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Solar - Geophysical Data

NO. 357

MAY 1974

Part II (Comprehensive Reports)

DATA FOR
NOVEMBER 1973
OCTOBER 1973
& MISCELLANEA

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

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SOLAR - GEOPHYSICAL DATA

No. 357

Issued in two parts

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Solar - Terrestrial Data Services Division

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

NOVEMBER 1973

OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE NOV	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc		MAX. INT. %
021 CRON	01	0241E	0304	0245	N22	W03	.306	12590	31.9	23D	-N						2	
022 MANI	01	0328E	0332D	0330	N20	W07	.293	12590	31.6	4D	--N	1	0330	.62	.65		U 2	
GRP50023	01	0740	0807	0745	S15	W58	.871	12584	28.0	27	-N			.59			2 2 2 5	
CRON	01	0739E	0758	0745	S12	W56	.848	12584	28.1	19D	-N			.60				
CATA	01	0740	0815	0745	S18	W59	.885	12584	27.9	35	-N	1	0745	.58	1.19	(182)		
025 MCMA	01	1716	1721D	1718	S18	W66	.932	12584	27.8	5D	--F	C	1718	.31	.80		0 3	
GRP50026	01	1915	2007	1935	S18	W66	.932	12584	27.9	52	-N			.51			3 2 2 3	
BOUL	01	1915E	2052D	1918	S16	W64	.917	12584	28.0	97D	-F	V	1918		1.90			
RAMY	01	1925	2007D	1952	S18	W65	.926	12584	27.9	42D	-N	3	C	.65			U	
RAMY	01	1925	2007D	1930	S18	W65	.926	12584	27.9	42D	-N	3	C	1.02			U	
MCMA	01	1932E	1956D		S18	W67	.938	12584	27.8	24D	-N	C	1950	.36	1.20		E	
	01	2108	2238		NO FLARE PATROL													
	02	0600	0620		NO FLARE PATROL													
	02	0626	0630		NO FLARE PATROL													
029 CANR	02	1223E	1231	1225	S13	W60	.883	12584	29.0	8D	--F	V	1231	.83	1.50		3	
	02	1913	1947		NO FLARE PATROL													
	02	1956	2128		NO FLARE PATROL													
GRP50030	03	0012	0101	0034	S18	W85	.998	12584	27.6	49	2N			1.63			3 3 3 3	
VORO	03	0012	0025	0017	S26	W88	1.000	12584	27.4	13	1N	C	0017	.56	3.78		61 EG	
VORO	03	0013	0049D	0032	S18	W89	1.000	12584	27.3	36D	2F	C	0032	1.75	11.88		71 EK	
MANI	03	0014E	0100	0034U	S13	W82	.993	12584	27.9	46D	2B	C	0034	2.58	6.90		F	
MANI	03	0014E	0100	0014U	S13	W82	.993	12584	27.9	46D	1N	1		0014	1.24	3.31		
CULG	03	0035E	0101	0037	S20	W85	.998	12584	27.6	26D	1N	P	0037	.57				
	03	1516	1522		NO FLARE PATROL													
	03	1537	1544		NO FLARE PATROL													
	03	2006	2012		NO FLARE PATROL													
	03	2013	2026		NO FLARE PATROL													
	03	2108	2115		NO FLARE PATROL													
	03	2121	2241		NO FLARE PATROL													
031 ATHN	04	0954	1009D	0958	S14	W90	1.000	12584	28.7	15D	1E	2	C				DE 4	
	04	2032	2043		NO FLARE PATROL													
	04	2104	2120		NO FLARE PATROL													
	04	2129	2134		NO FLARE PATROL													
	04	2149	2211		NO FLARE PATROL													
	05	1330	1340		NO FLARE PATROL													
	05	1355	1401		NO FLARE PATROL													
	05	1715	1727		NO FLARE PATROL													
	05	2200	2250		NO FLARE PATROL													
	06	0251	0436		NO FLARE PATROL													
	06	0437	0455		NO FLARE PATROL													
032 TEHR	06	0455E	0550	0455U	S10	W60	.878	12592	1.7	55D	--F	3	V		.91		F R 1	
033 CRON	06	0455E	0530D	0506	N18	W69	.933	12590	1.0	35D	1F			0505	1.00		2	
	06	1715	1806		NO FLARE PATROL													
	06	1819	1845		NO FLARE PATROL													
	06	1852	2117		NO FLARE PATROL													

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE NOV	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
GRP50034 BOUL RANY	06	2152	2231	NO FLARE	PATROL														
	06	2235	2245	NO FLARE	PATROL														
	07	1540	1626	1546	N17	E78	.976	12609	13.5	46	--F			.13				2 1 1 4	
	07	1540	1626	1546	N17	E78	.976	12609	13.5	46D	--F				1.30				
	07	1555	1620	1559	N17	E77	.972	12609	13.4	25	--F	4 C		.13				DE	
	07	1913	1916	NO FLARE	PATROL														
	07	1941	1947	NO FLARE	PATROL														
	07	1953	2012	NO FLARE	PATROL														
	07	2014	2111	NO FLARE	PATROL														
	07	2143	2149	NO FLARE	PATROL														
	08	1949	1954	NO FLARE	PATROL														
	08	2000	2011	NO FLARE	PATROL														
	08	2015	2019	NO FLARE	PATROL														
	08	2239	2245	NO FLARE	PATROL														
	08	2316	2321	NO FLARE	PATROL														
	09	1917	1926	NO FLARE	PATROL														
	09	1932	1940	NO FLARE	PATROL														
	10	1916	2004	NO FLARE	PATROL														
	10	2021	2024	NO FLARE	PATROL														
10	2028	2034	NO FLARE	PATROL															
10	2039	2054	NO FLARE	PATROL															
10	2116	2124	NO FLARE	PATROL															
10	2125	2132	NO FLARE	PATROL															
10	2137	2146	NO FLARE	PATROL															
11	2049	2054	NO FLARE	PATROL															
11	2132	2218	NO FLARE	PATROL															
037 KOD	13	0420E	0440D		N13	E75	.965	12618	18.8	20D	1F	P	0440	4.98	5.00			D	3
041 CATA	13	1135	1150	1145	N14	E74	.960	12618	19.0	15	-N	3	1145	.58				(200)	2
042 CATA	13	1315	1325	1320	N15	E73	.955	12618	19.0	10	--N	3	1320	.29				(182)	2
	13	1630	1701	NO FLARE	PATROL														
	14	1510	1543	NO FLARE	PATROL														
	14	1614	1626	NO FLARE	PATROL														
	14	1627	1712	NO FLARE	PATROL														
GRP50047 BUCA MONT CRON	15	0856	0927	0859	N15	E50	.774	12618	19.1	31	--N			.37				3 3 3 8	
	15	0855E	0940D		N14	E49	.762	12618	19.0	45D	-N	P	0902	.55	.80			D	
	15	0857	0926	0859	N15	E50	.774	12618	19.1	29	-N	C	0859	.21				D	
	15	0859E	0914		N15	E50	.774	12618	19.1	15D	-F	V		.36					
048 CATA	15	1315	1355	1320	N16	E56	.835	12623	19.8	48	--N	3	1320	.29	.54			(195)	2
049 HUAN	16	1607	1615	1610	N14	E33	.566	12618	19.1	8	--F	1 C	1610	.36	.44			E	2
050 HANI	17	0000	0011	0003	N03	E41	.655	12618	20.1	11	--F	2	0003	.52	.68				2
	17	1534	1545	NO FLARE	PATROL														
	18	1603	1633	NO FLARE	PATROL														

