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Solar - Geophysical Data

NO. 381 MAY 1976

Part II (Comprehensive Reports)

DATA FOR
NOVEMBER 1975
OCTOBER 1975
& MISCELLANEA

**NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO**

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SOLAR - GEOPHYSICAL DATA

No. 381

Issued in two parts

Hope I. Leighton, Editor

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Solar - Terrestrial Data Services Division

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H α SOLAR FLARES
NOVEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE 1975 NOV	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT. ✓	MER. DIST.											
	01	0237	0243		NO FLARE PATROL												
	01	0304	0339		NO FLARE PATROL												
	01	0345	0353		NO FLARE PATROL												
	01	0357	0403		NO FLARE PATROL												
	01	0437	0448		NO FLARE PATROL												
	01	0457	0459		NO FLARE PATROL												
	03	0639	0720		NO FLARE PATROL												
	03	0725	0732		NO FLARE PATROL												
	03	2010	2104		NO FLARE PATROL												
	03	2112	2230		NO FLARE PATROL												
GRP62927	04	0827+7	0835	0856	N03	E88	.999	13926	11.0	29	-N						
ARCE	04	0827E		09070	N03	E88	.999	13926	11.0	400	-N	C	0853	48			
ABST	04	0834	0836	0845	N04	E88	.999	13926	11.0	11	1F	C	0836	131			
928 ARCE	04	0927E		09500	S03	E63	.894	13927	9.1	230	-F	C	0944	60	.8		
929 HTPR	04	1019	1021	1027	N05	E90	1.000	13926	11.2	8	-F	C	1021	10			
930 HTPR	04	1047	1049	1051	N05	E90	1.000	13926	11.2	4	-F	C	1049	10			
931 HTPR	04	1122	1123	1125	S03	E33	.555	13922	6.9	3	-F	C	1123	10	.1		
932 HTPR	04	1150	1152	1156	N05	E90	1.000	13926	11.2	6	-F	C	1152	20			
933 HTPR	04	1218	1219	1223	N05	E85	.996	13926	10.9	5	-F	C	1219	20			
934 PALE	04	2050	2050	2106	N04	E80	.984	13926	10.9	15	-F	2 C		6			
GRP62935	05	0041E	0041	0047	N04	E77	.973	13926	10.8	6	-F			20			
PALE	05	0041E	0041U	0047	N04	E76	.969	13926	10.7	60	-F	2 C		15			
MANI	05	0043E	0043U	0047	N04	E79	.981	13926	11.0	40	-F	3 V	0043	20	.5		
	05	0237	0325		NO FLARE PATROL												
936 ABST	05	0649E	0649	07010	N04	E75	.965	13926	10.9	120	1F	F	0649	175			
937 ISTA	05	0810E		0830	N02	E71	.945	13926	10.7	200	-N						
938 MONT	05	0835E	0835	08440	N04	E74	.960	13926	10.9	90	-N	C	0835	110			
GRP62939	05	0943E	0956	1015	N04	E71	.944	13926	10.7	32	-F						
HTPR	05	0943E		0949	N04	E72	.950	13926	10.8	60	-F	C	0944	10			
HTPR	05	0948	0956	1015	N05	E71	.944	13926	10.7	27	-F	C	0956	30			
GRP62940	05	1018+9	1033	1225	N04	E71	.944	13926	10.8	127	-F						
			1051														
MONT	05	1018	1051	12160	N04	E73	.955	13926	10.9	1120	-N	C	1051	50			
HTPR	05	1030	1038	1225	N05	E70	.938	13926	10.7	115	-F	C	1038	20			
GRP62941	05	123E	1243	1313	N05	E69	.932	13926	10.7	38	-F						
			1306														
HTPR	05	123E	1243	1305	N05	E70	.938	13926	10.8	30	-F	C	1243	40			
HTPR	05	1257	1306	1313	N05	E69	.932	13926	10.7	16	-F	C	1306	20			
GRP62942	05	134E+1	1356+3	1410	N04	E68	.926	13926	10.7	25	-F			40			
HTPR	05	1345	1356	1410	N05	E69	.932	13926	10.7	25	-N	C	1356	40			
HUAN	05	1346	1359	1409	N03	E68	.926	13926	10.7	23	-F	1 C	1359	35			
943 HTPR	05	1422	1438	1451	N05	E68	.926	13926	10.7	29	-F	C	1438	30			
944 MCHA	05	1458E		1650	N04	E70	.939	13926	10.9	1120	? N	C	1459	100	3.0		
IMP	1	NO		80UL2	HUAN1												
945 HUAN	05	1655	1655	1657	N03	E68	.926	13926	10.8	2	-F	1 C	1655	30			
GRP62946	05	1710+0	1712+0	1717	N03	E68	.926	13926	10.8	7	-F			20			
PALE	05	1710	1712	1721	N03	E66	.913	13926	10.7	11	-F	2 C		12			
MCHA	05	1710	1712	1716	N03	E69	.933	13926	10.9	6	-N	C	1712	20	.6		
HUAN	05	1710	1712	1717	N03	E68	.926	13926	10.8	7	-F	1 C	1712	20			
GRP62947	05	1737+6	1744+0	1751	N03	E68	.926	13926	10.8	14	-N			30			
HUAN	05	1737	1744	1751	N03	E68	.926	13926	10.8	14	-F	1 C	1744	30			
PALE	05	1743	1744	1819	N04	E66	.912	13926	10.7	36	-F	3 C		26			
MCHA	05	1743	1744	1749	N03	E69	.933	13926	10.9	6	-B	C	1744	20	.6		

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H α SOLAR FLARES

NOVEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE 1975 NOV	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MAGNITUDE	PLAGE REGION			CNR DAY	MIR	COND	TYPE	TIME UT		MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.
					LAT.	MER. DIST.													
GRP62962	09	2317+1	2320+0	2327	N05	E08	.141	13926	10.6	10	-F				35	.4	E		
VORO	09	2317	2320	2327	N05	E08	.141	13926	10.6	10	-F		C	2320	54	.6	E		
PALE	09	2318	2320	2326D	N05	E08	.141	13926	10.6	8D	-F	2	C		18		DE		
963	VORO	10	0100	0103	0112	N05	E08	.141	13926	10.6	12	-B		C	0103	72	.7	E	
964	VORO	10	0232	0238	0248	N05	E08	.141	13926	10.7	16	-B		C	0238	90	.9	D	
		10	0500	0515	NO FLARE PATROL														
		10	0554	0557	NO FLARE PATROL														
GRP62965	10	0721+5	0728+1	0736	N02	E04	.074	13926	10.6	15	-N				90	.9	HJU		
ATHN	10	0721	0729	0736	N02	E06	.107	13926	10.8	15	-N	3	V		80		U H		
ATHN	10	0721	0729	0736	N02	E06	.107	13926	10.8	15	-N	3	C		80		U H		
MANI	10	0723	0728	0732D	N03	E04	.070	13926	10.6	9D	-N	3	P	0728	60	.6	FR		
ABST	10	0726	0728	0736	N03	E03	.053	13926	10.5	10	-N		C	0728	131	1.3	EJ		
CATA	10	0735E	0735	0810	N02	E03	.058	13926	10.5	35D	-N	3		0735	84	1.0			
GRP62966	10	0830	0842+3	0846	N02	E05	.091	13926	10.7	16	-F				30	.3	F		
CATA	10	0830	0845	0850	N02	E03	.058	13926	10.6	20	-N	3		0845	84	1.0			
ATHN	10	0842E	0842U	0846	N02	E06	.107	13926	10.8	40	-F	3	C		32		F		
ATHN	10	0842E	0842U	0846	N02	E06	.107	13926	10.8	4D	-F	3	V		32		F		
GRP62967	10	1129+0	1132+1	1141	N03	E00	.008	13926	10.5	12	-N						U		
RAMY	10	1129	1133	1141	N02	E00	.025	13926	10.5	12	-N	4	C		180		UDE		
HTPR	10	1129	1132	1140	N04	E01	.020	13926	10.6	11	-B		C	1132	20	.2			
LV0V	10	1137E	1141	1156	N03	E00	.008	13926	10.5	19D	-N		C	1141	150	1.6	B		
GRP62968	10	1428+1	1433+2	1451	N04	E00	.010	13926	10.6	23	-F						F		
RAMY	10	1428	1433	1447	N04	W01	.020	13926	10.5	19	-N	4	C		36		F		
BOUL	10	1429	1435	1455	N04	E00	.010	13926	10.6	26	-F	1	C	1435	107	1.1			
		10	2120	2242	NO FLARE PATROL														
GRP62969	11	0109+3	0113+3	0125	N04	W05	.038	13926	10.7	16	-F				60	.6			
VORO	11	0109	0114	0125	N04	W06	.105	13926	10.6	16	-F		C	0114	81	.8	D		
MANI	11	0111	0116	0124	N03	W06	.105	13926	10.6	13	-N	3	P	0116	90	.9	F		
PALE	11	0112	0113	0115D	N04	W04	.071	13926	10.8	30	-F	3	C		38		DE		
PALE	11	0112	0113	0115D	N04	W04	.071	13926	10.8	30	-F	3	V		38		DE		
970	CATA	11	0900E	0900	0910	N02	W10	.175	13926	10.6	10D	-F	3		0900	56	.6		
		11	2232	2244	NO FLARE PATROL														
		11	2251	2252	NO FLARE PATROL														
		12	0124	0131	NO FLARE PATROL														
		12	0310	0320	NO FLARE PATROL														
971	BOUL	12	2024	2025	2032	N02	W26	.438	13926	10.9	8	-F	2	C	2025	21	.2		
GRP62972	12	2035	2039	2052	S13	E10	.326	13936	13.6	17	-F						F		
BOUL	12	2035	2039	2052	S12	E09	.303	13936	13.5	17	-F	2	C	2039	42	.4			
RAMY	12	2038E		2038D	S15	E11	.362	13936	13.7		-F	2	V		143		F		
973	BOUL	12	2144	2146	2156	N02	W28	.469	13926	10.8	12	-F	2	C	2146	21	.2		
		13	0649	0654	NO FLARE PATROL														
974	CULG	14	0334	0335	0338	N02	W47	.731	13926	10.6	4	-F		C	0335	15	.2		
GRP62975	14	0409	0412	0423	S08	E77	.977	13937	19.9	14	1N				76				
CULG	14	0409	0412	0418	S10	E80	.987	13937	20.2	9	1N		P	0412	60	2.4			
MANI	14	0416E	0416U	0427	S07	E75	.968	13937	19.8	11D	-N	2	V	0416	80	2.0			
GRP62976	14	0646	0652+2	0706	N07	E17	.299	13934	15.6	20	-F						E		
ABST	14	0646	0652	0706	N07	E18	.315	13934	15.6	20	-F		C	0652	70	.8	D		
ABST	14	0650	0654	0702	N07	E16	.283	13934	15.5	12	-F		C	0654	87	1.0	E		
977	ARCE	14	0807E		0835D	N06	E26	.440	13934	16.3	28D	-N		C	0819	45	.5		
GRP62978	14	0952	0959	1005	S06	E71	.948	13937	19.7	14	-F						K		
		14	0952	0959	1004	S04	E72	.953	13937	19.8	12	-F		C	0959	10		K	
HTPR	14	1002	1005	1006	S08	E70	.944	13937	19.7	4	-F		C	1005	10	.2			

H α SOLAR FLARES

NOVEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 NOV	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH FLARE REGION	CNR DAY			COND	TYPE	TIME UT	MEAS. AREA MIL. of Dia	CORR. AREA Sq. Deg.	
					LAT.	NER. DIST.											
GRP62979	14	1141+4	1150+4	1159	N06	E23	.393	13934	16.2	18	-F				70	.8	F
	14	1141	1151	1159	N06	E23	.393	13934	16.2	18	-F	4	C	1150	63		F
	14	1145	1150	1158	N05	E23	.391	13934	16.2	13	-N				80	.9	E
	14	1140E	1154	1159	N07	E24	.411	13934	16.3	110	-F	4	V		64		F
980 HTPR	14	1241	1243	1245	S08	E69	.938	13937	19.7	4	-F		C	1243	10	.2	
GRP62981	14	1256+0	1257+0	1259	S06	E78	.980	13937	20.4	3	-F				25		D
	14	1256	1257	1259	S07	E86	.998	13937	21.0	3	-F		C	1257	20		D
	14	1256	1257	1259	S06	E71	.948	13937	19.9	3	-F		C	1257	30	.5	
GRP62982	14	1303+1	1305+1	1311	N05	E21	.359	13934	16.1	8	-F				50	.5	E
	14	1303	1305	1312	N06	E21	.361	13934	16.1	9	-F		C	1305	60		E
	14	1304	1306	1309	N05	E21	.359	13934	16.1	5	-N		C	1306	50	.6	
983 HTPR	14	1334	1335	1339	S08	E68	.932	13937	19.7	5	-F		C	1335	10	.2	
984 HTPR	14	1413	1443	1455	S08	E67	.925	13937	19.6	42	-F		C	1443	40	.6	
	15	0341	0348		NO FLARE PATROL												
	15	0400	0409		NO FLARE PATROL												
	15	0510	0526		NO FLARE PATROL												
	15	0741	0745		NO FLARE PATROL												
GRP62985	15	0942+3	0945+4	0954	N04	W63	.890	13926	10.7	12	-F				80	1.8	EG
	15	0942	0947	0950	N05	W63	.890	13926	10.7	8	-F		C	0947	70	1.4	E
	15	0943	0949	0954	N05	W63	.890	13926	10.7	11	-F		C	0949	60		EG
	15	0945	0945	1000	N03	W63	.890	13926	10.7	15	1F	1		0945	112	2.5	
GRP62986	15	0954	0959	1011	N10	W57	.839	13926	11.1	17	-F				40	.7	G
	15	0954	0959	1011	N09	W56	.829	13926	11.2	17	-F		C	0959	40		G
	15	1005E		1005D	N11	W59	.857	13926	11.8		-F		P	1005	37	.7	
987 HTPR	15	1121	1123	1125	S08	E60	.873	13937	20.0	4	-F		C	1123	10	.2	
GRP62988	15	1140+5	1145+4	1225	S08	E59	.865	13937	19.9	45	1N				230	4.5	I
	15	1140	1147	1234	S10	E60	.876	13937	20.0	54	2N		C	1147	300	6.7	I
	15	1141	1145	1210	S08	E58	.856	13937	19.8	29	1B		C	1145	200	3.5	E
	15	1143E	1145U	1219C	S06	E58	.853	13937	19.8	36D	-N	4	C		189		FDE
	15	1145	1145	1230D	S07	E57	.846	13937	19.8	45D	2B	1		1145	505	10.0	
	15	1146E	1149	1201C	S08	E61	.881	13937	20.1	15D	-N	4	V		175		F
989 HTPR	15	1357	1359	1402	S08	E60	.873	13937	20.1	5	-F		C	1359	10	.2	
990 HTPR	15	1421	1421	1424	S08	E59	.865	13937	20.0	3	-F		C	1421	10	.2	
991 MCHA	15	1654		1720D	S09	E56	.839	13937	19.9	260	-F		C	1706	70	1.3	E
992 MCHA	15	1842	1843	1844	S09	E57	.848	13937	20.1	4	-F		C	1843	30	.5	D
GRP62993	15	1847+1	1908+0	2002	S06	E60	.871	13937	20.3	75	-N				100	2.0	KS
	15	1847	1915	1942D	S07	E61	.880	13937	20.4	55D	1B		C	1912	90	2.0	EK
	15	1847	1908	2022	S05	E61	.878	13937	20.4	95	-N	4			135		F S
	15	1848	1938U	2022D	S08	E60	.873	13937	20.3	94D	-F	3	C		36		DE
	15	1905E	1909	1925D	S07	E57	.846	13937	20.1	20D	-N	4	V		128		F S
	15	1937E	1915	1940	S05	E61	.878	13937	20.4	33D	-N	2	C	1915	96	2.0	
994 BOUL	15	2137	2142	2157	S10	E53	.812	13937	19.9	20	-F	2	C	2142	21	.4	
	15	2232	2300		NO FLARE PATROL												
GRP62995	15	2307+2	2310+6	2324	S08	E53	.809	13937	19.9	17	-N						K
	15	2307	2310	2331	S07	E54	.817	13937	20.0	24	1N		C	2310	242	4.0	FK
	15	2308	2316	2324	S09	E53	.810	13937	19.9	16	-F		C	2316	40	.7	
	15	2309	2311	2321	S07	E52	.797	13937	19.9	12	-N	3	V	2311	80	1.3	D
996 PALE	16	0044	0050	0112	S08	E50	.777	13937	19.8	28	-F	3	C		26		
GRP62997	16	0129	0132	0153	S07	E51	.786	13937	19.9	24	-F						DE
	16	0129	0132	0153	S08	E51	.783	13937	19.9	24	-F	3	C		26		
	16	0145E	0145U	0153	S07	E51	.786	13937	19.9	8D	-F	3	V	0145	30	.5	

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H α SOLAR FLARES

NOVEMBER 1975

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 NOV	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MEMATH FLARE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg	
					LAT.	MER. DIST.											
GRP62998	16	0202+7	0209+5	0228	S07	E51	.786	13937	19.9	20	-N			110	1.8	GLU	
MITK	16	0202	0210	0222D	S07	E51	.786	13937	19.9	200	-N	C	0210	110	1.8		
VORO	16	0206	0209	0228	S07	E51	.786	13937	19.9	22	1N	C	0209	152	2.5	L	
PALE	16	0208E	0210	0229	S08	E50	.777	13937	19.8	210	-N	3 C		110		U	
MANI	16	0209	0214	0226	S07	E51	.786	13937	19.9	17	-N	3 V	0214	70	1.2	C	
999 PALE	16	0239	0244	0253	S08	E50	.777	13937	19.9	14	-F	3 C		76		DE	
	16	0313	0331	NO FLARE PATROL													
	16	0334	0340	NO FLARE PATROL													
	16	0414	0415	NO FLARE PATROL													
GRP63000	16	0537+3	0547+9	0621	S07	E47	.742	13937	19.8	44	18			150	2.2	EHLSZ	
MIK	16	0537	0547	0621D	S07	E47	.742	13937	19.8	440	-8	C	0547	80	1.2	EH	
TACH	16	0540	0547	0631	S07	E47	.742	13937	19.8	51	18	C	0556	177	2.7	EL	
MANI	16	0541E	0551	0617	S07	E49	.765	13937	19.9	360	-8	3 V	0551	120	1.9	ZS	
ABST	16	0559E	0556	0556D	S07	E47	.742	13937	19.8	10	1N	P	0556	192	2.9	E	
	16	0800	0810	NO FLARE PATROL													
GRP63001	16	1111+1	1117+2	1121D	S09	E45	.724	13937	19.8	10	-N			50	.7	HK	
LVOV	16	1111	1119	1325	S09	E47	.747	13937	20.0	134	18	C	1120	200	3.2	EFK	
RAMY	16	1112	1117	1121	S08	E45	.721	13937	19.8	9	-N	4 C		46		DE H	
RAMY	16	1115E	1117	1121D	S09	E44	.712	13937	19.8	60	-N	4 V		42		DE H	
GRP63002	16	1450+0	1454	1520D	S07	E43	.695	13937	19.8	30	-N			70	1.0	EL	
MCMA	16	1450	1454	1520	S08	E43	.697	13937	19.8	30	-8	C	1454	70	1.0	EL	
BOUL	16	1450	1525	1630	S07	E44	.707	13937	19.9	100	-F	2 C	1525	74	1.0		
GRP63003	16	1740+4	1744+1	1755	S04	E44	.701	13937	20.0	15	-F			50	.7	E	
BOUL	16	1740	1744	1800	S04	E43	.688	13937	20.0	20	-F	2 C	1744	64	.9		
MCMA	16	1744	1745	1749	S05	E45	.715	13937	20.1	5	-F	C	1745	40	.6	E	
GRP63004	16	2007+1	2016+6	2027	S08	E41	.673	13937	19.9	20	-F			100	1.3		
RAMY	16	2007	2017	2024	S08	E42	.685	13937	20.0	17	-F	3 C		135		DE	
BOUL	16	2008	2016	2055	S09	E41	.676	13937	19.9	47	-N	1 C	2016	107	1.4		
PALE	16	2014E	2016	2018D	S08	E40	.660	13937	19.8	40	-F	2 C		80		DE	
RAMY	16	2020E	2022U	2027D	S07	E43	.695	13937	20.1	70	-F	3 V		70		DE	
5 BOUL	16	2138	2145	2226	N05	W76	.970	13926	11.2	48	-F	2 C	2145	53	1.7		
6 PALE	17	0014E	0014U	0020D	S08	E37	.621	13937	19.8	60	-F	2 C		41		DE	
	17	0154	0202	NO FLARE PATROL													
	17	0210	0300	NO FLARE PATROL													
	17	0308	0337	NO FLARE PATROL													
	17	0346	0352	NO FLARE PATROL													
	17	0354	0405	NO FLARE PATROL													
GRP63007	17	1145E	1152+3	1240	S07	E30	.522	13937	19.7	55	-N			110	1.3	FZ	
RAMY	17	1145E	1155	1245C	S07	E30	.522	13937	19.7	600	-N	4 V		128		Z F	
ATHN	17	1149E	1154	1240	S08	E31	.540	13937	19.8	510	-N	4 C		128		Z F	
ATHN	17	1149E	1154	1240	S08	E31	.540	13937	19.8	510	-N	4 V		128		Z F	
TEHR	17	1153E	1152U	1210D	S08	E32	.554	13937	19.9	200	-N	2 V		58		F	
GATA	17	1210E	1210	1215D	S05	E28	.485	13937	19.6	50	-N	1	1210	112	1.3		
8 MCMA	17	1310E		1335	S07	E29	.508	13937	19.7	250	-F	C	1319	50	.6	EH	
9 MCMA	17	1352	1401	1430D	S07	E27	.479	13937	19.6	380	-F	C	1401	60	.7	EH	
10 MCMA	17	1434		1510	S07	E27	.479	13937	19.6	36	-F	C	1445	50	.6	EH	
GRP63011	17	1645+0	1649	1657	S07	E33	.564	13937	20.2	12	-N			35	.4	DL	
MCMA	17	1645	1648	1657	S07	E33	.564	13937	20.2	12	-N	C	1648	35	.4	DL	
HUAN	17	1645		1656	S07	E33	.564	13937	20.2	11	-N	1 C	1649	30	.4		
12 MCMA	17	1659	1700	1701	S07	E33	.564	13937	20.2	2	-N	C	1700	35	.4	DL	
13 MCMA	17	1823	1828	1842	S09	E28	.504	13937	19.9	19	-N	C	1828	50	.6	E	
14 MCMA	17	1945		1949C	S09	E26	.476	13937	19.8	40	-N	P	1946	40	.5	E	
	17	1949	1951	NO FLARE PATROL													
	18	0128	0135	NO FLARE PATROL													
	18	0155	0236	NO FLARE PATROL													
	18	0240	0246	NO FLARE PATROL													

