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NO. 369 MAY 1975

Part II (Comprehensive Reports)

DATA FOR
NOVEMBER 1974
OCTOBER 1974
& MISCELLANEA

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

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SOLAR - GEOPHYSICAL DATA

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No. 369

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

Confirmed

NOVEMBER 1974

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE NOV	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
681 TEHR	01	0624	0644	0635U	S19	H28	.590	13314	27.2	20	1F	4 C		2.46				F 4
GRP61683	01	1715	1724	1718	N11	E83	.991	13324	7.9	9	-N			.41				1 1 1 2
PALE	01	1715	1724	1717	N12	E82	.988	13324	7.9	9	-N	2 V		.40				DE
PALE	01	1718E	1724	1718U	N11	E85	.995	13324	8.1	60	-N	2 C		.41				DE
	01	2003	2008	NO FLARE PATROL														
	01	2057	2108	NO FLARE PATROL														
GRP61685	01	2244	2251	2246	N11	E73	.954	13324	7.4	7	--F			.31				1 1 1 2
PALE	01	2244	2251	2246	N12	E73	.954	13324	7.4	7	-F	2 C		.31				DE
PALE	01	2244	2251	2246	N11	E73	.954	13324	7.4	7	-F	3 V		.30				DE
	02	0341	0350	NO FLARE PATROL														
	02	0445	0454	NO FLARE PATROL														
	02	0459	0500	NO FLARE PATROL														
GRP61686	02	1009	1023	1014	S09	H33	.580	13310	30.9	14	--F			.37				2 2 2 3
ATHN	02	1007	1019	1010	S08	H35	.602	13310	27.8	12	-F	1 C	1010	.17	.18			DE
ATHN	02	1007	1019	1010	S08	H35	.602	13310	27.8	12	-F	3 V		.16				DE
ATHN	02	1008	1021	1013	S10	H32	.573	13310	28.0	13	-F	3 C		.33				DE
HTRP	02	1010	1025	1015	S09	H32	.567	13310	28.0	15	-F	C	1015	.41	.50			
GRP61687	02	1010	1021	1013	N06	E70	.938	13324	7.7	11	--F			.42				2 2 2 3
HTRP	02	1007	1021	1011	N04	E71	.944	13324	7.7	14	-F	C	1011	.31				
ATHN	02	1013	1020	1015	N08	E70	.937	13324	7.7	7	-N	1 C	1015	.52	.99			DE
ATHN	02	1013	1025	1017	N08	E68	.925	13324	7.5	12	-N	3 C		.50				DE
ATHN	02	1013	1020	1015	N08	E70	.937	13324	7.7	7	-N	3 V		.48				DE
688 HTRP	02	1058	1101	1058	N15	E67	.918	13324	7.5	3	--N	C	1058	.21	.40			2
689 HTRP	02	1113	1132	1114	S23	E35	.691	13318	5.1	19	--F	C	1114	.21	.30			2
GRP61692	02	1455	1515	1506	N12	E65	.904	13324	7.5	20	--F			.31				3 3 3 6
HTRP	02	1450	1514	1504	N14	E63	.889	13324	7.3	24	-F	C	1504	.31	.50			
MCMA	02	1455	1520	1506	N13	E64	.897	13324	7.4	25	-F	C	1506	.31	.70			0
HUAN	02	1459	1512	1507	N14	E64	.897	13324	7.4	13	-F	1 C	1507	.31	.68			
HTRP	02	1520	1522	1521	N03	E70	.939	13324	7.9	2	-F	C	1521	.10	.20			
693 HUAN	02	1612	1616	1613	N10	E70	.937	13324	7.9	4	--F	1 C	1613	.46				2
694 HUAN	02	1623	1643	1634	N05	E68	.926	13324	7.8	20	--F	1 C	1634	.31	.68			2
696 HUAN	02	1755	1800	1758	N19	E68	.926	13324	7.8	5	--F	1 C						2
	02	2001	2009	NO FLARE PATROL														
GRP61697	02	2043	2057	2044	N09	E63	.889	13324	7.8	14	--N			.30				1 1 1 2
PALE	02	2043	2057D	2044	N08	E65	.904	13324	7.7	140	-N	2 V		.30				DE
PALE	02	2043	2056	2043	N10	E61	.872	13324	7.4	13	-N	2 C		.19				DE
698 PALE	02	2219	2233	2221	N18	E65	.906	13324	7.8	14	--F	2 C		.36				DE 2
	02	2346	2354	NO FLARE PATROL														
	02	2356	0000	NO FLARE PATROL														
GRP61699	03	0101	0108	0104	N09	E57	.837	13324	7.3	7	--F			.63				1 1 1 2
PALE	03	0101	0108D	0104	N10	E59	.855	13324	7.5	70	-F	3 C		.63				F
PALE	03	0103E	0108D	0106	N08	E55	.817	13324	7.2	50	-F	3 V		.60				F
GRP61700	03	0121	0133	0122	N10	E56	.827	13324	7.3	12	--F			.55				1 1 1 2
PALE	03	0121E	0129	0121U	N11	E54	.808	13324	7.1	80	-F	3 V		.40				DE
PALE	03	0122E	0133	0122U	N10	E58	.846	13324	7.4	110	-F	3 C		.55				DE
	03	0444	0453	NO FLARE PATROL														
GRP61703	03	0714	0723	0717	N12	E64	.897	13324	8.1	9	--F			.62				2 2 2 6
ATHN	03	0714	0720	0717	N10	E65	.904	13324	8.2	6	-N	1 C	0717	.34				
ATHN	03	0714E	0720	0717	N10	E65	.904	13324	8.2	60	-N	4 V		.33				DE
ABST	03	0715E	0725D	0716	N13	E63	.889	13324	8.0	100	-F	C	0716	.90	1.80			DJK

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H α SOLAR FLARES

Confirmed

NOVEMBER 1974

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPROVEMENT	OBS. COND.	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP61705	03	0839	0907	0841	N11	E59	.855	13324	7.8	28	-N			.66				3 3 3 7
HTPR	03	0837	0848	0840	N12	E62	.881	13324	8.0	11	-N		0840	.21	.40			
ARCE	03	0840	0910	0840	N12	E61	.873	13324	7.9	30	-N		0840	.79	1.60			
TEHR	03	0841E	0850D	0844U	N08	E60	.864	13324	7.9	90	-F	3		.99				F
HTPR	03	0851	0904	0855	N12	E61	.873	13324	7.9	13	-F		0855	.21	.40			
HTPR	03	0904	0925	0917	N14	E54	.810	13324	7.4	21	-F		0917	.10	.20			
708 HTPR	03	1030	1036	1031	N08	E64	.896	13324	8.2	6	--F		1031	.21	.40			5
GRP61709	03	1210	1220	1213	N13	E56	.829	13324	7.7	10	--N			.46				4 4 4 4
HTPR	03	1205	1217	1214	N13	E53	.799	13324	7.5	12	-N		1214	.31	.50			
ATHN	03	1210	1221	1212	N12	E58	.847	13324	7.9	11	-N	1	1212	.68	.97			
HUAN	03	1213	1219	1213	N13	E56	.829	13324	7.7	6	-F	1	1213	.36	.65			E
TEHR	03	1213E	1222	1214U	N14	E57	.839	13324	7.8	90	-N	4		.50				OE
	03	1605	1608	NO FLARE PATROL														
	03	1633	1636	NO FLARE PATROL														
GRP61711	03	1742	1750	1745	N14	E49	.758	13324	7.4	8	-B			.70				3 3 3 3
RAMY	03	1741	1750	1745	N15	E52	.791	13324	7.6	9	-B	4		.80				OE
RAMY	03	1741	1747	1745	N16	E49	.761	13324	7.4	6	-B	3		.56				OE H
PALE	03	1741	1754	1744	N13	E48	.745	13324	7.3	13	-B	3		.90				OE H
HUAN	03	1742E	1750	1745	N14	E48	.747	13324	7.3	80	-N	1	1745	.41	.62			C
PALE	03	1742	1749	1744	N14	E48	.747	13324	7.3	7	-B	3		.81				OE H
GRP61712	03	2038	2055	2047	N09	E55	.817	13324	8.0	17	--F			.60				2 2 2 3
PALE	03	2031	2055	2045	N08	E55	.817	13324	8.0	24	-F	3		.55				OE
PALE	03	2031	2053	2044U	N07	E54	.807	13324	7.9	22	-F	3		.40				OE
RAMY	03	2044	2055	2048U	N10	E55	.817	13324	8.0	11	-F	2		.65				F
	03	2228	2233	NO FLARE PATROL														
GRP61713	04	0540	0552	0543	N07	E51	.775	13324	8.1	12	--F			.17				1 1 1 3
ATHN	04	0540	0552	0543	N09	E52	.786	13324	8.1	12	-F	3		.17				OE
ATHN	04	0543	0548	0544	N07	E51	.775	13324	8.1	5	-F	1	0544	.17	.20			
ATHN	04	0543	0548	0544	N07	E52	.786	13324	8.1	5	-F	4		.16				OE
GRP61714	04	0707	0723	0709	N14	E39	.639	13324	7.2	16	-N			.81				2 2 2 6
ATHN	04	0700	0720	0710	N14	E40	.651	13324	7.3	20	-N	3		.50				F
ATHN	04	0705	0715	0709	N11	E40	.646	13324	7.3	10	-N	1	0709	.52	.55			
ATHN	04	0705	0715	0709	N11	E40	.646	13324	7.3	10	-N	4		.48				F
BUCA	04	0708	0725		N16	E38	.632	13324	7.1	17	-N		0710	1.10	1.40			
GRP61715	04	0743	0851	0759	N13	E39	.636	13324	7.2	68	1N			1.57				5 3 3 5
TACH	04	0740	0755	0746	N14	E39	.639	13324	7.2	15	1N		0746	1.83	2.39			66 EU
ATHN	04	0741	0850	0746	N11	E39	.633	13324	7.2	69	-B	1	0746	.68	1.26			
ATHN	04	0741	0850	0746	N11	E39	.633	13324	7.2	69	-B	4		.66				U F
BUCA	04	0747	0851		N14	E40	.651	13324	7.3	64	1N		0752	2.21	2.90			E
CATA	04	0755E	0800D	0755	N13	E40	.649	13324	7.3	50	1B	3	0755	2.90	3.81			(251)
TEHR	04	0828E	0837D	0830U	N12	E46	.721	13324	7.8	90	1N	1		2.32				U
TEHR	04	0828E	0837D	0830U	N12	E46	.721	13324	7.8	90	1N	1		2.25				U
GRP61716	04	0904	0941	0917	N14	E41	.664	13324	7.5	37	1N			.48				3 3 2 3
KHAR	04	0900E	1115D		N13	E41	.662	13324	7.5	1350	2N							E
ATHN	04	0907	0931	0917	N14	E38	.626	13324	7.2	24	-F	3		.33				OE
HTPR	04	0918E	0938		N13	E41	.662	13324	7.5	200	-N		0919	.62	.80			
HTPR	04	0944	0954	0948	N15	E49	.759	13324	8.1	10	-F		0948	.31	.40			
GRP61717	04	1002	1031	1010	N13	E38	.623	13324	7.3	29	--F			.59				2 2 2 5
HTPR	04	1002	1030	1005	N12	E38	.621	13324	7.3	28	-F		1005	.10	.10			
ABST	04	1013E	1032D	1015	N13	E37	.610	13324	7.2	190	-F		1015	1.08	1.40			D
718 ATHN	04	1037	1052	1042	S14	H76	.976	13314	26.7	15	--F	3		.33				F 3
GRP61719	04	1057	1118	1107	N14	E40	.651	13324	7.5	21	--N			.56				4 4 4 5
ATHN	04	1045	1101	1048	N16	E48	.750	13324	8.0	16	-F	3		.33				F
HTPR	04	1057	1125	1106	N14	E38	.626	13324	7.3	28	-N		1106	.21	.20			
ATHN	04	1057	1116	1101	N12	E38	.621	13324	7.3	19	-F	1	1101	.52	.55			
ATHN	04	1057	1114	1100	N14	E37	.613	13324	7.2	17	-F	3		.33				OE
CATA	04	1105E	1115D	1115	N13	E37	.610	13324	7.2	100	-B	3	1115	.87	1.09			(234)
TEHR	04	1105E	1107D	1106U	N15	E43	.691	13324	7.7	20	-B	1		.62				OE
TEHR	04	1105E	1107D	1106U	N15	E43	.691	13324	7.7	20	-B	1		.60				OE
720 HTPR	04	1346	1355	1350	N12	E37	.608	13324	7.3	9	--F		1350	.10	.10			2
721 HTPR	04	1413	1432	1419	S10	H61	.886	13310	28.0	19	--F		1419	.10	.20			1
722 HTPR	04	1519	1524	1519	S10	H61	.886	13310	28.1	5	--F		1519	.10	.20			2

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	DATE NOV	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
723 BOUL	04	1534	1548	1536	N10	E34	.563 13324	7.2	14	--F	C	1537	.54	.65			2
	04	1553	1637	NO FLARE PATROL													
GRP61724	04	1701	1734	1708	N12	E45	.709 13324	8.1	33	-F			1.71				3 2 2 3
BOUL	04	1700	1740	1709	N12	E44	.697 13324	8.0	40	1N	C	1709	1.82	2.54			
PALE	04	1702	1728	1707	N11	E45	.708 13324	8.1	26	-F	2 V		1.60				F
PALE	04	1702	1728	1708	N12	E45	.709 13324	8.1	26	-F	3 C		1.35				F
HUAN	04	1717E	17210		N13	E45	.711 13324	8.1	40	-F	1 P						E
GRP61725	04	2042	2046	2042	N13	E38	.623 13324	7.7	4	--F			.23				1 1 1 2
PALE	04	2042E	2046	2042U	N13	E38	.623 13324	7.7	40	-F	3 C		.23				DE
	04	2042E	2046	2042U	N13	E39	.636 13324	7.8	40	-F	3 V		.20				DE
GRP61726	04	2049	2127	2054	N14	E34	.573 13324	7.4	38	--F			1.12				2 2 2 3
BOUL	04	2047	2127	2056	N13	E32	.542 13324	7.3	40	-N	C	2052	1.61	1.89			
PALE	04	2050	20520	2052U	N14	E35	.586 13324	7.5	20	-F	3 C		.62				U
PALE	04	2050	20520	2052U	N14	E35	.586 13324	7.5	20	-F	3 V		.50				U
	04	2245	2248	NO FLARE PATROL													
728 PALE	05	0038	0059	0041	N07	E41	.655 13324	8.1	21	--F	3 C		.46				DE 3
729 ABST	05	0815	09040	0859	S12	W75	.971 13310	27.7	490	1N	P	0859	.99				FJK 3
	05	0905	0915	NO FLARE PATROL													
730 CATA	05	0915E	10000	0950	S11	W73	.962 13310	27.9	450	1B	3	0950	.87			(224)	1
	05	1000	1019	NO FLARE PATROL													
GRP61731	05	1122	1144	1130	N14	E28	.490 13324	7.6	22	-B			1.18				2 2 2 2
HTPR	05	1119	1143	1125	N14	E28	.490 13324	7.6	24	-N	C	1125	.62	.70			E
CATA	05	1125	1145	1135	N13	E28	.486 13324	7.6	20	-B	3	1135	1.73	1.99		(240)	
732 HTPR	05	1225	1245	1240	S14	W78	.983 13310	27.7	20	--F	C	1240	.41				E 2
733 HTPR	05	1320	1355	1326	S14	W78	.983 13310	27.7	35	--F	C	1326	.41				E 3
734 CATA	05	1335	1355	1340	N10	E90	1.000 13329	12.3	20	1B	3	1340	.87			(204)	3
GRP61735	05	1529	1601	1538	S12	W78	.982 13310	30.8	32	1N			.76				3 3 3 3
HTPR	05	1528	15500	1535	S12	W80	.988 13310	27.6	220	-B	C	1535	.52				
PALE	05	1530	1544	1536	S12	W76	.975 13310	27.9	14	1N	3 V		.26				DE
BOUL	05	1539E	1630	1544	S13	W77	.979 13310	27.9	510	1N	C	1544	1.50	4.74			
736 BOUL	05	1640	17000	1649	N08	E31	.516 13324	8.0	200	1N	C	1649	1.93	2.24			2
	05	1718	1732	NO FLARE PATROL													
	05	1735	1743	NO FLARE PATROL													
737 BOUL	05	1910	1923	1913	S11	W78	.982 13310	27.9	13	--N	C	1913	.21	.68			3
738 BOUL	05	1951	2042	2001	S10	W81	.990 13310	27.8	51	--F	C	2001	.32	1.09			1
739 PALE	05	2154	22080	2157	S13	W82	.993 13310	27.8	140	--F	2 C		.27				DE 3
GRP61740	05	2227	2238	2231	S11	W86	.998 13310	30.5	11	--F			.24				2 2 2 3
BOUL	05	2227	2237	2230	S11	W89	1.000 13310	27.3	10	-F	C	2230	.21	.85			
PALE	05	2231E	22390	2231U	S10	W82	.992 13310	27.8	80	-F	2 C		.27				DE
PALE	05	2231E	2238	2231U	S10	W82	.992 13310	27.8	70	-F	3 V		.20				DE
GRP61741	05	2352	0001	2353	S12	W82	.993 13310	30.8	9	--F	2 C		.31				1 1 1 2
PALE	05	2352	0001	2353	S12	W82	.993 13310	27.8	9	-F	2 C		.31				DE
PALE	05	2352	0001	2353	S13	W82	.993 13310	27.8	9	-F	3 V		.38				DE
742 PALE	06	0012	0022	0018	S13	W83	.995 13310	27.8	10	--F	3 V		.70				DE 2
743 PALE	06	0213	02200	02200	S12	W85	.997 13310	27.7	70	1B	1 V		.83				DE 2
GRP61744	06	0310	0332	0318	S13	W86	.999 13310	30.7	22	1B			.76				3 3 3 3
CULG	06	0306	0326	0314	S16	W90	1.000 13310	27.4	20	1B	C	0314	.46				
PALE	06	0309	03420	0335	S12	W85	.997 13310	27.8	330	1B	1 C		.72				DE
PALE	06	0313	03420	0320	S12	W85	.997 13310	27.8	290	1B	1 V		.80				DE
TEHR	06	0319E	03290	0320U	S11	W84	.996 13310	27.8	100	1B	2 C		1.03				DE
TEHR	06	0319E	03290	0320U	S11	W84	.996 13310	27.8	100	1B	2 V		1.00				DE