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Nov 73SOLAR FLARES
Confirmed

NOVEMBER 1973

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	CMF DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX WIDTH Ha	
GRP50082 RAMY MCMA BOUL	23	1705	1712	1707	S13	E58	.861	12628	28.1	7	-N		.54				3 3 3 3
	23	1705	1712D	1707	S12	E57	.851	12628	28.0	7D	-N	4 C	.46				DE
	23	1705	1711	1708	S12	E58	.860	12628	28.1	6	-N	C	1708 .52	1.10			D
	23	1705	1714	1707	S15	E59	.873	12628	28.1	9	-F	C	1707 .64	1.24			
083 RAMY	23	1834	1838	1836	S13	E54	.825	12628	27.8	4	--F	3 C	.28				DE 3
084 BOUL	23	1922	1950	1927	S13	E75	.970	12634	29.4	28	--F	C	1928 .32	.97			2
085 BOUL	23	2212	2224	2215	S14	E57	.854	12628	28.2	12	--F	C	2215 .64	1.16			3
087 MANI	24	0003E	0012	0003U	S13	E54	.825	12628	28.1	9D	--N	2	0003 .41	.71			FH 2
088 MANI	24	0029E	0045	0029U	S13	E55	.834	12628	28.1	16D	--N	2	0029 .31	.53			2
089 MANI	24	0031	0048	0035	S14	E16	.381	12625	25.2	17	--N	2	0035 .83	.90			FH 2
GRP50091 RAMY CANR	24	1549	1620	1553	S10	E46	.735	12628	28.1	31	--F		.51				2 2 2 3
	24	1546	1608D	1550	S10	E44	.712	12628	28.0	22D	-F	3 C	.19				DE
	24	1552	1620	1555	S09	E47	.744	12628	28.2	28	-F	V	.83				
GRP50092 PALE HUAN RAMY	24	2000	2030	2011	S13	E41	.686	12628	27.9	30	--N		.83				3 3 3 3
	24	2000	2024	2005	S13	E41	.686	12628	27.9	24	-N	2 C	.81				F
	24	2007E	2017D		S12	E42	.694	12628	28.0	10D	-N	1 P	.46	.65			
	24	2017E	2035	2017U	S13	E40	.674	12628	27.8	18D	-F	2 C	1.21				F
GRP50096 TEHR MANI	25	0421	0433	0424	S11	E31	.549	12628	27.5	12	-N		.90				2 2 2 3
	25	0420	0433	0424	S11	E32	.563	12628	27.6	13	-N	3 V	.55				F H
	25	0422	0428D	0424	S11	E30	.536	12628	27.4	6D	-N	2	0424 1.24	1.48			H
GRP50097 CRON TEHR	25	0437	0459	0442	S10	E38	.637	12628	28.0	22	--N		.68				2 2 2 2
	25	0437E	0456	0441	S10	E38	.637	12628	28.0	19D	-N	V	.72				
	25	0442E	0502D	0442U	S10	E37	.624	12628	28.0	20D	-N	3 V	.63				F
GRP50100 BUCA CRON CRON TEHR CATA	25	0853	0916	0855	S11	E33	.576	12628	27.8	23	-N		1.15				4 4 4 5
	25	0851E	0918D		S12	E32	.568	12628	27.8	27D	-N	C	0854 1.66	2.00			E
	25	0851	0913	0854	S11	E35	.602	12628	28.0	22	-N	V	.83				
	25	0851	0913	0906	S11	E35	.602	12628	28.0	22	-N		.62				
	25	0855E	0913	0855U	S10	E32	.558	12628	27.8	18D	-N	3 V	.66				F
	25	0855	0920	0855	S12	E32	.568	12628	27.8	25	-B	3	0855 1.44	1.73			(229) H
102 RAMY	25	1427E	1441	1428	S10	E25	.462	12628	27.5	14D	-N	3 C	1.11				F H 2
GRP50103 CATA BOUL RAMY CANR	25	1455	1518	1502	S12	E24	.461	12628	27.4	23	-N		1.44				4 4 4 4
	25	1450	1515D	1500	S12	E24	.461	12628	27.4	25D	1E	3	1500 2.90	3.21			(209)
	25	1451	1525	1503	S13	E23	.456	12628	27.3	34	-N	C	1503 1.18	1.28			
	25	1455	1518	1456	S10	E25	.462	12628	27.5	23	-N	3 C	.84				F H
	25	1505	1515	1508	S11	E25	.468	12628	27.5	10	-F	V	1508 .83				
104 PALE	25	2049	2054	2051	S14	E29	.541	12628	28.0	5	--F	3 C	.27				F 3
105 PALE	25	2144E	2147	2144	S10	E20	.392	12628	27.4	3D	--N	3 C	.36				F 2
	25	2209	2243	NO FLARE PATROL													
GRP50106 MANI MANI PALE	25	2308	2323	2314	S11	E22	.427	12628	27.6	15	--N		.83				2 2 2 2
	25	2250E	2310	2255	S10	E28	.503	12628	28.1	20D	-F	1	2255 .83	.95			F
	25	2308E	2322	2314	S10	E20	.392	12628	27.5	14D	-N	1	2314 1.03	1.12			
	25	2313E	2323D	2313U	S12	E19	.396	12628	27.4	10D	-N	2 C	.63				DE
107 VORO	25	2345	0015	2350	S09	E19	.370	12628	27.4	30	--B	C	2350 .84	.90			64 EHJ 4
GRP50109 PALE MITK MANI VORO	26	0024	0035	0027	S09	E18	.355	12628	27.4	11	--N		.68				4 4 4 5
	26	0023	0032	0026	S10	E18	.363	12628	27.4	9	-N	2 C	.36				H F
	26	0023	0040	0026	S10	E18	.363	12628	27.4	17	-N	C	0026 .52	.60			OH
	26	0025E	0034	0026	S09	E19	.369	12628	27.4	9D	-N	2	0026 .72	.77			H
	26	0025	0035	0029	S08	E18	.347	12628	27.4	10	-B	C	0029 1.11	1.20			73 EHJ
GRP50110 MANI MITK VORO	26	0104	0121	0110	S08	E19	.362	12628	27.5	17	-N		1.20				3 3 3 5
	26	0102	0121	0111	S09	E19	.369	12628	27.5	19	-N	2	0111 1.24	1.32			H
	26	0103	0115D	0107	S08	E20	.376	12628	27.5	12D	-N	C	0107 1.44	1.60			OH
	26	0107	0120	0111	S08	E19	.362	12628	27.5	13	-B	C	0111 .93	1.00			73 EHJ
GRP50112 TEHR CRON MITK MANI	26	0436	0517	0442	S11	W26	.481	12624	24.2	41	--N		.77				4 4 4 4
	26	0435	0510D	0445	S11	W24	.453	12624	24.4	35D	-N	3 V	.41				F
	26	0435	0517	0438	S10	W27	.489	12624	24.2	42	-N	V	0438 .62				
	26	0437	0515D	0447	S12	W26	.487	12624	24.2	38D	-N	C	0447 1.13	1.20			E
	26	0438E	0443D	0438U	S12	W26	.487	12624	24.2	5D	-N	2	0438 .93	1.05			F