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 NOV	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH FLARE REGION	CMP. DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg	
					LAT.	NER. DIST.											
15 MANI	18	0752E	0754U	0757D	S08	E19	.369	13937	19.8	50	-N	3	V	0754	50	.6	F
16 TEHR	18	0754E	0759	0805	S06	E37	.615		21.1	110	-F	3	V		48		F
17 HTPR	18	0838E		0843D	S08	E19	.369	13937	19.8	50	-N		C	0840	100	1.0	E
18 HTPR	19	0851E		0903	S08	E19	.369	13937	19.8	120	-N		C	0851	100	1.0	E
19 HTPR	18	0956	1000	1009	N05	W31	.515	13934	16.1	13	-F		C	1000	10	.1	
20 HTPR	18	1020	1026	103F	S08	E18	.355	13937	19.8	15	-F		C	1026	20	.2	E
21 HTPR	19	1035	1045	1055	S06	E17	.325	13937	19.7	20	-F		C	1045	20	.2	
GRP63022	18	1037+0	1041+6	1101	N07	W31	.518	13934	16.1	24	-N				45	.5	EHU
HTPR	18	1037	1047	1104	N07	W33	.547	13934	16.3	27	-N		C	1047	30	.3	E
ATHN	18	1037	1041	1058	N07	W30	.503	13934	16.2	21	-N	4	V		64		U H
	18	1227	1318		NO FLARE PATROL												
	18	1321	1334		NO FLARE PATROL												
GRP63023	18	1323E	1325	1520D	S07	E16	.319	13937	19.8	117	-N						E
			1333+2														
RAMY	18	1323E	1333	1352D	S08	E17	.341	13937	19.8	29D	-N	4	V		32		FOE
RAMY	18	1323E	1325	1352D	S08	E17	.341	13937	19.8	29D	-F	4	V		32		FDE
MCMA	18	1334E	1335	1520D	S07	E16	.319	13937	19.8	106D	-B		P	1335	110	1.2	E
	19	1339	1350		NO FLARE PATROL												
	18	1357	1409		NO FLARE PATROL												
	18	1445	1452		NO FLARE PATROL												
	18	1453	1503		NO FLARE PATROL												
	18	1526	1619		NO FLARE PATROL												
	18	1622	1705		NO FLARE PATROL												
24 MCMA	18	1730E		1905D	S08	E16	.327	13937	19.9	95D	-F		P	1805	100	1.1	F
	18	1740	1744		NO FLARE PATROL												
GRP63025	18	1905+3	1926+4	2021D	S07	E19	.362	13937	20.2	76	-N				130	1.4	E
MCMA	18	1905	1930	1949D	S06	E20	.370	13937	20.3	44D	-B		C	1930	120	1.4	E
PALE	18	1908	1926	2021D	S08	E18	.355	13937	20.1	73D	-N	3	C		140		DE
	18	2022	2048		NO FLARE PATROL												
	18	2156	2203		NO FLARE PATROL												
	18	2208	2229		NO FLARE PATROL												
26 VORO	19	0248	0249	0254	S08	E10	.249	13937	19.9	6	-B		C	0249	90	.9	E
27 MANI	19	0328	0332	0350	S09	E09	.250	13937	19.8	22	-N	3	P	0332	110	1.2	F
	19	0412	0421		NO FLARE PATROL												
	19	0443	0451		NO FLARE PATROL												
28 MANI	19	0451E	0451U	0503D	N04	W45	.707	13934	15.8	120	-F	3	P	0451	30	.4	
	19	0457	0503		NO FLARE PATROL												
	19	0620	0631		NO FLARE PATROL												
	19	0638	0651		NO FLARE PATROL												
	19	0657	0724		NO FLARE PATROL												
GRP63029	19	0724E	0724	0741D	S09	E08	.240	13937	19.9	17	-N				160	1.7	FU
ATHN	19	0724E	0724U	0741D	S09	E08	.240	13937	19.9	170	-N	1	V		160		U F
ATHN	19	0724E	0724U	0741D	S09	E08	.240	13937	19.9	170	-N	1	C		160		U F
MANI	19	0732E	0732U	0734D	S08	E07	.217	13937	19.8	2D	-N	3	V	0732	130	1.4	F
	19	0725	0731		NO FLARE PATROL												
	19	0741	0748		NO FLARE PATROL												
	19	0751	0809		NO FLARE PATROL												
GRP63030	19	0830+9	0847	0858	S08	E07	.217	13937	19.9	28	-B						
ARCE	19	0830E		0851	S07	E06	.193	13937	19.8	21D	-N		C	0833	113	1.2	TB
HTPR	19	0846	0847	0858	S08	E09	.237	13937	20.0	12	-B		C	0847	100	1.0	
ARCE	19	0848E		0852D	S09	E07	.231	13937	19.9	4D	-B		C	0851	37	.4	D
31 HTPR	19	1131	1134	1135	N06	W49	.755	13934	15.8	4	-F		C	1134	10	.1	
32 HTPR	19	1155	1156	1210	S06	E06	.179	13937	19.9	15	-N		C	1156	10	.1	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMA PLAGE REGION	CNR DAY			MIL	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.												
33 HTPR	19	1230	1232	1237	S07	E04	.177	13937	19.8	7	-F	C	1232	20	.2			
34 HTPR	19	1340	1340	1345	S06	E05	.170	13937	19.9	5	-F	C	1340	20	.2	E		
GRP63035	19	1342+2	1349+0	1357	N05	H48	.743	13934	16.0	15	-F			30	.4	DH		
HTPR	19	1342	1349	1357	N06	H49	.755	13934	15.9	15	-N	C	1349	30	.4			
MCMA	19	1344	1349	1356	N05	H48	.743	13934	16.0	12	-F	C	1349	25	.4	DH		
GRP63036	19	1429+3	1434+1	1450	S08	E04	.193	13937	19.9	21	-N			80	.8	E		
MCMA	19	1429	1434	1451	S09	E04	.209	13937	19.9	22	-B	C	1434	50	.5	E		
LOCA	19	1432	1435	1448	S07	E04	.177	13937	19.9	16	-N	V	1435	122	1.3			
HTPR	19	1437E		14500	S07	E04	.177	13937	19.9	130	-B	C	1438	80	.8	E		
CATA	19	1445E	1445	14500	S08	E03	.188	13937	19.8	50	-N	1	1445	56	.6			
37 MCMA	19	1645	1650	1715	S09	E03	.204	13937	19.9	30	-F	C	1650	40	.4	E		
38 MCMA	19	1851	1854	1915	S09	E01	.198	13937	19.9	24	-N	C	1854	60	.6	E		
39 MCMA	19	1932E		19420	S07	E00	.163	13937	19.8	100	-B	C	1932	20	.2	D		
	19	2016	2041	NO FLARE PATROL														
	19	2151	2211	NO FLARE PATROL														
40 MANI	20	0828	0831	0834	S08	H03	.186	13937	20.1	6	-F	3	P	0831	30	.3		
41 HTPR	20	1141	1142	11440	S08	H09	.236	13937	19.9	30	-F	C	1142	20	.2	E		
42 CATA	20	1450	1450	15050	S09	H04	.207	13937	20.3	150	-N	1		1450	28	.3		
	20	1524	1538	NO FLARE PATROL														
	20	2231	2258	NO FLARE PATROL														
43 CULG	20	2324	2326	2330	S08	H12	.272	13937	20.1	6	-F	C	2326	60	.6	L		
	21	0228	0300	NO FLARE PATROL														
	21	0320	0405	NO FLARE PATROL														
	21	0531	0538	NO FLARE PATROL														
GRP63044	21	0605+5	0616+6 0632+2	0723	S07	W21	.389	13937	19.7	78	1B			310	3.4	JUZ		
ABST	21	0605	0616	0840	S06	W23	.413	13937	19.5	155	1B	P	0616	262	2.9	FJZ		
ABST	21	0607	0618	0720	S07	W17	.330	13937	20.0	73	-N		0618	114	1.2	FJZ		
ATHN	21	0610	0617	0720	S07	W20	.374	13937	19.8	70	1B	3	C	304		UDE		
ATHN	21	0610	0617	0720	S07	W20	.374	13937	19.8	70	1B	3	V	304		UDE		
TEHR	21	0610E	0621	0704	S08	W21	.395	13937	19.7	540	1B	4	V	388		DE		
TEHR	21	0610E	0621	0704	S08	W21	.395	13937	19.7	540	1B	4	C	388		DE		
ATHN	21	0610	0634	0720	S07	W20	.374	13937	19.8	70	1B	3	V	368		UDE		
ATHN	21	0610	0634	0720	S07	W20	.374	13937	19.8	70	1B	3	C	368		UDE		
CULG	21	0621E	0622U	07460	S08	W22	.410	13937	19.6	850	1N	P	0622	240	2.4	F		
MANI	21	0629E	0632	07010	S05	W22	.393	13937	19.6	320	1B	3	P	0632	90	1.0	OZ	
GRP63045	21	0807E		08250	S06	W25	.442	13937	19.5	18	-N							
ARCE	21	0807E		08220	S05	W26	.453	13937	19.4	150	-N			0807	34	.4		
CATA	21	0810E	0810	08250	S07	W25	.447	13937	19.5	150	-N	1		0810	84	1.0		
GRP63046	21	0850E	0850	0940	S06	W25	.442	13937	19.5	50	-N							
CATA	21	0850E	0850	0940	S07	W25	.447	13937	19.5	500	-N	1		0850	56	.6	D	
ARCE	21	0930E	09300	09300	S06	W26	.457	13937	19.4		-N	P	0930	24	.3	C		
47 HTPR	21	1248	1248	1253	S08	W24	.438	13937	19.7	5	-F	C	1248	10	.1	D		
48 HTPR	21	1255	1302	1320	S04	W19	.341	13937	20.1	25	-F	C	1302	20	.2			
	21	2213	2220	NO FLARE PATROL														
GRP63049	22	0943+4	0946+2	0957	S07	W29	.505	13937	20.2	14	-F			30	.3			
MONT	22	0943	0946	0952	S06	W29	.501	13937	20.2	9	-F	C	0946	40		E		
HTPR	22	0947	0948	0957	S07	W30	.519	13937	20.2	10	-F	C	0948	20	.2	D		
ARCE	22	0947	10050	10050	S08	W28	.495	13937	20.3	180	-F	P	1005	34	.4			
GRP63050	22	1012+1	1035 1041+0	1200	S09	W28	.500	13937	20.3	108	-F			110	1.3	DO		
HTPR	22	1012	1041	1200	S08	W28	.495	13937	20.3	108	-F	C	1041	80	.9			
MONT	22	1013	1041	11400	S08	W27	.481	13937	20.4	870	-N	C	1041	150				
KHAR	22	1030E	1035	11250	S12	W28	.517	13937	20.3	550	1F	P	1035	220	2.6	DO		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1975 NOV	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH PLAGE REGION	CNR DAY			COND	TYPE	TIME UT	MEAS. AREA Mil. of Disk	CORR AREA Sq. Deg	
					LAT.	MER. DIST.											
GRP63051 HTPR MCMA	22	14J4+1	1407+2	1411	S05	W34	.569	13937	20.3	7	-F					E	
	22	1404	1409	1411	S05	W34	.569	13937	20.0	7	-F	C	1409	30	.3	E	
	22	1405	1407	1410	S05	W34	.569	13937	20.3	5	-F	C	1407	50	.6	E	
52 ARCE	22	2139	2200		NO FLARE PATROL												
	23	0300	0316		NO FLARE PATROL												
	23	0320	0329		NO FLARE PATROL												
52 ARCE	23	0950	0955	0957	S04	W44	.699	13937	20.1	7	-F	C	0955	31	.4		
	23	1858	1909		NO FLARE PATROL												
	23	2314	2330		NO FLARE PATROL												
53 ARCE	24	0855	0855	0855	S10	W67	.925	13937	19.3		-F	C	0855	9		D	
	24	2053	2103		NO FLARE PATROL												
	24	2115	2126		NO FLARE PATROL												
	24	2146	2153		NO FLARE PATROL												
	25	1817	1851		NO FLARE PATROL												
	25	2120	2125		NO FLARE PATROL												
	25	2129	2205		NO FLARE PATROL												
	26	0356	0400		NO FLARE PATROL												
	26	0417	0419		NO FLARE PATROL												
	26	0429	0437		NO FLARE PATROL												
	26	1435	1440		NO FLARE PATROL												
	26	1456	1519		NO FLARE PATROL												
	26	1554	1556		NO FLARE PATROL												
	26	1628	1857		NO FLARE PATROL												
	26	1900	1916		NO FLARE PATROL												
	26	1930	2049		NO FLARE PATROL												
	26	2056	2123		NO FLARE PATROL												
	26	2124	2134		NO FLARE PATROL												
	26	2156	2204		NO FLARE PATROL												
	27	0326	0333		NO FLARE PATROL												
	27	0409	0442		NO FLARE PATROL												
	27	0513	0523		NO FLARE PATROL												
	27	1400	1420		NO FLARE PATROL												
	27	1548	1553		NO FLARE PATROL												
	27	1836	1920		NO FLARE PATROL												
	27	2001	2007		NO FLARE PATROL												
	27	2103	2117		NO FLARE PATROL												
	27	2121	0009		NO FLARE PATROL												
	28	0529	0534		NO FLARE PATROL												
	28	0546	0550		NO FLARE PATROL												
	28	0606	0613		NO FLARE PATROL												
	28	1624	1631		NO FLARE PATROL												
	28	2145	2209		NO FLARE PATROL												
	29	1413	1438		NO FLARE PATROL												
	29	1441	1500		NO FLARE PATROL												
	29	1506	1512		NO FLARE PATROL												
	29	1523	1530		NO FLARE PATROL												
	29	1533	1627		NO FLARE PATROL												
	29	1753	1812		NO FLARE PATROL												
	29	2004	2021		NO FLARE PATROL												
	29	2143	2153		NO FLARE PATROL												
	30	1320	1330		NO FLARE PATROL												
	30	1335	1345		NO FLARE PATROL												
	30	1415	1425		NO FLARE PATROL												
	30	1435	1525		NO FLARE PATROL												
	30	1530	1630		NO FLARE PATROL												
	30	2147	2159		NO FLARE PATROL												
	30	2305	2315		NO FLARE PATROL												

"Remarks":

- 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 D₃ in emission.
- Q = Flare shows the Balmer continuum in emission.
- R = Marked asymmetry in H α 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 H α line.
- Y = System of loop-type prominences.
- Z = Major sunspot umbra covered by flare.

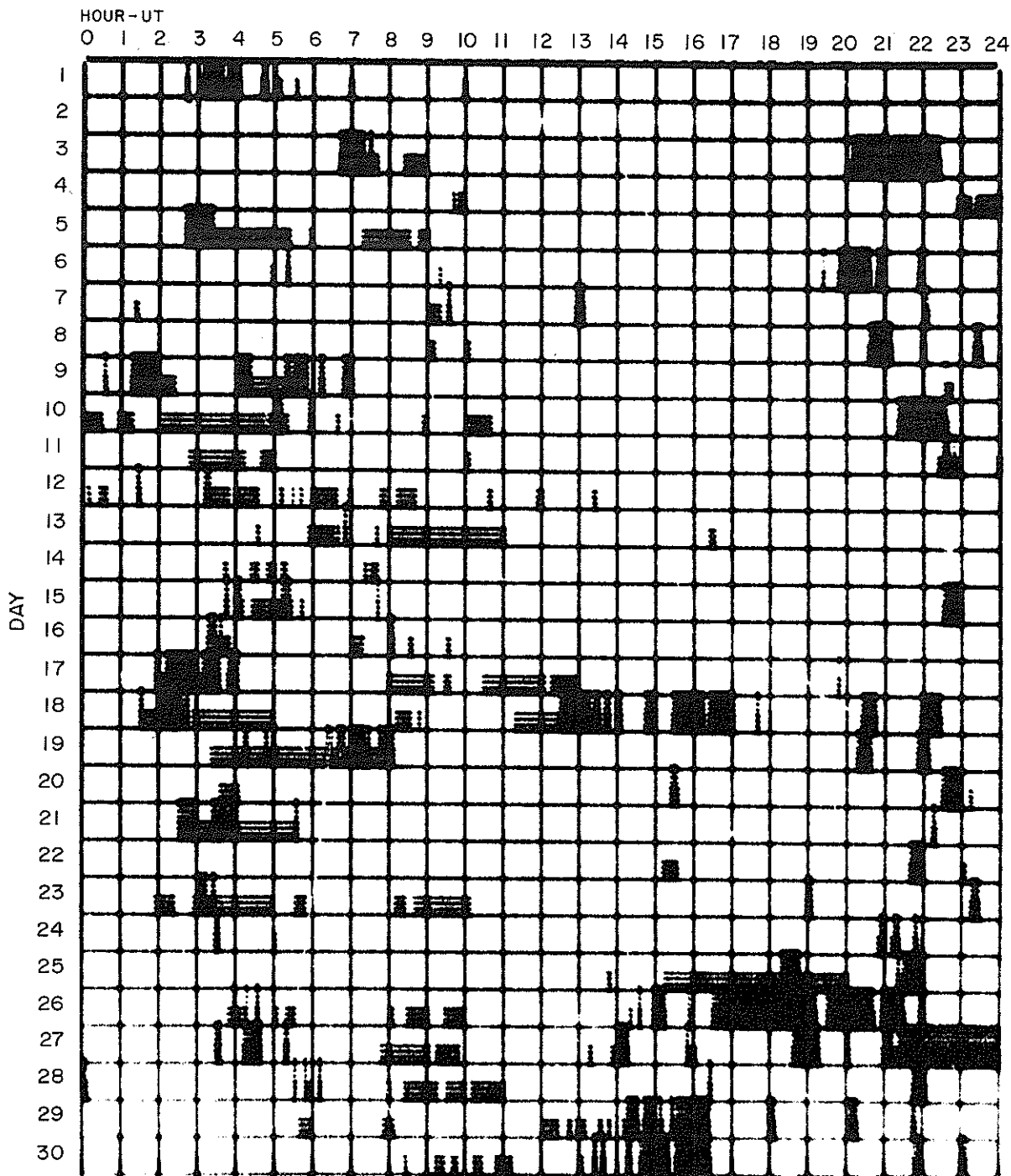
DAILY FLARE INDICES
Includes all Flares

Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
751101	0.00	22.8	751112	13.95	23.7	751122	7.71	23.7
751103	0.00	21.0	751113	0.00	23.9	751123	1.93	23.1
751104	9.29	24.0	751114	22.65	24.0	751124	.87	23.4
751105	18.89	23.2	751115	47.55	22.9	751125	0.00	22.8
751106	27.04	22.7	751116	34.62	23.4	751126	0.00	18.5
751107	4.01	23.6	751117	30.68	22.2	751127	0.00	18.8
751108	0.00	23.0	751118	53.69	18.8	751128	0.00	23.2
751109	.68	21.6	751119	69.73	21.5	751129	0.00	21.5
751110	27.24	22.3	751120	21.55	23.3	751130	0.00	21.3
751111	7.19	23.8	751121	71.63	22.5			

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

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 1975



Observatories included in total patrol:

Abastumani	Catania	Hurbanovo	Lvov	Monte Mario	Tehran
Arcetri	Culgoora	Istanboul	Manila	Palehua	Upice
Athenes	Haute Provence	Kharkov	McMath-Hulbert	Ramey	Voroshilov
Boulder	Herstmonceux	Kodaikanal	Meudon	Tachkent	Wendelstein
Bucharest	Huancayo	Locarno	Mitaka		

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).

