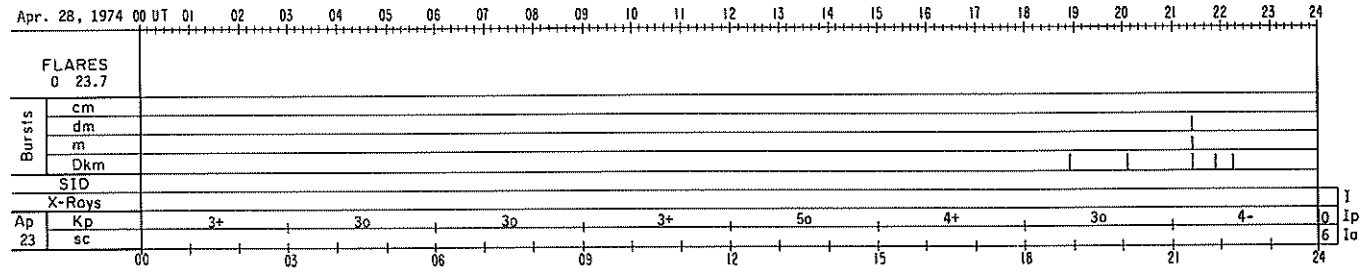
74 10 cm flux
20 Rz

No coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



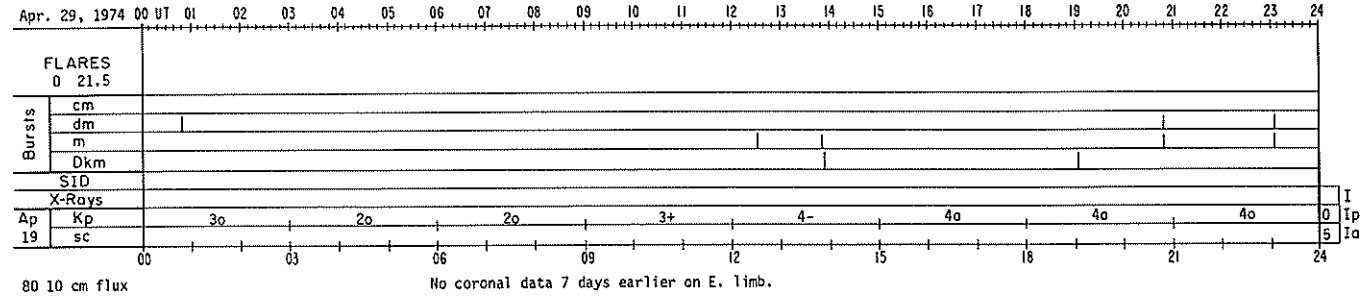
74 10 cm flux
38 Rz
CMP (12890) N05
(12903) N18 (19372) N20 (α)2

No coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



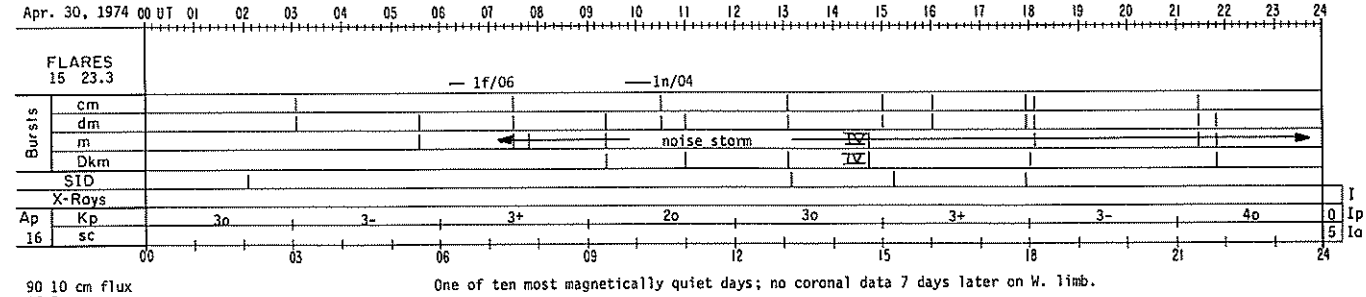
77 10 cm flux
30 Rz
CMP 12885 N07

No coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



80 10 cm flux
22 Rz
CMP 12901 N07 (19375) N07 (βp)4

No coronal data 7 days earlier on E. limb.