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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	MCNATH FLARE REGION	CMP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
GRP50114	26	0552	0605	0556	S08	E17	.333	12628	27.5	13	18		1.57				5 5 5 6
MANI	26	0552E	05550	0552U	S08	E17	.333	12628	27.5	30	18	2	0552	2.58	2.62		E
CRON	26	0554E	06030	0557U	S08	E17	.333	12628	27.5	90	-B		0557	1.03			
TEHR	26	0555E	06050	0559U	S06	E19	.349	12628	27.7	100	-N	3	V	.31			F
ATHN	26	0555E	0609	0555U	S11	E17	.359	12628	27.5	140	18	1	V	2.15			F
ABST	26	0558E	0603	0558	S08	E15	.305	12628	27.4	50	1N		P	0558	1.80	1.80	BE
GRP50115	26	0705	0713	0707	S09	E16	.327	12628	27.5	8	-N			1.01			6 6 6 6
ABST	26	0704	0712	0705	S08	E15	.305	12628	27.4	8	1N		C	0705	1.80	1.80	92 E
TEHR	26	0704	0714	0706	S07	E19	.355	12628	27.7	10	-N	3	C	.73			F
CATA	26	0705	0715	0705	S09	E15	.314	12628	27.4	10	-B	3		.87	.90	(295) H	
ATHN	26	0705E	0715	0707	S11	E15	.334	12628	27.4	100	-B	2	V	1.49			U F
CRON	26	0708E	0712	0708E	S09	E15	.314	12628	27.4	40	-N		V	.62			
MANI	26	0712E	07120	0712U	S08	E16	.319	12628	27.5		-N	2		.52	.52		
GRP50121	26	1102	1114	1105	S08	E13	.277	12628	27.4	12	--N			.92			3 3 3 4
CATA	26	1100	1115	1105	S09	E14	.300	12628	27.5	15	-B	3		.87	.90	(240)	
TEHR	26	1103E	1112	1106	S07	E11	.240	12628	27.3	90	-N	4	V	.66			F
CANR	26	1103	1115	1105	S09	E15	.314	12628	27.6	12	-N		V	1105	1.24	1.20	
GRP50122	26	1146	1155	1149	S09	E12	.275	12628	27.4	9	--N			.57			3 3 3 5
CANR	26	1146	1156	1149	S09	E12	.275	12628	27.4	10	-B		V	.83	.80		
MEUD	26	1148E	1153	1148	S10	E12	.286	12628	27.4	50	-N		C	.62	.60		C
TEHR	26	1150E	1157	1151	S08	E11	.251	12628	27.3	70	-N	2	V	.25			F
4 STATIONS REPORTING GROUP 50123. 0 STATIONS OBSERVING AND NOT REPORTING.																	
GRP50123	26	1339	1401	1349	S09	E11	.262	12628	27.4	22	1N			2.34			4 4 4 4
ATHN	26	1332	1401	1348	S09	E11	.262	12628	27.4	29	1B	2	C	2.31			F
CANR	26	1337	1400	1349	S08	E11	.251	12628	27.4	23	1N		V	3.30			
MEUD	26	1347	1357	1349	S09	E12	.275	12628	27.5	10	1N		C	1349	2.27	2.30	E
HERS	26	1348E	1405	1348	S08	E11	.251	12628	27.4	170	-N		S	1348	1.48	1.60	E
50123	26	1332	1401	1340	S08	E12	.264	12628	27.5	29	*-N			.91			3 3 3 3
ATHN	26	1332	1401	1338	S09	E11	.262	12628	27.4	29	-N	2	C	.99			F
CANR	26	1337	1400	1341	S08	E11	.251	12628	27.4	23	-N		V	1.03			
MEUD	26	1340E	1345		S08	E13	.277	12628	27.5	50	-F		C	1341	.72	.70	CE
GRP50124	26	1426	1438	1429	S08	E12	.264	12628	27.5	12	--N			.79			2 2 2 4
CANR	26	1425	1436	1428	S08	E11	.251	12628	27.4	11	-N		V	.83			
RANY	26	1427	1440	1429	S07	E12	.254	12628	27.5	13	-N	3	C	.74			DE
GRP50125	26	1520	1541	1525	S07	E10	.227	12628	27.4	21	1B			2.78			1 1 1 1
RANY	26	1520E	1541	1525	S07	E10	.227	12628	27.4	210	1B	3	C	2.78			F H
RANY	26	1520E	1541	1523	S07	E10	.227	12628	27.4	210	-B	3	C	1.49			F H
126 RANY	26	1548E	1600	1553	S07	E13	.268	12628	27.6	120	--F	3	V	.46			DE 1
127 PALE	26	1755E	1826	1801U	S13	H75	.969	12626	21.1	310	--F	1	C	.72			F 2
128 RANY	26	1954	19560	1956U	S06	E10	.217	12628	27.6	20	--F	2	V	.46			DE 2
	26	2115	2135	NO FLARE PATROL													
	26	2203	2231	NO FLARE PATROL													
	26	2233	2258	NO FLARE PATROL													
129 PALE	26	2308E	23080	2308U	S08	E07	.205	12628	27.5		-N	2	C	1.80			F 2
130 PALE	26	2332E	23400	2333	S08	E07	.205	12628	27.5	80	-N	2	C	.99			F 2
GRP50133	27	0124	0138	0127	S09	E05	.200	12628	27.4	14	--N			.88			4 4 4 5
MITK	27	0124	0138	0125	S08	E05	.185	12628	27.4	14	-N		C	.93	.90		E
CRON	27	0124E	0137		S08	E06	.193	12628	27.5	130	-N		V	.72			
PALE	27	0124E	0140	0126U	S09	E04	.193	12628	27.4	160	-N	1	V	1.03			F
MANI	27	0130E	0138	0130U	S10	E05	.216	12628	27.4	80	-N	1		.83	.83		F
PALE	27	0135E	01360	0135U	S09	E04	.193	12628	27.4	10	-N	1	C	.99			F
GRP50135	27	0306	0324	0313	S07	E03	.155	12628	27.4	18	-B			1.84			6 6 5 6
MITK	27	0303	0325	0313	S08	E03	.171	12628	27.4	22	-N		C	0313	1.34	1.30	OH
CRON	27	0306	0329	0313	S07	E04	.162	12628	27.4	23	-E		V	1.03			
KODA	27	0309	0322	0311	S04	E04	.117	12628	27.4	13	1N		V	0315		1.72	OHL
MANI	27	0310E	03140	0312	S08	E03	.171	12628	27.4	40	1B	1		0312	3.09	3.12	E
PALE	27	0312E	03220	0314U	S08	E02	.167	12628	27.3	100	1N	2		2.37			U F
VORO	27	0313E	0324		S08	E02	.167	12628	27.3	110	-B		P	0313	1.38	1.40	93 EHJ