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	DATE NOV	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
GRP61747	06	0740	0743	0741	S09	H88	1.000	13310	30.7	3	-N			.31				1 1 1 4
TEHR	06	0740E	07430	0741U	S09	H88	1.000	13310	27.7	30	-N	2 C		.31				DE
TEHR	06	0740E	07430	0741U	S09	H88	1.000	13310	27.7	30	-N	2 V		.30				DE
GRP51749	06	1345	1437	1403	N15	E14	.304	13324	7.6	52	18			2.52				2 2 2 3
HTPR	06	1345	1425	1400	N14	E14	.294	13324	7.6	40	18	C	1400	2.06	2.10			EIU
RAMY	06	1404E	1449	1405U	N15	E14	.304	13324	7.6	450	18	3 C		2.97				U
61749	06	1415	1442	1421	N15	E12	.279	13324	7.5	27	*1N			3.75				2 2 2 5
LOCA	06	1415E	1440	1415	N15	E11	.268	13324	7.4	250	2N	P	1415	5.47	5.70			
BOUL	06	1422E	14430	1427U	N15	E12	.279	13324	7.5	210	1N	C	1427	2.03	2.08			
GRP61751	06	2158	2209	2200	N08	E12	.219	13324	7.8	11	--F			1.00				1 1 1 2
PALE	06	2158	2209	2200	N08	E11	.203	13324	7.7	11	-F	2 V		1.00				DE
PALE	06	2158	2209	2200	N08	E13	.235	13324	7.9	11	-F	2 C		.77				DE
	06	2250	2255		NO FLARE PATROL													
	07	0424	0439		NO FLARE PATROL													
	07	0514	0534		NO FLARE PATROL													
GRP51752	07	1500	1520	1505	N10	H06	.150	13324	7.2	20	--F			.27				2 2 2 4
HTPR	07	1459	15010		N10	H09	.139	13324	7.2	20	-F	C	1501	.21	.20			
BOUL	07	1500	1520	1505	N09	H06	.138	13324	7.2	20	-F	C	1505	.32	.32			
GRP61753	07	1523	1556	1530	N14	H02	.181	13324	7.5	33	--N			.68				4 3 3 4
BOUL	07	1522	1556	1530	N14	H01	.178	13324	7.6	34	-N	C	1530	.86	.86			
MCMA	07	1523	1600	1529	N14	H02	.181	13324	7.5	37	-N	C	1529	.83	.80			EV
HUAN	07	1523	1552	1530	N14	H02	.181	13324	7.5	29	-N	2 C	1530	.36	.37			E
RAMY	07	1543E	1551	1545	N14	H01	.178	13324	7.6	80	-F	3 C		.51				OE
754 BOUL	07	1935	1947	1938	N12	H05	.167	13324	7.4	12	--F	C	1938	.32	.32			2
GRP61755	07	2102	2115	2107	N12	H05	.167	13324	7.5	13	--F			.33				3 3 3 4
BOUL	07	2055	2115	2107	N12	H04	.159	13324	7.6	20	-F	C	2107	.43	.43			
RAMY	07	2104	21080	2106U	N12	H08	.198	13324	7.3	40	-F	2 C		.24				DE
PALE	07	2106	2114	2109	N11	H03	.136	13324	7.7	8	-F	2 C		.31				DE
PALE	07	2106	2114	2109	N11	H03	.136	13324	7.7	8	-F	2 V		.30				DE
GRP61756	07	2213	2227	2217	N13	H03	.168	13324	7.7	14	--F			.59				2 2 2 3
PALE	07	2213	2224	2216	N12	H05	.167	13324	7.6	11	-F	2 C		.63				F
BOUL	07	2213	2230	2217	N13	E00	.160	13324	7.9	17	-F	C	2217	.54	.54			
GRP61758	08	0037	0048	0043	N12	H10	.224	13324	7.3	11	--F			.27				1 1 1 3
PALE	08	0037	0048	0043	N12	H10	.224	13324	7.3	11	-F	2 C		.27				DE
PALE	08	0038E	0048	0041U	N12	H10	.224	13324	7.3	100	-F	2 V		.25				OE
	08	0318	0333		NO FLARE PATROL													
GRP51759	08	1022	1034	1026	N15	H12	.282	13324	7.5	12	--F			.26				2 2 2 4
HTPR	08	1020	1035	1026	N14	H13	.284	13324	7.5	15	-F	C	1026	.10	.10			
MONI	08	1024	1033	1026	N15	H11	.270	13324	7.6	9	-F	C	1026	.41				E
	08	2207	2219		NO FLARE PATROL													
760 HUAN	10	1437	1449	1439	N06	H38	.615	13324	7.8	12	--F	1 C	1439	.26	.33			D 2
761 HUAN	10	1539	1638	1546	N05	H40	.642	13324	7.7	59	1N	2 C	1546	1.50	1.99			E 3
	11	0339	0340		NO FLARE PATROL													
	11	0429	0441		NO FLARE PATROL													
	11	0445	0500		NO FLARE PATROL													
	11	0548	0624		NO FLARE PATROL													
	11	0628	0635		NO FLARE PATROL													
	11	0650	0705		NO FLARE PATROL													
GRP61763	11	0827	0845	0834	N08	E04	.107	13329	11.7	18	--F			.47				3 3 3 4
HTPR	11	0824	0853	0831	N08	E04	.107	13329	11.6	29	-F	C	0831	.41	.40			
ARGE	11	0830	0840		N08	E04	.107	13329	11.7	10	-F	C	0837	.67	.70			
ATHN	11	0833	0843	0836	N08	E06	.132	13329	11.8	10	-F	1 C	0836	.34	.33			
ATHN	11	0833E	0843	0836	N08	E06	.132	13329	11.8	100	-F	3 V		.32				DE
ATHN	11	0836E	08430	0836U	N09	E04	.121	13329	11.7	70	-F	3 C		.33				DE

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	DATE NOV	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
764 HTPR	11	0851	0855	0851	N04	W18	.309	13333	10.0	4	--F	C	0851	.21	.20		E 2	
GRP51765 HUAN BOUL	11	1624	1633	1627	N04	W22	.374	13333	10.0	9	--N			.43			2 2 2 2	
	11	1624	1633	1626	N04	W23	.390	13333	10.0	9	-N	1 C	1626	.31	.33			
	11	1624	1633	1628	N04	W21	.358	13333	10.1	9	-N	C	1628	.54	.57			
	12	1500	1610		NO FLARE PATROL													
	12	2009	2023		NO FLARE PATROL													
	12	2041	2058		NO FLARE PATROL													
	12	2102	2118		NO FLARE PATROL													
	12	2131	2148		NO FLARE PATROL													
	12	2152	2210		NO FLARE PATROL													
	13	0338	0440		NO FLARE PATROL													
	13	1527	1530		NO FLARE PATROL													
	13	1728	1735		NO FLARE PATROL													
	13	1741	1758		NO FLARE PATROL													
	13	2108	2110		NO FLARE PATROL													
	14	2137	2142		NO FLARE PATROL													
14	2214	2242		NO FLARE PATROL														
15	0450	0500		NO FLARE PATROL														
15	0800	0807		NO FLARE PATROL														
GRP51767 RAMY ATHN ATHN HUAN	15	1415	1429	1420	N11	E79	.980	13338	21.5	14	-N			.37			3 3 3 4	
	15	1415E	1429	1418U	N11	E77	.973	13338	21.4	140	-N	3 C		.28			DE	
	15	1415	1430	1417	N10	E80	.984	13338	21.6	15	-N	1 C	1417	.52	1.46			
	15	1415	1430	1417	N10	E80	.984	13338	21.6	15	-N	3 C		.50			DE	
	15	1416	1428	1426	N11	E80	.984	13338	21.6	12	-N	1 C	1426	.31				
	15	1624	1627		NO FLARE PATROL													
	15	2026	2033		NO FLARE PATROL													
	15	2235	2241		NO FLARE PATROL													
	16	0411	0412		NO FLARE PATROL													
	16	1154	1216	1159	N37	W78	.981	13339	10.6	22	--F			.30			2 2 2 5	
GRP51770 RAMY MONT	16	1153	1211	1158	N37	W77	.978	13339	10.7	18	--F	4 C		.19			DE H	
	16	1155	12200	1200	N37	W78	.981	13339	10.6	250	-F	C	1200	.41			EHK	
	16	2000	2008	2000	N37	W77	.978	13339	11.1	8	--F			.41			1 1 1 2	
GRP51771 PALE PALE	16	2000E	2008	2000U	N37	W79	.983	13339	10.9	80	-F	3 C		.41			DE	
	16	2000E	2008	2001U	N37	W75	.972	13339	11.2	80	-F	3 V		.40			DE	
	16	2140	2153		NO FLARE PATROL													
16	2158	2209		NO FLARE PATROL														
GRP51772 PALE PALE MANI	16	2249	2302	2250	N37	W79	.983	13339	11.0	13	-N			.34			2 2 2 2	
	16	2249E	22500	2249U	N37	W81	.988	13339	10.9	10	-N	2 C		.27				
	16	2249E	22500	2249U	N37	W77	.978	13339	11.2	10	-N	2 V		.20				
	16	2250E	2302	2250U	N37	W78	.981	13339	11.1	120	-N	1	2250	.41	1.04			
GRP51773 PALE PALE	17	0218	0236	0222	N19	E63	.896	13338	21.8	18	--F			.27			1 1 1 1	
	17	0218	0236	0222	N18	E63	.895	13338	21.8	18	-F	3 C		.27				
	17	0220E	02340	0222	N20	E64	.904	13338	21.9	140	-F	3 V		.25				
	17	1330	1353		NO FLARE PATROL													
	17	2232	2236		NO FLARE PATROL													
	17	2258	2304		NO FLARE PATROL													
17	2336	2342		NO FLARE PATROL														

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE NOV	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	17	2353	0015	NO FLARE PATROL														
	18	0033	0044	NO FLARE PATROL														
GRP51774 MANI PALE PALE	18	0046	0102	0051	N14	E46	.729	13338	21.5	16	--F			.52			2 2 2 2	
	18	0046E	0102	0050U	N11	E47	.736	13338	21.6	160	-F	1	0050	.41	.62		DE	
	18	0050E	0052	0051	N17	E46	.736	13338	21.5	20	-F	2		.62			DE	
	18	0051E	0057D	0051U	N15	E44	.709	13338	21.3	60	-F	2		.49				
GRP51775 MITK MANI	18	0355	0406	0358	N17	E43	.703	13338	21.4	11	--F			.88			2 2 2 4	
	18	0355	0404	0358	N17	E43	.703	13338	21.4	9	-N		0358	1.34	1.90		E	
	18	0357E	0407	0357U	N17	E42	.691	13338	21.3	100	-F	1	0357	.41	.57		F	
778 RANY	18	1639	1655	1643	N13	E90	1.000	13343	25.4	16	-N	3					1	
780 BOUL	18	2228	2233D	2230D	N15	E38	.636	13338	21.8	50	--F		2230	.86	1.08		1	
	18	2232	2238	NO FLARE PATROL														
	18	2238	2242	2238	N16	E39	.652	13338	21.9	4	--F			.83			1 1 1 1	
GRP51781 PALE PALE	18	2238E	2242D	2238U	N15	E39	.648	13338	21.9	40	-F	2		.83			DE	
	18	2238E	2242D	2238U	N17	E40	.667	13338	21.9	40	-F	2		.80			DE	
	18	2242	2300	NO FLARE PATROL														
782 MANI	18	2335E	2340	2335U	N11	E90	1.000	13343	25.7	50	-N		2335	.41	1.34		2	
GRP51783 PALE PALE MANI	19	0056	0108	0058	N02	E59	.857	13341	23.5	12	--F			.39			2 2 2 3	
	19	0056	0108	0058	N02	E59	.857	13341	23.5	12	-F	2		.36			DE	
	19	0056	0108	0058	N03	E59	.857	13341	23.5	12	-F	2		.30			DE	
	19	0057E	0107D	0057U	N02	E59	.857	13341	23.5	100	-N	2	0057	.41	.74			
GRP51785 ATHN ATHN	19	0746	0812	0752	N09	E90	1.000	13343	26.1	26	-B						1 1 0 5	
	19	0746	0812	0752	N08	E90	1.000	13343	26.1	26	-B	3					DE	
	19	0748	0810	0753	N11	E90	1.000	13343	26.1	22	-B	3					DE	
786 ATHN	19	0858	0913	0901	N08	E90	1.000	13343	26.1	15	-N	3					DE	
GRP51787 HTPR ATHN HUAN	19	1232	1251	1246	N05	E89	1.000	13343	26.2	19	--F			.21			3 2 1 5	
	19	1232	1251	1246	N05	E90	1.000	13343	26.3	19	-F		1246	.21			A	
	19	1232	1259	1234	N07	E90	1.000	13343	26.3	27	-N	3					DE	
	19	1240E	1250		N05	E88	.999	13343	26.1	100	-F	1					C	
GRP51788 BOUL HUAN PALE PALE RANY	19	1834	1858	1842	N18	E25	.486	13338	21.6	24	--F			.38			4 4 3 4	
	19	1830	1904	1841	N18	E25	.486	13338	21.6	34	-F		1841	.43	.47			
	19	1834	1857	1845U	N17	E26	.491	13338	21.7	23	-F	1						
	19	1837	1853	1840	N19	E25	.493	13338	21.7	16	-N	3		.41			DE	
	19	1837	1853	1840	N19	E25	.493	13338	21.7	16	-N	3		.40			DE	
	19	1839E	1852D	1841	N18	E25	.486	13338	21.7	130	-F	3		.31				
	19	2248	2256	NO FLARE PATROL														
	20	0331	0340	NO FLARE PATROL														
	20	0345	0418	NO FLARE PATROL														
20	0431	0434	NO FLARE PATROL															
20	0447	0455	NO FLARE PATROL															
789 ATHN	20	1333	1400	1349	N12	E74	.961	13343	26.1	27	--F	3		.17			F	
	20	1443	1550	NO FLARE PATROL														
	20	2157	2230	NO FLARE PATROL														
GRP51791 MANI PALE PALE	21	0128	0140	0132	N12	E57	.842	13343	25.3	12	--F			.73			2 2 2 4	
	21	0128	0140	0131	N10	E59	.858	13343	25.5	12	-F	2	0131	.83	1.48			
	21	0131E	0139	0133U	N14	E55	.825	13343	25.2	80	-N	2		.62			DE	
	21	0131E	0139	0133U	N14	E55	.825	13343	25.2	80	-N	2		.60			DE	
GRP51792 PALE PALE MANI	21	0147	0205	0148	N03	E33	.544	13341	23.5	18	--F			.34			2 2 2 4	
	21	0147	0156D	0148U	N02	E33	.544	13341	23.5	90	-F	2		.27			DE	
	21	0147	0154	0148U	N04	E33	.545	13341	23.5	7	-F	2		.20			DE	
	21	0148E	0205	0148U	N02	E33	.544	13341	23.5	170	-F	2	0148	.41	.49			
GRP51793 PALE PALE	21	0309	0331	0312	N04	E32	.530	13341	23.5	22	--F			.21			1 1 1 3	
	21	0309	0331	0312	N04	E32	.530	13341	23.5	22	-F	2		.21			DE	
	21	0309	0331	0312	N04	E32	.530	13341	23.5	22	-F	2		.20			DE	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE NOV	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MONTH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hr	MAX. INT. %		
					LAT.	MER. DIST.													
GRP51794	21	0635	0640	0636	N10	E58	.849	13343	25.6	5	--F				.31				1 1 1 3
TEHR	21	0635	0640	0636	N10	E58	.849	13343	25.6	5	--F	4	C		.31				F
TEHR	21	0636E	06400	0636U	N10	E58	.849	13343	25.6	40	-F	4	V		.30				F
796 BOUL	21	1612	1626D	1615	N04	E24	.407	13341	23.5	140	--F		C	1615	.43	.47			3
798 BOUL	21	1854	1901	1857	N06	E49	.755	13343	25.5	7	--F		C	1857	.32	.49			1
799 RAMY	21	2011E	20170	2014U	N02	E22	.374	13341	23.5	60	--F	2	V		.28				HDE 2
	21	2310	2313	NO FLARE PATROL															
	21	2314	2318	NO FLARE PATROL															
801 MCMA	22	1600	1620	1605	N02	E10	.174	13341	23.4	20	--F		C	1605	.62	.60			E 3
	22	1951	1953	NO FLARE PATROL															
	23	0313	0320	NO FLARE PATROL															
	23	0325	0335	NO FLARE PATROL															
GRP61803	23	0516	0528	0519	N14	W21	.407	13338	21.6	12	--F		C		.38				1 1 1 3
TEHR	23	0516	0528	0519	N15	W21	.415	13338	21.6	12	-F	4	C		.38				F
TEHR	23	0518E	0528D	0520U	N14	W21	.407	13338	21.6	100	-F	4	V		.35				F
GRP61804	23	1119	1126	1121	N06	E25	.427	13343	25.3	7	--N		C		.34				1 1 1 3
ATHN	23	1119	1126	1121	N06	E25	.427	13343	25.3	7	-N	1	C	1121	.34	.33			F
ATHN	23	1119	1126	1121	N06	E25	.427	13343	25.3	7	-F	3	V		.33				
	23	1404	1429	NO FLARE PATROL															
	23	1749	1757	NO FLARE PATROL															
GRP61805	23	2304	2321	2309	N10	E27	.470	13343	26.0	17	--F		C		.37				2 2 2 4
PALE	23	2304	2312	2306	N11	E26	.460	13343	25.9	8	-F	2	C		.52				DE
PALE	23	2304	2321	2306	N11	E26	.460	13343	25.9	17	-F	2	C		.52				DE
HANI	23	2311E	23210	2311U	N09	E27	.466	13343	26.0	100	-F	1	C	2311	.21	.23			
	24	0448	0450	NO FLARE PATROL															
	24	0454	0509	NO FLARE PATROL															
GRP61807	24	0606	0622	0612	N02	W11	.191	13341	23.4	16	--F		C		.98				2 2 2 5
ATHN	24	0605	0623	0614	N03	W10	.175	13341	23.5	18	-F	3	C		.83				U
HANI	24	0606	0612D	0609	N01	W11	.191	13341	23.4	60	-N	2	C	0609	1.13	1.16			F
ATHN	24	0610	0622	0612	N06	W12	.220	13341	23.4	12	-F	1	C	0612	.68	.64			
ATHN	24	0610E	0622	0612	N01	W12	.208	13341	23.4	120	-F	4	V		.64				U
GRP61809	24	0944	1000	0947	N02	W13	.225	13341	23.4	16	--F		C		.66				1 1 1 3
ATHN	24	0944	1000	0947	N03	W13	.226	13341	23.4	16	-F	2	C		.66				U
ATHN	24	0944	0956	0946	N04	W13	.228	13341	23.4	12	-F	1	C	0946	.52	.50			
ATHN	24	0944	0956	0946	N02	W13	.225	13341	23.4	12	-F	3	V		.48				U
	24	1024	1034	NO FLARE PATROL															
811 HUAN	24	1359	1405	1401	N07	E11	.210	13343	25.4	6	--F	1	C	1401	.31	.32			2
812 HUAN	24	1710	1719	1715	N13	W47	.741	13338	21.2	9	--F	1	C						1
	24	1734	1750	NO FLARE PATROL															
	24	1824	1828	NO FLARE PATROL															
	24	1840	1844	NO FLARE PATROL															
GRP61813	24	2015	2026	2016	N13	W50	.774	13338	21.1	11	--F		C		.37				2 2 2 3
BOUL	24	2013	2027	2016	N12	W49	.762	13338	21.2	14	-F		C	2016	.32	.49			
HUAN	24	2016	2025		N13	W51	.785	13338	21.0	9	-F	1	C	2022	.41	.65			
814 BOUL	24	2119	2132	2124	N10	W46	.725	13338	21.4	13	--F		C	2124	.11	.16			3
815 MANI	25	0028	0045	0038	N12	W51	.784	13338	21.2	17	--F	2		0038	.52	.82			E 2
	25	0802	0811	NO FLARE PATROL															
	25	1619	1627	NO FLARE PATROL															
	25	1642	1650	NO FLARE PATROL															

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OBSERVATORY	OBSERVED UT			LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE NOV	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMT FLARE REGION	CMP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
	25	1655	1656	NO FLARE	PATROL												
	25	1714	1727	NO FLARE	PATROL												
	25	1858	1903	NO FLARE	PATROL												
	25	1907	1918	NO FLARE	PATROL												
	25	2155	2205	NO FLARE	PATROL												
	25	2238	2240	NO FLARE	PATROL												
	26	0619	0621	NO FLARE	PATROL												
	26	0631	0650	NO FLARE	PATROL												
	26	0710	0735	NO FLARE	PATROL												
818 MONT	26	0818	0825	0821	N06	E03	.094	13343	26.6	7	--F	C	0821	.21			H 2
819 HTPR	26	0847	0900	0848	N06	E02	.085	13343	26.5	13	--F	C	0848	.10	.10		2
822 RAHY	26	1422	1429	1424	N11	N68	.926	13338	21.5	7	--F	3 C		.23			DE 3
	26	2233	2300	NO FLARE	PATROL												
GRP61824	27	0811	0817	0814	N16	W82	.990	13338	21.2	6	-N			.89			2 2 2 2
ATHN	27	0810	0816	0813	N15	W78	.978	13338	21.5	6	-N	1 C	0813	.68	1.52		
ATHN	27	0810E	0816	0813U	N15	W78	.978	13338	21.5	6D	-N	3 C		.66			F
ATHN	27	0810E	0816	0813U	N15	W78	.978	13338	21.5	6D	-N	3 V		.64			F
ABST	27	0812	0817	0815	N16	W85	.996	13338	21.0	5	1N	C	0815	1.10		47	AFJ
	27	2320	2331	NO FLARE	PATROL												
	28	0145	0150	NO FLARE	PATROL												
828 ATHN	28	1133	1140	1136	N05	W35	.576	13343	25.9	7	--F	1 C	1136	.17	.16		3
	28	1621	1704	NO FLARE	PATROL												
GRP61830	29	0157	0235	0201	N08	W46	.723	13343	25.6	38	-B			1.50			2 2 2 3
MITK	29	0155	0240	0201	N08	W45	.711	13343	25.7	45	1N	C	0201	2.06	2.90		E
VORO	29	0158	0229	0201	N07	W46	.722	13343	25.6	31	-B	C	0201	.93	1.30	62	EJ
	29	2021	2032	NO FLARE	PATROL												
GRP61832	30	0551	0614	0557	N03	W52	.788	13343	26.3	23	-B			1.21			2 2 2 6
MITK	30	0551	0614	0556	N03	W52	.788	13343	26.3	23	-B	C	0556	1.24	2.00		EH
ABST	30	0557E	0614	0558	N03	W52	.788	13343	26.3	17D	-N	P	0558	1.18	1.90	52	BF
	30	1407	1412	NO FLARE	PATROL												

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

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
741101	32.83	23.7	741112	3.00	21.5	741122	0.00	24.0
741102	0.00	23.4	741113	0.00	22.5	741123	0.00	23.2
741103	4.89	23.7	741114	0.00	23.5	741124	0.00	23.1
741104	33.38	23.2	741115	0.72	23.5	741125	0.00	22.9
741105	43.22	23.1	741116	0.61	23.6	741126	0.00	22.8
741106	40.71	23.9	741117	0.00	23.0	741127	4.20	23.3
741107	0.00	23.4	741118	1.76	23.4	741128	0.00	23.2
741108	0.00	23.5	741119	1.69	23.9	741129	11.68	23.3
741110	11.88	24.0	741120	0.00	21.5	741130	7.73	23.8
741111	0.80	22.6	741121	0.00	23.9			