90 10 cm flux
16 Rz
CMP 12905 S21
12909 S22

One of ten most magnetically quiet days; no coronal data 7 days later on W. limb.

REGIONAL FLARE INDEX

APRIL 1974

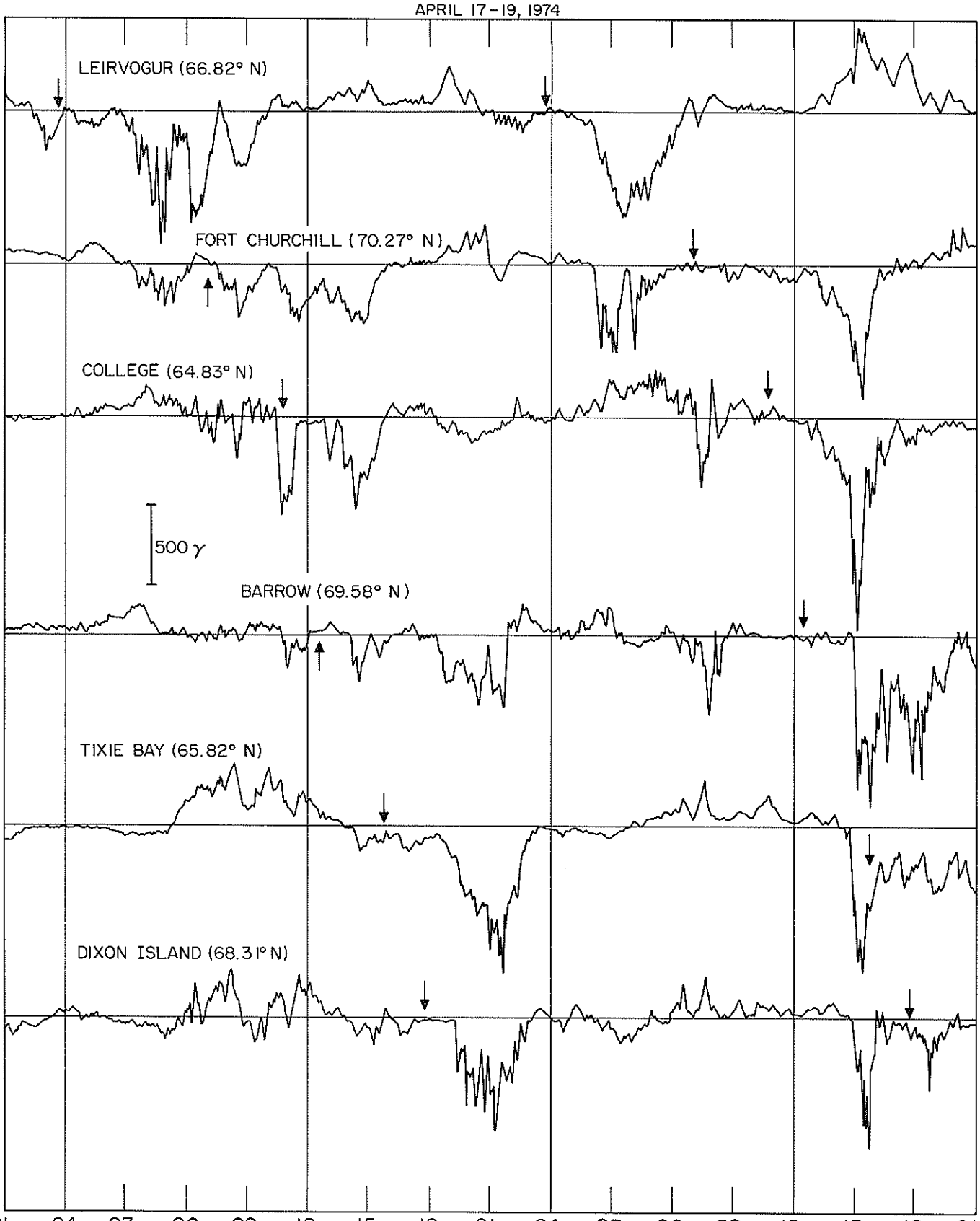
MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
12835	S11	74/04/03.3	74/03/30	74/03/30	3.81	3.81	1
12850	S 4	74/04/09.0	74/04/11	74/04/11	39.71	39.71	3
12848	S12	74/04/11.3	74/04/07	74/04/17	690.19	62.74	44
12849	S16	74/04/13.1	74/04/08	74/04/19	129.52	10.79	16
12856	S13	74/04/15.9	74/04/18	74/04/22	35.91	7.18	9
12884	S 8	74/04/25.8	74/04/25	74/04/26	13.71	6.86	2