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Nov 75

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

NOVEMBER 1975

NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
3	33 UPIC	45 C	1141.7	1142.1	1.3				
	-29 UPIC	4 S/F	1142.1	1142.4	1				
4	930 BORD	24 R	1322	1341		9	3		
	2695 PENT	240 R	2010	2054	44	1.6	0.8		
	2695 PENT	24P R	2054		120 D	1.6			
5	221 ABST	6 S	0900	0900.5	1	21			
	200 GORK	6 S	0900.4	0900.7	1.3	70			
	3100 CRIM	24 R	0903	0940		3	1		
	18 MAMA	42	1339	1354	18			1	
	1415 PALE	2 S/F	1853	1853.3	2.2	5.6	1.7		
	2800 OTTA	8 S	1853	1853.2	0.5	3	1.5		
	2695 PENT	21 GRF	2140	2150	35	1.6	0.6		
	2695 PENT	8 S	2141.2	2141.9	0.8	0.8	0.4		
	2695 PENT	1 S	2143	2143.2	1	1.2	0.6		
	200 HIRA	45 C	2145.5	2146.3	1	60	30		SL
207 VORO	44 NS	2300	0158	240	14				
6	2000 TYKW	45 C	0015	0017.6	6	4	1		OR
	1000 TYKW	45 C	0016	0018.1	4	4	1		OR
	3750 TYKW	5 S	0016	0018	7	2	1		OL
	9400 TYKW	5 S	0016	0020	15	4	2		OL
	100 HIRA	45 C	0127	0127.6	1	170	40		HL
	200 GORK	43 NS	0542	E	48		5		
	200 GORK	6 S	0556	0557.6	3.9	70	35		
	3100 CRIM	3 S	0606	0608	5	12	4		
	2000 TYKW	5 S	0620	0633	35	1.5	0.8		OR
	950 GORK	46 C	0625.6	0627.8	4.4	49			
	950 GORK			0628		21			
	950 GORK			0628.4		11.9			
	650 GORK	45 C	0626	0626.2	3.9	4.7			
	650 GORK			0627.7		17.5			
	650 GORK			0628.7		10.7			
	606 MANI	4 S/F	0626	0627.7	8.6	29.9	11.3		
	200 HIRA	45 C	0626	0627.6	3.5	30	6		HR
	506 HIRA	45 C	0626	0627.6	4	8	6		
	100 GORK	46 C	0626.1	0626.2	3.5	9			
	100 GORK			0627.6U		45 D			
	100 GORK			0627.7U		45 D			
	2950 GORK	8 S	0626.2	0627.7	3.8	12	4.7		
	1415 MANI	4 S/F	0626.2	0627.7	7.3	14.2	6.9		
	4995 MANI	4 S/F	0626.2	0627.7	3.8	11.4	3.1		
	8800 MANI	1 S	0626.2	0627.7	3.8	7.3	2.4		
	2695 MANI	4 S/F	0626.2	0627.7	5	24.2	9.4		
	100 HIRA	45 C	0626.2	0627.8	2.5	35	10		HL
	2000 TYKW	45 C	0626	0627.7	4	65	20		01R
	3750 TYKW	45 C	0626	0627.6	4	6	3		OL
	3750 TYKW	29 PBI	0630		20	2	1		
	1000 TYKW	5 S	0626	0627.7	4	20	6		14L/26R/08L
	2695 ATHN	4 S/F	0627.1	0627.8	3.2	17.9	5.4		
	4995 ATHN	1 S	0627.2	0628.6	2.9	4.7	1.4		
	1415 ATHN	3 S	0627.3	0628.4	2.9	13.5	4.1		
	8800 ATHN	1 S	0628	0629.6	2.2	9.2	2.8		
	1420 ARCE	21	0810	0840.3	94				
	1420 ARCE	3	0921.2	0922.8	3.2				
	9240 ARCE	20	0813.5	0926.2	143				
	200 GORK	43 NS	0842		78		5		
	260 ONDR	43 NS	0853		285	32			
	2950 GORK	20 GRF	0919.9	0922.4	18.6	7.8	2.6		
	228 HARS	7 C	0920.2	0921	3.2	79	6 D		
	536 ONDR	45 C	0920.5	0922.6	5.5	70	13		
	100 GORK	41 F	0920.5	0920.7	5.1	30			
	100 GORK			0921.3		35			
100 GORK			0921.6		15				
100 GORK			0922.7U		80 D				
200 GORK	46 C	0920.5	0920.8	3.2	70 D				
200 GORK			0922.4		70 D				
650 GORK	4 S/F	0920.7	0922.4	3.6	55				
808 ONDR	4 S/F	0920.8	0922.8	3	30	21			
260 ONDR	45 C	0920	0921.5	7	32	10			
950 GORK	4 S/F	0921.2	0922.9	3	24.8				
408 TRST	45	0921.6	0922.8	2.8	46	13			
2695 ATHN	1 S	0921.8	0922.8	2.9	4.2	1.3			
4995 ATHN	1 S	0921.8	0923	2.2	3.2	1			
1415 ATHN	4 S/F	0921.8	0922.8	2.2	15.8	4.7			
260 ONDR	45 C	1158.5	1210	12.5	24	4			
228 HARS	7 C	1158.5	1159.2	3	79 D	14 D			
127 TORN	45 C	1159	1201 U	3.5	30 D			OFF SCALE	
808 ONDR	4 S/F	1200	1200.5	1.5	7	5			
536 ONDR	4 S/F	1200	1200.5	2.5	9	5			
2800 OTTA	23 GRF	1700	1715	70	1.2	0.6			
2800 OTTA	1 S	1703.8	1704.2	1	1	0.5			
2800 OTTA	20 GRF	1814	1840	40	0.6	0.3			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1975

NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
7	2800 OTTA	32 ABS	1430	1442	46	-1.6	-0.8		SL
	100 HIRA	27 RF	2200 U	2217	58	12	7		
8	2800 OTTA	1 S	1851.7	1852	2.5	0.8	0.4		
	2800 OTTA	20 GRF	1919	1922	23	1	0.8		
9	3100 GRIM	24 R	0714	0735		1			
	2800 OTTA	1 S	1922.9	1924.5	3	0.8	0.4		
10	500 HIRA	45 C	0059.3	0102.3	40	14	6		OL,067020F
	207 VORO	4 C	0059.5	0102.7	3.7	118			
	3750 TYKH	5 S	0059	0102	6	2	1		
	1000 TYKH	45 C	0059	0101.3	5	6	1.5		
	2000 TYKH	45 C	0059	0102.6	6	3	1		
	200 HIRA	45 C	0102.5U	0102.7U	1 U	170 U	60 U		
	100 HIRA	45 C	0102.5U	0102.7U	1 U	1400 U	300 U		
	207 VORO	3 S	0227.5	0227.7	0.5	220			
	1000 TYKH	45 C	0231	0231.7	1	64	10		
	500 HIRA	45 C	0419	0419	0.7	20	11		
	500 HIRA	45 C	0444.3	0445.6	4	29	8		
	200 HIRA	45 C	0445	0445.4	1	85	40		
	1000 TYKH	45 C	0445	0445.7	2	2.7	0.7		
	2000 TYKH	5 S	0446	0446.3	1	1	0.3		
	3100 GRIM	1 S	0720	0727	2	2			
	6100 KISV	20 GRF	0720	0730	20	1			
	221 ABST	6 S	0725.5	0725.8	0.5	21			
	127 TORN	45 C	0725.6	0726.9	2.8	18	4		
	2950 GORK	5 S	0725.9	0727	3.3	5.6	2.7		
	200 GORK	46 C	0726	0726.3	0.7	75 D			
	200 GORK			0726.6		75 D			
	650 GORK	45 C	0726	0726.6	1.8	4.4			
	650 GORK			0727.3		6.6			
	100 GORK	46 C	0726.1	0726.4	1.3	30			
	100 GORK			0726.6		70			
	950 GORK	2 S/F	0726.2	0726.9	1.9	5.2			
	930 BORD	45 C	0726	0726.4	2	10	3		
	100 GORK	41 F	0741.3	0741.4	1.8	70			
	100 GORK			0742.4		25			
	100 GORK			0742.8		24			
	930 BORD	4 SF	0752	0752	0.3	19	2		
	930 BORD	8 S	0758.6	0758.7	0.1	9	1		
	6100 KISV	20 GRF	0835	0841	23	1			
	260 ONDR	4 S/F	0841.2	0842	3	17	2.8		
200 GORK	46 C	0913.5	0913.6	1	65				
200 GORK			0913.8		65 D				
200 GORK			0914.3		65 D				
6100 KISV	20 GRF	1129	1134	18	1				
234 POTS		1129.4	1129.5	1.1	350	20			
200 GORK	46 C	1129.4	1129.7	1.3	90 D				
200 GORK			1130.2		90 D				
100 GORK	46 C	1129.4	1129.7	1.5	75				
100 GORK			1130.2		75				
260 ONDR	45 C	1129	1129.5	2	138	14			
536 ONDR	8 S	1130.5	1130.5	0.3	10				
606 SSMR	22 GRF	1132 E	1134.2	12.20	36.9	22.1			
2800 OTTA	20 GRF	1300	1345	80	2.4	1.4			
2800 OTTA	20 GRF	1425	1435	75	2.8	1.4			
2800 OTTA	1 S	1911.8	1912	1.5	1.4	0.7			
11	3750 TYKH	20 GRF	0105	0116	100	3	1		OL,247002F OR
	2000 TYKH	20 GRF	0110	0116	60	2.5	0.8		
12	930 BORD	4 SF	0735.4	0735.4	0.6	14	2		
	9240 ARCE	20	0801.6	0921.8	220 U				
	1420 ARCE	20	0817	0910	193 U				
13	100 HIRA	45 C	0618	0618.7	1.2	100	30		WL WL WL
	200 HIRA	45 C	0618	0618.1	1	30	10		
	200 GORK	41 F	0618	0618.1	2.1	60	20		
	100 HIRA	45 C	0619.6	0619.8	1	110	3		
	930 BORD	4 SF	0753.3	0753.3	0.3	24			
	100 GORK	6 S	0816.3	0816.6	0.7	130 D			
	33 UPIC	4 S/F	0816.4	0816.7	0.8				
	29 UPIC	4 S/F	0816.5	0816.7	0.8				
	260 ONDR	8 S	0942.6	0942.6	0.2	4			
	200 GORK			0619.7		60			
14	100 HIRA	27 RF	0355	0436	65	50	30		MR SL ML ML
	200 HIRA	45 C	0404	0408.7	20	100	10		
	500 HIRA	45 C	0404	0409.2	13	6	2		
	100 HIRA	45 C	0404.5	0408.7U	17.5	2000 D	600 D		
	100 HIRA			0415 U		2000 D			
	8800 MANI	4 S/F	0405	0410.2	14	340	95		
	2695 MANI	4 S/F	0405	0411.5	14.8	129	42.5		

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES NOVEMBER 1975

NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	4995 MANI	4 S/F	0405	0410.2	14	370	92		
	606 MANI	4 S/F	0405	0409.5	11.5	36.2	7.7		
	1415 MANI	4 S/F	0405	0408.3	11.5	47	12.5		
	3750 TYKM	45 C	0405	0409.1	10	175	45		25L,066093F
	3750 TYKH	29 PBI	0415		60	3	1		
	1000 TYKH	45 C	0405	0408.6	12	52	8		10L
	2000 TYKH	45 C	0405	0410.5	8	72	22		03R
	2000 TYKH	29 PBI	0413		20	1.5	0.5		
	9400 TYKH	45 C	0407	0409.1	9	275	90		13L
	9400 TYKH	29 PBI	0416		60	10	4		
	9650 IRKU	2 S	0408 U	0409.5U	17 U	138 0			ML
	100 GORK	44 NS	0530		270 0		10		
	127 TORN	44 NS	0700 E		420 0				SUNRISE-SUNSET
	200 GORK	43 NS	0745		195 0		5		
	260 ONDR	43 NS	0836		312	6			
	221 ABST	43 NS	0841.2	0849.8	17	14			
	6100 KISV	20 GRF	0633	0635	14	1			
	113 POTS		1343.6	1343.7	0.2	150	30		
15	550 KIEV	27 RF	0700 E	0705 U	35	11			
	550 KIEV	27 RF	0903.4		42	23	10		
	550 KIEV	27 RF	1025	1055	35	22	10		
	550 KIEV	27 RF	1105	1117	20	9	2		
	260 ONDR	43 NS	1127		93	35			
	234 POTS		1140	1231	116	8	3		
	200 GORK	43 NS	1147		24 0		5		
	100 GORK	43 NS	1157		12 0		5		
	127 TORN	43 NS	1215 U		110 0				
	650 GORK	46 C	1137.3	1145.1	13.6	76			
	650 GORK			1150.5		78			
	650 GORK	30 PBI		1151	14.1	3.7			
	808 ONDR	46 C	1139.5	1144.2	30	62	8		
	228 HARS	45 C	1140	1141.2	7.5	41	14		
	1470 BERL	45	1140	1143	12	31	9.6		
	3000 BERL	3	1140	1145.4	14	15	8.4		
	9500 BERL	20	1140	1146	60	10			
	6100 KISV	45 C	1140	1146	14	19			
	200 GORK	48 C	1140.1	1141.6	7	80 0			
	200 GORK			1145.2		80			
	200 GORK			1146.5		80			
	950 GORK	46 C	1140.5	1143.3	10.1	26			
	950 GORK			1145.2		33			
	950 GORK			1150.4		6.3			
	950 GORK	30 PBI		1150.7	16 U	4.2			
	1420 ARGE	40	1140.5	1143.1	18				
	408 TRST	42	1140.6	1145	7.5	110			
	930 ARGE	45 C	1140.6	1145	10.9	49	18		
	2695 ATHN	3 S	1140.7	1146.3	16.1	19.4	5.8		
	2950 GORK	1 S	1140.8	1145.2	6.6	16.7			
	2950 GORK	30 PBI		1148	12.4	7.4			
	536 ONDR		1141.2	1145		52			
	536 ONDR	46 C	1141.2	1150	11	55	17		
	4995 ATHN	3 S	1141.2	1145.7	16.1	10.5	5.5		
	1415 ATHN	3 S	1141.4	1143.4	7.1	27	8.1		
	127 TORN	45 C	1141.5	1143.7	28 U	45 U			INCOMPLETE
	127 TORN			1208.5	3	130	20		
	234 POTS		1141.6	1159.5	18	350	1		
	100 GORK	41 F	1141.6	1143.8	15.2	130 0			
	100 GORK			1150.1U		130 0			
	100 GORK			1156		60			
	33 UPIC	46 C	1141.7	1143.6	5				
	29 UPIC	46 C	1141.8	1143.9	3.8				
	113 POTS		1141	1250	154	55			
	510 POTS		1141	1144.8	34	40	1		
	550 KIEV	41 F	1141	1145	11	44			
	9100 GORK	22 GRF	1142.5	1151.5	24	14.1	6.3		
	9100 GORK			1202		16.7			
	113 POTS		1143.4	1150.6	27	175	5		
	9240 ARGE	20	1143	1146.3	36				
	8800 ATHN	1 S	1144.5	1145.7	3	4.4	1.3		
	228 HARS	27 RF	1145	1230	105	12	5		
	408 TRST	45	1149.7	1150.4	2.7	47	11		
	33 UPIC	46 C	1150.3	1151.3	3.8				
	29 UPIC	46 C	1150.6	1151.2	3				
	536 ONDR			1158.7		29			
	536 ONDR	46 C	1158.7	1208.6	17	39	3		
	408 TRST	42	1158.7	1208.1	11	53			
	200 GORK	41 F	1159	1159.5	4	40			
	200 GORK			1202.5		40			
	2950 GORK	1 S	1200	1204.7	7	15.8			
	950 GORK	2 S	1200.3	1202.7	6.3	6.8			
	1470 BERL	1	1201	1201.7	1.5	4.2			
	550 KIEV	41 F	1201.5	1203.6	15	24			
	2800 OTTA	20 GRF	1620	1710	75	0.8	0.4		
	15400 SGMR	22 GRF	1712.7	1913.5	164.9	26.8	18.8		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1975

NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	8800 SGMR	22 GRF	1730.9	1913.9	129.9	38.1	26.7		
	4995 SGMR	22 GRF	1731.9	1913.3	153	250	17.5		
	2695 SGMR	22 GRF	1732.8	1913	224.20	17.8	12.5U		
	606 SGMR	22 GRF	1818.7	1922.4	178.30	39.5	27.6U		
	245 SGMR	6 S	1819.7	1934.2	177.30	180	90 U		
	418 SGMR	6 S	1819.7	1913.2	177.30	59.4	41.6U		
	1415 SGMR	22 GRF	1819.8	1912.8	177.20	26.8	18.8U		
	2800 OTTA	21 GRF	1840	1937	240 0	11			
	2800 OTTA	1 S	1842.5	1842.9	1.5	2.6	0.9		
	2695 BOUL	45 C	1847.5	1848	2.5	2	1		
	1420 BOUL	45 C	1847.5	1848.5	3	5	2		
	2800 OTTA	45 C	1848	1849.5	7	4.6	2		
	8800 PALE	40 F	1907.6	1914.3	32.2	7.6	2.3		
	1415 PALE	23 GRF	1908.8	1913.2	45.5	18.1	10.6		
	1420 BOUL	40 F	1910	1913	63.5	10	3		
	2695 BOUL	40 F	1912.5	1914	25.5	4	1		
	2800 OTTA	40 F	1913	1914	22	5.4			
	200 HIRA	44 NS	2115 E	0617	615 0	80	10		SL
	100 HIRA	44 NS	2115 E	0530	615 0	1200	130		SR
	500 HIRA	27 RF	2115 E	2152	160 0	17	5		
	2695 PENT	20 GRF	2140	2147	20	1.2	0.6		
	3750 TYKH	5 S	2308	2308.5	3	5	1		OL
16	3750 TYKH	5 S	0114.5	0114.8	2.5	2	1		OL,069072F
	1000 TYKH	5 S	0114.5	0114.8	1	1.6	0.4		OR
	500 HIRA	5 S	0114.7	0114.9	1	19	12		
	3750 TYKH	20 GRF	0120	0210	130	3	1.5		OL,069072F
	500 HIRA	45 C	0130.5	0130.9	1.5	23	10		
	1000 TYKH	40 F	0154.8	0201.6	9	8	0.7		50L
	500 HIRA	45 C	0155.2	0155.2	1	130	25		
	2000 TYKH	5 S	0200	0203	8	1.2	0.6		DR
	2000 TYKH	5 S	0201.3	0201.6	0.6	5	1		DR
	500 HIRA	45 C	0201.3	0201.7	2	130	35		
	9400 TYKH	5 S	0205	0211	30	4	2		OL
	207 VORO	44 NS	0210	0242	50	59			
	1000 TYKH	40 F	0215	0216.6	2	11	2		SL
	2000 TYKH	5 S	0230.5	0230.9	1.2	2	0.7		OR
	1000 TYKH	45 C	0230.6	0231.1	1 U	7 U	2 U		
	1000 TYKH	40 F	0235	0237.7	3.5	1.5	0.4		
	200 HIRA	45 C	0242.2	0242.4	0.5	300	100		WL
	500 HIRA	5 S	0242.5	0242.7	0.5	119	83		
	1000 TYKH	5 S	0242	0242.4	1	45	4		06L
	500 HIRA	45 C	0529	0548.1U	26	130 G	70 D		
	1415 MANI	4 S/F	0532.8	0548.4	45.7	285	129		
	606 MANI	4 S/F	0533.2	0548.8	47.6	330	116		
	1000 TYKH	45 C	0533	0548.5	30	400	70		
	6100 KISV	45 C	0535	0545	30	88			
	2000 TYKH	28 PRE	0500	0535	35	1.3	0.8		OR
	2000 TYKH	45 C	0535	0548.5	21	180	55		OR
	2000 TYKH	29 PBI	0556		50	3	1		
	4995 MANI	4 S/F	0536.7	0544.5	26	107	34.8		
	4995 ATHN	4 S/F	0536.8	0544	22.4	69.1	20.7		
	2695 ATHN	46 C	0537	0544.4	22.2	98.7	29.6		
	2695 ATHN	46 C		0548.2		91.2			
	1415 ATHN	46 C	0537	0547.1	23.3	229 U	75.5U		
	1415 ATHN	46 C		0548.3		252 U			
	1415 ATHN	46 C		0549.5		219 U			
	3750 TYKH	45 C	0537	0544.1	20	108	25		20L
	3750 TYKH	29 PBI	0557		60	8	3		
	3100 CRIM	3 S	0538 U	0544	8	92	31		
	3100 CRIM	29 PBI	0546	0549	74	40	13		
	2695 MANI	46 C	0538.4	0544.4	26.2	152	47		
	8800 MANI	20 GRF	0540.2	0544.5	22.3	49.7	21.6		
	200 HIRA	45 C	0540.4	0542.1	3.5	370	180		WL
	100 HIRA	45 C	0540.5	0543.5	4.5	1000	600		WL
	200 GORK	46 C	0541 E	0541.3	3.30	680			
	200 GORK			0542.6		680 D			
	100 GORK	46 C	0541 E		9.1	700 D			
	100 GORK			0543.9		1700			
	8800 ATHN	3 S	0541.5	0544.5	12.1	17.9	5.4		
	950 GORK	46 C	0542 E	0543.8	33	110			
	950 GORK			0547.5		267			
	950 GORK			0548.5		520			
	950 GORK			0551.6		242			
	950 GORK	29 PBI		0615.2	108	4.9			
	650 GORK	46 C	0542 E	0544	35	171			
	650 GORK			0545.2		162			
	650 GORK			0548.5		576			
	650 GORK	29 PBI		0615	114	12.7			
	2950 GORK	46 C	0542.8E	0543.6U	17.20	100 C			
	2950 GORK			0546.6		64.2			
	9400 TYKH	45 C	0542	0544.1	50	33	8		OL
	200 GORK	44 NS	0544 E		376 0		20		
	100 GORK	44 NS	0550		370		50		
	127 TORN	44 NS	0700 E		420 0				SUNRISE-SUNSET

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NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	260 ONDR	44 NS	0800 E		360 D	28			
	245 SGMR	44 NS	1140 E	1928.3	576 D	75.6			
	410 SGMR	44 NS	1140 E	1529.7	576 D	54.7			
	100 HIRA	44 NS	2115 E	0433	615 D	200	80		SR
	200 HIRA	44 NS	2115 E	2314	615 D	90	20		SL
	207 VORO	44 NS	2300	2307	240	50			
	100 GORK	46 C	0609.8U	0617.7	24	2500			
	100 GORK			0624.9		200			
	550 KIEV	42 SER	0924	0927 U	6	2	1		
	930 BORD	45 C	1144.6	1144.6	0.3	29	1		
	930 BORD	42 SER	1214.8	1214.8	3.5	39	2		
	536 ONDR	42 SER	1238		62	20			
	606 SGMR	4 S/F	1239.4	1240.8	12.9	18.9	5.7		
	410 SGMR	6 S	1239.5	1239.7	7.6	8.2	2.4		
	245 SGMR	6 S	1239.7	1240.8	8.4	4.5	1.4		
	2800 OTTA	21 GRF	1435	1455	110	4.6	2.3		
	606 SGMR	4 S/F	1445.6	1450.7	22	45.9	13.8		
	1415 SGMR	2 S/F	1447.2	1454.1	9.9	8.6	3.4		
	410 SGMR	6 S	1447.7	1450.8	9.1	7.1	2.1		
	2800 OTTA	1 S	1455	1455.2	2	3	1.5		
	930 BORD	45 C	1513.6	1514.4	1.4	13	2		
	930 BORD	42 SER	1545.7	1547	4.5	17	3		
	2800 OTTA	20 GRF	1720	1722	18	1	0.5		
	2800 OTTA	20 GRF	1900	1907	28	1	0.5		
	2800 OTTA	21 GRF	2010	2018	40	1.6	0.8		
	2695 BOUL	1 S	2013.5	2014.5	1.5	3	1		
	1420 BOUL	1 S	2014	2014	2	2	1		
	2800 OTTA	2 S/F	2014.2	2015.1	1	3	1.7		
	2695 SGMR	2 S/F	2014.3	2015.3	6.4	3	1.2		
	245 SGMR	6 S	2014.3	2015.1	3	53.1	10.6		
	410 SGMR	6 S	2014.3	2015.2	3.2	21.3	4.3		
	606 SGMR	2 S/F	2014.7	2014.9	.6	7.6	3		
	1415 SGMR	1 S	2014.7	2014.9	1.7	1.6	.6		
	2695 PENT	240 R	2050	2118	18	1.2	0.6		
	2695 PENT	24P R	2118		28	1.2			
	2695 PENT	240 R	2136	2144	8	2.4	1.2		
	2695 PENT	24P R	2144		60 D	2.4			
17	3750 TYKW	20 GRF	0220	0232	40	3	1		OL, 069055F
	3750 TYKW	5 S	0452.5	0453.1	1.5	2	1		OL
	1000 TYKW	5 S	0452.5	0453.3	2.5	1.9	0.7		
	2000 TYKW	5 S	0452.5	0453	2.5	2	0.6		OR
	2695 MANI	1 S	0521.1	0523.8	8.9	2.5	.6		
	8800 MANI	1 S	0521.1	0523.9	8.9	5	2.5		
	4995 MANI	1 S	0521.1	0523.8	8.9	8	2.3		
	2000 TYKW	20 GRF	0522	0540	70	2.1	1		OR
	3750 TYKW	20 GRF	0522	0535	60	4	2		OL
	9400 TYKW	20 GRF	0522	0530	50	4	2		OL
	100 GORK	44 NS	0600	E	485 D		65		
	200 GORK	44 NS	0600	E	405 D		15		
	127 TORN	44 NS	0700	E	420 D				
	260 ONDR	44 NS	0806	E	353 D	158	33		SUNRISE-SUNSET
	221 ABST	43 NS	0845.8	0849.8	12	19			
	228 HARS	43 NS	1130	1215	120	180	50		
	113 POTS	45	1134	1229	159 D	420			
	234 POTS	45	1134	1202	162 D	225			
	606 SGMR	44 NS	1141 E	1314.2	139.3U	16.4			
	245 SGMR	44 NS	1141 E	1856	574 D	61.1			
	410 SGMR	44 NS	1141 E	1311.3	574 D	22.7			
	100 HIRA	44 NS	2120 E	0017	605 D	1000	430		SR
	200 HIRA	44 NS	2120 E	0030	605 D	120	50		SL
	207 VORO	44 NS	2300	0030	240	125			
	650 GORK	25 S/F	0647.3	0647.4	0.5	5.7			
	9240 ARCE	20	0751.7	0806.2U	81.5U				
	1420 ARCE	20	0752.5	0849.8	148 U				
	29 UPIC	45 C	0753.2	0753.8	1.2				
	33 UPIC	45 C	0753.4	0754.1	1.8				
	29 UPIC	45 C	0810	0811	1.7				
	33 UPIC	45 C	0810.3	0810.7	1.5				
	950 GORK	20 GRF	0839.5	0850.5	29.5	6.8	2.2		
	650 GORK	23 GRF	0840	0851	28	13			
	29 UPIC	4 S/F	0843.3	0843.6	1.3				
	33 UPIC	4 S/F	0843.3	0843.6	0.6				
	536 ONDR	21 GRF	0843		134	63	11		
	650 GORK	3 S	0858.9	0859.2	0.6	32			
	29 UPIC	4 S/F	0920	0920.3	0.5				
	33 UPIC	4 S/F	0920.1	0920.3	0.7				
	650 GORK	46 C	0923.3	0924.4	6.2				
	650 GORK			0926		36			
	536 ONDR	46 C	0923.5		6	63	12		
	408 TRST	41	0923.5	0925.3	3.5	110			
	510 POTS	41	0923	0928	5.5	115	6		
	550 KIEV	41 F	0924.1	0925.2	5	48			
	950 GORK	2 S/F	0924.5	0925.9	3	4.6	2.2		
	100 GORK	6 S	0924.8	0925.2	7.5	580	130		