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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. HER DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
GRP50138	27	0730	0800	0752	S14	H87	.999	12626	20.8	30	--F			.56				4 4 4 8
ABST	27	0730	0802	0750	S14	H88	1.000	12626	20.7	32	1F	C	0750	.90			85	ADK
CRON	27	0748E	0800		S13	H82	.992	12626	21.2	120	-F	V		.41				
ATHN	27	0749E	0759	0751	S13	H86	.998	12626	20.9	100	-F	1 V		.33				DE
CATA	27	0750E	0800D	0755	S14	H90	1.000	12626	20.6	100	1N	3	0755	.58			(155)	
	27	1706	1721	NO FLARE PATROL														
140 BOUL	27	1813	1851	1823	N06	H28	.474	12636	25.7	38	--F	C	1823	.86	.97			1
GRP50143	28	0005	0023	0009	S12	H51	.792	12624	24.2	18	-B			.65				2 2 1 3
VORO	28	0005	0015	0009	S13	H50	.784	12624	24.3	10	-B	C	0009	.65	1.00		65	EJ
CRON	28	0005	0030		S11	H52	.800	12624	24.1	25	-N	V						
GRP50146	28	0533	0555	0539	S09	H04	.191	12628	27.9	22	--F			.52				2 2 2 6
TEHR	28	0531E	0600	0540	S09	H05	.198	12628	27.9	290	-F	3 C		.31				H
MITK	28	0534	0550	0538	S07	H02	.148	12628	28.1	16	-F	C	0538	.72	.70			O
MITK	28	0600	0632	0603	S09	H03	.186	12628	28.0	32	-N	C	0603	1.44	1.50			E
150 HUAN	28	1628	1640	1633	S06	H12	.242	12628	27.8	12	--N	2 C	1633	.36	.37			3
GRP50151	29	0445	0511	0449	S09	H19	.366	12628	27.8	26	--F			.96				4 3 3 5
MITK	29	0445	0507	0449	S08	H20	.374	12628	27.7	22	-N		0449	1.44	1.60			E
CRON	29	0445E	0505	0445E	S09	H19	.366	12628	27.8	200	-F	V	0445	.83				
TEHR	29	0445E	0520D	0452U	S09	H19	.366	12628	27.8	350	-F	2 C		.60				F
HANI	29	0456E	0504D	0500U	S07	H20	.367	12628	27.7	80	-N	1	0500	.62	.67			
GRP50152	29	0646	0752	0700	S09	H19	.366	12628	27.9	66	--E			.46				2 1 1 5
TEHR	29	0646	0752D	0700	S09	H19	.366	12628	27.9	66D	-B	3 C		.46				DE
CATA	29	0720E	0745D	0725	S10	H19	.374	12628	27.9	250	-N	3	0725	.29	.30		(178)	
	29	1942	1949	NO FLARE PATROL														
	29	1952	1954	NO FLARE PATROL														
GRP50153	30	0227	0235	0227	S08	H31	.533	12628	27.8	8	--N			.74				3 3 3 4
MITK	30	0226	0242	0227	S08	H33	.561	12628	27.6	16	-N	C	0227	.72	.90			D
CRON	30	0227E	0232		S08	H29	.584	12628	27.9	50	-F	V	0227	.77				
VORO	30	0227	0230	0227	S08	H32	.547	12628	27.7	3	-B	C	0227	.74	.90		62	DJ
GRP50154	30	0911	0945	0922	S14	H33	.587	12628	27.9	34	-N			1.07				6 5 5 7
MCNT	30	0906	0953	0924	S13	H33	.582	12628	27.9	47	-N	C	0924	1.13				E
CRON	30	0907E	0938	0919	S14	H33	.587	12628	27.9	310	-N	V	0919	1.19				
CRON	30	0907E	0938	0907U	S14	H33	.587	12628	27.9	310	-F	V		.31				
TEHR	30	0909	0938	0916	S15	H33	.593	12628	27.9	29	-N	3 C		.55				F
ARCE	30	0915	0945		S14	H33	.587	12628	27.9	30	-B	C	0922	1.14	1.40			
CANR	30	0920	0923D		S15	H31	.568	12628	28.1	30	-N	V	0923	1.34	1.50			
CATA	30	0930E	0950	0930	S15	H32	.580	12628	28.0	200	1B	3	0930	1.73	2.09		(229)	
GRP50155	30	1947	2021	1951	S15	H37	.642	12628	28.0	34	-F			1.76				2 2 1 2
RAMY	30	1947	2017	1949	S14	H38	.650	12628	28.0	30	-N	3 C		1.76				F
BOUL	30	1952E	2025D	1953	S15	H36	.650	12628	28.1	330	-F	V	1953		1.50			
156 RAMY	30	1948	2013	1951	S11	H44	.712	12628	27.5	25	-N	3 C		.19				DE 1