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

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H_a SOLAR FLARES **Unconfirmed** **NOVEMBER 1974**

OBSERVATORY	OBSERVED UT			MAX. PHASE	LOCATION				DURATION MIN.	IMPOR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE NOV	START	END		APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CHP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
680 MITK	01	0441	0446		N11	E90	1.000	13324	7.9	5	1N	P	0446	1.13			4
682 HTPR	01	1243	1257	1248	S04	W15	.295	13310	28.4	14	-F	C	1248	.21	.20		D 5
GRP61684	01	1754	1806	1755	N12	E80	.983	13324	7.7	12	-N			.26			1 1 1 4
PALE	01	1754	1806	1755	N12	E80	.983	13324	7.7	12	-N	2 C		.26			DE
PALE	01	1754	1806	1755	N12	E80	.983	13324	7.7	12	-N	2 V		.25			DE
690 HTPR	02	1144	1205	1155	N14	E69	.931	13324	7.7	21	-F	C	1155	.10	.20		6
691 HTPR	02	1403	1405	1404	N08	E63	.889	13324	7.3	2	-F	C	1404	.10	.20		6
695 HUAN	02	1729	1737	1731	N11	E63	.889	13324	7.5	8	-F	1 C	1731	.46	1.02		4
GRP61701	03	0643	0647	0644	N05	E65	.905	13324	8.2	4	-N			.17			1 1 1 5
ATHN	03	0643	0647	0644	N05	E65	.905	13324	8.2	4	-N	4 V		.17			DE
ATHN	03	0643	0647	0644	N05	E65	.905	13324	8.2	4	-N	1 C	0644	.17			
702 ABST	03	0659E	0705	0701	N15	E58	.848	13324	7.6	60	-F	P	0701	.99	1.70		EJ 8
704 HTPR	03	0814	0818	0814	N14	E62	.882	13324	8.0	4	-F	C	0814	.10	.20		5
706 HTPR	03	0942	0945	0944	N14	E54	.810	13324	7.5	3	-F	C	0944	.10	.20		6
707 HTPR	03	0958	1013	1008	N14	E54	.810	13324	7.5	15	-F	C	1008	.10	.20		5
710 HUAN	03	1412	1424	1414U	N13	E54	.809	13324	7.6	12	-F	1 C	1414	.46	.79		E 9
GRP61727	04	2318	2323	2320	S07	W69	.938	13310	30.8	5	-F			.21			1 1 1 4
PALE	04	2318E	2323	2320	S07	W69	.938	13310	27.8	50	-F	3 C		.21			
PALE	04	2318E	2323	2320	S07	W69	.938	13310	27.8	50	-F	3 V		.20			
745 ABST	06	0558E	06290	0606	S10	W86	.998	13310	27.8	310	1N	P	0606	1.08			ADJK 6
746 TEHR	06	0704E	07120	0706U	S09	W87	.999	13310	27.8	80	-N	3 V		.31			DE 6
GRP61748	06	1217	1234	1223	S13	W90	1.000	13310	30.8	17	-B			.21			2 2 1 2
RAMY	06	1216	1253	1225	S12	W90	1.000	13310	27.8	37	-B	3 V					
HTPR	06	1217	1228	1221	S12	W90	1.000	13310	27.8	11	-B	C	1221	.21			A
RAMY	06	1218	12390	1222	S14	W90	1.000	13310	27.8	210	-B	3 C					
750 BOUL	06	2105	2133	2121	S10	W81	.990	13310	28.8	28	-F	C	2121	.11	.37		4
GRP61757	07	2240	2245	2242	N17	W06	.250	13324	7.5	5	-F			.20			1 1 1 3
PALE	07	2240	2245	2243	N17	W06	.250	13324	7.5	5	-F	2 C		.19			DE
PALE	07	2241E	2245	2242U	N17	W06	.250	13324	7.5	40	-F	2 V		.20			DE
762 BOUL	10	2059	2108	2104	N12	W44	.699	13324	7.6	9	-F	C	2104	.32	.45		6
GRP61766	15	0556	0614	0602	N12	E87	.998	13338	21.8	18	1F			.88			2 2 2 6
MANI	15	0556	0614	0601	N12	E86	.997	13338	21.7	18	1N	2	0601	.93	2.70		F
TEHR	15	0600E	06120	0603U	N11	E87	.998	13338	21.8	120	1F	4 V		.83			F
GRP61768	16	0600	0609	0603	N16	E75	.965	13338	21.9	9	-F			.34			1 1 1 6
ATHN	16	0600	0609	0603	N17	E75	.965	13338	21.9	9	-F	1 C	0603	.34	.70		DE
ATHN	16	0600	0609	0603	N15	E75	.965	13338	21.9	9	-F	2 V		.33			
769 MONT	16	1139	1146	1140	N37	W78	.981	13339	10.6	7	-F	C	1140	.41			EH 5
776 MANI	18	0736E	07400	0737	N17	E45	.725	13338	21.7	40	-F	1	0737	.21	.30		9
1 STATIONS REPORTING GROUP 61777. 5 STATIONS OBSERVING AND NOT REPORTING.																	
GRP61777	18	1227	1332	1230	N10	E90	1.000	13343	25.3	65	-N						1 1 0 6
ATHN	18	1227	1332	1230	N10	E90	1.000	13343	25.3	65	-N	1 C					
ATHN	18	1227	1332	1230	N10	E90	1.000	13343	25.3	65	-N	4 V					DE
777 ATHN	18	1226	1337	1236	N12	E90	1.000	13343	25.3	71	*-N	4 C					DE 6
779 MCMA	18	1841	1915	1844	N11	E90	1.000	13343	25.5	34	1F	C	1844				AR 5
784 MANI	19	0450E	0501	0454	N12	E90	1.000	13343	26.0	110	-N	2	0454	.41	1.34		5
GRP61790	21	0125	0131	0125	N04	E33	.545	13341	23.5	6	-F			.21			1 1 1 4
PALE	21	0125E	01310	0125U	N04	E33	.545	13341	23.5	60	-F	2 C		.21			DE
PALE	21	0125E	01310	0125U	N04	E33	.545	13341	23.5	60	-F	2 V		.20			DE
795 HTPR	21	1403	1405	1405	N09	E52	.790	13343	25.5	2	-F	C	1405	.21	.30		D 5
797 RAMY	21	1814E	18240	1816	N04	E23	.391	13341	23.5	100	-F	2 V		.33			3

H α SOLAR FLARES

Unconfirmed

NOVEMBER 1974

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE NOV	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMT PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
800 MANI	22	0137	01450	0140	N14	W05	.224	13338	21.7	80	-F	2	0140	.41	.42			5
802 MANI	23	0500E	0520	0504U	N01	E02	.038	13341	23.4	200	-N	2	0504	.21	.31			4
806 MANI	24	0212	0225	0215	N06	E22	.380	13343	25.7	13	-F	2	0215	.83	.89			3
808 ATHN	24	0623	0651	0637	N07	E18	.320	13343	25.6	28	-F	3	C		.66			F 5
GRP51810	24	1133	1153	1139	N02	W14	.242	13341	23.4	20	-N			.48				1 1 1 3
ATHN	24	1133	1153	1140	N03	W14	.243	13341	23.4	20	-N	2	C	.33				U
ATHN	24	1135	1147	1139	N02	W15	.259	13341	23.4	12	-N	2	V	.48				U
ATHN	24	1135	1147	1139	N02	W15	.259	13341	23.4	12	-F	1	C	1139	.52	.50		
816 MANI	25	0045	0110	0100	N13	W49	.764	13338	21.4	25	-N	2		0100	1.03	1.59		H 2
817 MANI	25	0200E	0210	0200U	N14	W51	.787	13338	21.3	100	-N	2		0200	.83	1.31		3
820 HTPR	26	1042	1056	1050	N06	E01	.080	13343	26.5	14	-F		C	1050	.10	.10		7
821 MONT	26	1214	1224	1218	N02	W41	.656	13341	23.4	10	-F		C	1218	.41			4
823 ABST	27	0614	06230	0618	N17	W80	.985	13338	21.3	90	-F		P	0618	.72			DJ 4
825 ABST	27	0850E	0902	0858	N14	W83	.992	13338	21.1	40	1F		P	0902	1.08			OJ 5
826 HTPR	27	0927	0929	0928	N05	W13	.233	13343	26.4	2	-F		C	0928	.10	.10		5
827 HTPR	27	1228	1320	1246	S13	W15	.354	13348	26.4	52	-F		C	1246	.31	.30		5
GRP51829	28	1744	1801	1748	N04	W38	.616	13343	25.9	17	-F			.45				1 1 1 4
PALE	28	1744	1801	1748	N04	W40	.643	13343	25.7	17	-F	3	C	.45				DE
PALE	28	1744E	1753	1744	N05	W36	.590	13343	26.0	90	-F	3	V	.20				DE
831 MONT	29	0916	0921	0917	N09	W51	.781	13343	25.6	5	-F		C	0917	.21			4

Note:

A line of explanation has been added before each flare event having more than one maxima. The total number of stations reporting some part of the event is given. The number of stations observing at the time of the principal maximum but not reporting the event is given in the second statement. Care should be exercised in utilizing the numbers in the remarks column. The first number is the number of stations reporting the individual maximum, and not the total number of stations reporting some part of the flare event. The last number is the number of stations reporting at the time of the individual maximum and not necessarily the total number of stations observing during the flare event. GRP numbers may appear several times in order to indicate secondary maxima. An asterisk beside an importance indicates a secondary maximum. The word "GRP" has also been omitted to aid in pointing to this condition.

When it is impossible to determine the time of Maximum Phase from the individual reports the time of Area Measurements is used. This time appears in parentheses. For Flares reported by only one station the last 3 digits of the group number appear to the left of the station code.

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.

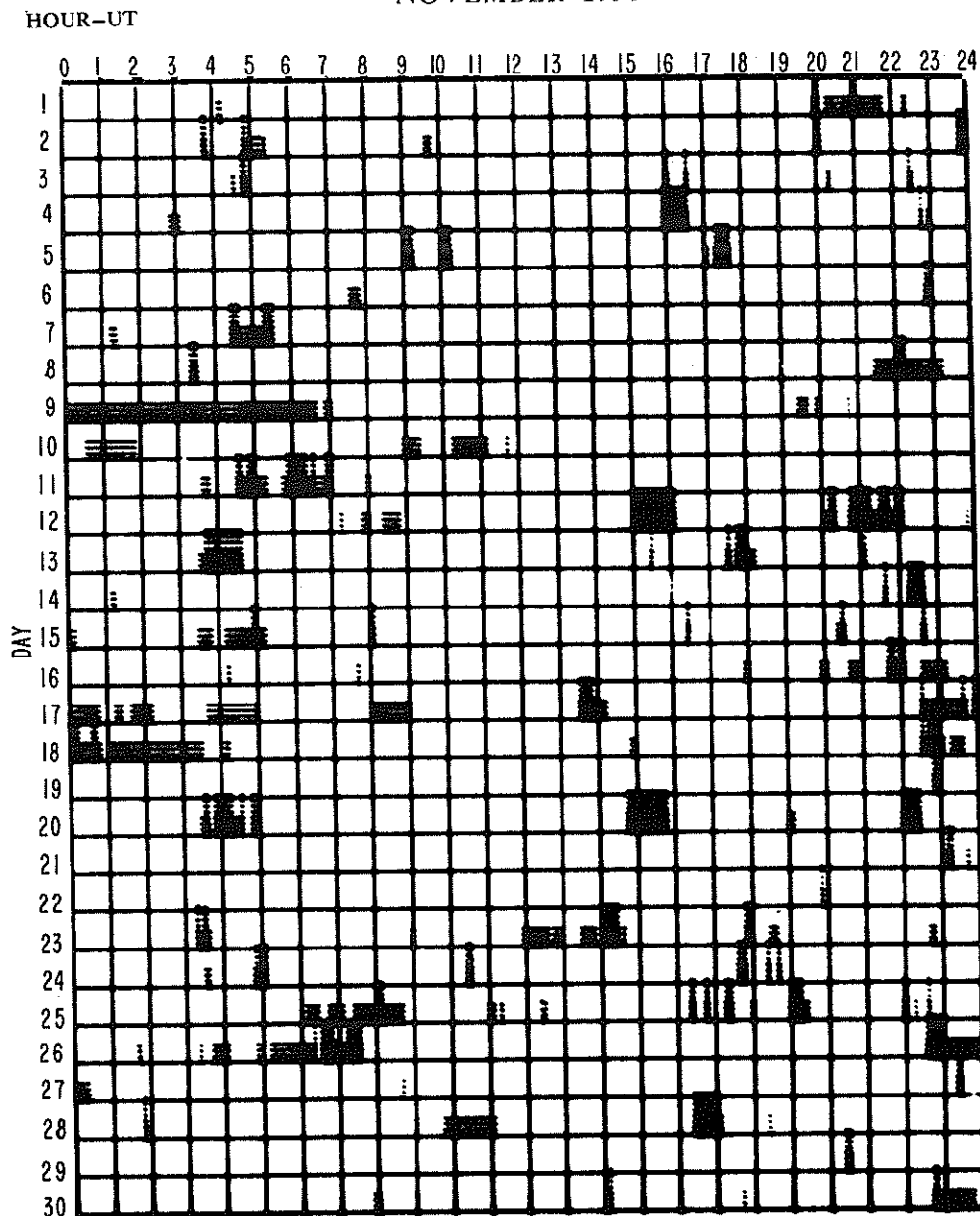
Z = Major sunspot umbra covered by flare.

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Nov 74

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 1974



Observatories included in total patrol:

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

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

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1974

NOV 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
1	2800 OTTA	27F	1425		195	.8	0.7		
	2800 OTTA	24	1425	1500	35	.8	0.4		
	2800 OTTA	24P	1500		145	.8			
	2800 OTTA	26	1725	1740	15	.8	-0.4		
	2695 PENT	21	2043	2150	100	1.8	0.9		
	2800 OTTA	20	2056	2058.5	28	2.6	1.1		
2	2800 OTTA	25	1240	2000	440	3.8			
	930 BORD	5	1253	1253.7	2	7.0	3.0		
	2800 OTTA	20	1255		125	2.8	1.6		
	2800 OTTA	20	1612	1620	30	1.6	0.8		
	2800 OTTA	1	1727	1729	8	.8	0.4		
	2800 OTTA	22	1745	1840	75	1.8	0.9		
	7000 SAOP	1	1808.5	1808.7	1.8	14.7	6.8		
	2800 OTTA	1	1949	1949.5	1	1.6	0.8		
	2800 OTTA	24P	2000		60	3.8			
	2695 PENT	240	2100	2125	25	5.0	2.5		
	2695 PENT	24P	2125		100 D	50.0			
3	9400 TYKW	5	0100	0104	45	4.0	2.0		
	3750 TYKW	5	0101	0104	35	2.0	1.0		
	9400 TYKW	5	0321	0323	20	3.0	1.0		
	3750 TYKW	5	0322	0322.8	1.5	5.0	2.0		
	2000 TYKW	5	0322	0322.6	4	3.0	1.0		
	1000 TYKW	5	0322	0323	3	.8	0.3		
	3750 TYKW	29	0323.5		25	2.0	1.0		
	260 ONDR	45	1105	1105	1.5	30.0			
	15400 SGMR	3	1741.7	1742.1	4	38.0	11.4		
	9400 HUAN	4	1741.8	1742.2	.6	67.5	24.8		
	8800 PALE	3	1741.5	1742.3	4.3	79.0	24.0		
	8800 SGMR	3	1741.7	1742.2	4.7	69.0	20.7		
	7000 SAOP	8	1741.6	1742.2	.8	102.7	40.0		
	4995 SGMR	3	1741.3	1742.2	5.4	46.5	14.0		
	2800 OTTA	25	1741	1810	29	1.8	0.9		
	2800 OTTA	3	1741.2	1742	1.3	19.0	9.5		
	2700 PENN	3	1741.8	1742.6	3.6	15.9	2.5		
	2695 SGMR	3	1741.4	1742.2	5.6	19.1	5.7		
	1415 PALE	3	1741.3	1742.2	4.5	10.0	3.0		
	1415 SGMR	3	1741.7	1742.2	7.2	10.1	3.0		
	606 SGMR	40	1741.5	1741.9	4.2	15.2	4.6		
	410 SGMR	48	1741.7	1742.6	3.9	2474.0	740.0		
	10700 PFNN	3	1742	1742.6	3.4	57.1	8.7		
	7000 SAOP	29	1742.4		1.7				
	2800 OTTA	29	1742.5	1742.5	5	1.8	0.7		
	245 SGMR	6	1742.3	1742.7	5.3	191.0	57.0		
	2800 OTTA	24P		1810	290 D	1.8			
	2800 OTTA	20	1850	1920	110	1.8	1.2		
	2800 OTTA	3	2043	2045	3	20.0	7.0		
	2695 BOUL	8	2043	2046	6	18.0	7.0		
	1420 BOUL	3	2043	2045	2	3.0	1.0		
	2700 PFNN	3	2044.2	2045.4	3.6	17.5	3.5		
	2800 OTTA	29	2046	2046	8	1.8	0.9		
	2695 PFNT	20	2120	2155	60	1.8	0.9		
	3750 TYKW	45	2312.5	2315.3	6	6.0	3.0		
	2000 TYKW	5	2315	2315.9	2	5.0	2.0		
	1000 TYKW	5	2315	2315.9	2	3.00	1.00		
4	3750 TYKW	5	0310	0340	80	2.0	1.0		
	2000 TYKW	5	0320	0340	60	2.0	1.0		
	9100 GORK	20	0637	0647	20	6.0	2.6		
	8800 ATHN	20	0741.8	0744.4	15	9.5	5.7		
	6100 KISV	3	0741	0744.2	16	17.0			
	4995 ATHN	3	0741.8	0744.4	18.2	15.5	4.7		
	3000 BERL	4	0741.5	0744.1	8.5	8.8	1.9		
	2950 GORK	3	0741.8	0744.9	3.5	12.1	3.6		
	2695 ATHN	20	0741.8	0744.3	15.9	15.9	3.0		
	1470 RFRL	45	0741.5	0744	4	2.3	1.1		
	1415 ATHN	20	0741.8	0744.6	16.2	16.2	2.8		
	9100 GORK	22	0742	0744	8	11.7	4.1		
	9500 RFRL	1	0743.5	0744.3	6.5	7.7	2.6		
	9100 GORK	22	0812	0826	36	5.9	3.7		
	950 GORK	3	0909.5	0909.6	1.8	2.6	1.0		
	930 BORD	45	0909	0909.6	1	8.0	2.0		
	650 GORK	4	0909.5	0909.9	1.6	7.0	2.0		
	2800 OTTA	20	1355		75	1.4	0.7		
	18 MCMA	6	1605	1607	4				
	2800 OTTA	20	1700	1720	100	3.6	2.2		
	1420 BOUL	45	1702.5	1706	4.5	3.0	1.0		
	2695 PFNT	240	2040	2057	17	1.8	0.9		
	2695 PFNT	24P	2057		120 D	1.8	0.9		
	100 HIRA	45	2339.5	2344.9	7	80.0	30.0		
5	100 GORK	41	0829.4	0832.8	5.4	1400.0			
	100 GORK		0829.4	0835.1		40.0			
	260 ONDR	45	1131	1132	2.5	15.0			
	79 UPIC	45	1131	1131.5	2.5				
	10700 PENN	45	1532.8	1535.3	11.2	321.0	55.5		
	4995 BOUL	45	1532.5	1535	18.5	111.0	32.0		
	1420 BOUL	45	1532.5	1546	19	76.0	17.0		
	1415 SGMR	4	1532.3	1534.9	17.4	192.0	57.6		