Note:
The Regional Flare Index and count of flares in each region has in previous months included each maximum of a multi-maximum event. This has caused some regions to appear to be more flare producing than is probably warranted. Beginning with April 1972 only the principal maximum of a multi-maximum event will be used in the calculation. Also note that only the Confirmed Events as selected for the "I.A.U. Quarterly Bulletin on Solar Activity" are included in the calculation.

Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no confirmed flares during its disk passage.

H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

APRIL 17-19, 1974

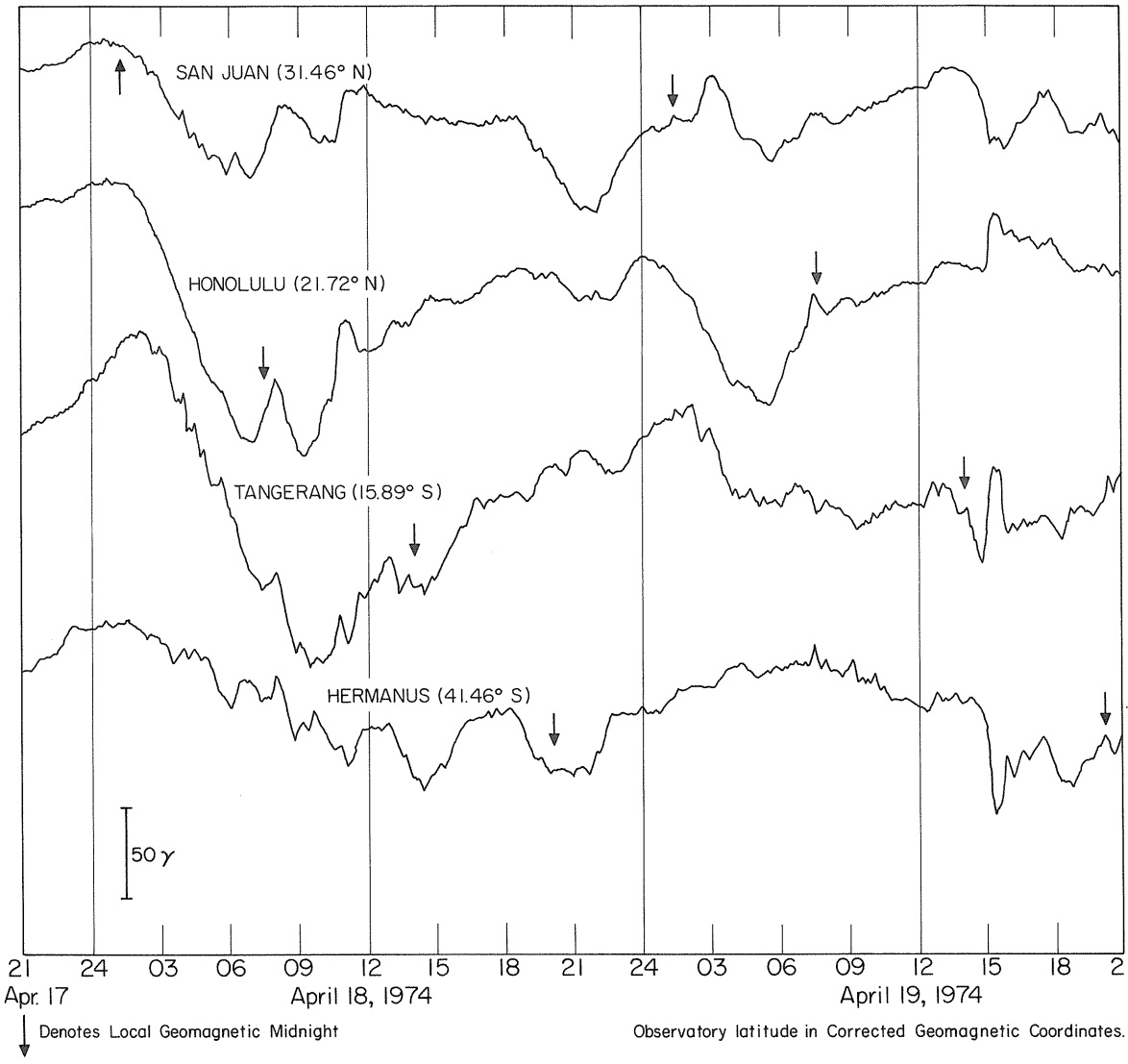


↓ Denotes Local Geomagnetic Midnight

Observatory latitude in Corrected Geomagnetic Coordinates.