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
731101	8.90	22.5	731110	0.00	22.4	731122	9.63	24.0
731102	0.00	21.5	731111	0.00	23.1	731123	7.03	23.7
731103	14.33	22.0	731113	133.69	23.5	731125	28.92	23.4
731104	7.64	23.1	731114	0.00	22.5	731126	118.86	22.8
731105	0.00	22.7	731117	0.00	23.8	731127	17.87	23.8
731106	6.13	17.4	731118	0.00	23.5	731128	2.23	24.0
731107	0.00	22.5	731119	7.73	22.2	731129	0.00	23.9
731108	0.00	23.5	731120	2.97	23.7	731130	22.58	24.0
731109	0.00	23.7	731121	1.78	23.4			

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

Addenda: The Flare Index for October 31, 1973 should read 0.00. Hrs. of Patrol = 20.7.

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OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE NOV	START	END	MAX. PHASE	APPROX. LAT. MER. DIST.	CENTRAL DISTANCE	MMATH PLAGE REGION	CMP DAY	TIME — UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %		
024 CANR	01	1136	1145	1137	S10	W51	.797 12584	28.7	9	-F	V		.31					5
027 CRON	02	0200	0222	0208	S14	W58	.869 12584	28.7	22	-N	V		1.03					4
028 CANR	02	0908	09140	0912	S13	W60	.883 12584	28.9	60	-N	V	0912	.62	1.20				4
035 ATHN	12	1015	1029	1018	N15	E90	1.000 12618	19.2	14	-F	2	C					DE	4
036 CATA	12	1230E	12400	1235	N18	E90	1.000 12618	19.3	100	1F	3	1235	.58			(148)		4
038 MITK	13	0622	0630	0626	N15	E80	.983 12618	19.3	8	-N	C	0626	.52				DH	5
039 CATA	13	0840	0845	0840	N15	E78	.977 12618	19.2	5	-N	1	0840	.29			(182)		6
040 MONT	13	0935	0943	0939	N14	E78	.977 12618	19.2	8	-N	C	0938	.41				DH	6
043 CRON	14	0212E	0215	0212U	N13	E68	.927 12618	19.2	30	-F	V	0212	.36					4
GRPS0044 KODA KODA	14	0318	0401	0322	N14	E66	.914 12618	19.1	43	-N			1.69				1 1 1	6
	14	0318	04010	0322	N14	E66	.914 12618	19.1	430	-N	V	0322	1.69				D	
	14	0318	04010	0322	N14	E66	.914 12618	19.1	430	-N	V	0322			1.64		D	
045 MANI	15	0516	05240	0520U	N15	E49	.763 12618	18.9	80	-F	2	0520	.21	.32				3
046 ATHN	15	0826E	0833	0828	N13	E48	.749 12618	19.0	70	-F	3	V	.33				DE	7
051 MANI	18	0341	0404	0342	N13	E13	.286 12618	19.1	23	-F	2	0342	.31	.32			F	5
052 TEHR	18	0522E	05330	0523	N19	E32	.579 12623	20.6	110	-F	3	V	.25				F	5
053 MANI	18	0523E	0535	0524U	N24	E41	.708 12623	21.3	120	-F	2	0524	.62	.89			F	5
054 MANI	18	0548E	0610	0553U	N14	E07	.232 12618	18.8	220	-F	2	0553	.21	.21			F	6
060 ABST	21	0626E	06380	0631	S11	E90	1.000 12628	28.0	120	1F	P	0631	1.17			59	AEK	7
064 KODA	22	0726	0735	0729	S12	E78	.981 12628	28.2	9	-B	V	0729			2.64		D	4
065 CANR	22	0918	0944	0920	S13	E23	.459 12624	24.1	26	-F	V	0920	.41					8
066 MONT	22	0948	1004	0953	S11	E73	.960 12628	27.9	16	-N	C	0953	.41					8
067 MONT	22	1006	1016	1009	S11	E73	.960 12628	27.9	10	-N	C	1009	.21					7
068 MONT	22	1025	1030	1027	S08	E72	.954 12628	27.8	5	-N	C	1027	.21				EW	5
070 RAMY	22	1320E	13300		S13	E71	.951 12628	27.9	100	-F	3	V					DE	5
071 BOUL	22	1452E	15200	1455U	S12	E68	.933 12628	27.7	280	-F	V	1452		.80				4
072 BOUL	22	2105	2150	2120	S15	E89	1.000 12634	29.6	45	1F	C	2120	.54	2.12				3
073 MANI	22	2315E	2320	2315U	S12	E68	.933 12628	28.1	50	-N	1	2315	.62	1.32			F	4
074 MANI	23	0658	07010	0700	S11	E59	.867 12628	27.7	30	-N	2	0700	.41	.76			X	5
076 MANI	23	0758E	07590	0759U	S11	E56	.840 12628	27.5	10	-N	2	0759	.62	1.08			F	5
077 MANI	23	0812E	08170	0812U	S10	E56	.839 12628	27.5	50	-N	1	0812	.83	1.44				6
078 MANI	23	0840E	08480	0840U	S10	E54	.820 12628	27.4	80	-N	1	0840	.62	1.03			F	5
086 MANI	23	2252E	23200	2259	S10	E52	.800 12628	27.9	280	-N	1	2259	.62	1.00			F	3
090 MANI	24	0329E	0411	0336	S13	E52	.806 12628	28.0	420	-N	2	0336	1.13	1.86			F	3
093 CRON	24	2218E	2222	2218E	S14	E56	.845 12634	29.1	40	-N	V	2218	.36					3
094 CRON	24	2307E	2316	2307E	S11	E57	.849 12634	29.2	90	-F	V	2307	.52					3
095 CRON	24	2345	23560	2353	S13	E53	.815 12634	29.0	110	-N	V	2353	.83					5
098 CATA	25	0715	0725	0720	S11	E31	.549 12628	27.6	10	-N	3	0720	.29	.34		(166)		6
099 CATA	25	0735	07400	0735	S12	E31	.555 12628	27.6	50	-N	3	0735	.58	.68		(186)		6
101 RAMY	25	1258	1320	1305	S15	W59	.872 12626	21.1	22	-N	3	C	.37				DE	4
108 CRON	26	0000	0009		N06	W08	.159 12636	25.4	9	-F	V		.41					6