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

NOVEMBER 1974

NOV 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
6	35000 SGMR	47	1533.4	1535.3	6.2	2481.0	1182.0	1	AT SUNSET
	15400 SGMR	47	1533.7	1535.3	13.6	936.0	281.0		
	8800 SGMR	4	1533.8	1535.4	17.6	293.0U	89.0U		
	7000 SAOP	46	1533.8	1535.4	14.6	268.8	46.3		
	7000 SAOP		1533.8	1535.4	5.7	268.8	100.8		
	7000 SAOP		1539.5	1540	2	29.0	4.6		
	7000 SAOP		1541.5	1541.8	2.9	40.5	5.8		
	7000 SAOP		1545.3	1545.3	3.8	5.8			
	4995 SGMR	4	1533.7	1535.4	15	124.0	37.1		
	2800 OTTA	46	1533.7	1535.3	13.6	100.0	17.0		
	2800 OTTA		1533.7	1535.3	2.3	100.0			
	2800 OTTA		1536	1536.3	3.5	43.0			
	2800 OTTA		1539.5	1540	1.8	16.6			
	2800 OTTA		1541.3	1541.8	5.9	22.0			
	2700 PENN	45	1533.8	1535.6	14.4	85.2	15.7		
	2695 SGMR	4	1533.8	1535.4	20.5	93.9	28.2		
	930 BORD	45	1533	1535	15	243.0	25.0		
	37000 SLOU	4	1534.9	1535.5	2	1760.0			
	2695 BOUL	45	1534.5	1536 U	18.5	52.0U	17.0U		
	1420 ARCE	4	1534.2	1535.1	2.2				
	606 SGMR	47	1534.5	1536.7	15.4	2000.0	600.0		
	410 SGMR	49	1534	1537.2	14	2300.0	690.0		
	245 SGMR	49	1534.8	1535.2	19.9	1421.0	568.4		
	1420 ARCE	30	1536.4	1536.9	8				
	1420 ARCE	3	1539.9	1540.2	1.2				
	1420 ARCE	3	1541.5	1541.8	.7				
	10700 PENN	29	1544	1544	27	8.9	4.6		
	2700 PENN	29	1548.2	1548.2	25.8	1.8	0.9		
	2800 OTTA	27A	1552		90	1.2	1.1		
	2800 OTTA	24	1552	1555	3	1.2	0.6		
	2800 OTTA	24P	1555		75	1.2			
	18 MCMA	6	1637	1638	2				
	2800 OTTA	2	1644.5	1645.9	2	5.8	2.9		
	2700 PENN	1	1644.4	1645.8	11.2	5.3	1.0		
	1420 BOUL	3	1644	1646	2.5	3.0	1.0		
	2695 BOUL	3	1645	1646.5	3.5	6.0	2.0		
	2800 OTTA	29	1646.5	1646.5	17	2.8	1.4		
	2800 OTTA	26	1710	1722	12	-1.2	-0.6		
	2800 OTTA	1	1740	1740.5	4	1.6	0.7		
	18 MCMA	6	1911	1912	2				
	18 MCMA	6	2104	2107	4				
	19000 SLOU	4	1534.5	1535.7	4	1223.0			
	3750 TYKW	5	0102	0108	25	2.0	1.0	2	
	9400 TYKW	5	0105	0108	9	6.0	3.0		
	606 MANI	2	0106.7	0107.1	1	10.1	4.2		
	1000 TYKW	42	0131	0131.6	7	10.0	0.6		
	9400 TYKW	45	0308	0310.7	6	26.0	7.0		
	8800 MANI	4	0308.4	0310.8	4.1	20.5	6.3		
	4995 MANI	4	0308.4	0312	6	18.5	7.0		
	3750 TYKW	45	0308	0310.7	7	25.0	7.0		
	2695 MANI	4	0308.4	0310.8	6.4	23.3	9.7		
	2000 TYKW	45	0308	0310.7	7	30.0	9.0		
	1415 MANI	40	0308.1	0311.8	6.7	114.0	15.0		
	1415 PALE	45	0308.3	0310.9	5.9	110.0	45.0		
	1415 PALE	45		0311.6		150.0			
	1415 PALE	45		0312.5		49.0			
	1000 TYKW	45	0308	0311.8	7	120.0	25.0		
	8800 PALE	4	0309.5	0310.6	3.2	18.0	5.0		
	606 MANI	40	0309	0313	6.3	134.0	21.2		
	200 HIRA	45	0311	0342	45	25.0	10.0		
	100 HIRA	45	0312.3	0312.5	1.5	320.0	100.0		
	8800 MANI	4	0313.7U	0339	40.3U	66.0	31.6U		
	9400 TYKW	28	0316	0319.4	10	9.0	4.0		
	100 HIRA	45	0316.5		15.5		200.0		
	100 HIRA		0316.5	0317.7		1000.00			
	100 HIRA		0316.5	0320.3		880.0			
	100 HIRA		0316.5	0327		830.0			
	4995 MANI	4	0317.7	0338.6	42.3	117.0	30.8		
	2695 MANI	4	0317.7	0338.3	42.3	116.0	29.1		
	2000 TYKW	28	0317	0319.5	8	7.0	3.0		
	1415 MANI	4	0317.7	0338.2	43.3	102.0	20.0		
	1415 PALE	1	0317.8	0319.3	2.8	5.0	2.0		
	1000 TYKW	28	0317	0325.1	10	27.0	5.0		
	3750 TYKW	28	0318	0319.4	8	13.0	6.0		
	606 MANI	47	0320.8	0337.6	36.3	515.0	129.0		
	500 HIRA	45	0321	0338	28	160.0	50.0		
	1415 PALE	22	0323.2	0342 U		92.0	53.0U		
	2000 TYKW	45	0325	0338.1	55	150.0	25.0		
	9400 TYKW	45	0326	0338.2	35	85.0	30.0U		
	8800 PALE	22	0326.7	0339 U		85.0	51.0U		
	3750 TYKW	45	0326	0338.2	35	118.0	40.0		
	1000 TYKW	45	0327	0333.7	50	450.0	70.0		
	9400 TYKW	29	0401		110	8.0	4.0		
	3750 TYKW	29	0401		110	6.0	3.0		
	9500 BERL	22	1207	1353	143 U	26.0			
	550 KIEV	24	1217.7	1221	12	30.0			
	2695 SGMR	22	1230.9	1235.3	12.4	11.4	6.8		
	1415 SGMR	46	1230.7	1234.2	8.4	12.2	3.2		
	1415 SGMR	46		1235		15.8			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1974

NOV 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	15400 SGMR	22	1231.8	1238	11.6	37.2	22.3		
	4995 SGMR	22	1231.1	1234	14.3	10.3	6.2		
	8800 SGMR	22	1232.7	1235.7	12.9	13.8	8.3		
	2700 PENN	45	1232.7	1234.3	4.6	10.5	3.8		
	1415 ATHN	4	1232.8	1235.4	4	10.9	3.3		
	930 BORD	45	1232	1235	12	113.0	6.0		
	808 ONDR	45	1232	1234.5	5	110.0			
	606 SGMR	3	1232.6	1234.1	3.5	13.8	4.1		
	550 KIEV	6	1232.5	1234	5	35.0			
	536 ONDR	45	1232.5	1243	13	40.0			
	410 SGMR	6	1232.9	1243.3	20.1	43.7	8.7		
	260 ONDR	45	1232	1235.5	14	30.0			
	245 SGMR	6	1233.3	1235.4	19.4	11.3	2.3		
	8800 ATHN	1	1234	1235.4	2.5	7.2	2.2		
	4995 ATHN	1	1234	1235.4	2.2	6.2	1.9		
	2695 ATHN	1	1234	1235.4	2.8	4.6	1.4		
	113 POTS	45	1234	1358	134 0	20.0			
	550 KIEV	7	1241.7	1242.7	11.2	34.0			
	2800 OTTA	20	1303	1308	22	9.0	2.3		
	245 SGMR	6	1303.6	1305.2	13.4	6.1	1.2		
	9400 HUAN	20	1304.8	1307.5	4.8	9.8	4.2		
	8800 SGMR	22	1304.7	1307.8	15.8	6.4	3.8		
	8800 ATHN	3	1304.8	1309.2	9	16.9	5.1		
	4995 ATHN	20	1304.8	1308	11.4	14.0	8.4		
	4995 SGMR	20	1304.7	1308.1	14.2	21.6	10.8		
	2695 SGMR	20	1304.8	1308.2	13.9	9.0	4.5		
	1415 ATHN	1	1304.7	1308.2	9.7	9.7	2.9		
	1415 SGMR	46	1304.2	1308.2	8.8	9.9	2.0		
	1415 SGMR	46		1311.3		8.9			
	930 BORD	45	1304	1307.2	12	27.0	12.0		
	808 ONDR	45	1304.5	1307	10.5	95.0			
	606 SGMR	4	1304.3	1307.2	14	63.3	19.0		
	550 KIEV	6	1304.5		20	95.0			
	536 ONDR	45	1304.5	1307	12	85.0			
	510 POTS	45	1304	1305	13 U	84.0	28.0		
	410 SGMR	6	1304.3	1305.9	11.9	192.3	76.9		
	260 ONDR	45	1304.5	1305	13	20.0			
	7000 SAOP	3	1305.8	1307.8	6.9	15.6	5.6		
	2700 PENN	20	1305.2	1307.7	25.2	9.7	2.9		
	2695 ATHN	20	1305.5	1308.3	10.9	4.6	2.8		
	29 UPIC	45	1305	1305.5	1.5				
	1470 RERL	46	1330 E	1355	60 0	175.0			
	2800 OTTA	21	1338	1407	80	9.0	4.0		
	9400 HUAN	21	1340.6	1400.6	66.1	25.2	10.2		
	2700 PFNN	45	1344	1353.7	21.1	47.4	17.1		
	2695 SGMR	46	1345.7	1353.6	22	53.4	10.7		
	2695 SGMR	46		1355		45.0			
	1415 ATHN	22	1345	1355.1	24.1	136.7	82.0		
	1415 SGMR	46	1345.2	1353.7	24.3	54.9	40.9		
	1415 SGMR	46		1355		204.3			
	4995 ATHN	22	1346.5	1352.3	43.3	35.7	21.4		
	2695 ATHN	22	1346.4	1352.3	33.5	37.0	22.2		
	8800 SGMR	22	1347.4	1352.5	53.8	31.3	8.8		
	8800 ATHN	22	1347.8	1352.5	31.1	28.9	17.3		
	7000 SAOP	46	1347.9	1352.5	9.6	45.6	22.2		
	7000 SAOP		1347.9	1352.5	7.7	45.6	22.2		
	7000 SAOP		1355.1	1356.2	1.9	27.8	4.4		
	4995 SGMR	22	1347.3	1352.2	58.7	39.9	23.9		
	2800 OTTA	46	1347	1352.2	17.5	47.0	17.6		
	930 BORD	45	1347	1355.2	18	448.0	48.0		
	410 SGMR	6	1347.2	1353.9	38.8	233.0	93.0		
	260 ONDR	45	1347	1354	35	45.0			
	245 SGMR	6	1347.2	1351.7	42.2	66.7	20.0		
	237 TRST	42	1347.7	1351.9	10.3	230.0			
	113 POTS	45	1347.8	1353.4	10	50000.0	1000.0		
	29 UPIC	45	1347		21				
	15400 SGMR	22	1348.5	1352.8	57.3	26.6	15.9		
	10700 PFNN	20	1348	1352.5	47.3	25.8	9.3		
	10500 RFRM	20	1348.8	1352.9	30				
	536 ONDR	45	1348.5	1353.5	11.5	110.0			
	9400 HUAN	20	1349.1	1352.4	65.5	29.4	15.2		
	808 ONDR	45	1349	1355	11	340.0			
	510 POTS	41	1349	1354	13 U	140.0	20.0		
	550 KIEV	3	1350.5	1353.5	9	156.0			
	234 POTS	45	1351.8	1351.8	.1	100.0	15.0		
	7000 SAOP	29	1357.5						
	2700 PFNN	29	1405.1	1405.1	45	7.0	3.5		
	2695 SGMR	29	1407.7	1407.7	34.1	7.2	2.9		
	1415 SGMR	29	1409.5	1409.5	33.2	4.5	1.8		
	237 TRST	42	1415	1417.6	6	70.0			
	2800 OTTA	260	1620	1710	50	-2.2	-1.1		
	2695 PENT	20	2140	2200	40	1.8	0.9		
7	260 ONDR	41	0723	1223	427	25.0			
	808 ONDR	5	1326	1326	.5	90.0			
	2800 OTTA	41	1446	1447.1	1.5	10.6			
	2800 OTTA	8	1446	1446		5.4			
	2800 OTTA	8	1447	1447.1	.5	10.6	5.3		
	2800 OTTA	22	1500	1530	95	1.6	0.8		
	930 BORD	45	1506	1506.3	1	12.0	1.0		

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NOV 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
8	260 ONDR	5	0945.5	0945.5	.5	20.0		2	
	200 GORK	6	1143.7	1144.2	1.3	140.0	20.0		
	100 GORK	6	1143.7	1144.2	.8	40.0	9.0		
	18 MCMA	6	1329	1331	2				
	930 BORD	5	1607	1607	1	8.0	2.0		
10	2800 OTTA	20	1435	1442	20	1.0	0.5		
	2800 OTTA	21	1535	1610	105	3.2	2.0		
	2700 PENN	1	1542.8	1543.9	1.6	5.1	1.7		
	1420 BOUL	8	1542.5	1543.5	5	2.0	1.0		
	4995 SGMR	1	1543.4	1543.6	1.1	3.6	1.4		
	2800 OTTA	1	1543	1544	2.5	4.8	1.6		
	2695 SGMR	1	1543.3	1543.8	3.3	3.9	1.6		
	1415 SGMR	2	1543.7	1544	2.3	2.2	.9		
	2700 PENN	29	1544.4	1544.4	57	1.7	0.9		
	2695 BOUL	8	1544.5	1545	2	6.0	2.0		
11	1420 ARCE	20	0905.4	0933.9	65			1	
	260 ONDR	5	0934.5	0934.5	.5	25.0			
	7000 SAOP	1	1531.3	1532.6	2.4	4.6	2.3		
	18 MCMA	41	1606	1609	4				
	606 SGMR	4	1623.9	1624.1	1.9	18.2	5.4		
	410 SGMR	6	1623.8	1624.8	2.2	47.0	9.4		
	2800 OTTA	1	1624	1625	5	1.4	0.6		
	1415 SGMR	1	1624	1624.4	.9	2.9	.8		
	245 SGMR	49	1624	1624.6	5.3	282.2	56.4		
	2695 BOUL	3	1625	1626	2	3.0	1.0		
17	18 MCMA	6	1317	1319	3			1	
	18 MCMA	6	1328	1331	4				
	1420 BOUL	8	1734	1735.5	2.5	4.0	1.0		
13	930 BORD	40	1550	1550.9	2	27.0	1.0		
14	9400 TYKW	5	0217.3	0217.6	.7	20.0	7.0		
15	3750 TYKW	5	0558	0559	5	5.0	2.0	2	
	260 ONDR	41	0906	1015.5	320	25.0			
	18 MCMA	6	2126	2129	4				
16	200 HIRA	43	0240	0630	285 D	23.0	13.0	1	
	200 GORK	44	0600 E		83		5.0		
	100 GORK	44	0600 E		360 D		5.0		
	221 ABST	44	0700	0707	240	7.0			
	260 ONDR	41	0755	1148.5	369	25.0			
	245 SGMR	44	1140 E	1911.9	576 D	522.0			
	29 UPIC	45	1227.5	1230	3				
	18 MCMA	6	1612	1614	3				
	2695 PFNT	1	2131.5	2133	4	1.4	0.7		
	201 VORO	44	2300	2300	240		11.0		
17	200 HIRA	44	0010 E	0550	495 D	45.0	28.0		
	100 HIRA	45	0319.5	0320	1.5	350.0	150.0		
	100 HIRA	45	0520	0520.2	1	870.0	250.0		
	200 GORK	44	0600 E		139		5.0		
	100 GORK	44	0600 E		360 D		5.0		
	221 ARST	44	0700	0910.5	240	12.0			
	260 ONDR	44	0800	1129	357	180.0			
	200 GORK	44	1003		117 D		5.0		
	245 SGMR	44	1141 F	1304.9	574 D	184.0			
	200 GORK	6	0710.9	0711.1	.4	80.0	40.0		
	650 GORK	1	0711	0711.2	.3	.6			
	113 POTS	45	0711	0711.2	.4	850.0	130.0		
	100 GORK	6	0711	0711.30	.3	80.0			
	221 ABST	6	0812	0812.2	.8	35.0			
	207 IZMI	6	0813.5	0814.3	2.5	110.0	40.0		
	221 ARST		0910	0910.5	1.2	38.0	17.0		
	221 ARST	6	0950.2	0950.5	.5	38.0			
	237 TRST	45	1000.7	1000.7	.1	120.0	23.0		
	408 TRST	41	1138.6	1139.6	1.3	65.0			
	1470 BERL	1	1139	1139.5	1	5.0	1.5		
	950 GORK	3	1139.4	1139.7	.7	11.0	5.5		
	808 ONDR	45	1139	1139.5	1	70.0			
	650 GORK	3	1139.4	1139.6	.6	9.7	5.0		
	536 ONDR	45	1139	1139.5	1	35.0			
	510 POTS	45	1139.2	1139.2	1.30	15.0	2.0		
	237 TRST	41	1139.1	1139.4	.8	560.0			
	234 POTS	45	1139.2	1139.4	.4	140.0	10.0		
	200 GORK	6	1139.3	1139.4	.8				
	200 GORK		1139.3	1139.6					
	113 POTS	45	1139.1	1139.6	.7	1000.0	25.0		
	100 GORK	6	1139.2	1139.7	1.2	800.0			
	29 UPIC	45	1139.5		2.5				
	1470 BERL	1	1215	1217.4	5	2.4	1.0		
	536 ONDR	45	1215.5	1217	4.5	45.0			
	510 POTS	45	1215.5	1215.8	4 U	15.0	4.0		
	408 TRST	45	1216	1217.2	3.5	28.0	8.0		
	234 POTS	45	1307	1307.1	.1	100.0	25.0		
	2800 OTTA	1	1533	1535.5	5	1.4	0.7		
	2800 OTTA	1	1727.7	1729	4.5	1.4	0.7		

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NOV 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
1R	200 HIRA	44	2120 E	0355	615 U	45.0	28.0		
	201 VORO	44	2300	2317	240		44.0		
	9400 HUAN	20	2151.7	2205.0	24.4	12.6	6.3		
	606 MANI	40	0354.8	0355.7	4.7	8.2	3.6		
	8800 MANI	1	0355.7	0356.6	1.1	9.3	1.9		
	4995 MANI	1	0355.5	0356.6	5.1	10.1	4.0		
	3750 TYKW	5	0356	0356.5	3	6.0	1.0		
	2695 MANI	1	0356.2	0356.5	1.3	2.6	.9		
	2000 TYKW	5	0356	0356.5	2	7.0	1.5		
	1415 MANI	1	0356	0356.8	1.5	2.4	.5		
	1000 TYKW	5	0356	0356.7	2	.9	0.2		
	100 HIRA	45	0522.5	0522.8	1	550.0	100.0		
	200 GORK	44	0606		264		5.0		
	100 GORK	44	0606		264 D		5.0		
	221 ARST	44	0700	0946.8	240	16.0			
	207 IZMI	43	0700		300	70.0			
	260 ONDR	44	0745	0946.5	369	125.0			
	221 ABST		0814	0816.5	2.5	41.0	13.0		
	221 ABST	6	0927.5	0927.8	.5	47.0			
	221 ARST		0945.8	0946.8	2	49.0	16.0		
	237 TRST	45	0946.8	0946.9	.3	2100.0	620.0		
	234 POTS	45	0946.1	0946.9	1	750.0	35.0		
	1420 ARCE	20	0951.8	1022.8	82				
	221 ABST		1011.2	1012	1.2	35.0	12.0		
	234 POTS	40	1347.7	1348.7	1.1	100.0	3.0		
	2700 PFNN	45	1812.7	1813.2	4.2	39.4	3.3		
	2800 OTTA	25	2005	2115	70	2.2	1.1		
	2800 OTTA	20	2016	2024	16	1.2	0.6		
	2695 PFNT	24P	2115		60 D	2.2			
	200 HIRA	44	2120 E	2200	600 D	45.0	18.0		
	201 VORO	44	2300	0120	240		21.0		
	2695 PENT	1	2228.2	2229	2	2.6	1.3		
1a	1000 TYKW	45	0042	0049	20	4.0	1.5		
	1000 TYKW	5	0223	0226.4	10	3.0	1.0		
	100 GORK	44	0600 E		360 D		10.0		
	221 ABST	44	0700	0946.5	240	9.0			
	221 ABST		0700.8	0701	.5	47.0			
	207 IZMI	43	0700		300	160.0			
	260 ONDR	44	0750	0914	374	110.0			
	200 GORK	44	0839.8		87		10.0		
	221 ABST		0750.2	0750.8	1.5	43.0	18.0		
	3100 CRIM	1	0757	0759	10	4.0	1.0		
	221 ABST		0856.8	0858	2	44.0	26.0		
	221 ABST		0940.5	0946.5	9	44.0	22.0		
	536 ONDR	45	0941	1001.5	49	45.0			
	550 KIEV	24	0946		48	37.0			
	221 ARST		1004.2	1005	1.5	51.0	29.0		
	234 POTS	45	1018.3	1018.5	.3U	250.0	50.0		
	234 POTS	45	1144.3	1144.4	.2U	175.0	30.0		
	234 POTS	45	1204.2	1204.2	.6U	220.0	30.0		
	3000 BERL	22	1210	1240.8	110 D	11.0			
	1470 BERL	22	1220	1240.8	100 D	5.6			
	3100 CRIM	3	1223	1241	40 D	15.0			
	9500 BERL	20	1235	1245	45	5.0			
	234 POTS	45	1244	1244.3	.5U	175.0	18.0		
	2800 OTTA	20	1305	1350	195	5.6	2.8		
	234 POTS	45	1341.8	1342.7	2.4U	225.0	10.0		
	228 HARS	45	1342	1343	2.5	140.0	40.0		
	245 SGMR	44	1620 E	1723.9	233 D	88.2			
	2800 OTTA	27	1735		95	.8	0.7		
	2800 OTTA	24	1735	1740	5	.8	0.4		
	2800 OTTA	24P	1740		80	.8			
	2800 OTTA	26	1900	1910	10	- .8	-0.4		
	200 HIRA	44	2120 E	0625 U	600 D	35.0U	24.0		
	201 VORO	44	2300	0139	240		45.0		
2n	1000 TYKW	45	0134	0152.1	40	6.0	2.0		
	200 GORK	44	0603 E		110		5.0		
	221 ABST	43	0700	0706.2	36	7.0			
	260 ONDR	44	0747	1003	376	105.0			
	221 ABST	43	1013.2	1031.2	47	8.0			
	245 SGMR	44	1145 F	1252.3	567 D	78.0			
	536 ONDR	45	0922	0930	34	40.0			
	234 POTS	45	0953.3	0953.4	1.3U	120.0	30.0		
	207 IZMI	41	0954	0959	81	300.0			
	237 TRST	42	1248.9	1250	2.7	240.0			
	234 POTS	40	1249.5	1256.2	6.8U	270.0	10.0		
	234 POTS	40	1327.2	1328.7	1.5U	175.0	4.0		
	18 MCMA	41	1339	1341	2				1
	113 POTS	41	1422.2	1428.2	6.7	220.0	2.0		
	18 MCMA	6	2030	2033	5				1
21	200 HIRA	44	2120 E	2225	600 D	40.0	15.0		
	201 VORO	44	2300	0052	240		16.0		
	200 GORK	41	0634.3	0634.8	2	90.0			
	200 GORK		0634.3	0635.6		100.0			
	221 ARST	44	0700	0735.2	120	14.0			
	234 POTS	45	0743.8	0753.9	.2U	350.0	70.0		