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			UT	UT	MINUTES	PEAK	MEAN		
7	200 GORK	41 F	0924.8	0925.6	4.2	500			
	200 GORK			0928.1		800			
	808 ONDR	4 S/F	0924	0925.3	3	17	5		
	408 TRST	41	0927.7	0928	1	330			
	650 GORK	40 F	0930	1022.7	81	12.5			
	408 TRST	47	0930	0954.2	110	16			
	1470 BERL	20	0953	0953.5	29	3.6			
	808 ONDR	4 S/F	0953.3	0954.4	2	40	5		
	550 KIEV	27 RF	1001	1023.5	45	16	8		
	950 GORK	20 GRF	1009	1011	14.5	3.1	1.5		
	33 UPIC	45 C	1010.7	1012.1	2.9				
	29 UPIC	45 C	1010.7	1011	1.9				
	3000 BERL	1	1055	1055.6	1.5	3	1.1		
	7000 SAOP	4	1122.1	1126.5	30.6	47.5	22.6		
	650 GORK	23 GRF	1132.1		67 D				
	408 TRST	47	1135	1156	40	410			
	3100 GRIM	3 S	1136	1158	23	89	30		
	3100 GRIM	29 PBI	1159	1159	60 D	20	7		
	808 ONDR	49 GB	1136	1229	53	640	140		
	808 ONDR			1156.6		370			
	808 ONDR	29 PBI	1136	1237	56	50	12		
	536 ONDR	49 GB	1136		63	70	42		
	536 ONDR	29 PBI		1240	64	34	14		
	200 GORK	27 RF	1137.3	1146.5	68	1000			
	200 GORK			1203.2		950			
	200 GORK			1229 U		950			
	510 POTS	45	1137	1200	116	125	40		
	9100 GORK	46 C	1138	1150.3	43 D	37			
	9100 GORK			1212.8		40			
	3000 BERL	46	1138.5	1157.5	94	195	42		
	3000 BERL			1158.3		195			
	930 BORD	45 C	1139	1229	86	675	55		
	6100 KISV	45 C	1139	1154	58	40			
	2950 GORK	23 GRF	1139		67				
	950 GORK	23 GRF	1139.2		65 D				
	9500 BERL	20	1140	1153	90	26			
	9240 ARCE	20	1140.5U	1154.9	100 U				
	1420 ARCE		1140.5	1153.1	35.2				
	1420 ARCE	40	1140.5	1226.9	71				
	1420 ARCE			1226.9	35.8				
	550 KIEV	49 GB	1140	1225 U	60	153 D			
	1470 BERL	46	1141	1227	79	225	50		
	2695 SGMR	46 C	1141 E	1156.4	72.40	214	52.6U		
	2695 SGMR	46 C		1158.7		263			
	245 SGMR	6 S	1141 E	1223.3	99.40	240	71.9U		
	410 SGMR	6 S	1141 E	1156	85.80	235	47 U		
	606 SGMR	47 GB	1141 E	1224	84 D	929	949 U		
	606 SGMR	47 GB		1227.2		3162			
	1415 SGMR	47 GB	1141 E	1227.2	82.70	518	104 U		
	1415 SGMR	47 GB		1230.5		356			
9400 HUAN	20 S	1141.6	1158.5	162.6	30	8.3		39L	
4995 ATHN	22 GRF	1141.9	1153.5	67.7	43.9	26.4			
33 UPIC	49 GB	1141.9	1158.6	18.1					
33 UPIC	29 PBI	1200		153.6					
100 GORK	49 GB	1142	1145	63 D	500				
100 GORK			1146.1		450				
100 GORK			1216.7		1500				
29 UPIC	49 GB	1143.4	1156.9	17.2					
29 UPIC	29 PBI	1200.6		141.7					
2695 ATHN	46 C	1143.5	1158	67.1	223 U	73.1U			
2695 ATHN	46 C		1158.4		244 U				
8800 ATHN	22 GRF	1143.7	1153.5	63.1	41.2	24.7			
650 GORK	46 C	1145.4	1149	24	94				
650 GORK			1155 U		139				
650 GORK			1158.5		290				
950 GORK	45 C	1145.5	1145.7	1.2	18.6				
950 GORK			1146.2		18.1				
950 GORK	46 C	1146.7	1148.2U	16.3	64 D				
950 GORK			1149.2		60				
950 GORK			1157 U		63 D				
950 GORK			1158.4		68				
2950 GORK	46 C	1147.8	1151.5	12.1	8.8				
2950 GORK			1157.4		92				
2950 GORK			1158.5		133				
650 GORK	46 C	1220.2	1220.8	5.4	238				
650 GORK			1223.2		328				
650 GORK			1224		530				
950 GORK	46 C	1222.3	1223	3	58				
950 GORK			1224.5		85				
950 GORK			1225		70				
950 GORK	46 C	1226.4	1227.7	4.5	32				
950 GORK			1228.7		90				
950 GORK			1230		34				
650 GORK	3 S	1226.7	1227.1	0.8	1690				
2950 GORK	8 S	1236	1236.7	1.3	41				

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			UT	UT	MINUTES	PEAK	MEAN		
	2950 GORK	8 S	1239	1239.7	1.4	90			
	2950 GORK	8 S	1242	1242.6	1.2	41			
	2800 OTTA	20 GRF	1300 E	1410	185 0	6.6			
	18 HGMA	6	1505	1508	3				
	2800 OTTA	240 R	1700	1715	15	1.2	0.6	1	
	2800 OTTA	24P R	1715		55	1.2			
	2800 OTTA	240 R	1810	1825	15	1.6	0.8		
	9400 HUAN	20 S	1823.1	1835.5	31.4	9.1	3.7		0
	2800 OTTA	24P R	1825		240 0	1.6			
	2800 OTTA	8 S	1843	1843.1	0.5	3.2	1.6		
	2695 PENT		1843	1843.1	0.5				
	2800 OTTA	1 S	1944.2	1945	5	1.2	0.6		
	2695 PENT	20 GRF	2000	2005	15	1	0.5		
	2800 OTTA	1 S	2018.9	2019	1.5	0.8	0.4		
	2800 OTTA	26 GRF	2025	2040	30	1	0.5		
18	3750 TYKW	5 S	0105	0117	25	2	1		OL,069038F
	1000 TYKW	45 C	0150	0238.2	140	19	6		
	2000 TYKW	26 GRF	0150	0210	130	2	1		OR
	3750 TYKW	20 GRF	0150	0307	130	5	1		OL,069038F
	500 HIRA	27 RF	0150	0225	84	8	4		
	9400 TYKW	5 S	0304	0307	10	3	1		OL
	100 GORK	44 NS	0600		360 0		50		
	200 GORK	44 NS	0600		360 0		10		
	200 GORK	3	0611	0611.2	0.9	140			
	127 TORN	44 NS	0700		420 0				SUNRISE-SUNSET
	260 ONDR	44 NS	0810		355	54	8		
	245 SGMR	44 NS	1142 E	1226.2	572 0	70.4			
	410 SGMR	44 NS	1142 E	1423.1	572 0	10.8			
	100 HIRA	44 NS	2120	2258	605 0	970	300		SR
	200 HIRA	44 NS	2120 E	2331	605 0	240	90		SL
	207 VORO	44 NS	2300	2350	240	266			
	100 GORK	27 RF	0615	0625.5	41	1700			
	200 GORK	3 S	0626	0626.1	0.5	200			
	9100 GORK	1 S	0658.3	0658.8	1.3	15.3	7.6		
	6100 KISV	45 C	0749	0754	23	12			
	2950 GORK	20 GRF	0752.2U	0840.6	177	16.5	7		
	3100 CRIM	1 S	0753	0754	6	5	2		
	3000 BERL	20	0814 U	0817.5	6 U	2.1			
	1420 ARCE	20	0815.2	0851.3	68.5				
	9240 ARCE	20	0815.7	0851.4	200 U				
	1470 BERL	2	0816	0817.8	2.5	3	1		
	6100 KISV	20 GRF	0823	0826	4	2			
	3100 CRIM	31 ABS	0824	0830	11	1			
	3100 CRIM	1 S	0835	0839	17	3	1		
	6100 KISV	28 GRF	0839	0844	8	4			
	221 ABST	41 F	0850	0851	2	18	10		
	930 BORD	4 SF	0926	0926.1	0.2	30	2		
	200 GORK	41 F	0933	0933.5	8.3	500			
	200 GORK			0937.6		400			
	200 GORK			0941.3		200			
	1420 ARCE	21	1031.4	1101.8	75				
	1420 ARCE	8	1033.8	1033.9	1.4				
	6100 KISV	21 GRF	1032	1034	5	4			
	3000 BERL		1033						
	1470 BERL	4	1033.5	1033.7	1	44			
	3100 CRIM	1 S	1034	1035	2	4	1		
	930 BORD	45 C	1034	1034.4	1	10	2		
	650 GORK	46 F	1034	1034.1	1.1	9.8			
	3100 CRIM	24 R	1036	1130		5	2		
	950 GORK	2 S/F	1036.9	1037.1	0.9	7	2		
	100 GORK	6 S	1039.4	1039.8	2.1	750 0			
	950 GORK	1 S	1046.2	1046.8	1.1	1.3	0.5		
	650 GORK	1 S	1046.3	1047.4	3.2	3.2	1.6		
	100 GORK	8 S	1054.1	1055 U	1.6	750 0			
	3000 BERL	20	1059	1102.3	6	1.7			
	1470 BERL	2	1100	1101.3	4	4.7	1.3		
	930 BORD	27 RF	1100	1102	4	7	3		
	3000 BERL	20	1144	1147.5	31 U	2.4			
	1470 BERL	20	1144	1150	16	2			
	29 UPIC	4 S/F	1203.1	1203.3	0.5				
	33 UPIC	4 S/F	1203.1	1203.1	0.5				
	33 UPIC	41 F	1223.4	1228.8	58.8				
	29 UPIC	41 F	1223.8	1228.9	38.5				
	15400 SGMR	22 GRF	1307.3	1355	66.2	12.9	7.7		
	8800 SGMR	22 GRF	1307.5	1355.6	55.8	21.2	12.7		
	1415 SGMR	22 GRF	1307.5	1357.7	77.2	39.6	23.7		
	2695 SGMR	22 GRF	1307.6	1358	68.8	12.9	7.7		
	4995 SGMR	22 GRF	1309.7	1330.4	51.5	20.6	12.3		
	2800 OTTA	23 GRF	1309	1359	290	9	4.5		
	234 POTS	45	1310	1358	65 0	23			
	1470 BERL	40	1311.5	1357.5	49 0	33	3.4		
	2800 OTTA	8 S	1314	1314.3	0.5	1.2	0.6		
	3000 BERL	22	1315 U	1330	45 0	3.8			
	113 POTS	45	1323	1353	53 0	1400			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1975

NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	9240 ARCE	20	1325.2U	1359.1	93 U				
	536 ONDR	8 S	1326.3	1326.3	0.2	11			
	2800 OTTA	1 S	1330	1330.5	1.5	1.6	0.8		
	1420 ARCE	21	1337.9	1346	49				
	1420 ARCE	4	1352.4	1357.8	8.6				
	606 SGMR	22 GRF	1346.3	1358.5	23.8	29.1	17.5		
	930 BORD	4 SF	1349	1357.1	20	30	7		
	410 SGMR	6 S	1350.4	1356.7	19.3	58.3	17.5		
	536 ONDR	45 C	1350	1358	10	18	14		
	510 POTS	45	1350	1358	18	21	5		
	808 ONDR	4 S/F	1353	1356.3	7	15	6		
	1415 SGMR	22 GRF	1855.1	2009	138.90	11.2	6.7U		
	2800 OTTA	23 GRF	1855	2028	220 D	10.6			
	2695 SGMR	22 GRF	1858.7	2002.8	135.30	12.6	7.5U		
	4995 SGMR	22 GRF	1859	2002.6	135 D	16.3	4.9U		
	245 SGMR	6 S	1859.7	1940.7	134.30	161.1	48.3U		
	606 SGMR	22 GRF	1903	1940.9	131 D	86.5	51.9U		
	410 SGMR	6 S	1903.3	1940.7	130.70	190.1	57 U		
	8800 SGMR	22 GRF	1903.4	1942	130.60	12.5	7.5U		
	1415 PALE	22 GRF	1906.3	1909.8	53.7	4.7	2.8		
	8800 PALE	20 GRF	1906.8	1912	53.2	7.6	4.5		
	2800 OTTA	40 F	1907	1921.5	23	2.6			
	500 HIRA	27 RF	2120 E	2225	210 D	95	24		
	1000 TYKW	40 F	2303	2317.1	24	3	0.5		99L
	1000 TYKW	45 C	2346	2346.5	2	3	1		95L
19	1000 TYKW	5 S	0116	0116.8	2	1.7	0.4		0R
	9400 TYKW	5 S	0127.2	0127.6	1	11	3		15L
	1000 TYKW	45 C	0145	0148	10	2.7	0.9		95L
	3750 TYKW	5 S	0251	0252.2	20	4	1		0L
	3750 TYKW	28 PRE	0320	0328	8	1	0.5		070017F
	2695 MANI	1 S	0328.9	0331.2	5.3	6.9	3.2		
	4995 MANI	3 S	0328.9	0331.2	6.9	21.8	6.1		
	9400 TYKW	5 S	0328	0331	15 U	16	5 U		35L,RAIN
	3750 TYKW	5 S	0328	0331.2	32	17	4		0L,070017F
	8800 MANI	1 S	0329.5	0331.2	3.2	8.8	2.9		
	606 MANI	2 S/F	0330.3	0331.2	2.2	11.3	2		
	500 HIRA	5 S	0330.3	0331	1.4	19	8		
	1000 TYKW	5 S	0330.5	0330.9	1.5	2.4	0.6		0R
	2000 TYKW	5 S	0330	0331	2	0.8	0.4		0R
	221 ABST	44 NS	0500	0629.8	240	14			
	200 GORK	44 NS	0551.2		303 D		40		
	127 TORN	44 NS	0700 E		420 D				SUNRISE-SUNSET
	100 GORK	44 NS	0724 E		276 D				
	29 UPIC	43 NS	0803	0850.4	245.3				
	33 UPIC	43 NS	0803	0850.3	251.9				
	260 ONDR	44 NS	0804 E		346 D	34	14		
	536 ONDR	43 NS	0834		206	34			
	245 SGMR	44 NS	1144 E	1844.5	569 D	32.8			
	234 POTS	45	1304	1312	20	90	30		
	100 HIRA	44 NS	2120 E	0609	605 D	1070	490		SR
	207 VORO	44 NS	2300	0231	240	34			
	606 MANI	40 F	0719.8	0723.3	7.5	14	3.2		
	4995 ATHN	22 GRF	0719.9	0723.5	22.9	13.4	8		
	8800 ATHN	22 GRF	0720.3	0724.2	22.1	12.4	7.4		
	2695 ATHN	22 GRF	0720.3	0723.9	22.3	11.2	6.7		
	9100 GORK	20 GRF	0720.3	0724	38	17	3.3		
	4995 MANI	4 S/F	0721.7	0723.8	6	19.4	6.1		
	2695 MANI	4 S/F	0721.7U	0724.5	6 U	12.6	6.3U		RFI
	3100 GRIM	3 S	0722	0723.5	20	10	3		
	234 POTS	45	0722.2	0722.4	0.2	150	15		
	510 POTS	45	0722.5	0723.3	1	25	5		
	650 GORK	45 C	0723.5E	0723.7	1.8U	8.2			
	650 GORK			0724.5		10.3			
	950 GORK	2 S/F	0723.7	0724.5	1.7D	15			
	2950 GORK	3 S	0732 U	0733 U	3.6	2.4	1.2		
	650 GORK	1 S	0738.2	0738.8	1.1	2.8	1.4		
	29 UPIC	46 C	0803	0803.8	4.5				
	33 UPIC	46 C	0803	0803.2	4.4				
	1470 BERL	46	0810	0858.3	115	170			
	9240 ARCE	20	0812.8	0902	164				
	950 GORK	1 S/F	0816.6	0818.2	3.7	6.6	1.2		
	930 BORD	45 C	0816	0858.4	100	1029	25		
	650 GORK	1 S	0817.7	0818.2	0.8	2.3	1.2		
	950 GORK	1 S	0823.7	0824.3	0.8	5.5	2.6		
	950 GORK	23 GRF	0823.7	0823.7	84.3				
	33 UPIC	45 C	0826.1	0826.5	9.5				
	29 UPIC	45 C	0826.4	0827.5	8				
	650 GORK	21 GRF	0827.3	0827.3	12.7U	3.6	1.3		
	650 GORK	1 S	0835	0835.1	0.6	3.6			
	650 GORK	2 S/F	0837.6	0838.1	0.7	3.2			
	950 GORK	25 S/F	0837.8	0837.9	0.4	10	5		

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NOVEMBER 1975

NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
19	650 GORK	2 S/F	0839.3	0839.6	0.5	4.6			
	221 ABST	6 S	0844	0844.2	0.8	78			
	260 ONDR	4 S/F	0844.5	0845.4	1.5	230	96		
	234 POTS	45	0845.3	0845.8	0.5	450	80		
	200 GORK	8 S	0845.3	0845.6	0.8	800			
	650 GORK	4 S/F	0845.5	0845.5	1.9	15			
	950 GORK	2 S	0845.5	0845.6	0.3	14.7			
	408 TRST	45	0845.5	0845.5	0.2	360			
	510 POTS	41	0845	0858	40	100	10		
	33 UPIC	49 GB	0847.1	0850.3	25.7				
	29 UPIC	49 GB	0849.2	0850.4	20.8				
	650 GORK	46 C	0849.7		40				
	650 GORK			0850.7	1.6	19.4			
	650 GORK			0858.5	0.9	273			
	650 GORK			0859.6	0.5	191			
	650 GORK			0901.5	0.5	191			
	650 GORK			0907	0.8	254			
	650 GORK			0916.7	2.4	173			
	650 GORK	30 PBI		0928	57	9			
	950 GORK	46 C	0849.9	0850.6	1.8	51			
	950 GORK			0851.4		31			
	808 ONDR	4 S/F	0850	0850.5	2	35	19		
	3000 BERL	3	0857.5	0901.5	78	13	2.8		
	950 GORK	46 C	0857.7	0858.4	4.5	720			
	950 GORK			0859.3		290			
	950 GORK			0859.8	300	300			
	950 GORK			0901.6		193			
	408 TRST	41	0858	0858.4	5	63			
	3100 CRIM	3 S	0858	0901	14	8			
	2695 ATHN	4 S/F	0858.2	0901.4	7.2	19.5	5.9		
	4995 ATHN	1 S	0858.2	0901.4	6.8	10	3		
	9100 GORK	20 GRF	0858.3	0917	49.7	6.6	1.6		
	8800 ATHN	1 S	0858.4	0901.4	6.1	4.1	1.2		
	550 KIEV	48 C	0858.4	0907	27	143			
	808 ONDR	49 GB	0858	0907.2	49	340	50		
	536 ONDR	49 GB	0858	0858	22	84	38		
	408 TRST	41	0905	0907.1	6	85			
	950 GORK	46 C	0905.2	0905.6	4.2	45			
	950 GORK			0908.5		255			
	2950 GORK	20 GRF	0906 U	0910.30	76	22			
	408 TRST	45	0912	0915.7	7	74	29		
	950 GORK	46 C	0913	0913.3	4.3	68			
	950 GORK			0914.3		80			
	950 GORK			0915.6		239			
	950 GORK			0917		153			
	408 TRST	42	0940	0941.7	2.9	70			
	408 TRST	45	0943	0945.8	4.3	30	8		
	510 POTS	45	0944.5	0945.8	3	25	8		
	650 GORK	4 S/F	0944.9	0945.6	1.8	12.9			
	950 GORK	1 S/F	0945	0945.5	1.7	8			
	9240 ARCE	20	1143.7	1155.6	154				
	2800 OTTA	21 GRF	1325	1345	92	1	0.5		
	2695 SGMR	2 S/F	1337.4	1339.6	4	1.9	.8		
	4995 ATHN	1 S	1337.5	1339.9	5.4	9.2	2.7		
	8800 SGMR	2 S/F	1338.2	1340.7	4.6	4.4	1.8		
	4995 SGMR	2 S/F	1338.5	1339.9	3.9	3.8	1.5		
	1415 SGMR	2 S/F	1338.5	1339.6	2.2	2.1	.8		
	2695 ATHN	1 S	1338.6	1339.6	4.1	2.8	.8		
	2800 OTTA	2 S/F	1339	1340	2	0.8	0.4		
	9240 ARCE	22	1430.7	1433.2	11				
	4995 SGMR	2 S/F	1432.1	1433	2.7	2.4	.7		
	8800 SGMR	4 S/F	1432.2	1433	2.4	11.2	3.4		
	2695 SGMR	22 GRF	1548.8	1616.7	71.7	3.8	2.3		
	2800 OTTA	22 GRF	1600	1630	80	2.2	1.1		
	1415 SGMR	22 GRF	1601	1611.4	59.5	2.9	1.8		
	4995 SGMR	22 GRF	1602.7	1616.6	58.1	7	4.2		
	8800 SGMR	22 GRF	1608.2	1616.5	41.2	17.9	10.8		
	15400 SGMR	22 GRF	1612.8	1618.7	30.7	9.8	5.9		
	2800 OTTA	24 R	1727	1755	28	1.8	0.9		
	2800 OTTA	27A RF	1727		183	1.8	1.4		
	2800 OTTA	24P R	1755		115	1.8			
	1415 SGMR	2 S/F	1813.6	1815.5	3.1	.8	.2		
	2695 SGMR	2 S/F	1813.7	1815.5	2.6	2.2	.6		
	606 SGMR	2 S/F	1813.9	1815.5	3.3	2.7	.8		
	4995 SGMR	2 S/F	1814.3	1815.5	2	3.8	1.1		
	8800 SGMR	2 S/F	1814.5	1815.5	1.8	6.1	1.8		
	15400 SGMR	2 S/F	1814.8	1815.5	.9	7.3	2.2		
	2695 SGMR	22 GRF	1845.7	1852.2	19.8	3.2	1		
	2800 OTTA	21 GRF	1845	1858	25	1.8	0.9		
	4995 SGMR	22 GRF	1846	1851.9	19.4	6.8	2		
	2800 OTTA	8 S	1847.8	1847.8	0.1E	1.7			
	2800 OTTA	46F C	1849	1849.9	4.5	10.6	2.4		
	2695 PENT	20 GRF	1850	1851	14	2	0.9		
	4995 SGMR	22 GRF	1923.9	1931	10.9	6.5	2		
	8800 SGMR	4 S/F	1928.3	1931.4	5.4	13.3	4		