SOLAR FLARES

Unconfirmed

NOVEMBER 1973

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE NOV	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
111 MANI	26	0152	0207	0156	S09	E18	.355	12628	27.4	15	-N	2	0156	1.24	1.31			H 4
113 MANI	26	0438E	0443D	0438U	S09	E17	.341	12628	27.5	50	-N	2	0438	.52	.54			FH 4
116 CATA	26	0935	0935D	0935	S08	E14	.291	12628	27.4		-N	3	0935	.58	.60	(191)		8
GRP50117	26	0937	0948	0940	S09	E14	.300	12628	27.5	11	-F			.56				2 2 2 8
CANR	26	0936	0948	0939	S08	E14	.291	12628	27.4	12	-F	V	0939	.62	.60			
ATHN	26	0938	0948	0940	S10	E14	.311	12628	27.5	10	-N	2	C	.50				DE
118 CANR	26	0952	0959	0954	N07	W13	.243	12636	25.4	7	-F	V	0954	.31	.30			8
GRP50119	26	0955	1005	0956	S09	E14	.300	12628	27.5	10	-F			.41				2 2 2 8
CANR	26	0955	1007	0956	S09	E13	.287	12628	27.4	12	-N	V	0956	.41	.40			
CRON	26	0956E	1002	0956E	S09	E14	.300	12628	27.5	60	-F	V	0956	.41				
120 CANR	26	1100	1107	1102	N07	W14	.259	12636	25.4	7	-N	V	1102	.52	.50			5
131 PALE	27	0001E	0004D	0002U	S10	E04	.209	12628	27.3	30	-F	2	V	.31				DE 3
132 CRON	27	0104E	0124		N07	W20	.354	12636	25.5	200	-F	V		.52				3
134 MANI	27	0145E	0152	0147U	N05	W19	.331	12636	25.6	70	-N	1	0147	.41	.44			5
136 VORO	27	0351	0358	0352	S07	E05	.170	12628	27.5	7	-B	C	0352	.46	.46		66	EJ 5
137 KODA	27	0416	0539	0419	S13	W80	.987	12626	21.2	83	-B	V	0419			2.72		D 5
139 CATA	27	1025	1035	1030	S09	W01	.182	12628	27.4	10	-N	3	1030	.58	.58	(151)		7
141 CRON	27	2309	2318		S09	E07	.217	12628	28.5	9	-F	V		.93				3
142 CRON	27	2330E	2348	2333	S09	E07	.217	12628	28.5	180	-N	V		.93				3
144 VORO	28	0057	0117	0059	S09	W01	.179	12628	28.0	20	-B	C	0059	1.11	1.10		64	EJ 5
145 VORO	28	0145	0149	0145	S09	W05	.198	12628	27.7	4	-B	C	0145	.74	.70		67	D 6
147 MONT	28	0948	1013	0951	S09	W05	.198	12628	28.0	25	-N	C	0951	.41				E 8
148 MONT	28	1123	1128	1125	N07	W38	.620	12636	25.6	5	-N	C	1125	.10				6
149 MONT	28	1158	1203	1159	N07	W38	.620	12636	25.6	5	-N	C	1159	.10				6

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.