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NOV 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
22	260 ONDR	44	0750	0829	360	55.0			
	245 SGMR	44	1146 E	1930	565 D	17.8			
	234 POTS	40	0806	0810.2	6 U	250.0	3.0		
	221 ABST		0815	0815.5	1	14.0			
	234 POTS	45	0833.7	0833.8	.2U	230.0	25.0		
	536 ONDR	45	0858	0915	21	40.0			
	550 KIEV	24	0917	0936	20.8	79.0			
	930 BORD	40	1541	1542.3	2	99.0	2.0		
	2695 PFNT	20	2030	2035	30	2.0	1.0		
	2695 PFNT	1	2040	2040.5	1	1.0	0.7		
	200 HIRA	44	2120 F	0405	600 D	25.0	14.0		
	201 VORO	44	2300	0136	240		24.0		
	200 GORK	44	0603 E		117		5.0		
	221 ABST	44	0700	0707.5	240	6.0			
	113 POTS	41	0740.5	0740.5	3.5	300.0	2.0		
	260 ONDR	44	0743	1011	382	55.0			
	245 SGMR	44	1148 E	1739.8	563 D	37.2			
	2800 OTTA	20	1345		15 D	1.0			
	2800 OTTA	20	1414	1425	19	2.2	1.4		
	2800 OTTA	27	1442		52	1.2	1.0		
	2800 OTTA	24	1442	1445	3	1.2	0.6		
	2800 OTTA	24P	1445		35	1.2			
	2800 OTTA	26	1520	1534	14	-1.2	-0.6		
	2800 OTTA	240	1540	1657	77	4.4	2.2		
	2800 OTTA	24P	1657		300 D	4.4			
23	200 HIRA	44	2120 E	2303	150 D	100.0	28.0		
	201 VORO	44	2300	2308	240		23.0		
	1000 TYKW	45	0340	0436.7	120	13.0	4.0		
	100 HIRA	43	0414	0522.8	186 D	500.0	20.0		
	100 HIRA	45	0415.5	0416.5	2.5	270.0	65.0		
	200 GORK	44	0600 E		240 D		8.0		
	100 GORK	44	0600 E		240 D		30.0		
	221 ABST	44	0700	0736.8	240	13.0			
	260 ONDR	44	0740	0949	395	60.0			
	221 ABST	44	0840.5	0845.8	10	26.0	9.0		
	245 SGMR	44	1149 E	1323.3	561 D	9.5			
	18 MCMA	41	1840	1843	8			1	
	18 MCMA	6	1906	1909	4			2	
	18 MCMA	41	1915	1920	5			2	
	18 MCMA	6	1953	1954	2			2	
24	18 MCMA	42	2030	2033	14			7	
	201 VORO	44	2300	2316	240		16.0		
	221 ABST	43	0700	0706.5	33	27.0			
	221 ABST		0705.5	0706.5	1	31.0			
	100 GORK	44	0715		300		5.0		
	260 ONDR	44	0720	1203.5	403	165.0			
	100 GORK	41	1049.9	1050	2.5	50.0			
	100 GORK		1049.9	1051.8		40.0			
	100 GORK	6	1116.7	1117	1	80.00			
	410 SGMR	44	1150 E	1409.8	560 D	32.8			
	245 SGMR	44	1150 E	1344.8	560 D	180.9			
	234 POTS	41	1202	1220	20 U	900.0	15.0		
	228 HARS	45	1218	1219.5	4	200.0	60.0		
	234 POTS	45	1330.7	1330.7	.3	500.0	80.0		
	234 POTS	41	1343.9	1345	7	700.0	5.0		
25	18 MCMA	6	1611	1613	2			1	
	18 MCMA	6	2031	2032	2			1	
	201 VORO	44	2300	2331	240		17.0		
	100 HIRA	45	0126.4	0126.7U	1	1000.00	400.00		
	260 ONDR	44	0753	1202	377	55.0			
	221 ABST		0906.8	0907	.5	31.0			
	237 TRST	42	0935.2	0938	7.5	54.0			
	221 ABST		0937.8	0938	.5	18.0			
	100 GORK	41	0719.7	0720.1	3.4	10.0			
	100 GORK		0719.7	0722 U		70.00			
	221 ABST		0720.8	0721.5	1	38.0			
	200 GORK	6	0721.3	0721.8	1	170.00			
	113 POTS	45	0721.6	0721.8	.6	600.0	100.0		
	260 ONDR	41	0750	0939.5	380	45.0			
	283 DWIN	44	1000 E	1318	310	175.0	7.0		
26	410 SGMR	44	1152 F	1240.8	133 D	11.2			
	245 SGMR	44	1152 E	1327.8	133 D	9.4			
	2700 PFNN	45	1807.8	1809.2	2	132.00			
	1420 BOUL	8	2117.5	2118.5	1.5	18.0	6.0		
	2695 PENT	8	2118.2	2118.7	.8	5.0	2.0		
	2695 BOUL	8	2118.5	2119.5	1	4.0	1.0		
	2695 PENT	8	2144.5	2144.5		1.2			
	1420 BOUL	8	2204.5	2205	1.5	42.0	15.0		
	2695 PENT	2	2205	2205.2	1	3.4	1.7		
	2695 BOUL	8	2205	2206	1.5	8.0	3.0		
	221 ABST		0808	0809.5	1.5	30.0	14.0		
	283 DWIN	44	0810 E		410	125.0	3.0		
	234 POTS	41	0811.8	0815.8	4.2	250.0	2.0		
	113 POTS	41	0811.8	0815.8	4.3	2100.0	40.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1974

NOV 1974	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
28	237 TRST	42	0812.7	0813.8	1.7	630.0			
	221 ABST		0812.8	0813.5	1.5	47.0			
	260 ONDR	41	0813	0814.5	337	75.0			
	245 SGMR	44	1154 E	1424.2	244.50	12.0			
	29 UPIC	45	0814	0814.5	1.5				
	29 UPIC	45	0922	0922	2.5				
	536 ONDR	45	0923	0923.5	1.5	35.0			
	237 TRST	45	1020	1020.2	.6	220.0	43.0		
	930 BORD	5	1405	1405.7	1	21.0	1.0		
	930 BORD	40	1412	1423.8	13	69.0	2.0		
	2700 PFNN	8	1455.9	1456	.3	20.2			
	283 DWIN	44	0750 E		450	50.0	5.0		
	260 ONDR	41	0800	1057	365	20.0			
	2000 TYKW	5	0156	0159.6	8	4.0	1.0		
	3750 TYKW	5	0157	0200	7	1.0	0.50		
29	283 DWIN	44	0745 F		455	100.0	5.0		
	260 ONDR	41	0800	1203.5	360	20.0			
	3100 CRIM	1	0923	0924	3	2.0	1.0		
	3100 CRIM	45	0936	0939	12	2.5	1.0		
	3100 CRIM		0936	0946		2.0			
	3100 CRIM		1009	1011	4	2.5	1.0		
	283 DWIN	45	1357	1359	2	30.0	5.0		
	18 MCMA	6	1549	1552	3				
	237 TRST	42	1331.4	1332.3	1.5	67.0	27.0		
	29 UPIC	45	1346	1346.5	1				

Observatories:

ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BERN = Berne
BORD = Bordeaux
BOUL = Boulder

CANR = Canary Islands
CRIM = Simferopol
CRON = Carnarvon
DWIN = Dwingeloo
GORK = Gorky

HIRA = Hiraio
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow IZMIRAN
KIEV = Kiev
KISV = Kislovodsk

MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa ARO
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam

SAOP = Sao Paulo
SGMR = Sagamore Hill
SLOU = Slough
TRST = Trieste
TYKW = Toyokawa
UPIC = Upice
VORO = Voroshilov

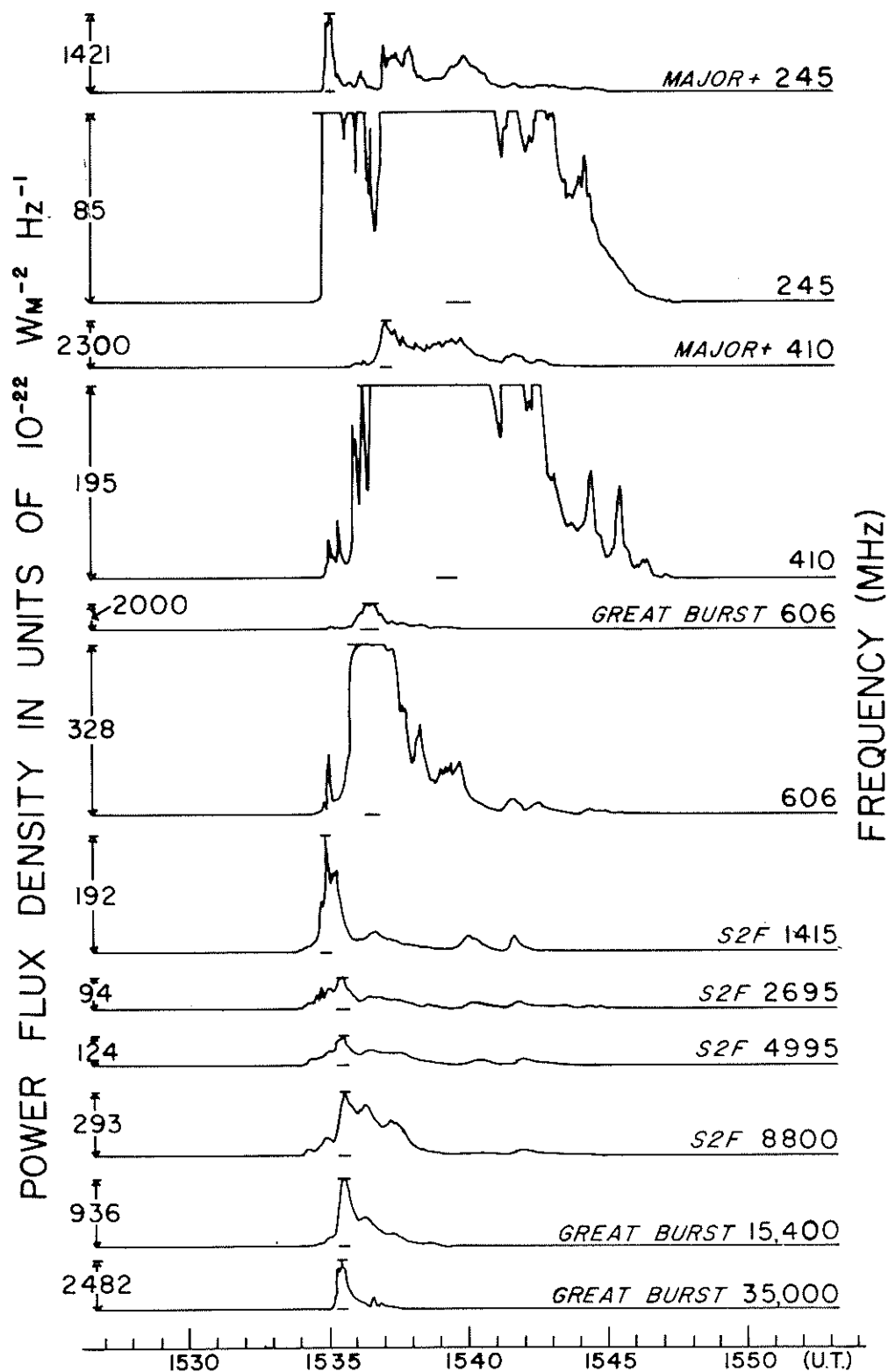
Explanation of Type Code:

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

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Nov 74

SELECTED SOLAR NOISE BURST

5 NOVEMBER, 1974



RADIO BURST OBSERVED 5 NOVEMBER, 1974
SAGAMORE HILL RADIO OBSERVATORY, HAMILTON, MASS.

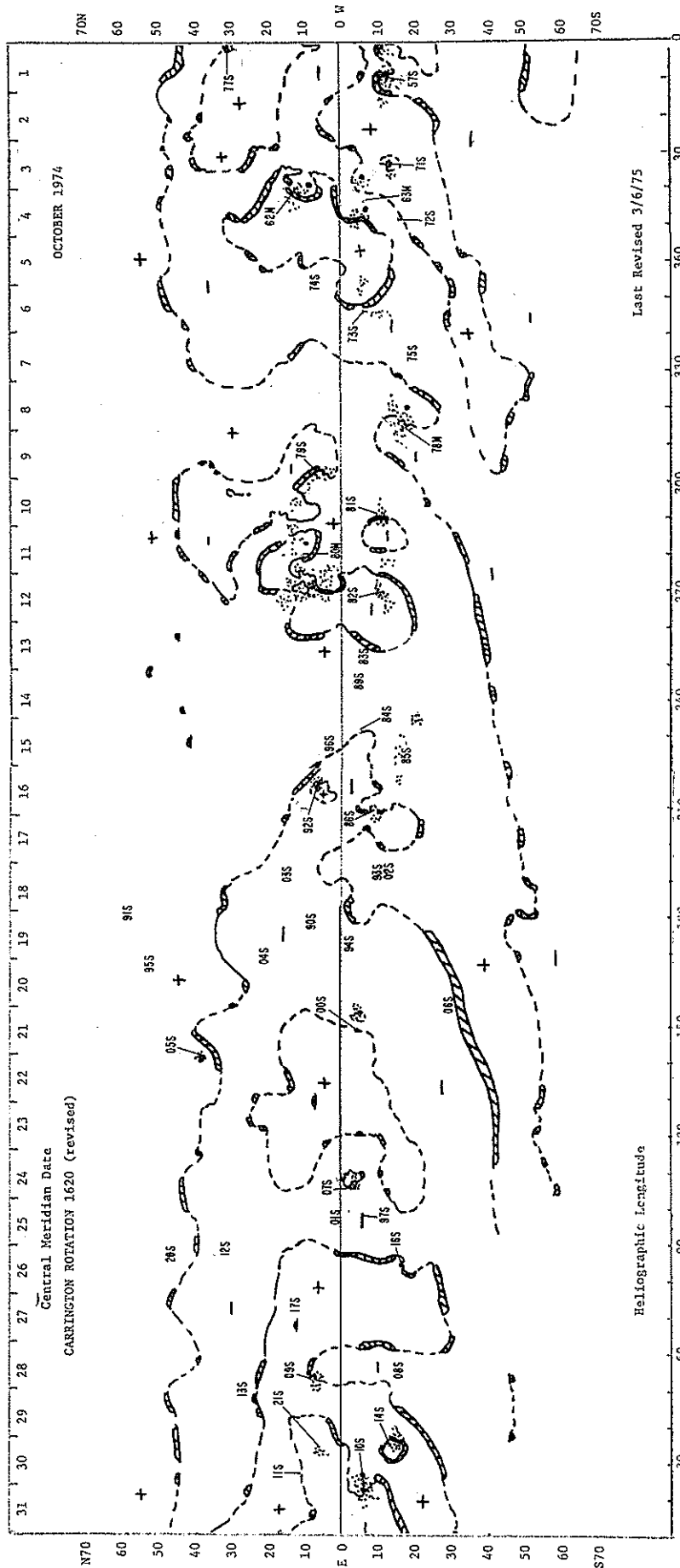
OCTOBER 1974 DATA

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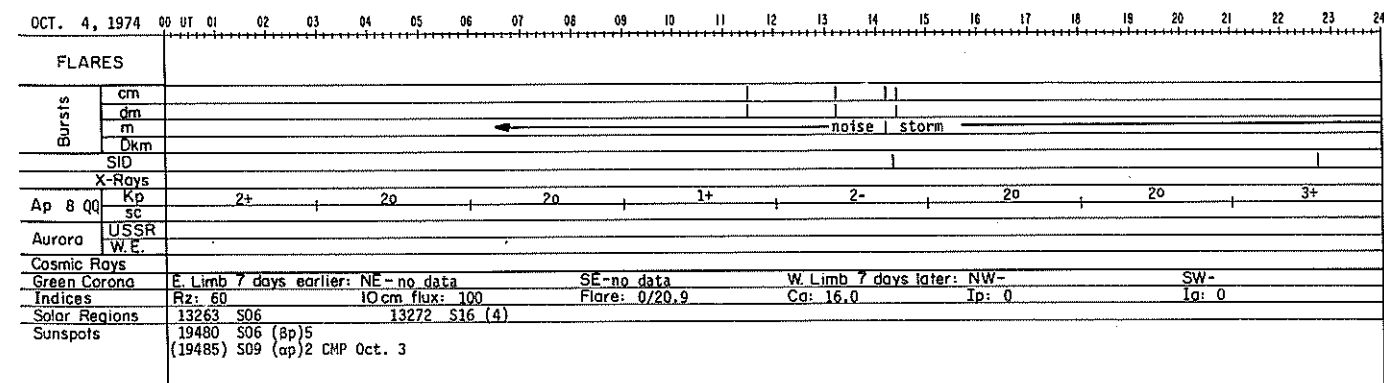
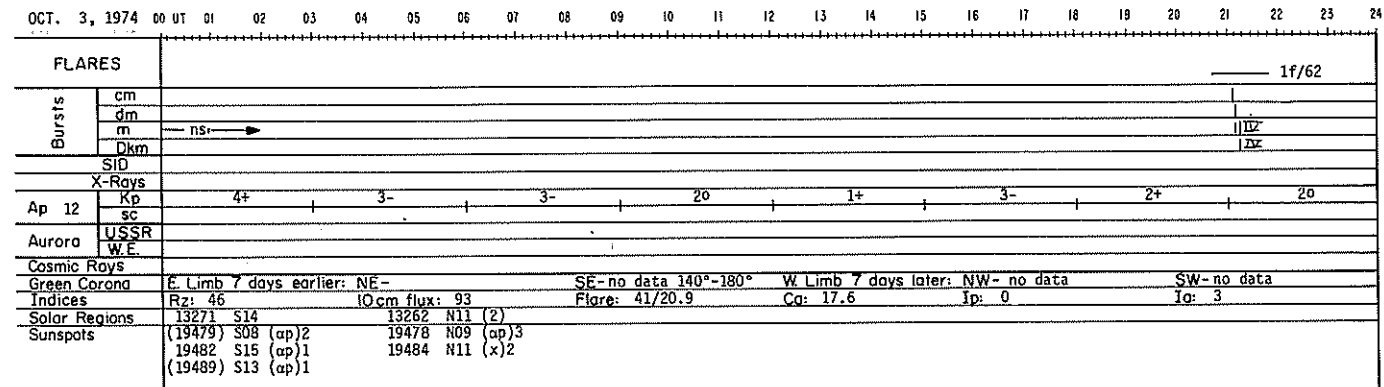
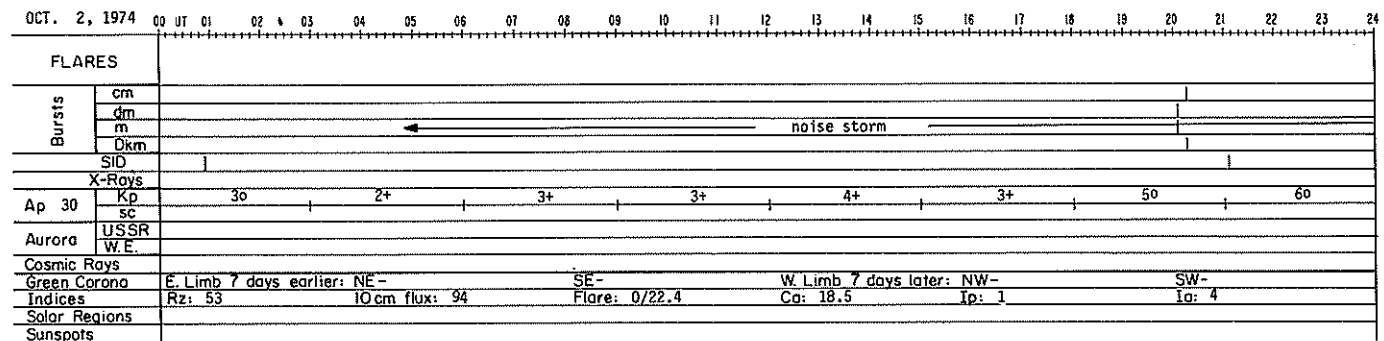
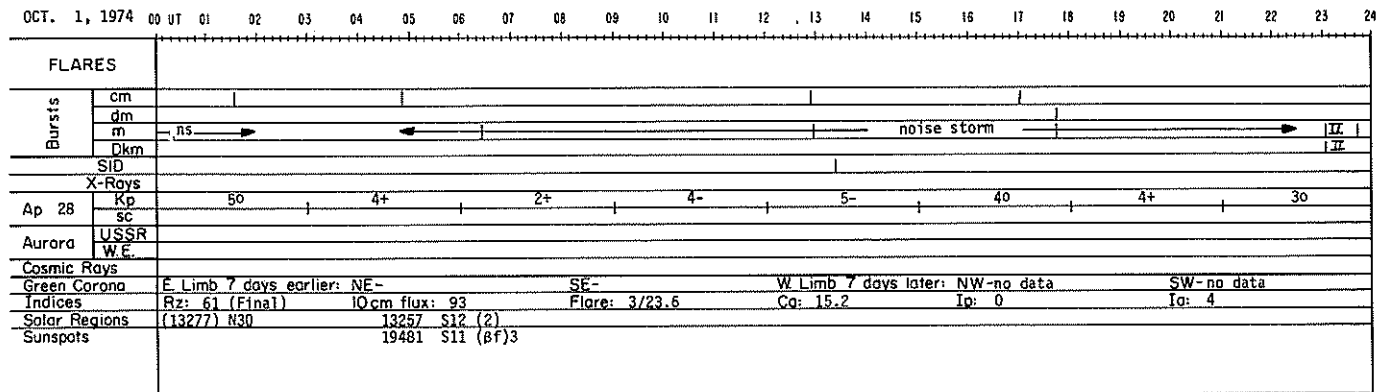
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ABBREVIATED CALENDAR RECORD