SOLAR RADIO EMISSION
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NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
20	2900 OTTA	26 FAL	1950	2030	40	-1.8	-0.9		
	4995 BOUL	1 S	2029	2030.5	2	6	2		
	2695 PENT	1 S	2101.5	2103	10	0.8	0.4		
	200 HIRA	44 NS	2120 E	0459	605 D	100	40		SL
	100 GORK	44 NS	0550 E		370 D		150		
	200 GORK	44 NS	0551 E		429 D		150		
	127 TORN	44 NS	0700 E		420 D				SUNRISE-SUNSET
	260 ONDR	44 NS	0804 E		356 D	74	30		
	33 UPIC	43 NS	0838.5	0920.3	271.8				
	29 UPIC	43 NS	0838.9	1058.1	272.3				
	221 ABST	43 NS	0852.5	0853	8	31			
	536 ONDR	43 NS	0857	0926.8	293	38	12		
	234 POTS	45	1027	1155	213	50			
	510 POTS	45	1027	1154	213	28			
	245 SGHR	44 NS	1145 E	1445.2	567 D	93.7			
	410 SGHR	44 NS	1145 E	1205.6	567 D	60.3			
	200 HIRA	44 NS	2120 E	0617	605 D		230	85	SL
	100 HIRA	44 NS	2120 E	0020	605 D	1080	720		SR
	207 VORO	44 NS	2300	0018.5	240		190		
	1420 ARCE	21	0811.2	0846	65				
	221 ABST	41 F	0826.2	0829.2	2	19	10		
	536 ONDR	45 C	0828	0830.5	3	10	3.3		
	650 GORK	4 S/F	0829	0830.9	3	15.5	3.4		
	1470 BERL	3	0829.7	0830.4	1.8	16	6.4		
	200 GORK	3 S	0830	0830	0.4	600	300		
	510 POTS	45	0830.2	0830.5	0.7	14	3		
	930 BORD	45 C	0830.3	0830.7	1.7	29	4		
	1420 ARCE	2	0830.4	0830.6	0.6				
	2950 GORK	1 S	0830.5	0831.5	3.4	5	2.5		
	950 GORK	2 S	0830.6	0830.9	1.8	11.2	2.5		
	808 ONDR	1 S	0830	0830.6	2	10	4		
	1470 BERL	40	0837	0903.3	57	13			
	33 UPIC	45 C	0838.5	0839.5	2.3				
	29 UPIC	45 C	0838.9	0839.4	1.4				
	3000 BERL	20	0840	0906	149	5.6			
	9500 BERL	20	0844	1011	213	6			
	510 POTS	45	0847	0927	80	25	6		
	550 KIEV	48 C	0850	0926.7	60	28	8		
	650 GORK	22 GRF	0854 U		53	14.8	6.7		
	808 ONDR	20 GRF	0858.2	0946.3	32	18	13		
	1420 ARCE	2	0902.8	0903.3	1				
	1420 ARCE	2	0905.9	0906.2	0.8				
	550 KIEV	44 NS	0905 U		300 D	10			
	950 GORK	20 GRF	0912.7	0926.8	18.6	6.1	1.8		
	200 GORK	2 S/F	0922	0927.8	8	700			
	9240 ARCE	1	0942.7	0945.3	3.7				
	650 GORK	22 GRF	1030		90 D	9.1	5.3		
	1415 SGHR	1 S	1234.5	1235.7	2	4.8	1.9		
	2695 SGHR	1 S	1234.7	1235.8	2.3	8	3.2		
	33 UPIC	45 C	1304.9	1306.2	5.4				
29 UPIC	45 C	1305.7	1306.2	5.5					
2800 OTTA	27F RF	1305	1305	210	2	1.7			
2800 OTTA	24 R	1305	1340	35	2	1			
2800 OTTA	24P R	1340		140	2				
9240 ARCE	1	1418.9	1419	1					
9240 ARCE	41	1418.9	1430.2	14.3					
9240 ARCE	3	1429.9	1430.2	1.2					
9240 ARCE	1	1432	1432.5	1.2					
4995 SGHR	2 S/F	1457.1	1502.2	8.3	2.5	.8			
2695 SGHR	1 S	1501.2	1503.3	3.9	2	.6			
2800 OTTA	26 FAL	1600	1635	35	-2	-1			
2800 OTTA	27F RF	1700		130	1.2	0.8			
2800 OTTA	24 R	1700	1750	50	1.2	0.6			
2800 OTTA	24P R	1750		50	1.2				
2800 OTTA	26 FAL	1840	1910	30	-1.2	-0.6			
2800 OTTA	20 GRF	1935	1950	35	1.6	0.8			
2800 OTTA	20 GRF	2045	2050	15	0.8	0.4			
21	2000 TYKH	5 S	0310	0310.6	2	2.5	1		DR
	1000 TYKH	45 C	0310	0310.6	2	2.7	0.9		
	1000 TYKH	5 S	0316	0316.6	2	1.4	0.3		
	1000 TYKH	45 C	0329.5	0333.4	6	2.4	1		
	2000 TYKH	45 C	0329	0330.2	6	1.1	0.4		DR
	1000 TYKH	45 C	0359	0401.2	5	1.6	0.5		
	200 GORK	44 NS	0604.2E		356 D		20		
	100 GORK	44 NS	0606 E		354 D		150		
	127 TORN	44 NS	0700 E		420 D				SUNRISE-SUNSET
	260 ONDR	44 NS	0820 E		340 D	44	23		
	245 SGHR	44 NS	1146 E	1635.9	566 D	54.5			
	100 HIRA	44 NS	2120 E	0430	605 D	160	118		SR
	200 HIRA	44 NS	2120 E	2251	605 D	50	20		SL
	207 VORO	44 NS	2300	0248	240	71			
	606 MANI	40 F	0605.2	0658.2	60.6	283	101		
606 MANI	29 PBI	0705.6	0705.6	55.4	5.2	2.6			
2000 TYKH	45 C	0605	0616.7	65 D	460	60 U		03R	

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NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
21	4995 MANI	4 S/F	0606.5	0618.9	56.8	198	62		
	4995 MANI	29 PBI	0703.3	0703.3	51.7	36.9	18.5		
	8800 MANI	4 S/F	0607.9	0619.1	57.9	89	47.4		
	8800 MANI	29 PBI	0705.8	0705.8	47	25.3	15.8		
	2950 GORK	23 GRF	0608.5		101				
	2695 ATHN	46 C	0609.3	0619	51.7	197.1	59.1		
	2695 ATHN	29 PBI	0710	0710	29.9	39.6	11.9		
	2695 ATHN	46 C		0633.7		146.7			
	2695 ATHN	46 C		0654.7		109.8			
	950 GORK	20 GRF		0610.3		101			
	650 GORK	46 C		0610.5		52			
	650 GORK				0615.9	1.5	148		
	650 GORK				0619.7	8.9	178		
	650 GORK				0631.1	2.5	232		
	650 GORK				0641.1	1.7	229		
	650 GORK				0653.3	1.6	325		
	650 GORK				0657.8	0.5	419		
	650 GORK	29 PBI			0702.8	54	23		
	500 HIRA	45 C	0610.7	0657.7U	70 0	130 D	48 D		
	4995 ATHN	22 GRF	0610.8	0618.9	76.1	127.6	76.6		
	3750 TYKH	45 C	0610	0618.8	60 D	182	65 U		COMPLEX POL
	1000 TYKH	45 C	0610	0652.6	55 D	390	100 U		
	1000 TYKH			0640.8		385			
	950 GORK	46 C	0613.4	0615.8	10.6	127			
	950 GORK			0618.1		165			
	950 GORK			0619.4		227			
	8800 ATHN	22 GRF	0613.5	0619	72.8	100	60		
	2695 MANI	28 PRE	0605.8	0614	8.7	16	5.7		
	2695 MANI	46 C	0614.5	0618.8	49.4	190	95		
	2695 MANI	29 PBI	0703.9	0703.9	55.1	30.2	11.4		
	1415 MANI	28 PRE	0605.9	0614.3	8.7	33.9	5.2		
	1415 MANI	47 GB	0655	0614.6	49.3	790	161		
	1415 MANI	29 PBI	0703.9	0703.9	49.9	15.7	4.4		
	200 GORK	8 S	0614.6	0615.1	8.9	1000			
	2950 GORK	4 S/F	0614.6	0619	9	258			
	2695 MANI	8 S	0615.5	0615.9	.6	95	35.7		
	9400 TYKH	45 C	0615	0618.8	45 D	88	40 U		40L
	100 GORK	41 F	0616.3	0616.4	1.5	16000			
	100 GORK			0617.4		8600			
	9100 GORK	48 C	0616.5	0618.7	54.3	78	41		
	9100 GORK			0633.1		64			
	9100 GORK			0656		37			
	9100 GORK	29 PBI		0710.8	40	16.4	8.1		
	950 GORK	46 C	0624.7	0625.7	11.5	64			
	950 GORK			0631.8		76			
	2950 GORK	4 S/F	0628	0733.3	10.4	181			
	950 GORK	46 C	0636.5	0639.5	7.2	196			
	950 GORK			0640.7		262			
950 GORK			0642.2		182				
200 GORK	27 RF	0639	0656.3	72	800				
200 GORK			0700.6		600				
200 GORK			0725.9		500				
100 GORK	41 F	0641	0641.2	14.2	3900				
100 GORK			0649.6		3200				
100 GORK			0654.4		3200				
510 POTS	45	0643.8	0652.3	48 U	140				
950 GORK	46 C	0644.1	0645.2	2.4	151				
950 GORK			0647.2		122				
950 GORK	46 C	0651	0653.2	4	344				
950 GORK			0657.1	4.3	564				
2950 GORK	4 S/F	0651	0654.8	8.1	140				
33 UPIC	45 C	0730		10.3					
29 UPIC	45 C	0734.1	0736.4	4.4					
33 UPIC	45 C	0756.2	0800.2	6.7					
221 ABST	46 C	0756.2	0757.2	1.5	44	22			
29 UPIC	45 C	0756.8	0759.5	3.2					
33 UPIC	45 C	0859.3	0900.6	4.2					
29 UPIC	45 C	0900.4	0901	2.3					
9240 ARCE	1	0908.3	0909.7	2.4					
33 UPIC	45 C	0931.3	0934.4	4.7					
29 UPIC	45 C	0931.5	0934.3	4.2					
9240 ARCE	1	1401.7	1402	1					
2695 BOUL	45 C	1817	1819.5	9.5	65	23			
4995 BOUL	3 S	1822.5	1823.5	3	7	2			
22	100 GORK	44 NS	0559		361 0	10			
	200 GORK	44 NS	0600		360 0	15			
	200 GORK	8 S	0632	0632.7	1.4	600	300		
	127 TORN	44 NS	0700 E		420 D			SUNRISE-SUNSET	
	550 KIEV	42 SER	0803	1035	300	49			
	260 ONDR	44 NS	0820 E		325 D	84	37		
	536 ONDR	43 NS	1010		215 D	21	10		
	410 SGMR	44 NS	1147 E	1219.2	564 D	45.6			
	245 SGMR	44 NS	1147 E	1450.8	564 D	138.7			
	100 HIRA	44 NS	2120 E	2305	605 D	1100	460		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
NOVEMBER 1975

NOV 1975	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	200 HIRA	44 NS	2120 E	2223	605 D	190	100		SL
	207 VORO	44 NS	2300	2346	240	175			
	1470 BERL	40	1009	1046.2	51	20			
	408 TRST	42	1009.6	1014.7	6.8	28			
	950 GORK	22 GRF	1012	1048	47.3	1			
	930 BORD	40 F	1013	1047.9	47	28	3		
	200 GORK	41 F	1016.8	1019.3	11	1340			
	200 GORK			1020.2		1140			
	200 GORK			1022.6		560			
	808 ONDR	46 C	1017.5	1048	42	20	10		
	234 POTS	40	1018.5	1019.1	0.7	450	20		
	408 TRST	42	1022.5	1042.1	36	64			
	650 GORK	23 GRF	1022.6		35.4				
	650 GORK	2 S/F	1031.6	1032.2	0.9	10.2	3.2		
	650 GORK	46 C	1050.1	1050.4	0.5	11.4	5.1		
	650 GORK			1051.7	0.5	16.3			
	650 GORK	22 GRF	1101.3	1126.8	57	6.1	3		
	950 GORK	20 GRF	1113.3	1121	46.70	4	2.5		
	930 BORD	45 C	1215.5	1215.5	0.8	9	2		
23	100 GORK	44 NS	0557 E		363 D		15		
	200 GORK	44 NS	0600 E		360 D		5		
	221 ABST	43 NS	0654.5	0657.5	8	14			
	127 TORN	44 NS	0700 E		420 D				SUNRISE-SUNSET
	260 ONDR	44 NS	0750 E		370 D				
	100 GORK	8 S	0926.2	0926.4	0.2	400	23		
	2800 OTTA	1 S	1441	1442	3	0.8	0.4		
	1420 BOUL	3 S	1822.5	1823.5	2.5	6	2		
24	200 GORK	41 F	0845.2	0846	7.5	40			
	200 GORK			0851.1		50			
	200 GORK			0852.3		30			
	200 GORK	43 NS	1000		120 D		5		
	930 BORD	42 SER	1526.7	1527.4	0.7	9	2		
25	3100 CRIM	1 S	1031	1033	5	5	2		
26	260 ONDR	8 S	1040.8	1040.8	0.2	182			
	200 HIRA	45 C	2210	2244	60 U	30	17		WL
	100 HIRA	45 C	2231	2303 U	103	270 U	80		WLHR
27	7000 SAOP	3	1709.6	1710.5	4.8	19.1	9		
29	127 TORN	40 F	1203	1206.7	7	4	0.8		

Reports received from the following observatories:

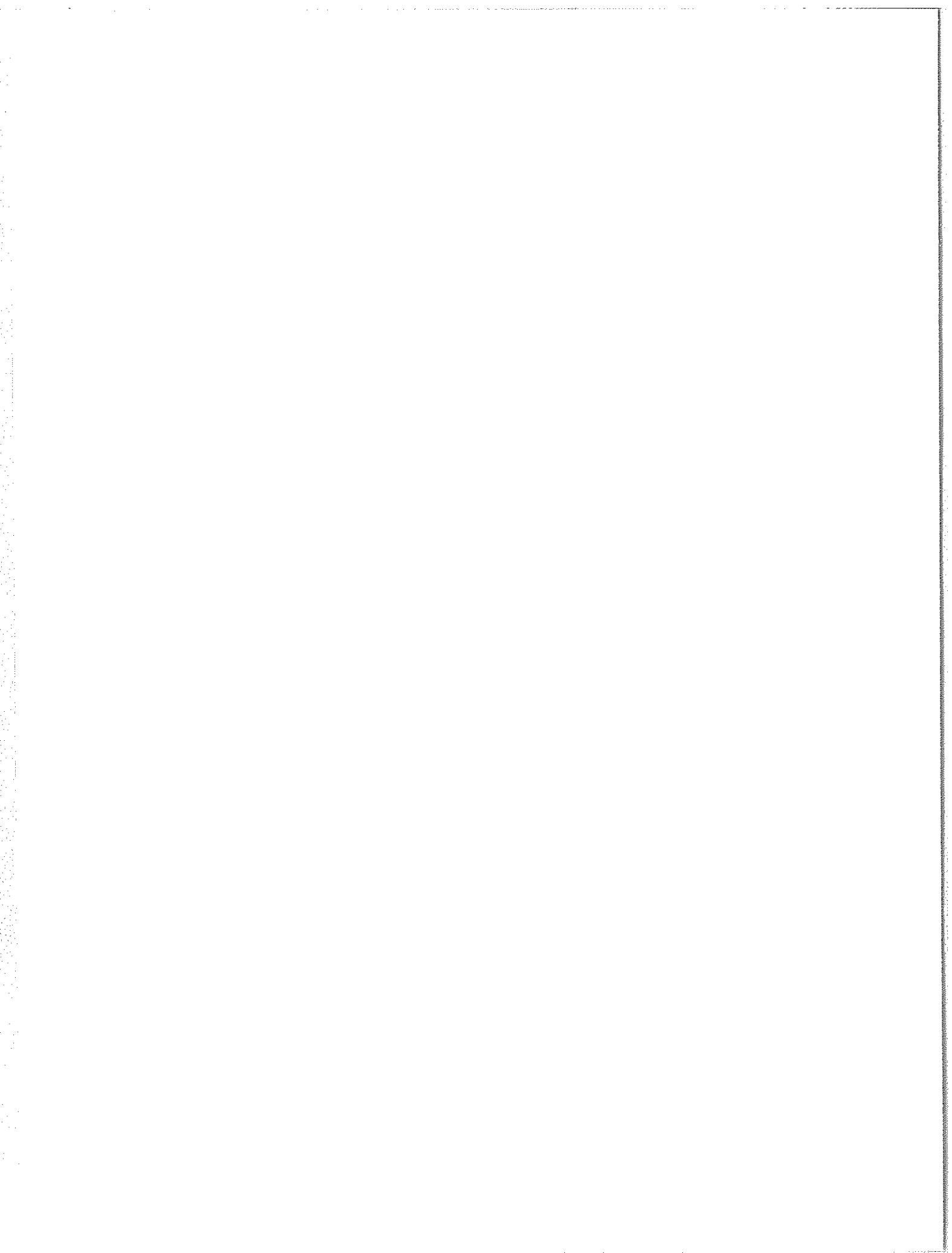
ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BORD = Bordeaux
BOUL = Boulder
CRIM = Simferopol

DWIN = Dwingeloo
GORK = Gorky
HARS = Harestua
HIRA = Hiraio
HUAN = Huancayo
IRKU = Irkutsk

KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov

OTTA = Ottawa
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill

SYDN = Sydney
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice
VORO = Voroshilov
(Ussurisk)



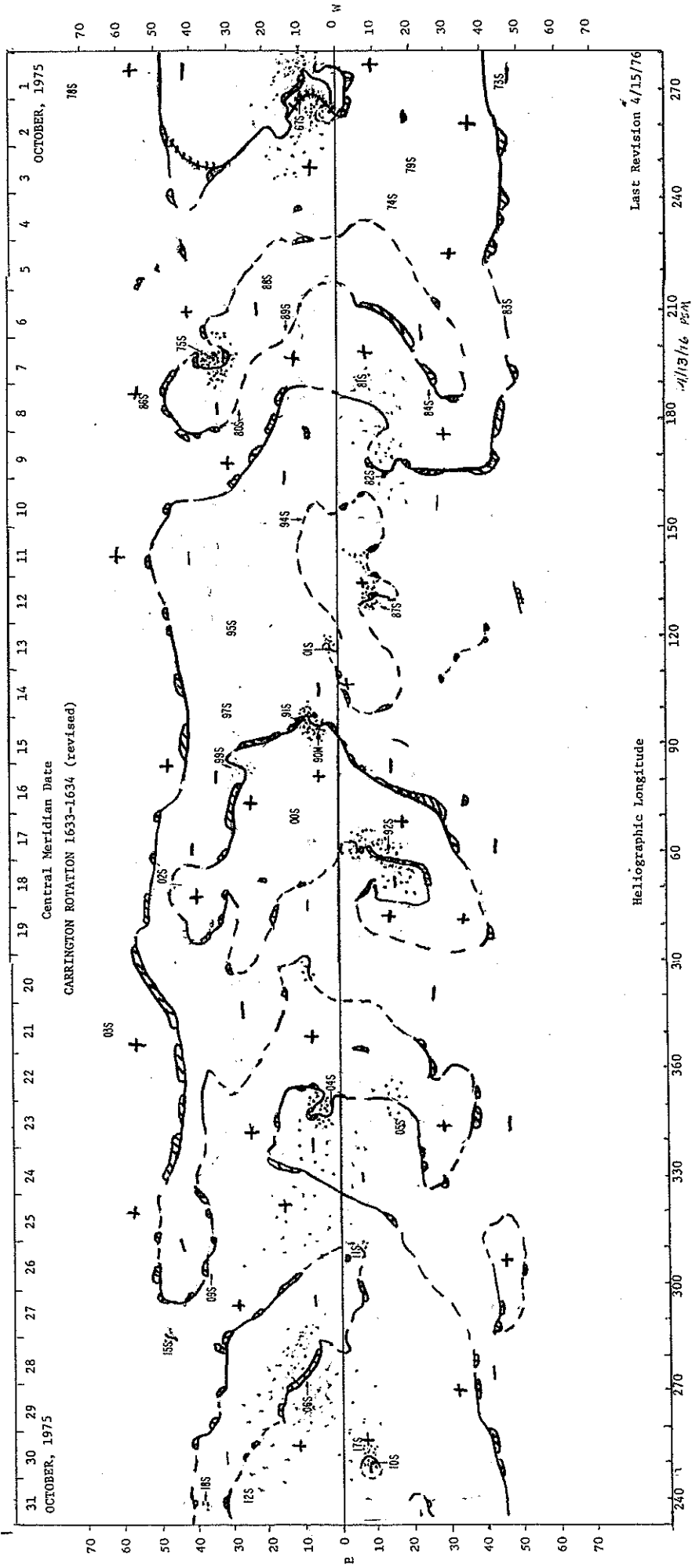
OCTOBER 1975 DATA

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ABBREVIATED CALENDAR RECORD H α SYNOPSIS CHART