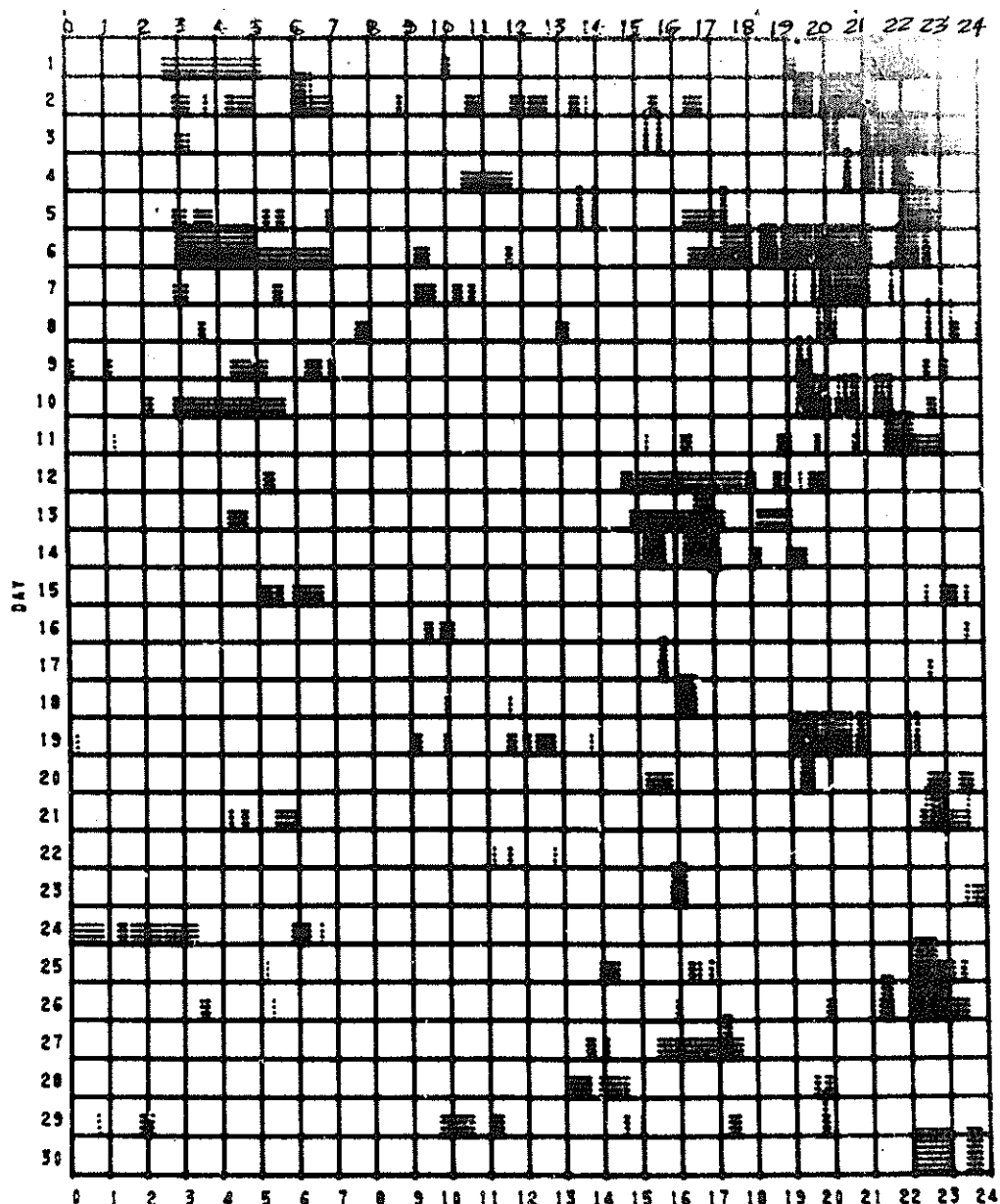
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INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

NOVEMBER 1973

HOUR-UT



Observatories included in total patrol:

Abastumani	Capri F (German)	Herstmonceux	Kodaikanal	Mitaka	Tachkent
Arcetri	Carnarvon	Huancayo	Locarno	Monte Mario	Teheran
Athens	Catania	Istanboul	Manila	Palehua	Voroshilov
Boulder	Culgoora	Kharkov	McMath-Hulbert	Ramey	Wendelstein
Bucharest	Gran Canaria	Kiev	Meudon		