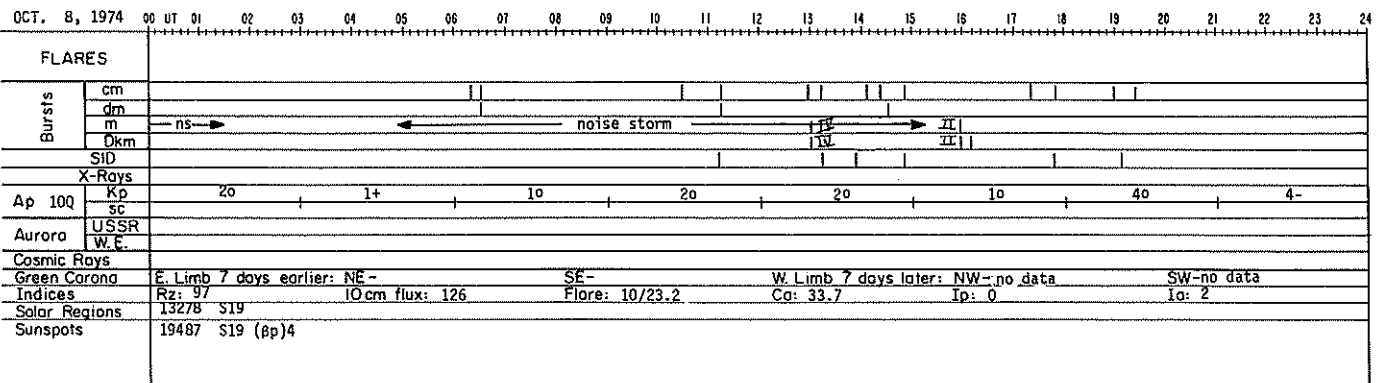
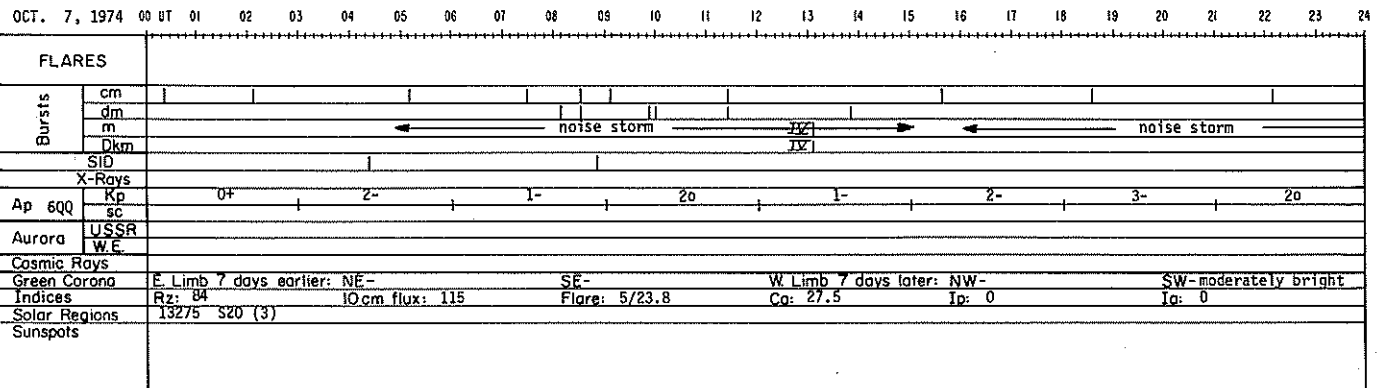
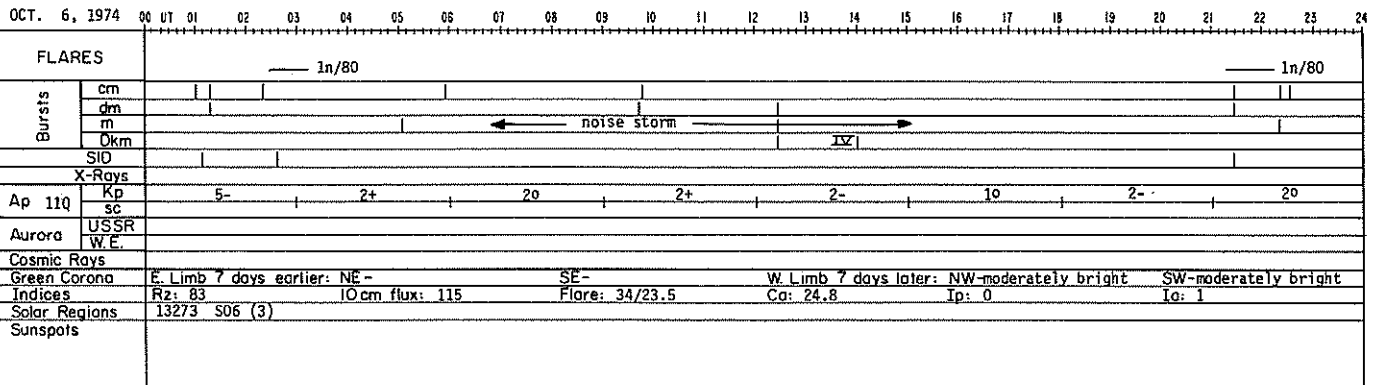
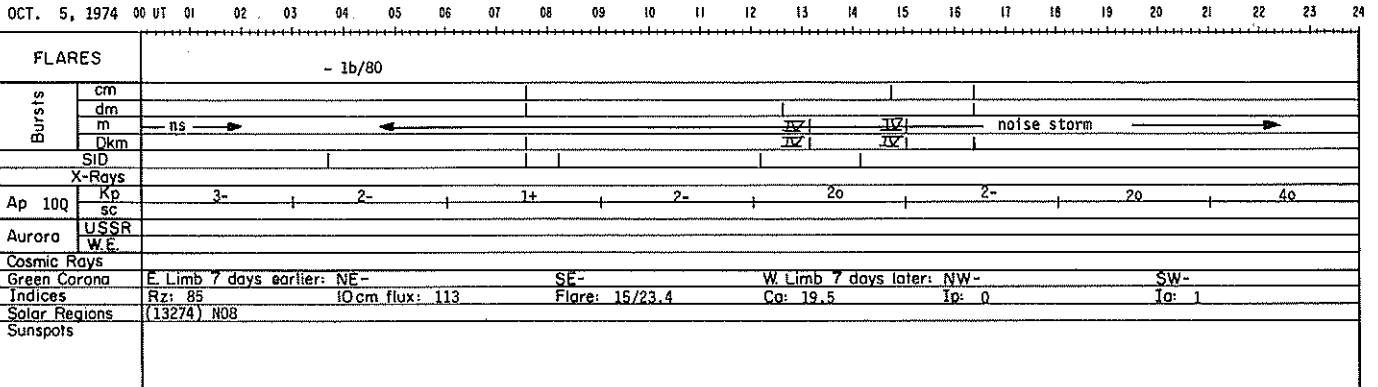
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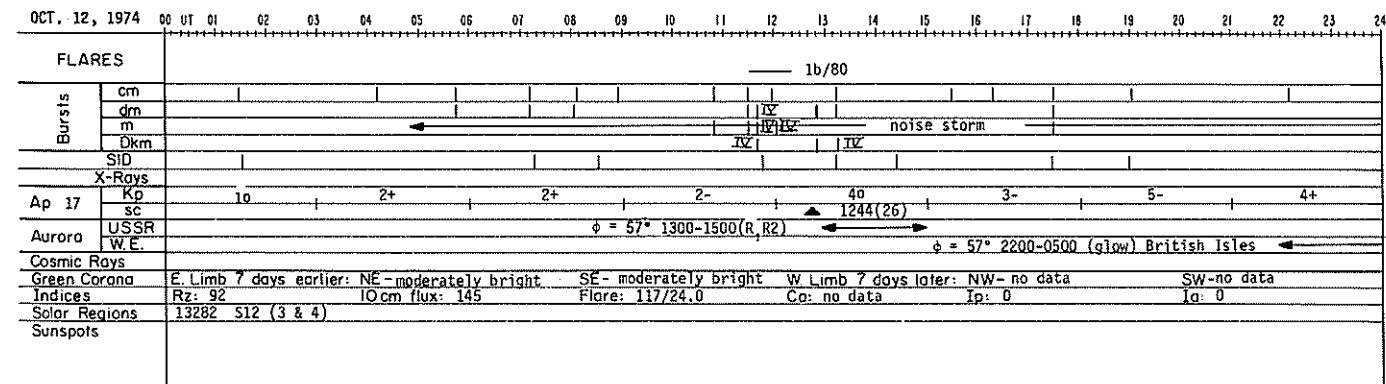
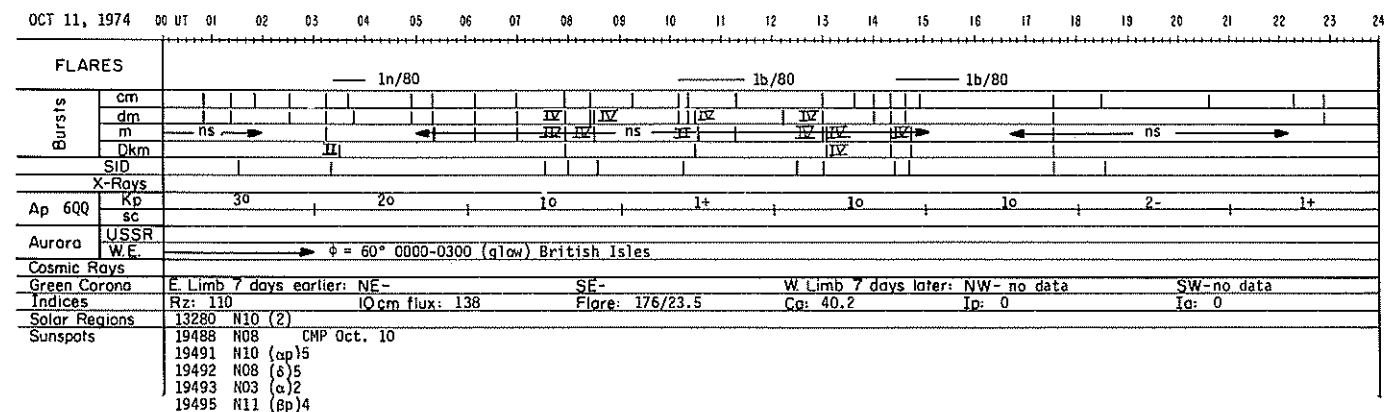
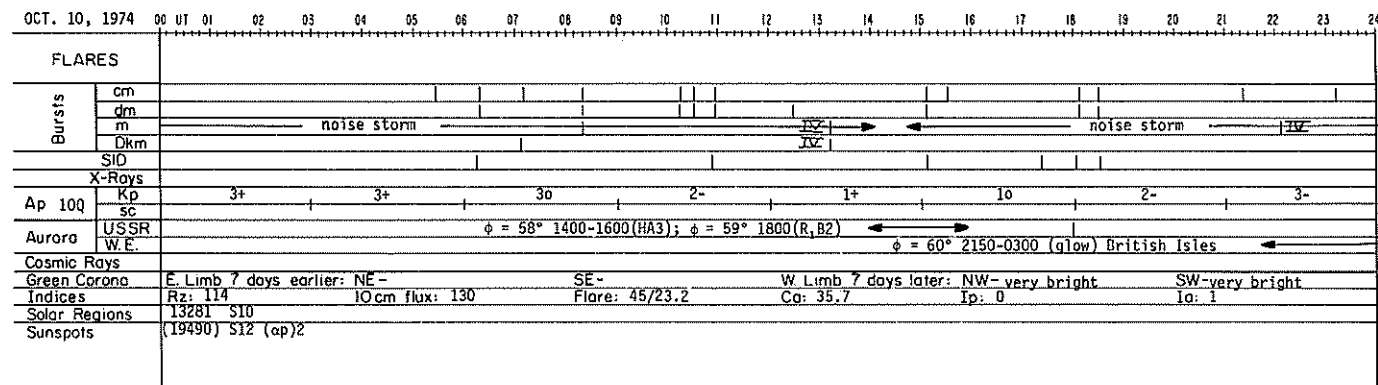
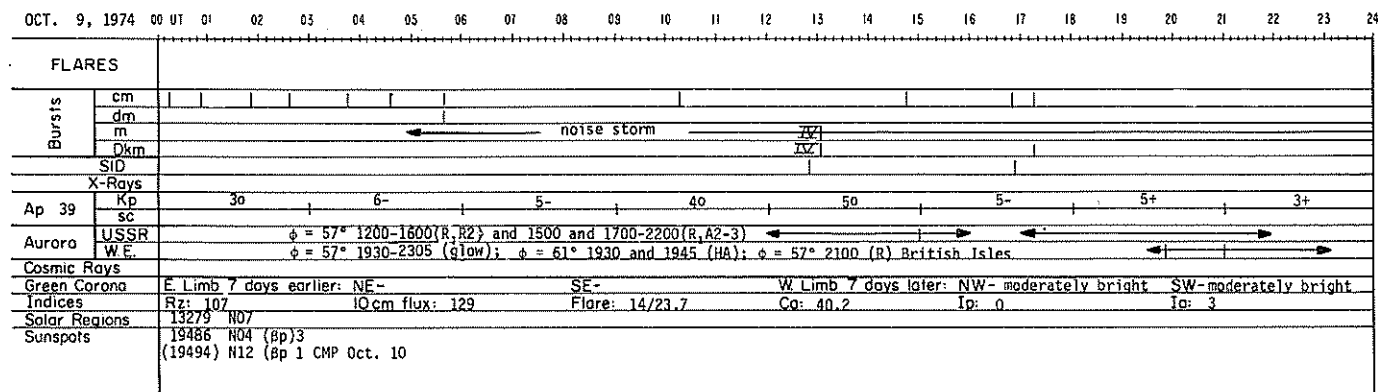
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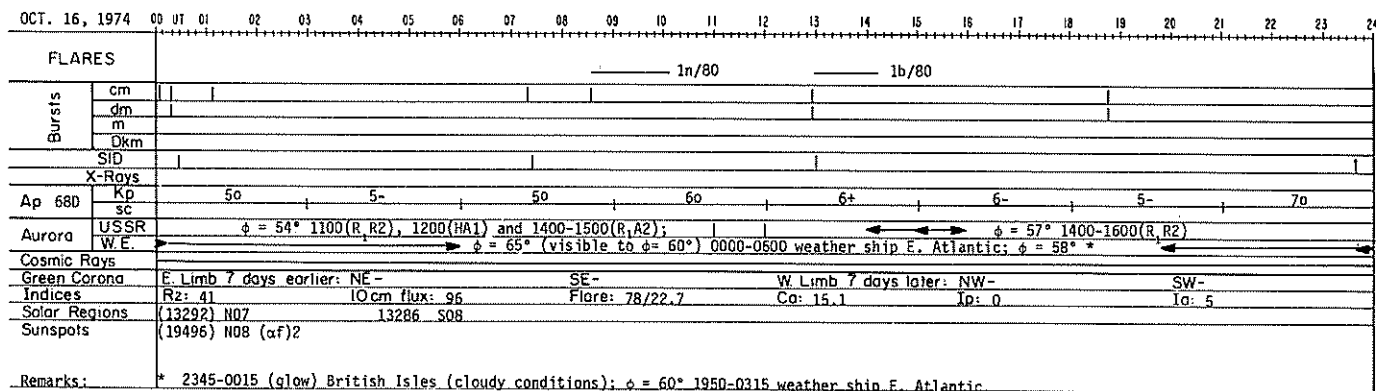
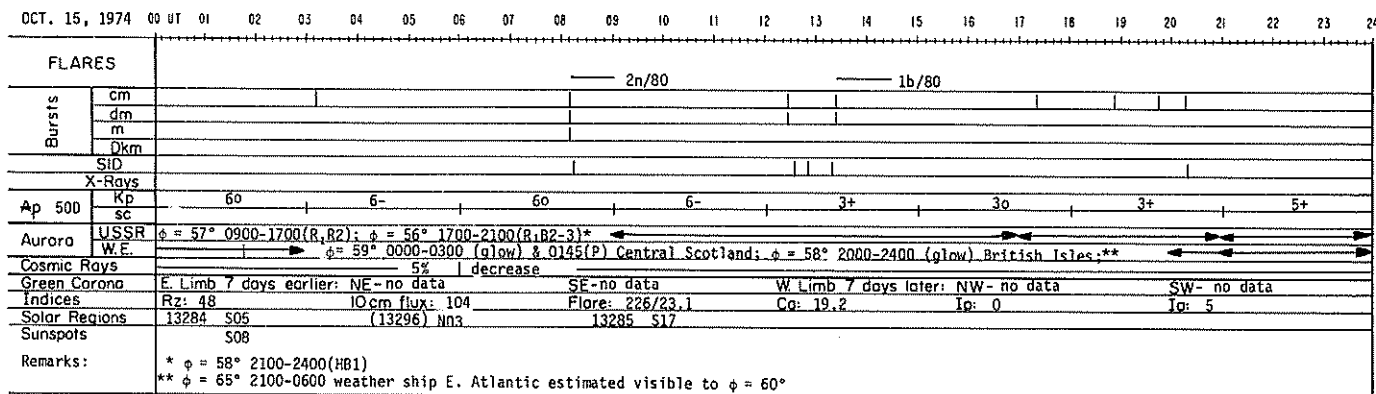
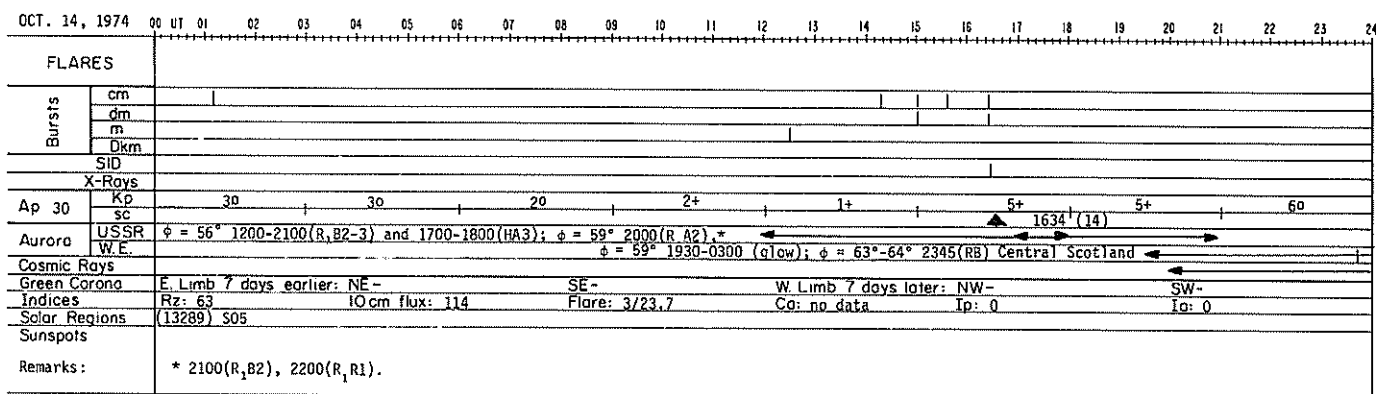
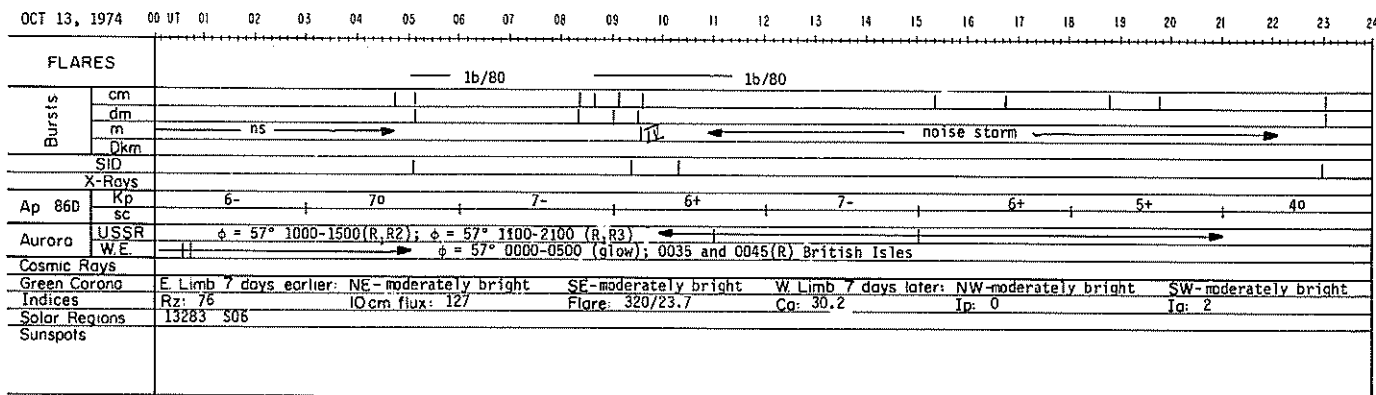