H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

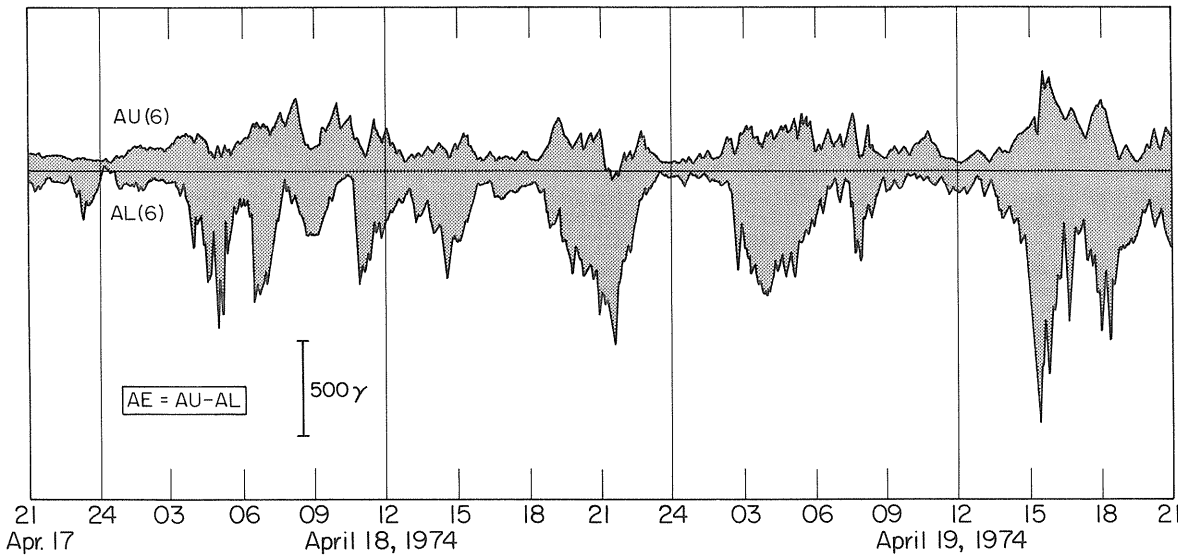
APRIL 17-19, 1974