OCTOBER 1975



ABBREVIATED CALENDAR RECORD

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Oct 75

Oct. 1, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 6	Kp	3o		2+		1+		2o		0+		1o		1-		1o											
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona		E. Limb 7 days earlier: NE- moderately br.								SE-				W. Limb 7 days later: NW- no data								SW- no data					
Indices		Rz: 15 (Final)		10cm flux: 76				Flare: 1/22.7				Ca: 8.0				Ip: 0				Ia: 0							
Solar Regions		(13873) S45				(13878) N71				13867 N10 (3)																	
Sunspots																											

Oct. 2, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 20Q	Kp	2-		0+		0o		0+		0o		0o		1-		2-											
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona		E. Limb 7 days earlier: NE-								SE				W. Limb 7 days later: NW- moderately br.								SW-					
Indices		Rz: 8		10cm flux: 78				Flare: 1/22.3				Ca: 8.0				Ip: 0				Ia: 0							
Solar Regions																											
Sunspots		(19629) S09 (α)1																									

Oct. 3, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 11	Kp	1-		0+		1-		3o		▲ 1116(15)		3+		2-		4-		4-									
	sc																										
Aurora	USSR																										
	W.E.	φ = 60° 2050 (glow) central Scotland																									
Cosmic Rays																											
Green Corona		E. Limb 7 days earlier: NE- no data								SE- no data				W. Limb 7 days later: NW-								SW-					
Indices		Rz: 9		10cm flux: 78				Flare: 0/23.5				Ca: 7.8				Ip: 0				Ia: 1							
Solar Regions		13879 S21																									
Sunspots																											

Oct. 4, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 9	Kp	4+		3-		2o		1o		1-		0+		2-		2o											
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona		E. Limb 7 days earlier: NE-								SE				W. Limb 7 days later: NW- no data								SW- no data					
Indices		Rz: 10		10cm flux: 76				Flare: 10/24.0				Ca: 6.8				Ip: 0				Ia: 3							
Solar Regions		(13874) S16																									
Sunspots																											

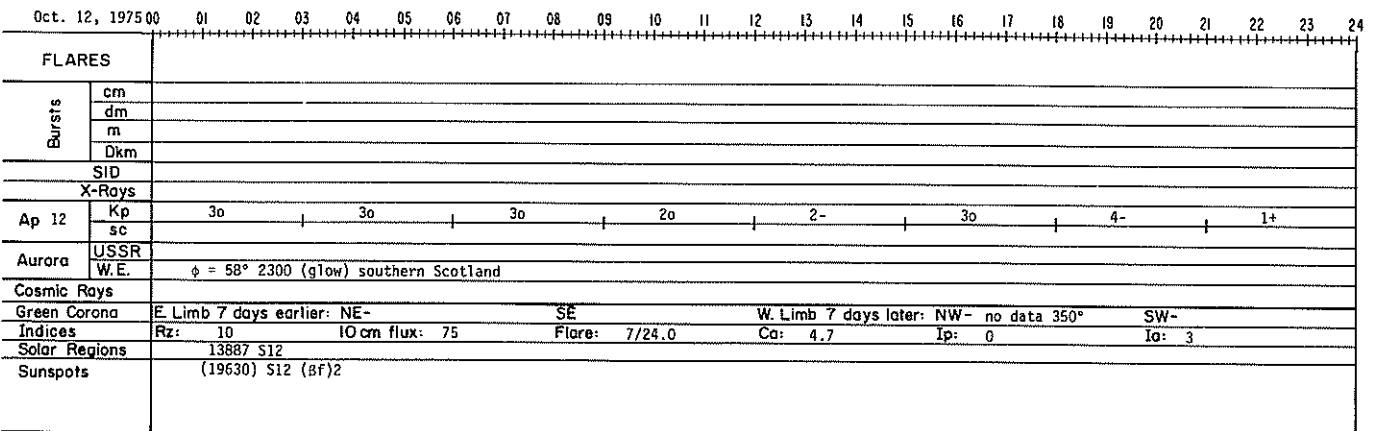
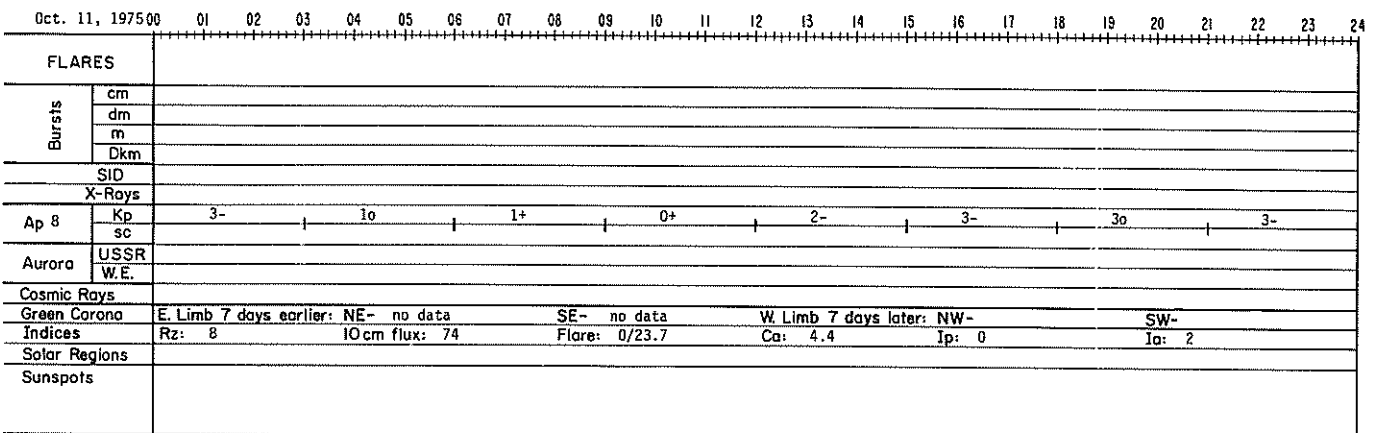
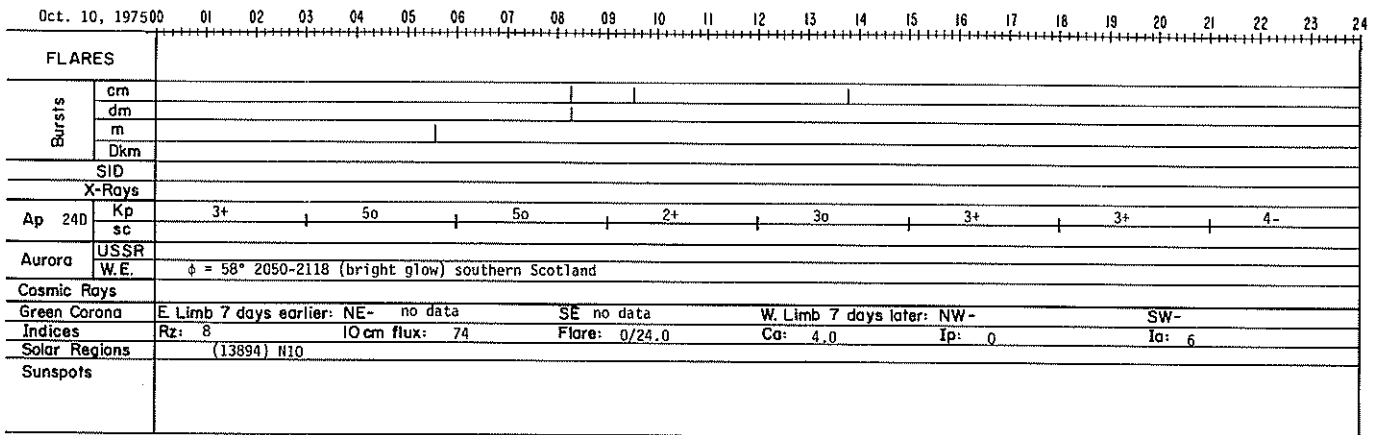
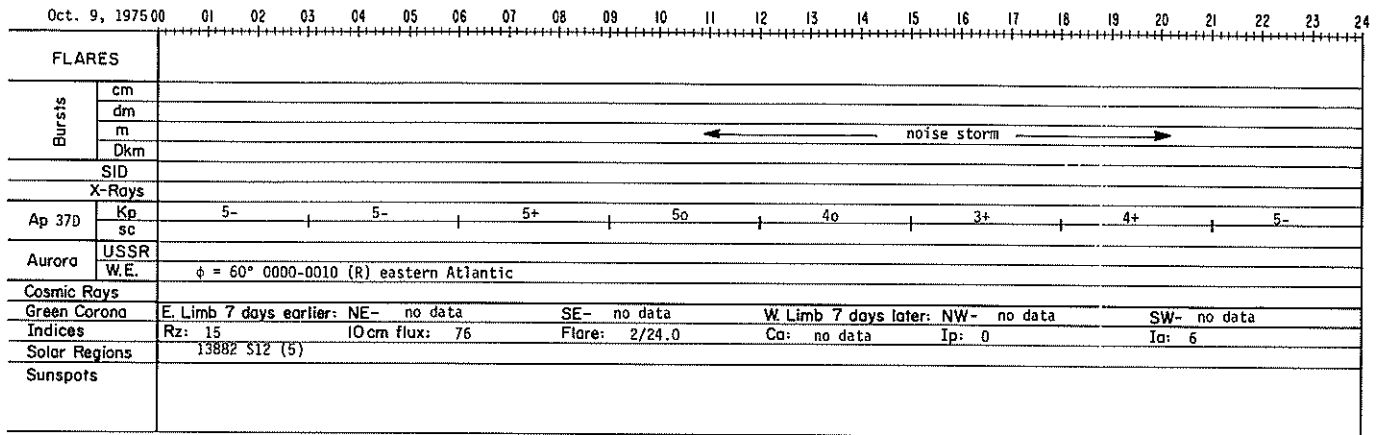
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Oct 75

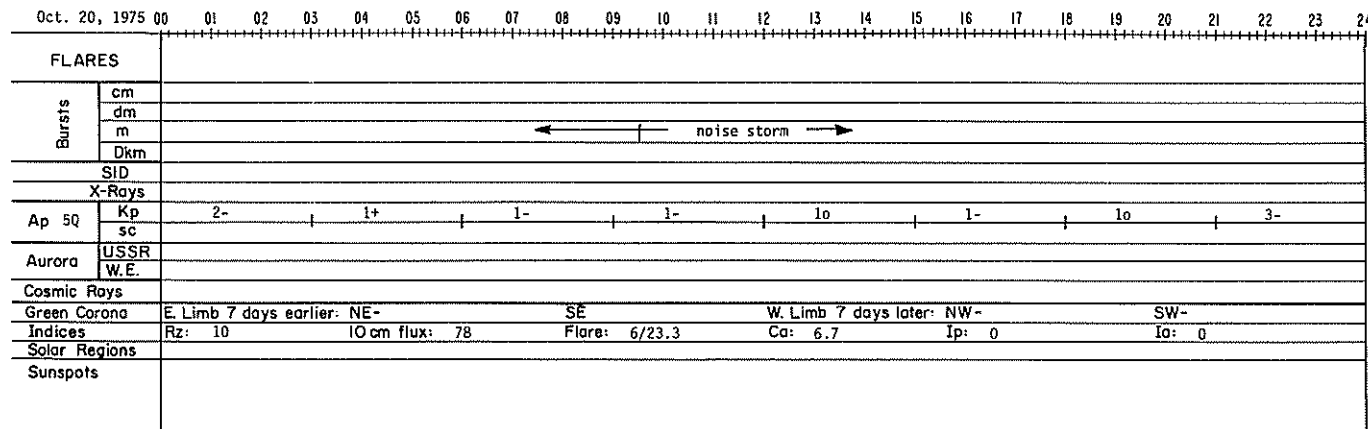
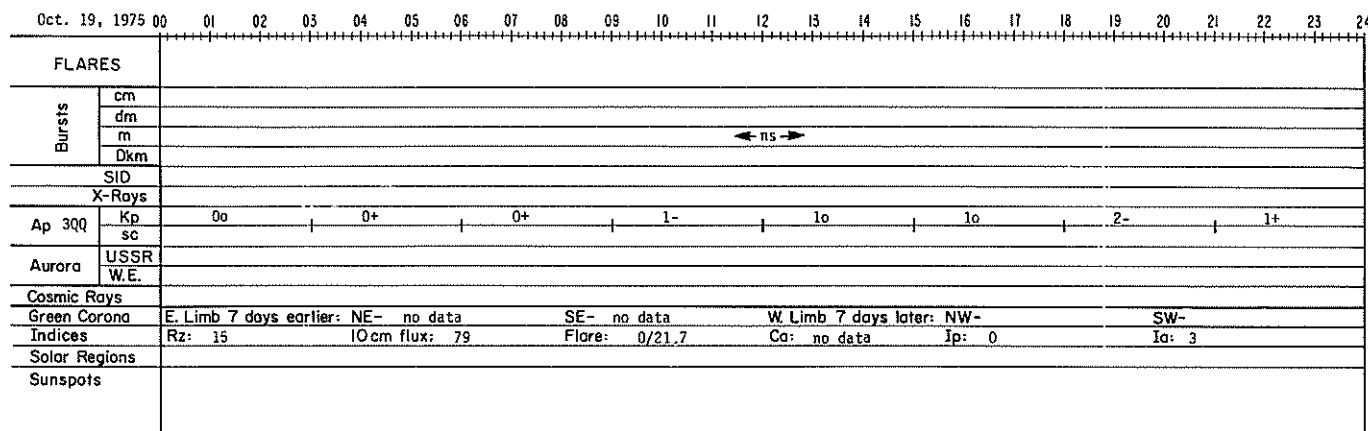
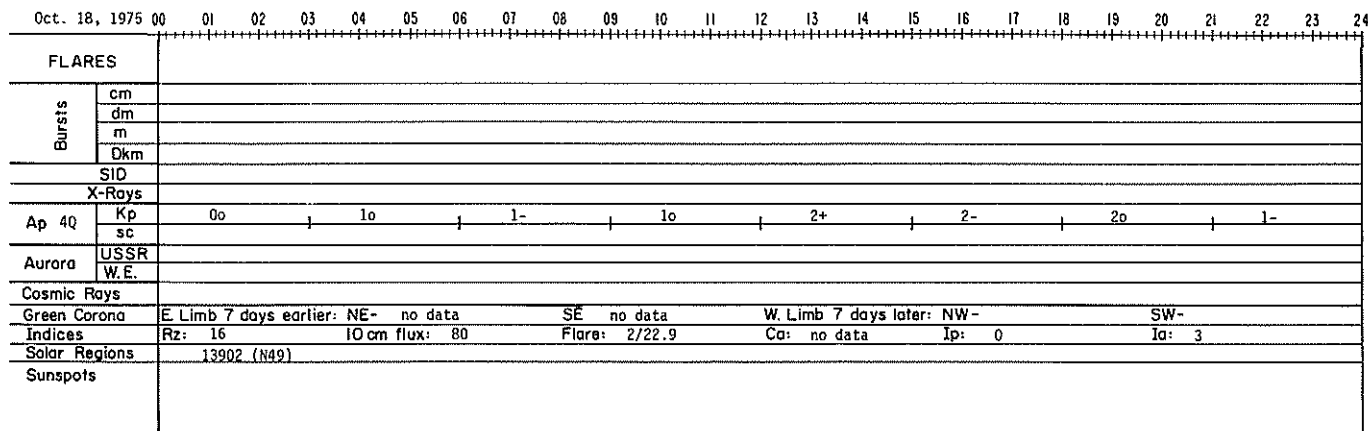
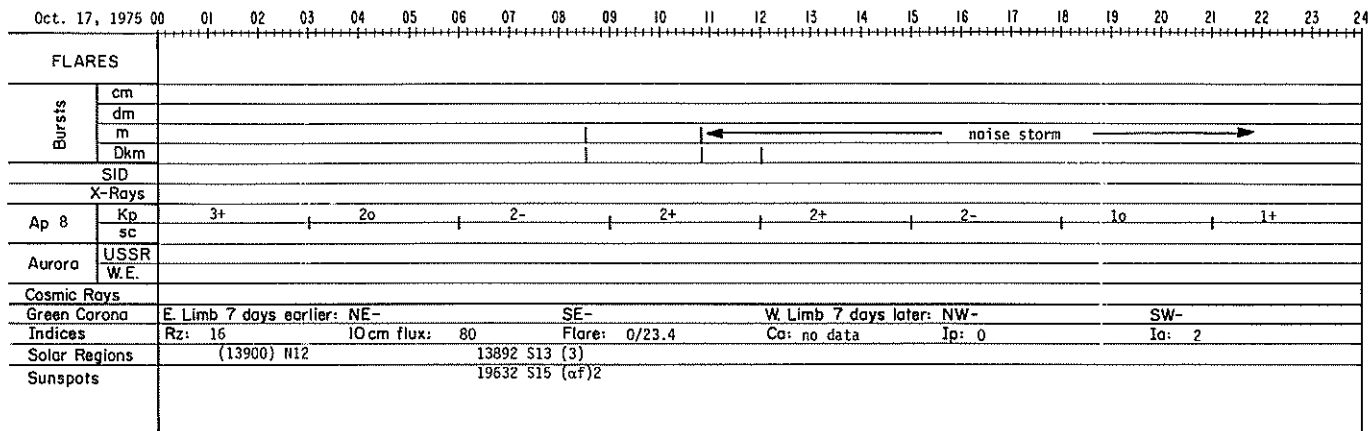
Oct. 5, 1975 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																										
Bursts	cm																									
	dm																									
	m																									
	Dkm																									
SID																										
X-Rays																										
Ap 6	Kp	3o				3-				2-																
	sc																									
Aurora	USSR																									
	W.E.																									
Cosmic Rays																										
Green Corona	E. Limb 7 days earlier: NE- no data					SE- no data					W. Limb 7 days later: NW- no data					SW- no data										
Indices	Rz: 8	10cm flux: 76					Flare: 2/24.0					Ca: 6.7					Ip: 0									
Solar Regions	(13888) N19																									
Sunspots																										

Oct. 5, 1975 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																										
Bursts	cm																									
	dm																									
	m																									
	Dkm																									
SID																										
X-Rays																										
Ap 25D	Kp	2+				4o				5-																
	sc																									
Aurora	USSR																									
	W.E.	$\phi = 58^\circ$ 2345 (glow) southern Scotland																								
Cosmic Rays																										
Green Corona	E. Limb 7 days earlier: NE-					SE no data 125°					W. Limb 7 days later: NW-					SW-										
Indices	Rz: 10	10cm flux: 75					Flare: 3/23.8					Ca: 6.0					Ip: 0									
Solar Regions	(13883) S47					(13889) N14																				
Sunspots																										

Oct. 7, 1975 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																										
Bursts	cm																									
	dm																									
	m																									
	Dkm																									
SID																										
X-Rays																										
Ap 38D	Kp	5-				5+				5+					4o											
	sc																									
Aurora	USSR																									
	W.E.	$\phi = 58^\circ$ 0430 and 1815-2305 (glow) southern Scotland																								
Cosmic Rays																										
Green Corona	E. Limb 7 days earlier: NE-					SE-					W. Limb 7 days later: NW-					SW-										
Indices	Rz: 9	10cm flux: 74					Flare: 3/23.0					Ca: 4.8					Ip: 0									
Solar Regions	13875 N33					13881 S07																				
Sunspots	19628 N32 (ap)5																									

Oct. 8, 1975 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																										
Bursts	cm																									
	dm																									
	m																									
	Dkm																									
SID																										
X-Rays																										
Ap 45D	Kp	4+				5-				5-					4o					5-						
	sc																									
Aurora	USSR																									
	W.E.	$\phi = 58^\circ$ 0322 (R) southern Scotland; $\phi = 60^\circ$ 2050-2120 (glow visible between cloud) mid-Atlantic; $\phi = 62^\circ$ (overhead and visible to $\phi = 60^\circ$)*																								
Cosmic Rays																										
Green Corona	E. Limb 7 days earlier: NE- no data					SE no data					W. Limb 7 days later: NW-					SW-										
Indices	Rz: 16	10cm flux: 74					Flare: 4/20.4					Ca: 4.1					Ip: 0									
Solar Regions	13884 S25					13886 N53					(13880) N27															
Sunspots	* Aurora WE continued: 2155 (HA) mid-Atlantic; $\phi = 60^\circ$ 2340-0010 (R) eastern Atlantic; $\phi = 60^\circ$ 2345 (glow visible between cloud) central Scotland.																									