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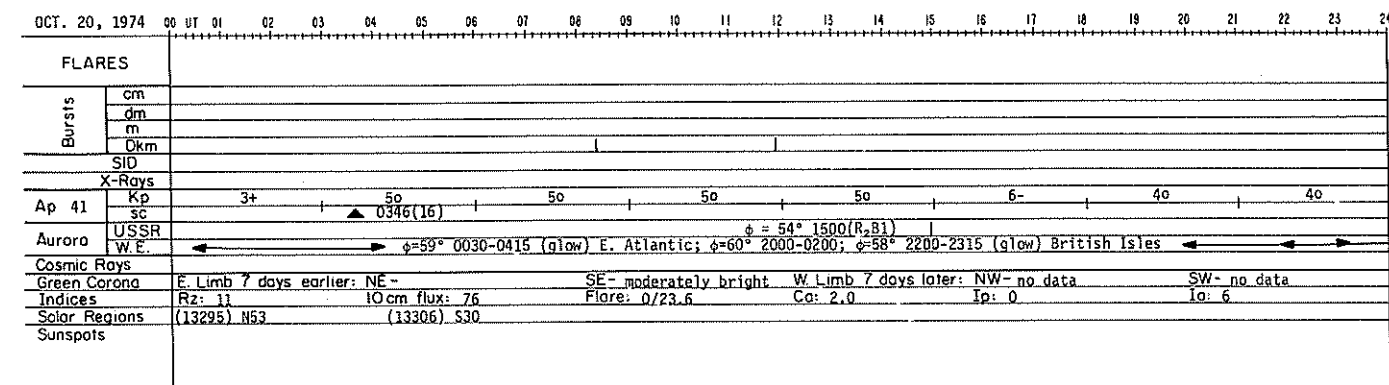
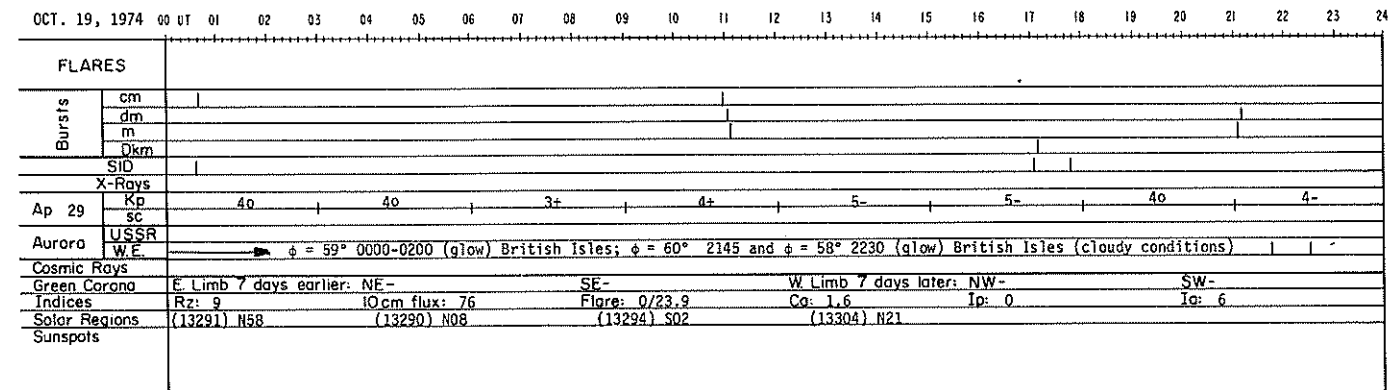
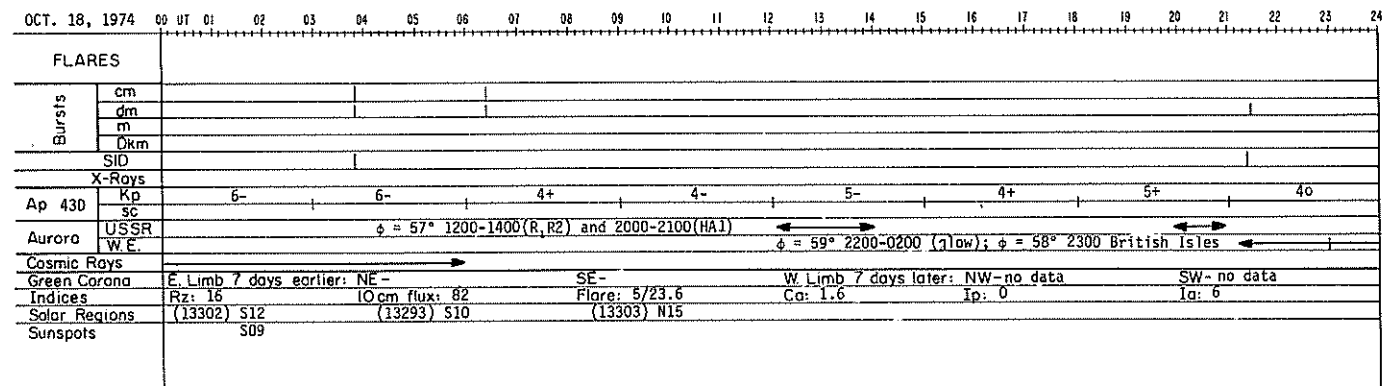
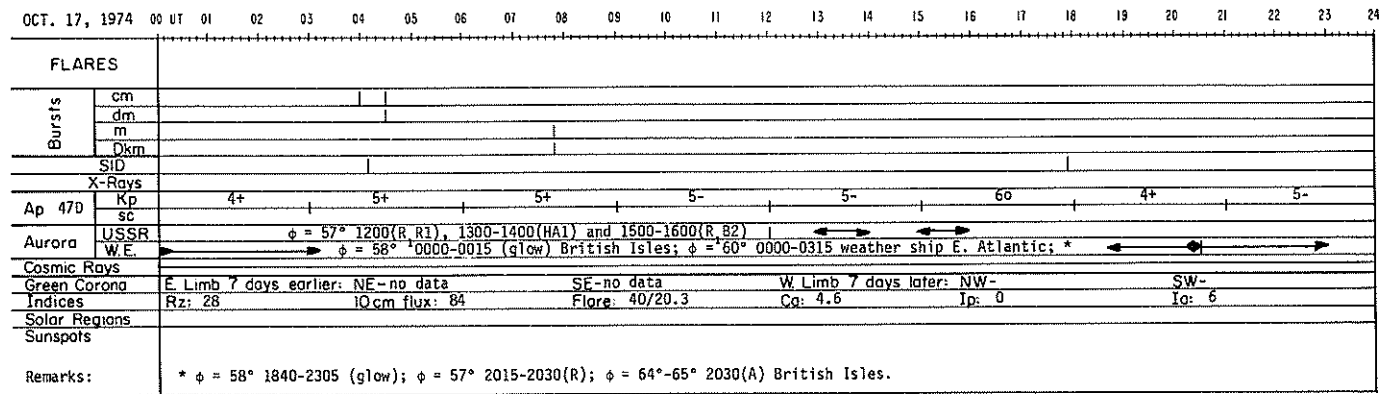


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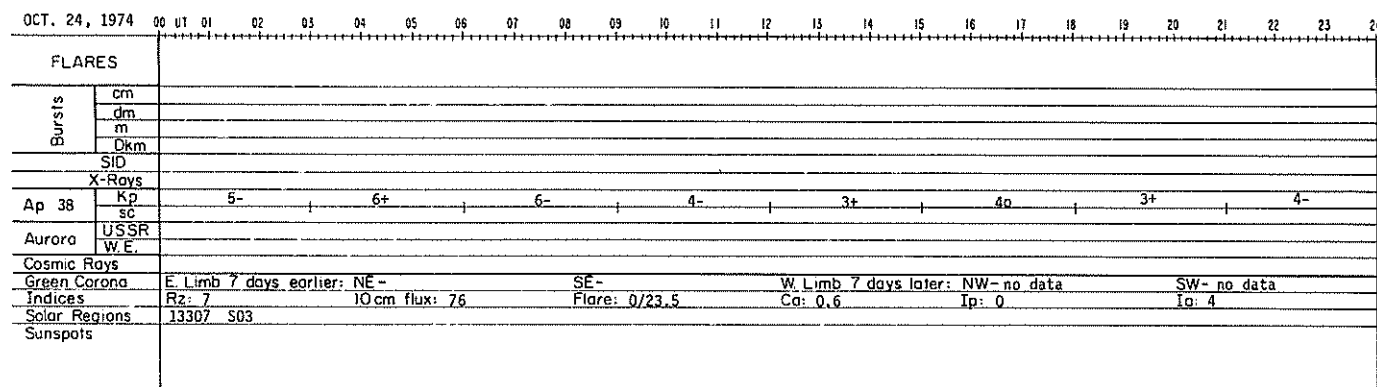
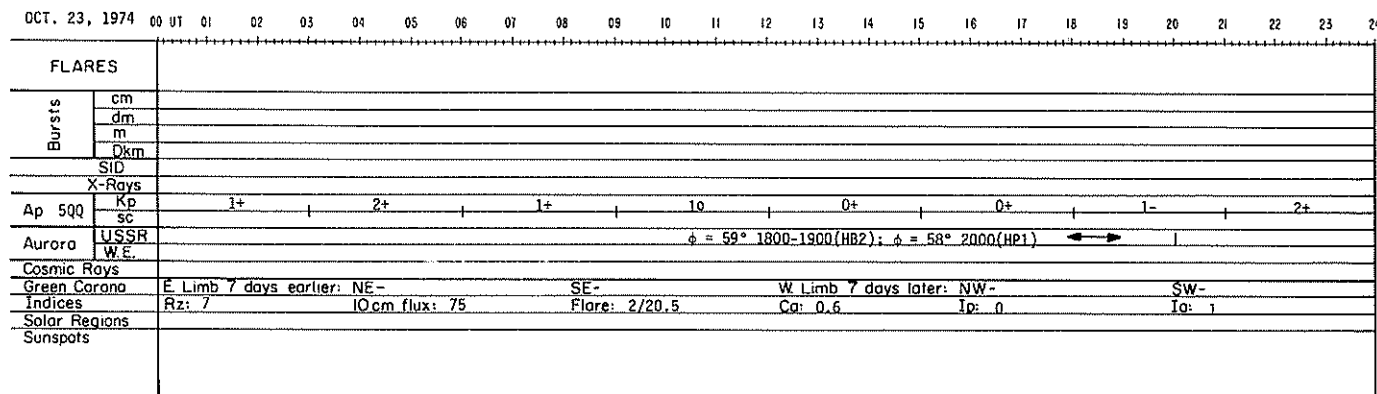
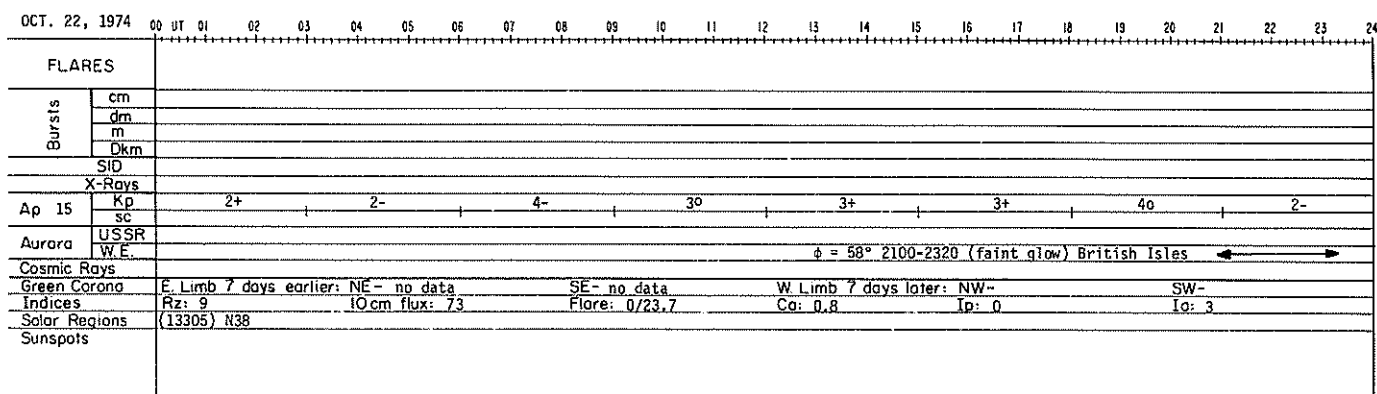
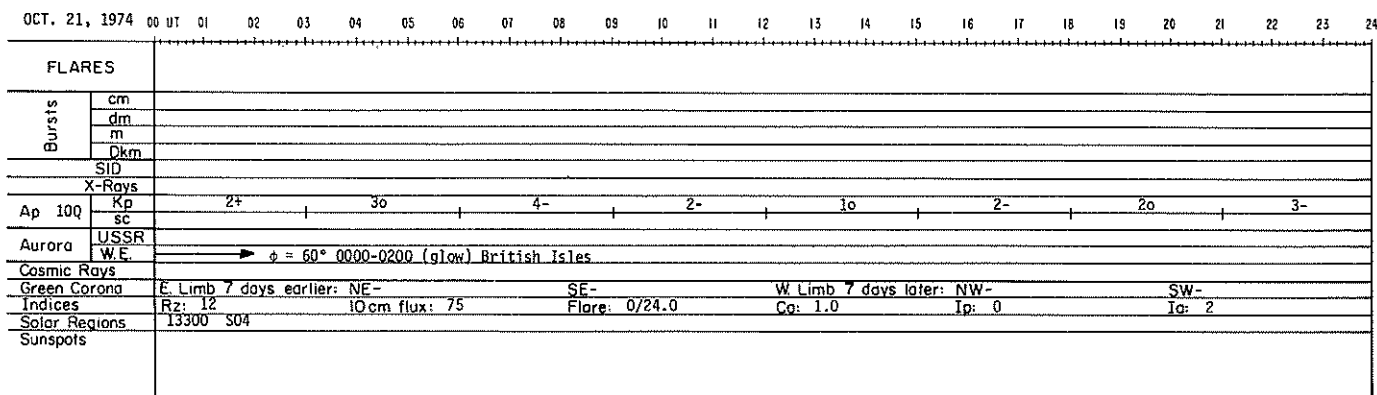


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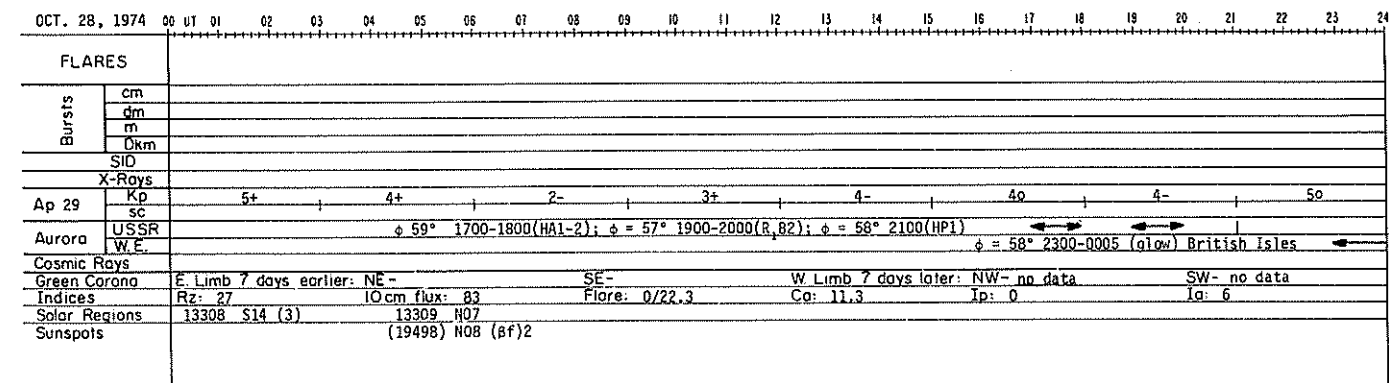
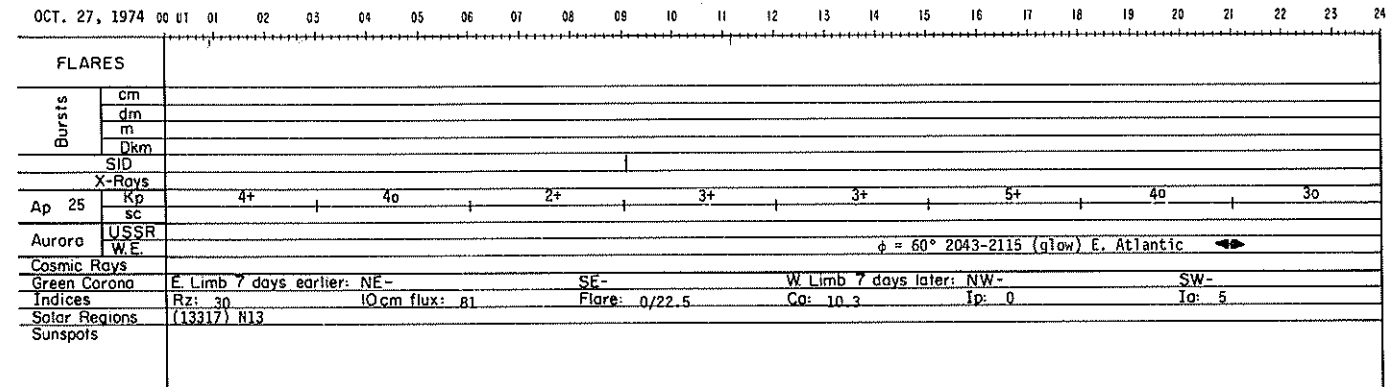
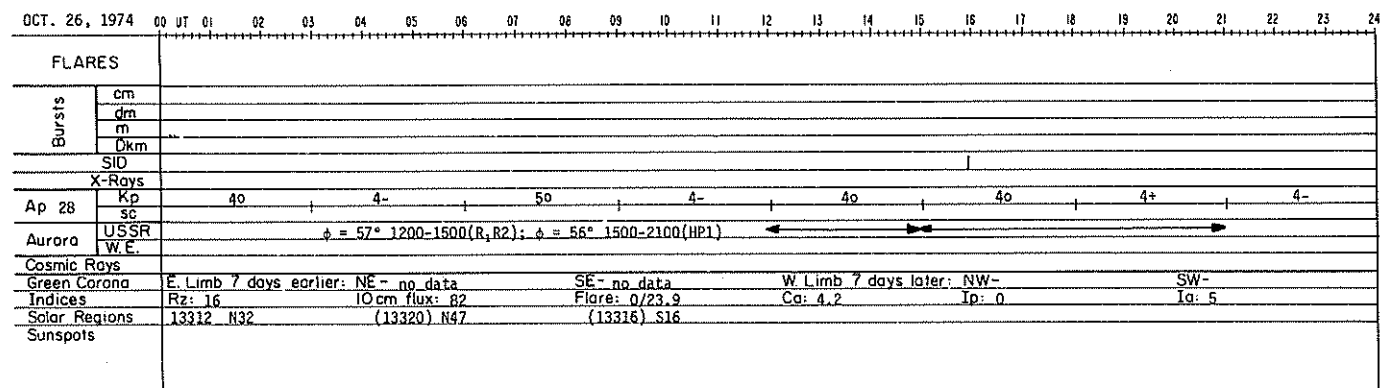
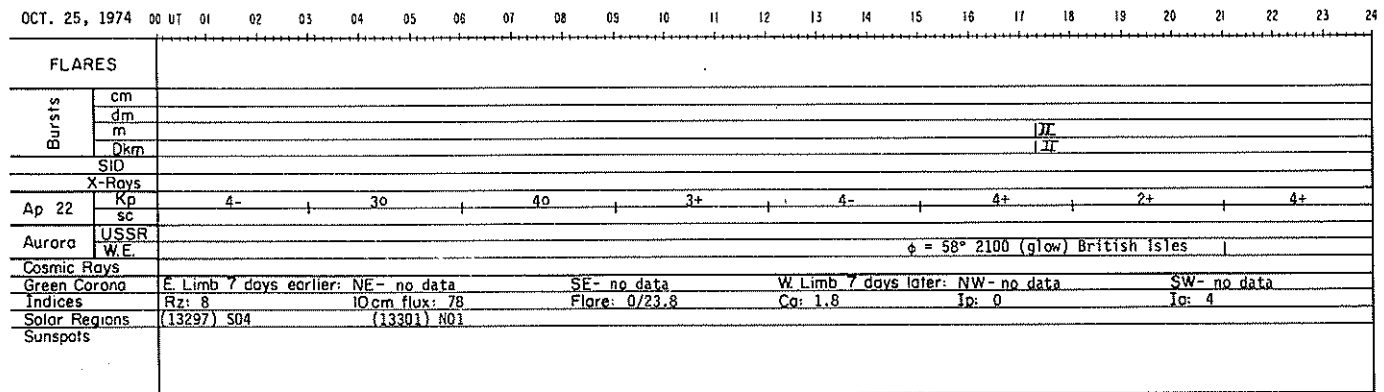
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Oct 74