↓ Denotes Local Geomagnetic Midnight

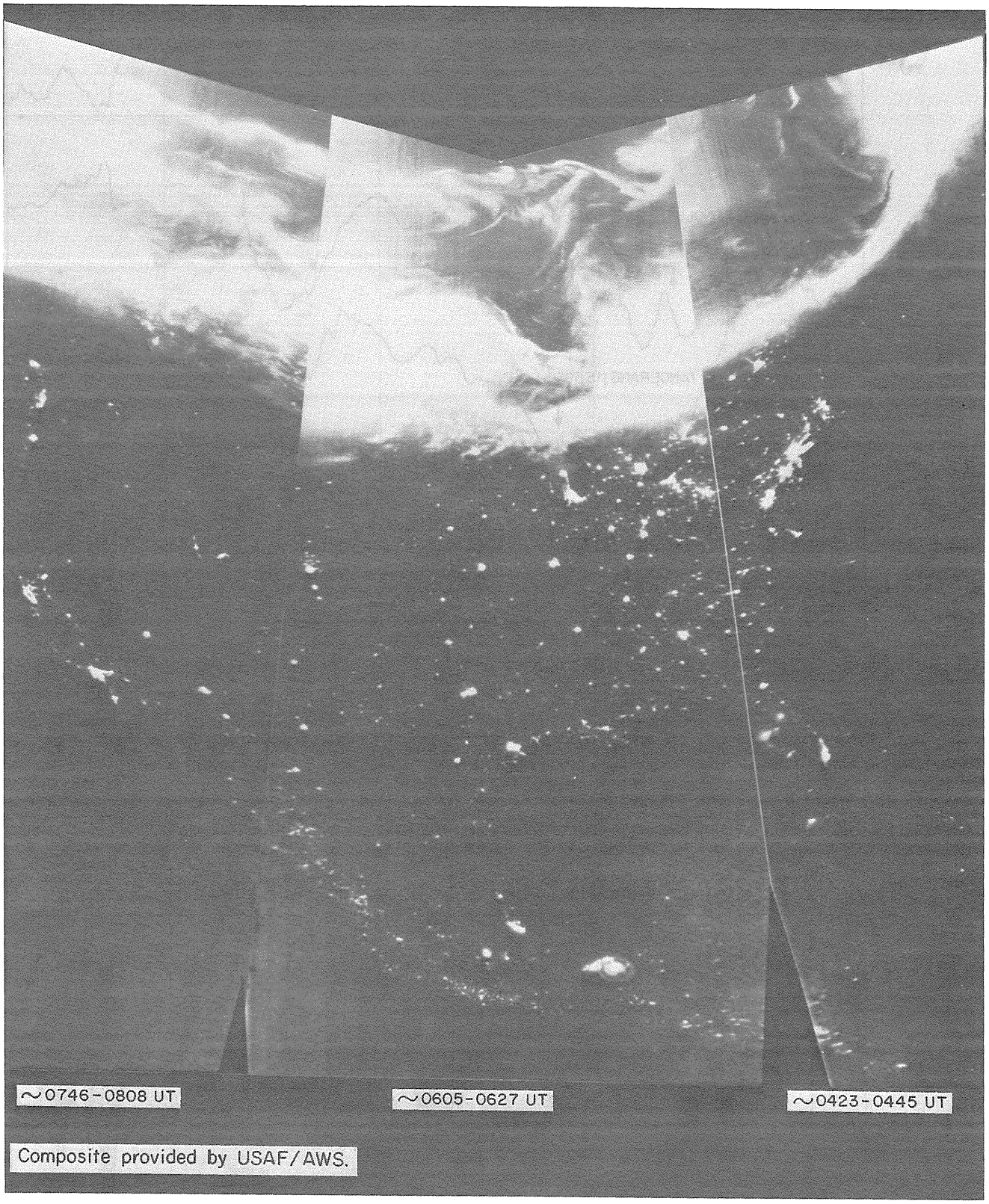
Observatory latitude in Corrected Geomagnetic Coordinates.