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		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 6Q	Kp	3+		2o				1o				2-				0+				0+							2o
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-																										
Indices	Rz: 7 10 cm flux: 76 Flare: 7/23.9 Ca: 3.8 Ip: 0 Ia: 2																										
Solar Regions	(13903) N64																										
Sunspots																											

		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 6	Kp	2o		2-				2-				1+			1o			1-			2-					2+	
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-																										
Indices	Rz: 0 10 cm flux: 75 Flare: 0/23.8 Ca: 3.0 Ip: 0 Ia: 0																										
Solar Regions																											
Sunspots																											

		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 7	Kp	3o		3o				1-				1+			1o			0+			1+					1+	
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona	E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- SW-																										
Indices	Rz: 0 10 cm flux: 75 Flare: 6/20.6 Ca: 2.3 Ip: 0 Ia: 0																										
Solar Regions	13904 N03 (6) 13905 S16 (19633) N04 (Bp)2 (19634) S16 (ap)2 (19635) S15 ap CMP Oct. 22																										
Sunspots																											

		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 4QQ	Kp	2+		2+				2-				1-			1-			0+			0+					0+	
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona	E. Limb 7 days earlier: NE- SE- W. Limb 7 days later: NW- SW-																										
Indices	Rz: 7 10 cm flux: 74 Flare: 0/23.2 Ca: 2.5 Ip: 0 Ia: 0																										
Solar Regions																											
Sunspots																											

Oct. 25, 1975 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 400	Kp	1-		1-		1+		1+		1+		1-		0+		0+									
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE-							SE-							W. Limb 7 days later: NW-							SW-			
Indices	Rz: 0	10 cm flux: 73					Flare: 0/24.0					Ca: 3.0					Ip: 0					Ia: 3			
Solar Regions																									
Sunspots																									

Oct. 26, 1975 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 50	Kp	2o		0+		1o		1o		1-		3-		1o		2o									
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE-							SE							W. Limb 7 days later: NW-							SW-			
Indices	Rz: 0	10 cm flux: 73					Flare: 0/24.0					Ca: 3.5					Ip: 0					Ia: 0			
Solar Regions	(13911) S05							13909 N36																	
Sunspots																									

Oct. 27, 1975 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 50	Kp	3o		3-		1+		0+		0+		1-		0+		0+									
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE-							SE-							W. Limb 7 days later: NW-							SW-			
Indices	Rz: 0	10 cm flux: 73					Flare: 0/24.0					Ca: 5.4					Ip: 0					Ia: 0			
Solar Regions																									
Sunspots																									

Oct. 28, 1975 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 9	Kp	2-		0+		1-		2-		2-		2o		4-		4-									
	sc																								
Aurora	USSR	φ = 63° (overhead, visible to 60° until cloudy) 2030-2100 eastern Atlantic; φ = 60° 2150-2400 (glow) and at 2350(R), then cloudy *																							
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE-							SE							W. Limb 7 days later: NW- moderately br.							SW-			
Indices	Rz: 0	10 cm flux: 73					Flare: 0/24.0					Ca: 6.3					Ip: 0					Ia: 2			
Solar Regions	(13915) N48							13906 N10 (4)																	
Sunspots																									
*Aurora W.E. continued: later central Scotland.																									

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Oct 75

Oct. 29, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24										
FLARES																																				
Bursts	cm																																			
	dm																																			
	m																																			
	Dkm																																			
SID																																				
X-Rays																																				
Ap 12	Kp	3o			4-				4o				1+																							
	sc																																			
Aurora	USSR																																			
	W.E.																																			
Cosmic Rays																																				
Green Corona	E. Limb 7 days earlier: NE-							SE-							W. Limb 7 days later: NW-							SW-														
Indices	Rz: 0	10 cm flux: 72							Flare: 0/24.0							Ca: 3.9							Ip: 0							Ia: 3						
Solar Regions																																				
Sunspots																																				

Oct. 30, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24										
FLARES																																				
Bursts	cm																																			
	dm																																			
	m																																			
	Dkm																																			
SID																																				
X-Rays																																				
Ap 9	Kp	3-				2o					2+																									
	sc																																			
Aurora	USSR																																			
	W.E.																																			
Cosmic Rays																																				
Green Corona	E. Limb 7 days earlier: NE-							SE							W. Limb 7 days later: NW - no data							SW- no data														
Indices	Rz: 0	10 cm flux: 71							Flare: 0/21.9							Ca: 3.9							Ip: 0							Ia: 1						
Solar Regions	(13917) S03							13910 S07																												
Sunspots																																				

Oct. 31, 1975		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24										
FLARES																																				
Bursts	cm																																			
	dm																																			
	m																																			
	Dkm																																			
SID																																				
X-Rays																																				
Ap 19	Kp	3o				4o					5+				3o					1-																
	sc																																			
Aurora	USSR																																			
	W.E.	$\phi = 60^\circ$ 0350-0500 (glow) central Scotland																																		
Cosmic Rays																																				
Green Corona	E. Limb 7 days earlier: NE-							SE-							W. Limb 7 days later: NW-							SW-														
Indices	Rz: 0	10 cm flux: 71							Flare: 0/21.6							Ca: 2.3							Ip: 0							Ia: 2						
Solar Regions	(13912) N26							(13918) N38																												
Sunspots																																				

REGIONAL FLARE INDEX
INCLUDES ALL FLARES

MC MATH PLAGE NO.	LAT	CHP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13975	N33	75/10/07.6	75/10/01	75/10/09	24.64	2.73	15
13990	N 5	75/10/15.1	75/10/12	75/10/20	70.64	7.85	16
13992	S14	75/10/17.8	75/10/13	75/10/20	8.78	1.10	3
13904	N 3	75/10/23.2	75/10/21	75/10/23	12.72	4.24	3

Note:

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 flares during its disk passage.

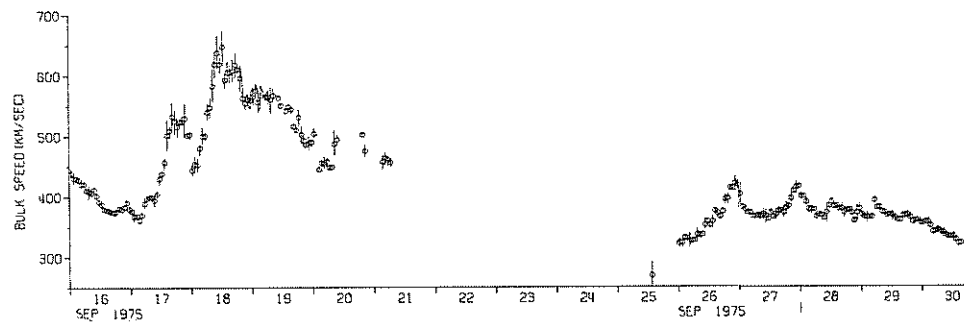
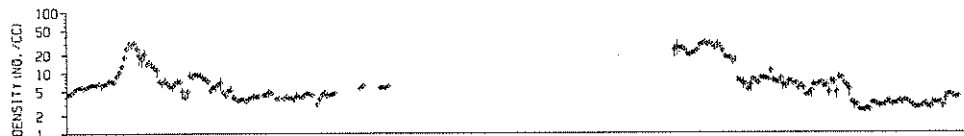
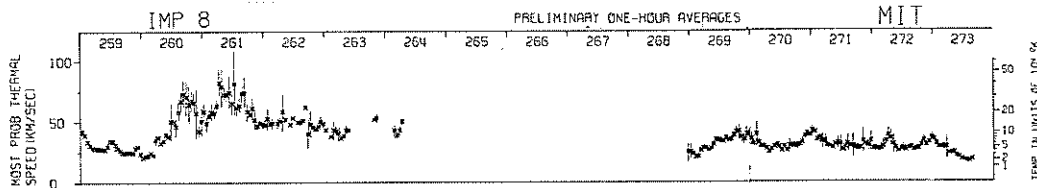
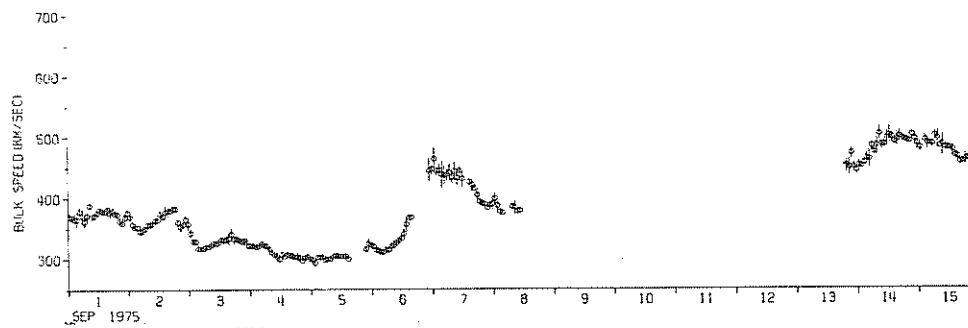
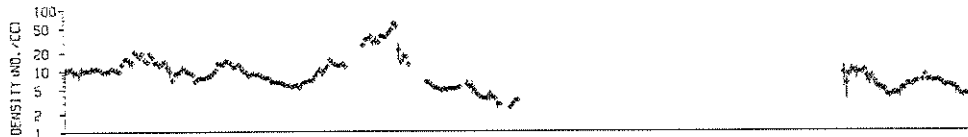
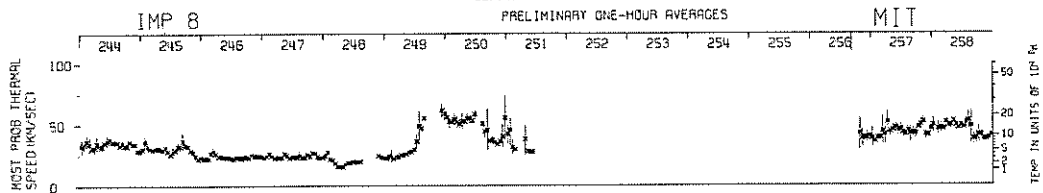
MISCELLANEOUS DATA

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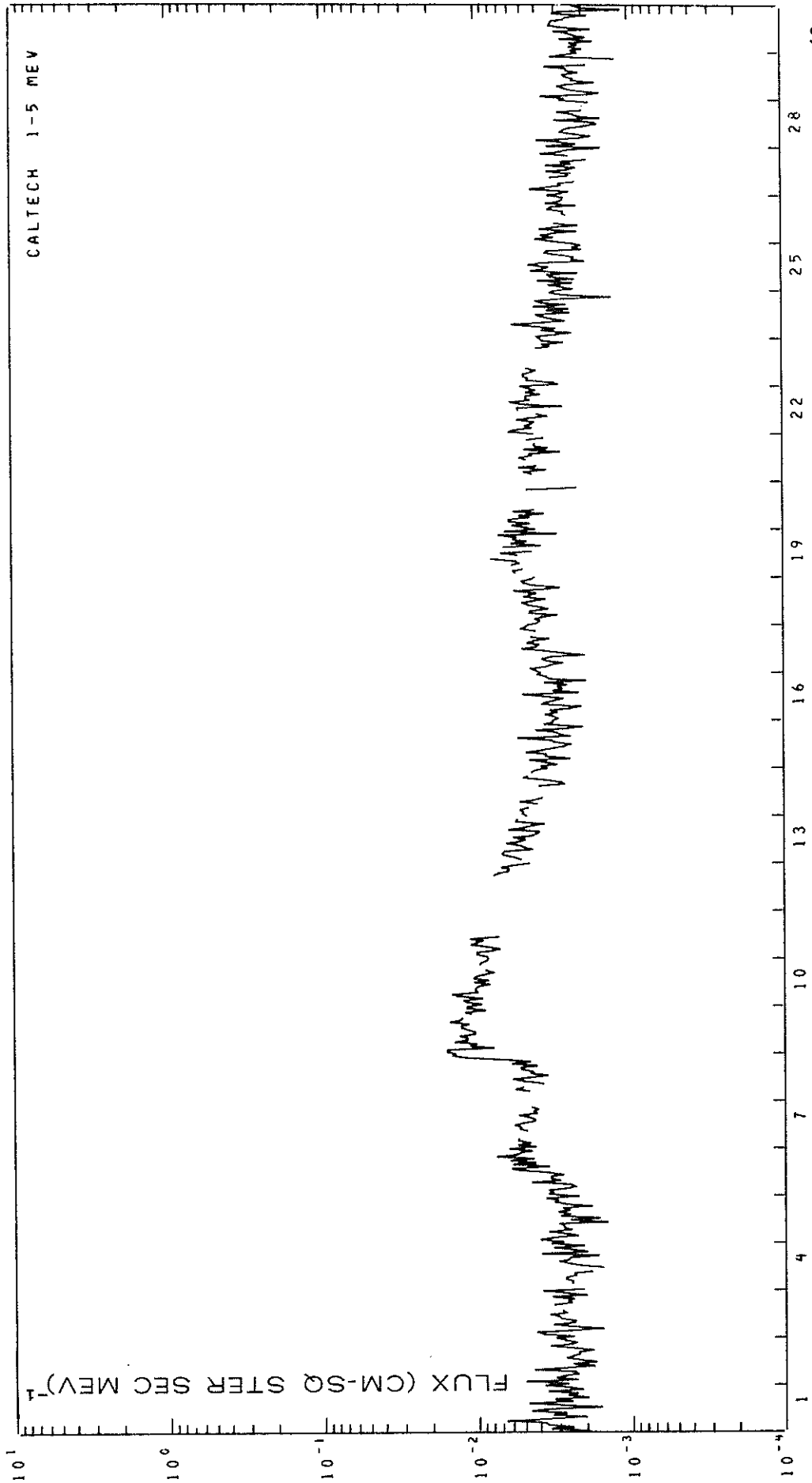
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IMP 7 AND 8 SOLAR WIND PLASMA

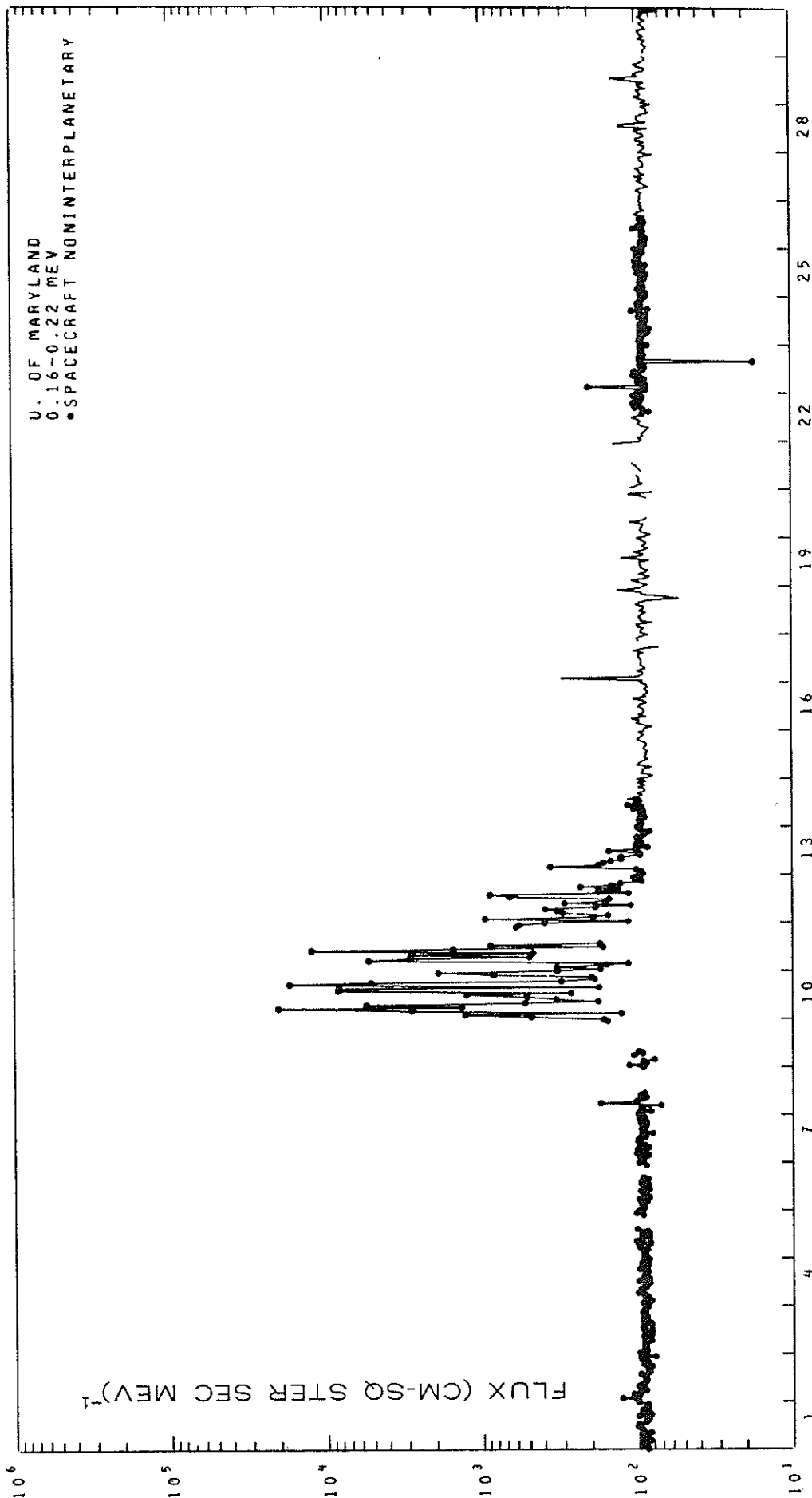
SEPTEMBER 1975



IMP 7 AND 8 ELECTRONS
SEPTEMBER 1975

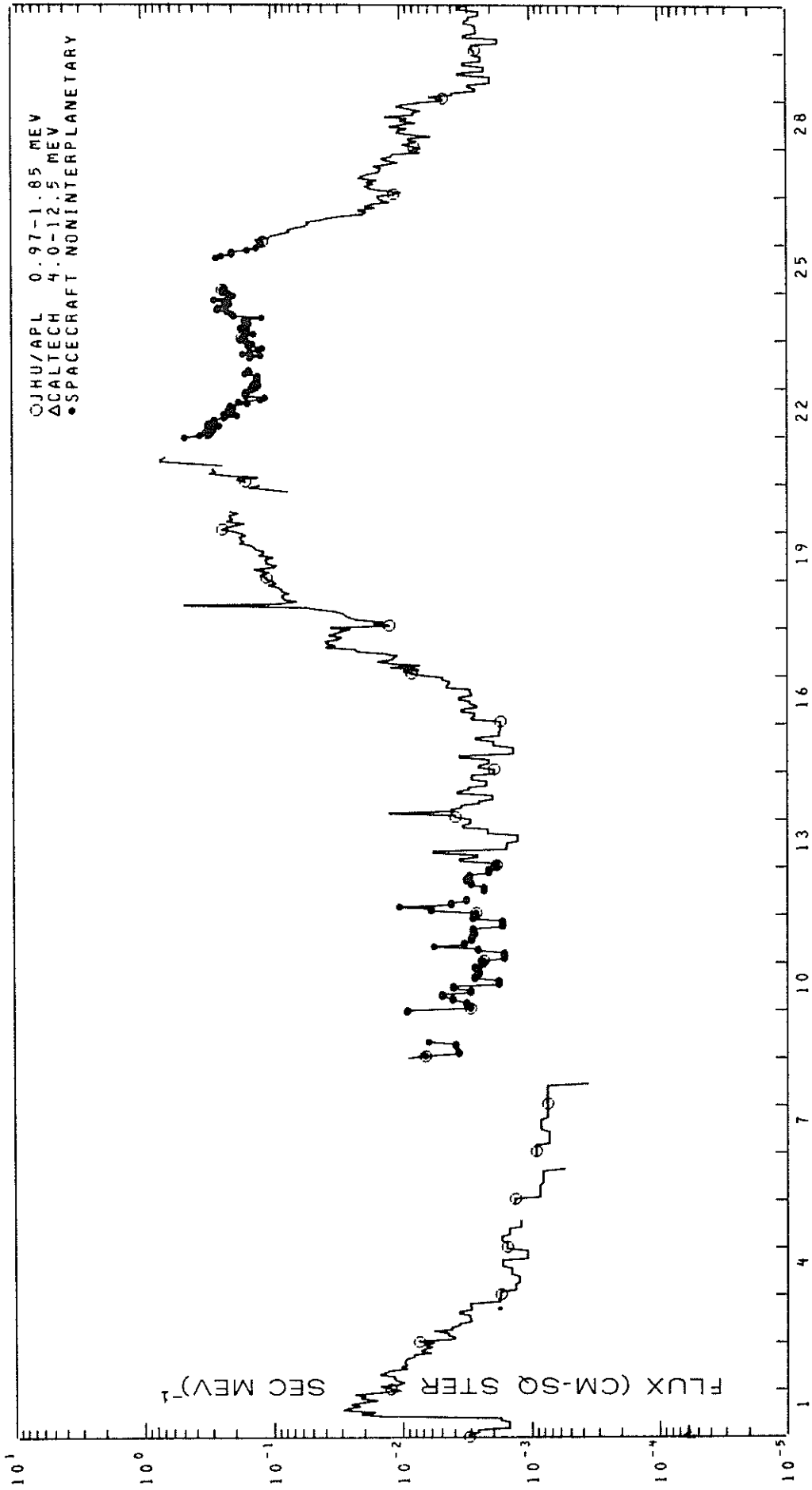


IMP 7 AND 8 LOW ENERGY PROTONS
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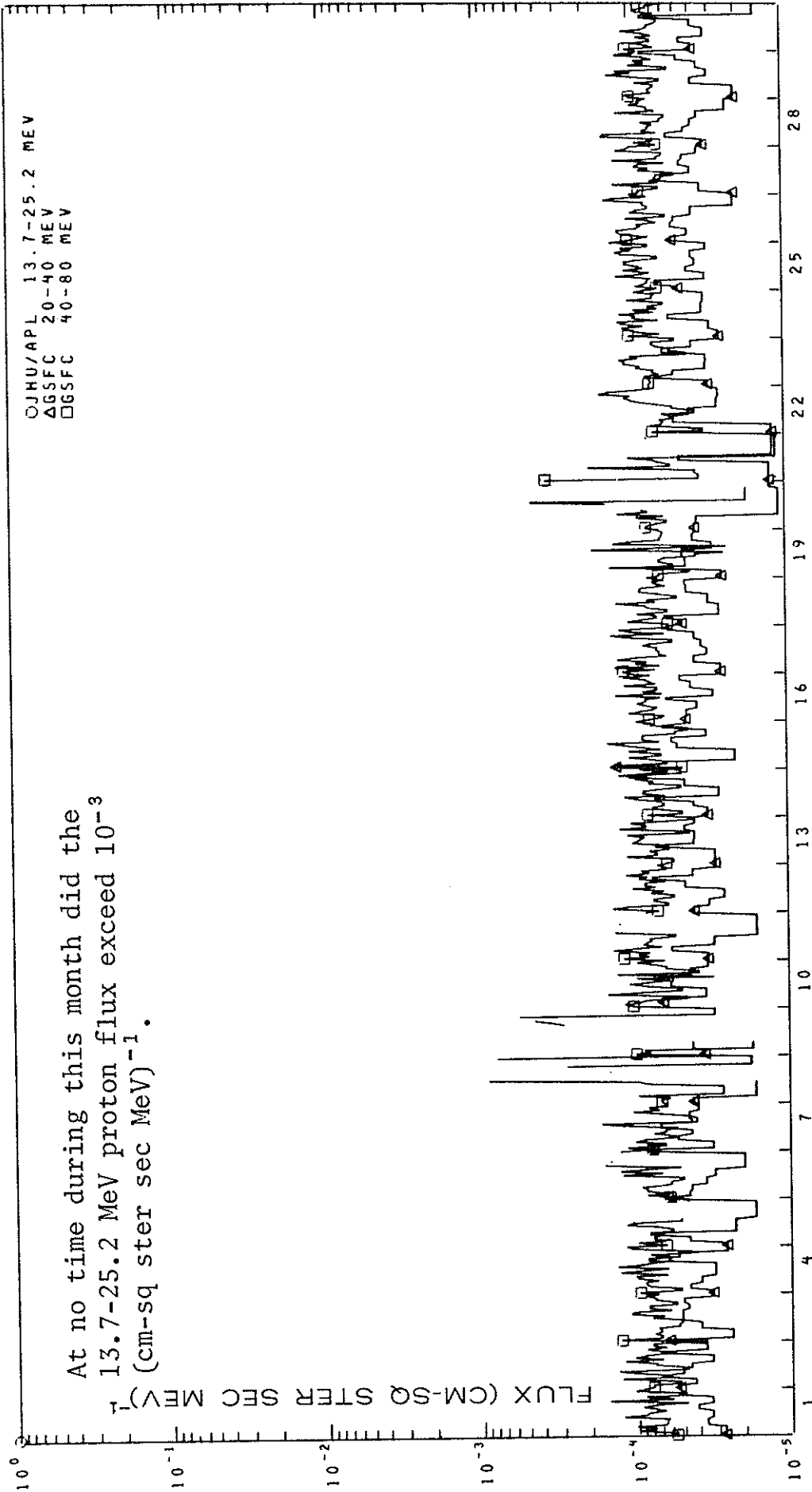
IMP 7 AND 8 INTERMEDIATE ENERGY PROTONS