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Oct 74



OCT. 29, 1974 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

OCT. 30, 1974 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

OCT. 31, 1974 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 80Q	Kp sc	30		2+		10		10		0+		2-		3-		2+	
Aurora	USSR W.E.																
Cosmic Rays																	
Green Corona	E Limb ? days earlier: NE- SE- moderately bright W Limb ? days later: NW- no data SW- no data																
Indices	Rz: 16 IQcm flux: 88 Flare: 2/21.0 Cq: 8.6 Ip: 0 Ig: 0																
Solar Regions	13310 S07 (2)																
Sunspots	19497 S06 (op) 4 CMP Oct. 30 (19500) S10 (19507) S10 (sp 2 CMP Oct. 30																

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Oct 74

REGIONAL FLARE INDEX

OCTOBER 1974

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
13257	S12	74/10/01.5	74/09/29	74/09/29	4.82	4.82	1
13262	N10	74/10/03.9	74/10/03	74/10/03	40.83	40.83	1
13263	S 6	74/10/04.1	74/09/29	74/10/05	51.41	7.34	8
13279	N 7	74/10/09.9	74/10/05	74/10/10	18.46	3.08	3
13280	N10	74/10/11.5	74/10/05	74/10/18	1065.64	76.12	51
13302	S12	74/10/18.1	74/10/23	74/10/23	1.87	1.87	1
13314	S14	74/10/30.1	74/11/01	74/11/01	31.94	31.94	1
13310	S 7	74/10/31.0	74/11/05	74/11/06	19.41	9.70	6

Note:

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

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

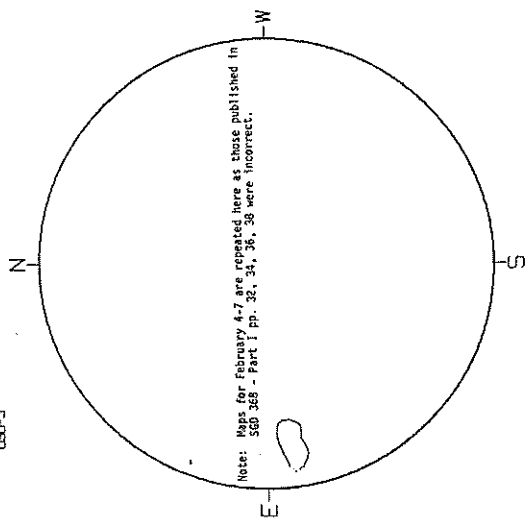
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04 FEBRUARY 1975
UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
GEO-S

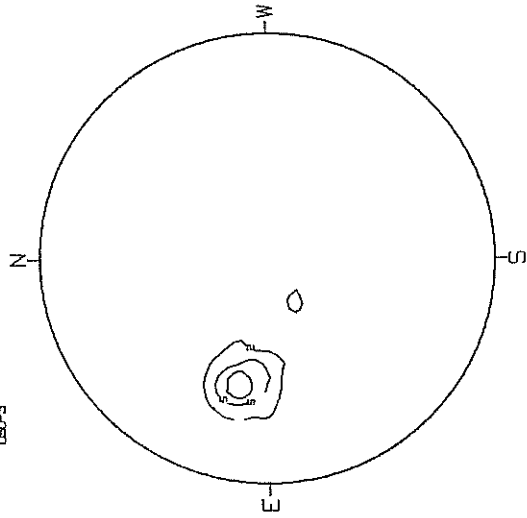
9.6-11.1 Å X-RAYS



0129-0229 UT
RES = 2 ARC MIN
UNIT = 10^{-6} ERG/CM²/SEC

07 FEBRUARY 1975
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LEICESTER UNIVERSITY
GEO-S

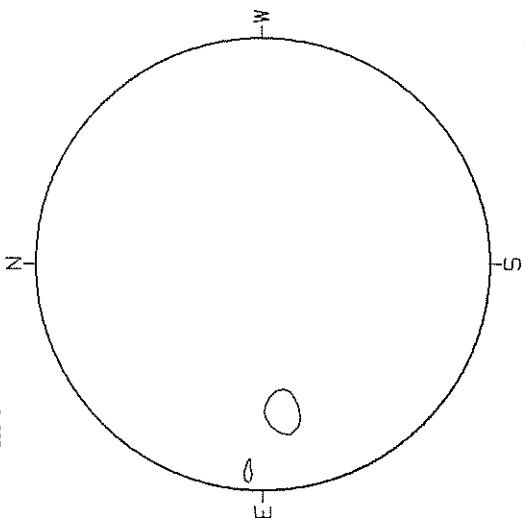
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0229-0331 UT
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LEICESTER UNIVERSITY
GEO-S

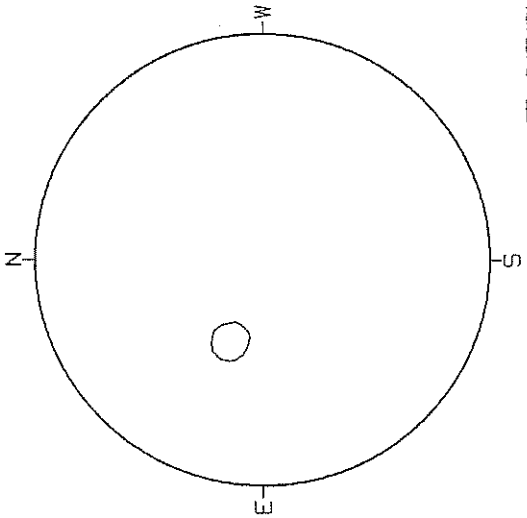
9.6-11.1 Å X-RAYS



0253-0354 UT
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UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
GEO-S

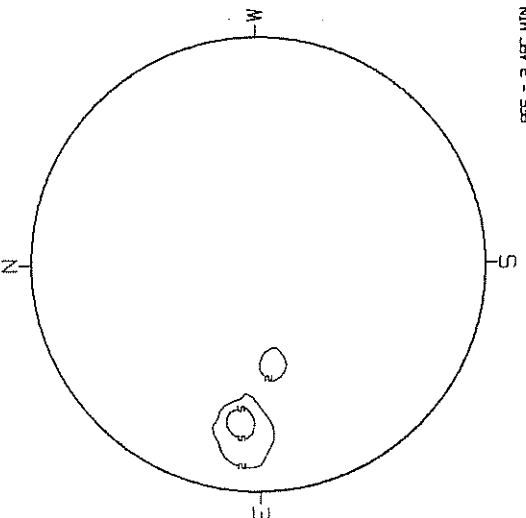
9.6-11.1 Å X-RAYS



0229-0300 UT
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UNIT = 10^{-6} ERG/CM²/SEC

06 FEBRUARY 1975
UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
GEO-S

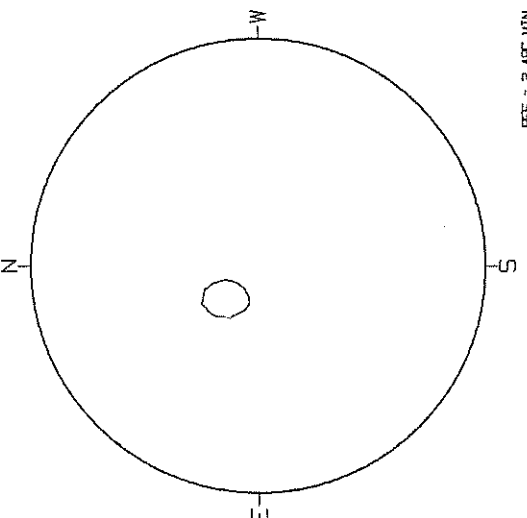
9.6-11.1 Å X-RAYS



0245-0349 UT
RES = 2 ARC MIN
UNIT = 10^{-6} ERG/CM²/SEC

09 FEBRUARY 1975
UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
GEO-S

9.6-11.1 Å X-RAYS

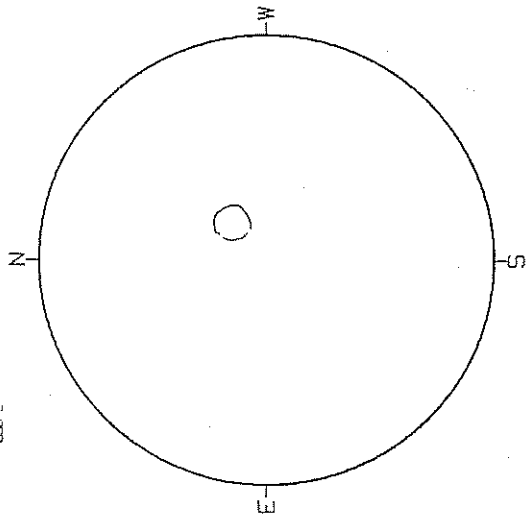


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RES = 2 ARC MIN
UNIT = 10^{-6} ERG/CM²/SEC

10 FEBRUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
023-5

9.5-11.1 Å X-RAYS



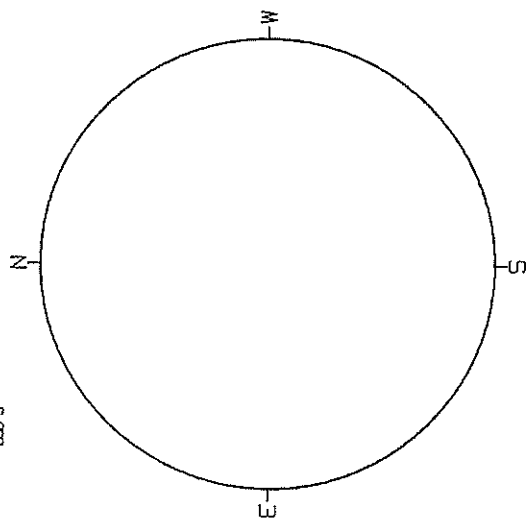
0233-0248 UT

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UNIT = 10^{-6} ERG/CM²/SEC

13 FEBRUARY 1975

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LEICESTER UNIVERSITY
020-5

9.5-11.1 Å X-RAYS



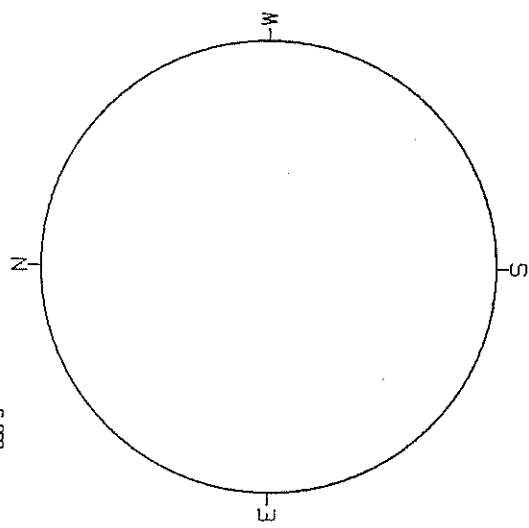
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UNIT = 10^{-6} ERG/CM²/SEC

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020-5

9.5-11.1 Å X-RAYS



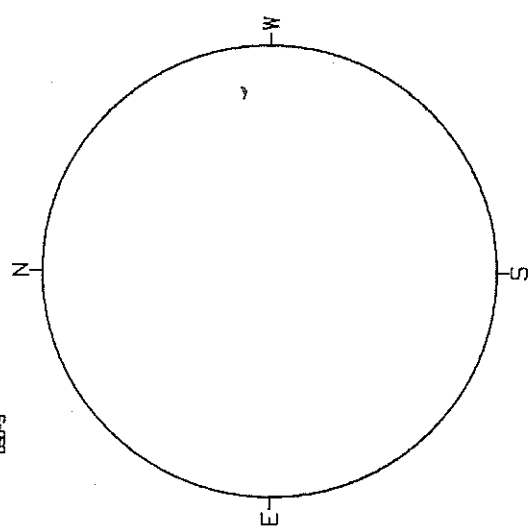
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LEICESTER UNIVERSITY
020-5

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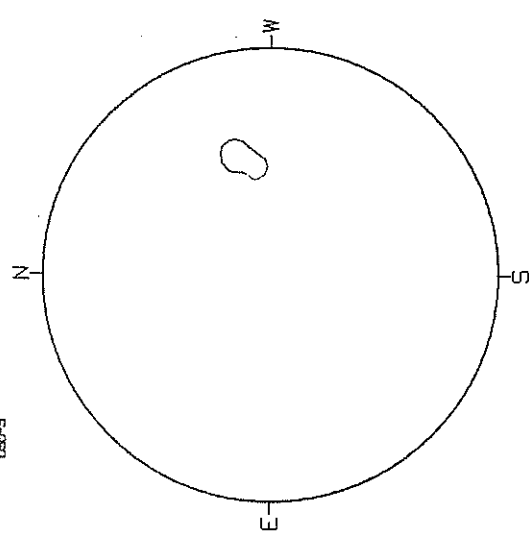
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12 FEBRUARY 1975

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LEICESTER UNIVERSITY
029-5

9.5-11.1 Å X-RAYS



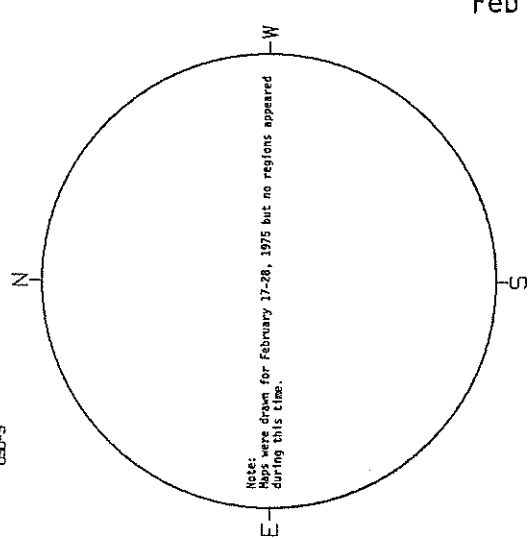
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UNIT = 10^{-6} ERG/CM²/SEC

15 FEBRUARY 1975

UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
020-5

9.5-11.1 Å X-RAYS



0213-0241 UT

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UNIT = 10^{-6} ERG/CM²/SEC

Notes:
Maps were drawn for February 17-28, 1975 but no regions appeared during this time.

UAG Series of Reports

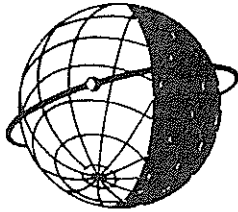
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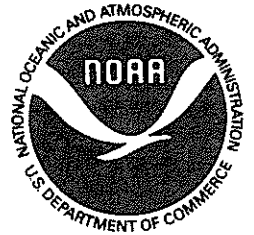
- UAG-32 "Synoptic Radio Maps of the Sun at 3.3 mm for the Years 1967-1969", by Earle B. Mayfield and Kennon P. White III, San Fernando Observatory, Space Physics Laboratory and Fred I. Shimabukuro, Electronics Research Laboratory, Laboratory Operations, The Aerospace Corporation, El Segundo, California, 90245, April 1974, 26 pages, price 35 cents.
- UAG-33 "Auroral Electrojet Magnetic Activity Indices AE(10) for 1967", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, May 1974, 142 pages, price 75 cents.
- UAG-34 "Absorption Data for the IGY/IGC and IQSY", compiled and edited by A. H. Shapley, National Geophysical and Solar-Terrestrial Data Center, NOAA, Boulder, Colorado, U.S.A., W. R. Piggott, Science Research Council, Slough, U.K., and K. Rawer, Arbeitsgruppe für Physikalische Weltraumforschung, Freiburg, G.F.R., June 1974, 381 pages, price \$2.00.
- UAG-35 "Catalogue of Digital Geomagnetic Variation Data at World Data Center A for Solar-Terrestrial Physics", prepared by Environmental Data Service, NOAA, Boulder, Colorado, July 1974, 20 pages, price 20 cents.
- UAG-36 "An Atlas of Extreme Ultraviolet Flashes of Solar Flares Observed Via Sudden Frequency Deviations During the ATM-SKYLAB Missions", by R. F. Donnelly and E. L. Berger, NOAA Space Environment Laboratory, Lt. J. D. Busman, NOAA Commissioned Corps, B. Henson, NASA Marshall Space Flight Center, T. B. Jones, University of Leicester, UK, G. M. Lerfald, NOAA Wave Propagation Laboratory, K. Najita, University of Hawaii, W. M. Retallack, NOAA Space Environment Laboratory, and W. J. Wagner, Sacramento Peak Observatory, October 1974, 95 pages, price 55 cents.
- UAG-37 "Auroral Electrojet Magnetic Activity Indices AE(10) for 1966", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, December 1974, 142 pages, price 75 cents.
- UAG-38 "Master Station List for Solar-Terrestrial Physics Data at WDC-A for Solar-Terrestrial Physics", by R. W. Buhmann, World Data Center A for Solar-Terrestrial Physics, Juan D. Roederer, University of Denver, Denver, Colorado, M. A. Shea and D. F. Smart, A.F.C.R.L., Hanscom AFB, Massachusetts, December 1974, 110 pages, price \$1.60.
- UAG-39 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1971", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, February 1975, 144 pages, price \$2.05.
- UAG-40 "H-Alpha Synoptic Charts of Solar Activity For the Period of Skylab Observations, May, 1973-March, 1974", by Patrick S. McIntosh, NOAA Environmental Research Laboratory, February 1975, 32 pages, price 56 cents.
- UAG-41 "H-Alpha Synoptic Charts of Solar Activity During the First Year of Solar Cycle 20 October, 1964 - August, 1965", by Patrick S. McIntosh, NOAA Environmental Research Laboratory, and Jerome T. Nolte, American Science and Engineering, Cambridge, Massachusetts, March 1975, 25 pages, price 48 cents.
- UAG-42 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-80 MHz 10 December 1971 through 21 March 1975", by James W. Warwick, George A. Dulk, and Anthony C. Riddle, Department of Astro-Geophysics, University of Colorado, Boulder, Colorado 80302, April 1975, 49 pages, price \$1.15.
- UAG-43 "Catalog of Observation Times of Ground-Based Skylab-Coordinated Solar Observing Programs", compiled by Helen E. Coffey, World Data Center A for Solar-Terrestrial Physics, May 1975, 159 pages.



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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."