PRELIMINARY AU(6) AND AL(6) 2.5-MIN. INDICES



COMPOSITE DAPP AURORAL IMAGERY

APRIL 18, 1974



MISCELLANEOUS DATA

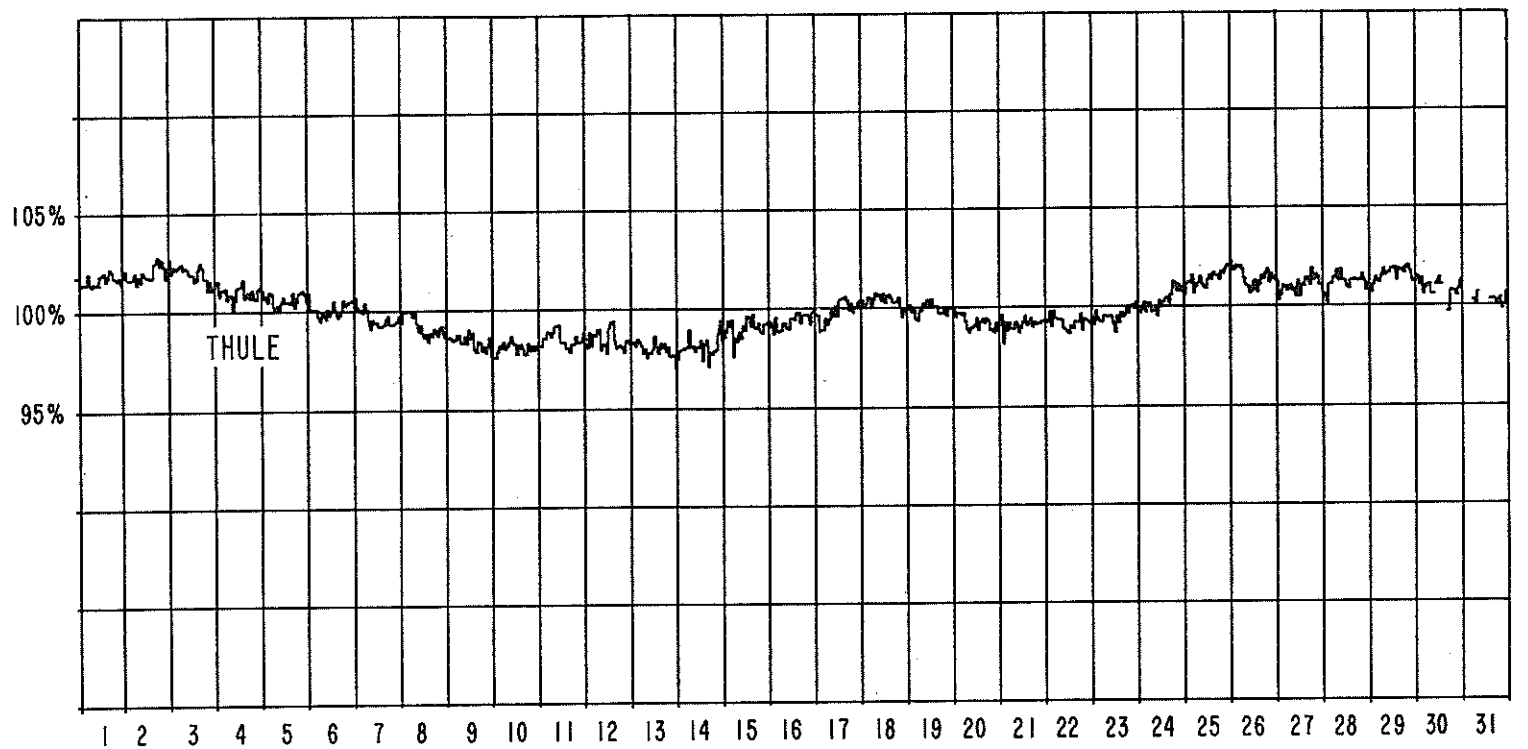
Contents

For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

COSMIC RAY INDICES

(Pressure Corrected Hourly Totals)

AUGUST 1974



	DAILY AVERAGE COUNTS PER HOUR
1	4512.5
2	4526.2
3	4525.9
4	4482.3
5	4466.5
6	4444.9
7	4423.5
8	4404.3
9	4368.5
10	4353.7
11	4373.0
12	4370.0
13	4349.9
14	4353.8
15	4394.4
16	4410.9
17	4433.0
18	4454.2
19	4435.8
20	4405.8
21	4400.5
22	4404.0
23	4419.2
24	4451.9
25	4500.5
26	4504.8
27	4485.5
28	4491.8
29	4507.6
30	4480.3
31	4451.2

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