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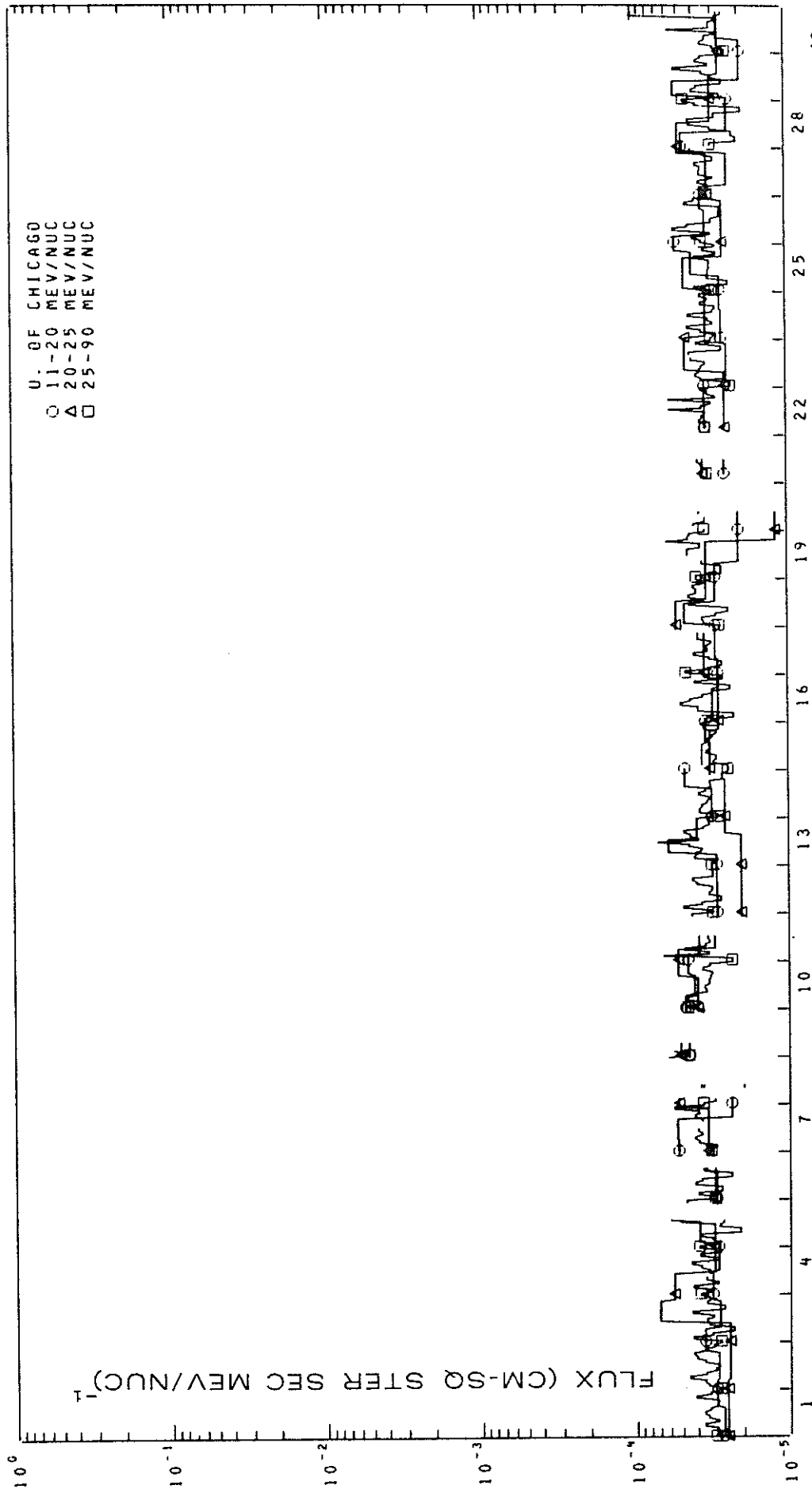


IMP 7 AND 8 HIGH ENERGY PROTONS

SEPTEMBER 1975



IMP 7 AND 8 ALPHA PARTICLES
SEPTEMBER 1975



COSMIC RAY INDICES
(Neutron Monitors)

FEBRUARY 1976

	CALGARY	SULPHUR MT.
FEB 1976	Average cts/hr	Average cts/hr
1	11602.7	8764.7
2	11622.8	8783.0
3	11659.5	8832.1
4	11754.7	8891.4
5	11811.6	8926.2
6	11788.1	8901.4
7	11815.7	8922.4
8	11795.3	8963.4(11)
9	11780.6	8982.2
10	11773.3	8973.3
11	11779.0	8957.8
12	11820.9	8995.0
13	11829.4	8998.3
14	11832.0	9007.3
15	11850.8	9019.3
16	11895.5	9075.8
17	11866.9	9055.2
18	11721.3	8942.0
19	11757.3	8959.8
20	11746.7	8928.6
21	11720.2	8897.7
22	11733.4(22)	8914.7(23)
23	11776.6	8969.7
24	11804.0	9004.2
25	11817.9	8996.8
26	11800.4	8966.0
27	11792.6	8951.4
28	11729.4	8952.4
29	11616.8	8867.7
MEAN	11768.5	8944.8

**SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS
FEBRUARY 1976**

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Misc
Feb 76

FEB 1976	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE	
	START UT	END UT		DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND				
				START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT		
01	1203	2151	SGMR											
02	1202	2153	SGMR											
03	1201	2154	SGMR											
04	1200	2155	SGMR											
05	1158	2157	SGMR											
06	1157	2158	SGMR											
07	1156	2159	SGMR											
08	1155	2201	SGMR											
09	1154	2202	SGMR											
10	1152	2203	SGMR											
11	1151	2205	SGMR											
12	1150	2206	SGMR							1908.3	1908.9	1		V
13	1148	2207	SGMR											
14	1147	2209	SGMR											
15	1146	2210	SGMR											
16	1144	2211	SGMR											
17	1143	2213	SGMR											
18	1141	2214	SGMR											
19	1140	2215	SGMR											
20	1138	2216	SGMR											
21	1137	2218	SGMR											
22	1135	2219	SGMR											
23	1134	2220	SGMR											
24	1132	2222	SGMR											
25	1131	2223	SGMR											
26	1129	2224	SGMR											
27	1128	2225	SGMR											
28	1126	2227	SGMR											
29	1124	2228	SGMR											
01	2225	2400	MANI											
02	0000	0935	MANI											
	2225	2400	MANI											
03	0000	0937	MANI											
	2225	2400	MANI											
04	0000	0937	MANI											
	2225	2400	MANI											
05	0000	0937	MANI											
	2224	2400	MANI											

Addenda: The above reports were inadvertently omitted from the February 1976 Report of Spectral Observations published in April (380 Part I, pp. 102-105).

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Misc
Feb 76

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS
FEBRUARY 1976

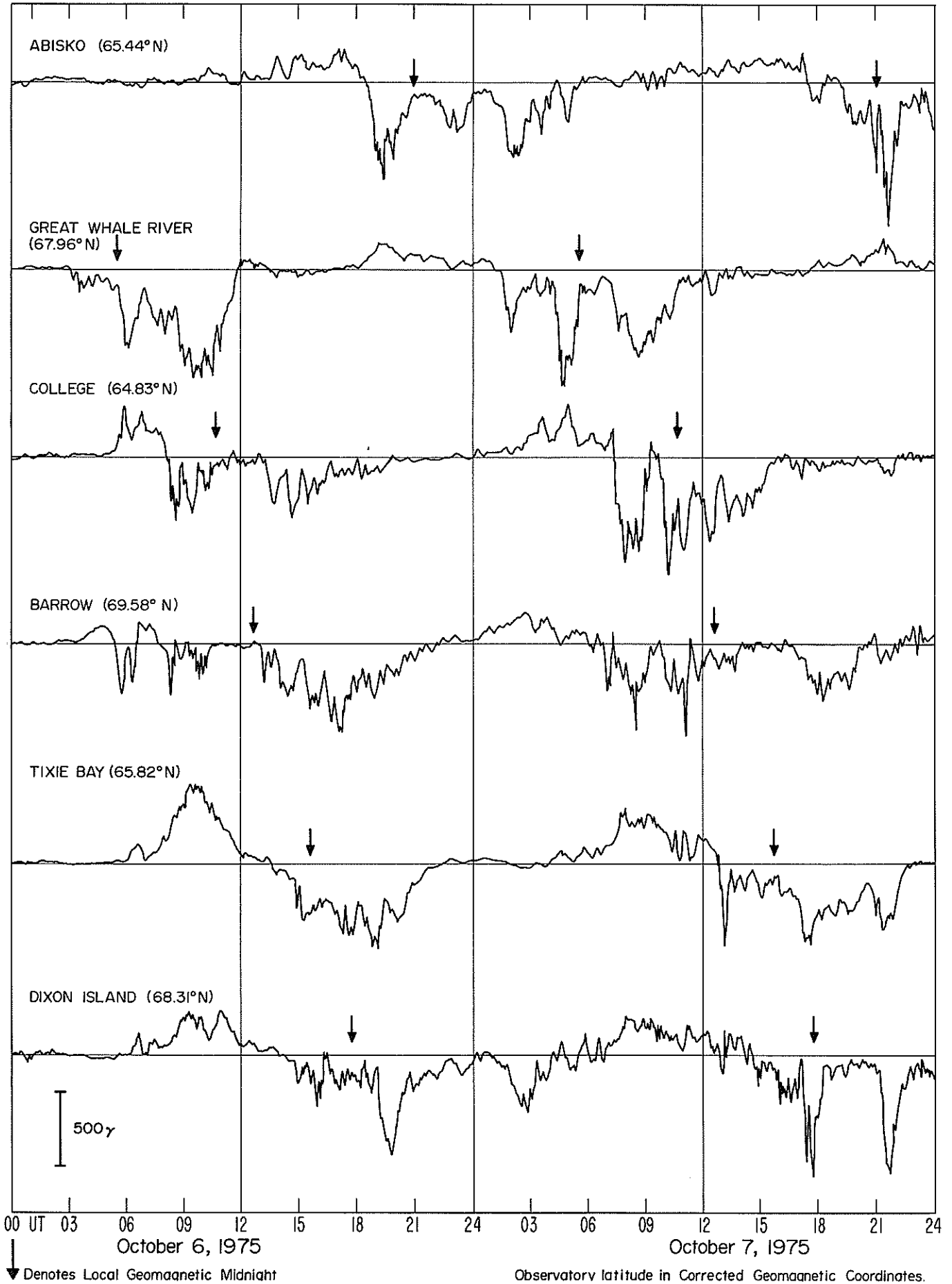
FEB 1976	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT	
08	0000	0938	MANI										
	2224	2400	MANI										
09	0000	0939	MANI										
	2223	2400	MANI										
10	0000	0939	MANI										
	0000	935	MANI										
	2223	2400	MANI										
11	0000	0939	MANI										
	2222	2400	MANI										
12	0000	0940	MANI										
	2222	2400	MANI										
13	0000	0940	MANI										
	2222	2400	MANI										
14	0000	0940	MANI										
	2221	2400	MANI										
15	0000	0940	MANI										
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16	0000	0940	MANI										
	2221	2400	MANI										
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18	0000	0940	MANI										
	2218	2400	MANI										
19	0000	0940	MANI										
	2218	2400	MANI										
20	0000	0940	MANI										
	2218	2400	MANI										
21	0000	0940	MANI										
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22	0000	0940	MANI										
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24	0000	0940	MANI										
	2216	2400	MANI										
25	0000	0940	MANI										
	2215	2400	MANI										
26	0000	0940	MANI										
	2214	2400	MANI										
27	0000	0940	MANI										
	2214	2400	MANI										
28	0000	0940	MANI										
	2214	2400	MANI										
29	0000	0940	MANI										
	2213	2400	MANI										

Addenda: The above reports were inadvertently omitted from the February 1976 Report of Spectral Observations published in April (380 Part I, pp. 102-105).

H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

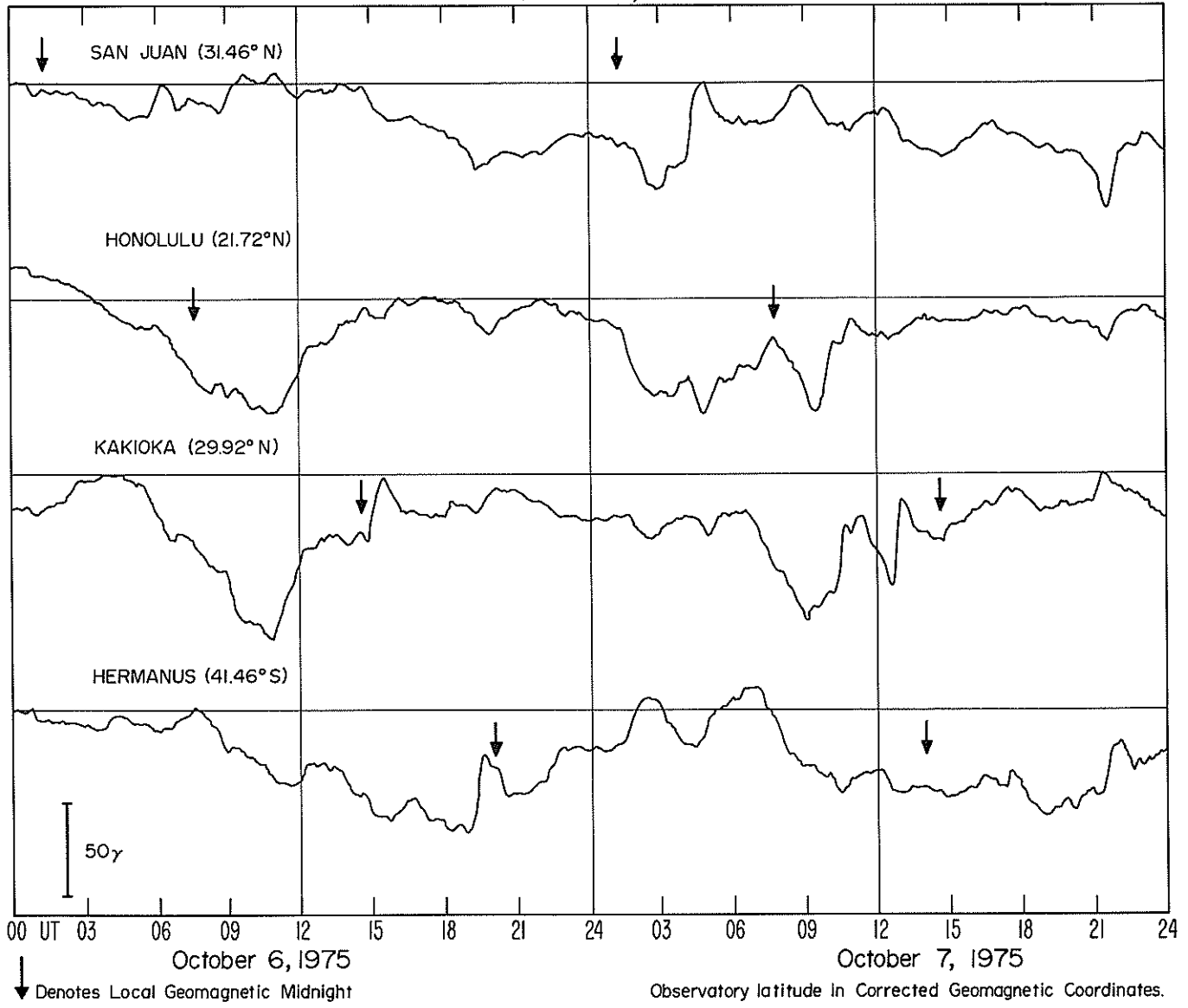
OCTOBER 6 & 7, 1975

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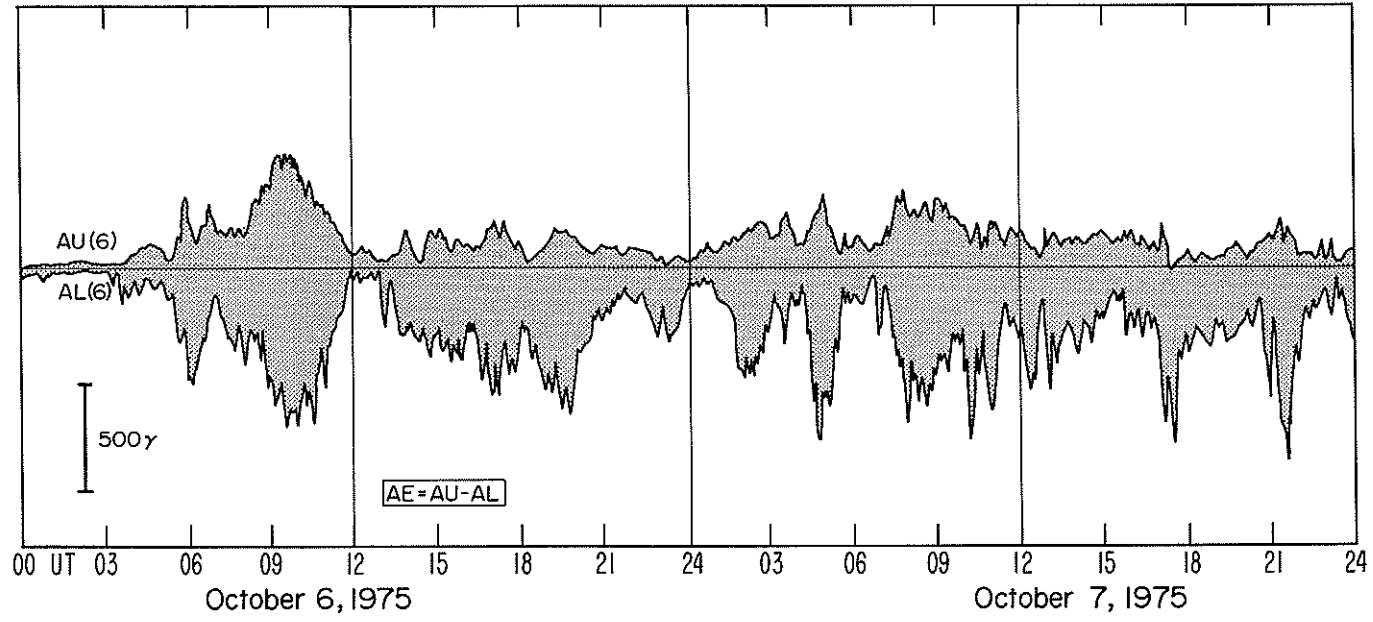


H-COMPONENT MAGNETOGRAMS OF GEOMAGNETIC STORMS

OCTOBER 6 & 7, 1975



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



UAG Series of Reports

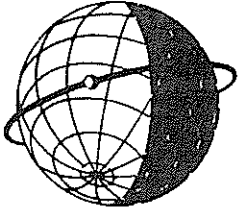
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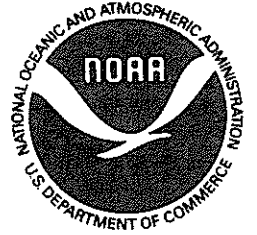
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- UAG-53 "Description and Catalog of Ionospheric F-Region Data, Jicamarca Radar Observatory (November 1966 - April 1969)", by W. L. Clark and T. E. Van Zandt, Aeronomy Laboratory, NOAA, Boulder, Colorado 80302 and J. P. McClure, University of Texas at Dallas, Dallas, Texas 75230, April 1976, 10 pages, price 33 cents.
- UAG-54 "Catalog of Ionosphere Vertical Soundings Data", prepared by Environmental Data Service, NOAA, Boulder, Colorado 80302, April 1976, 130 pages, price \$2.10.
- UAG-55 "Equivalent Ionospheric Current Representations by a New Method, Illustrated for 8-9 November 1969 Magnetic Disturbances", by Y. Kamide, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, Colorado 80302 and Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701, H. W. Kroehl, Data Studies Division, NOAA/EDS/NGSDC, Boulder, Colorado 80302, M. Kanamitsu, Advanced Study Program, National Center for Atmospheric Research, Boulder, Colorado 80303, J. H. Allen, Data Studies Division, NOAA/EDS/NGSDC, Boulder, Colorado 80302, and S.-I. Akasofu, Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701, April 1976, 91 pages, price \$1.60.
- UAG-56 "Iso-intensity Contours of Ground Magnetic H Perturbations for the December 16-18, 1971 Geomagnetic Storm", by Y. Kamide, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, Colorado 80302 and Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701 (currently Guest worker at Data Studies Division, NOAA/EDS/NGSDC, Boulder, Colorado 80302), April 1976, 37 pages, price \$1.39.



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The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."