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 1973

NOV. 1973	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	200 GORK	44	0700		60		5.0		
	260 ONDR	44	0710	1006.5	440	45.0			
	283 DWIN	44	0725	1013	500	250.0	35.0		
	200 GORK	44	0906		114		5.0		
	3100 CRIM	1	0734	0744	47	9.0	3.0		
	2830 ARCE	20	0738.7	0743.9	26.5				
	1420 CRON	3	0738.5	0743	11	3.0	1.0		
	9240 ARCE	20	0742	0744.6	33				
	930 BORD	5	1128	1129.6	3	6.0	3.0		
	18 MCMA	6	1328	1329	2			1	
	1420 CANR	3	1508	1508.5	1	3.0	1.0		
	245 SGMR	43	1701.6	1841.5	270.4D	36.5			
	410 SGMR	43	1737	1836.2	235 D	77.0		3	
	245 BOUL	41	1822	1915	108				
	2700 PENN	20	1745.2	1855.8	217	23.3	9.5		
	2800 OTTA	21	1750	1940	340 D	11.8			
	2800 OTTA	20	1750	1755	25	2.0	1.0		
	4995 SGMR	22	1845.8	1855.6	80.2	11.6	6.9		
	2695 BOUL	40	1845.5	1855.5	43.5	15.0	3.0		
	1420 BOUL	40	1845	1904.5	59.5	9.0	2.0		
	2695 SGMR	22	1848.8	1855.5	85.9	12.2	7.3		
	1415 SGMR	22	1849.5	1855.7	85.2	7.4	4.4		
	606 SGMR	22	1849.4	1856.3	77.9	59.2	35.5		
	410 SGMR	6	1849	1856.6	64.2	21.7	13.0		
	245 SGMR	6	1849	1915.3	77	61.3	36.8		
	4995 BOUL	3	1854	1855	2	9.0	3.0		
	2800 OTTA	1	1854	1855.5	4	8.4	4.0		
	960 PENN	1	1854.8	1856	2.8	6.7	3.2		
	2695 PENT	1	1904.5	1904.7	2	3.2	0.8		
	2800 OTTA	1	1909	1012.5	7	3.8	1.9		
	2800 OTTA	1	1922	1924	7	3.8	1.9		
2	260 ONDR	41	0710	1253.5	440	30.0			
	221 ABST	3	0828.8	0828.8	45	33.0			
	221 ABST	8	0917.2	0917.8	1	36.0	9.0		
	283 DWIN		1205		200		25.0		
	315 DWIN	4	1206	1348	180	3 15.0	22.0	1	
	18 MCMA	6	1216	1218	2				
	9240 ARCE	3	1431.6	1432	1.5				
	2830 ARCE	1	1431.4	1431.9	1.7				
	245 BOUL	42	1623 E	1644	112 D			3	
	2800 OTTA	26	1720	1720	150	2.4	1.2		
	2695 CANR	3	1735	1736.5	3.5	2.0	1.0		
	2800 OTTA	8	1916	1916.2	.3	10.8	3.9		
	2695 BOUL	8	2310	2310.5	2	28.0	7.0		
	1420 BOUL	8	2310	2310.5	2.5	18.0	5.0		
3	606 MANI	47	0004	0021.5	42	5200.0	880.0		
	1415 MANI	4	0007.4	0013.7	31.9	305.0	74.0		
	2000 TYKW	45	0009	0014.2	31	280.0	70.0		
	4995 MANI	4	0011.6	0016.9	23.7	385.0	94.0		
	4995 CRON	45	0011.5	0017.5	111.5	315.0	69.0		
	2695 MANI	4	0011.5	0018.2	23.8	250.0	106.0		
	1000 TYKW	45	0011	0013.9	35	380.0	40.0		
	500 HIRA	48	0011.5	0121.7	25	1700.0	340.0		
	9400 TYKW	45	0012	0017	28	220.0	75.0		
	8800 MANI	4	0012.4	0018.2	17.3	230.0	94.0		
	2695 CRON	45	0012	0020	103.5	227.0	86.0		
	1420 CRON	45	0012	0015	28.5	192.0	34.0		
	208 VORO	48	0012	0016	25	1580.0	51.0		
	200 HIRA	48	0012.5	0023 U	32	370.0D	240.0D		
	100 HIRA	48	0012	0016 U	36	1000.0D	200.0D		
	9500 HIRA	5	0013.5	0017	26				
	3750 TYKW	45	0014 E	0016.8	26 D	440.0U	140.0		
	8800 MANI	29	0029.7	0029.7	29.9	58.0	15.7		
	4995 MANI	29	0035.3	0035.3	24.3	20.8	7.3		
	2695 MANI	29	0035.3	0035.3	26.2	19.2	5.1		
	9400 TYKW	29	0040		65	40.0	16.0		
	3750 TYKW	29	0040		38 D	30.0U	20.0		
	2000 TYKW	29	0040		55	5.0	2.0		
	260 ONDR	41	0710	1202	450	25.0			
	930 BORD	5	1053	1054.2	3	7.0	3.0		
4	1415 ATHN	2	0935.5	0936.2	8.3	4.7	1.5		
	2800 OTTA	22	1939	1945	20	3.0	1.5		
	4995 BOUL	3	1940	1944	6	7.0	3.0		
	2700 PENN	20	1940.3	1945.4	14	4.6	1.7		
	2695 BOUL	3	1940.5	1945.5	8	4.0	1.0		
5	930 BORD	45	1014	1016.8	4	37.0	4.0		
	18 MCMA	6	1347	1349	2			1	
6	260 ONDR	45	1240	1240.5	1.5	25.0			
	18 MCMA	6	1337	1340	4			1	
7	200 GORK	41	0727.7	0728.1	4.3	50.0			
	200 GORK		0727.7	0730.9		100.0			
	550 KIEV	41	0904.4	0907.1	4	48.0			
	930 BORD	5	1326	1327	8	12.0	4.0		
	930 BORD	5	1343	1345.8	9	14.0	4.0		

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

NOVEMBER 1973

NOV. 1973	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	1222	1222	.5	20.0			
	260 ONDR	5	1238.5	1238.5	.5	15.0			
	18 MCMA	6	1257	1259.	2				
	15400 SGMR	1	1731.7	1732.1	.6	7.7	2.3	1	
	8800 SGMR	3	1731.8	1732.4	1	12.0	3.6		
	18 MCMA	6	2045	2047	3			1	
9	930 BORD	5	1343	1345	8	13.0	5.0		
	18 MCMA	6	1717	1719	3			1	
10	260 ONDR	5	0815.5	0815.5	.5	40.0			
	2695 BOUL	3	2245.5	2246	1	3.0	1.0		
	1420 BOUL	3	2245	2245.5	1	2.0	1.0		
11	210 IZMJ	6	0825.7	0825.8	.5	520.0	175.0		
	260 ONDR	5	1056.5	1056.5	.5	15.0			
	260 ONDR	5	1131	1131	.5	15.0			
	260 ONDR	45	1216.5	1217	.5	20.0			
13	930 BORD	45	1314	1314.6	1	55.0	2.0		
	808 ONDR	5	1314	1314	.5	60.0			
	930 BORD	45	1404	1404.1	1	20.0	2.0		
14	550 KIEV	41	0955.2	0957.4	3	58.0			
	550 KIEV	6	1153.5	1200.2	7.5	100.0			
	29 UPIC	45	1156	1157.5	2.5				
	550 KIEV	41	1222	1225.1	3.5	37.0			
	550 KIEV	41	1238.2	1239.6	1.7	34.0			
	18 MCMA	6	1354	1356	3			1	
	315 DWIN	45	1407	1408	2	5.0	2.0		
	283 DWIN	45	1407	1408	2	5.0	2.0		
15	18 MCMA	6	1345	1346	2			1	
	4995 CRON	3	1433	1434.5	2	5.0	2.0		
	2695 CRON	3	1433	1434.5	2	2.0	1.0		
	1420 CRON	3	1434	1435.5	2.5	2.0	1.0		
16	18 MCMA	6	1240	1242	2			1	
	4995 CANR	45	1734.5	1739.5	6	13.0	4.0		
	2695 CANR	45	1735.5	1740.5	6.5	6.0	2.0		
	1420 CANR	45	1736.5	1737	6.5	3.0	1.0		
17	200 GORK	6	0758.5	0759.2	1.5	150.0			
	100 GORK	6	0758.8	0759.5	1.2	15.0			
	260 ONDR	5	0828.5	0828.5	.5	15.0			
	536 ONDR	5	0839	0839	.5	30.0			
	260 ONDR	5	0839	0839	.5	45.0			
	2695 CANR	3	0900	0902.5	4	3.0	1.0		
	1420 CANR	3	0900	0902.5	4	2.0	1.0		
	4995 CANR	3	0901.5	0902.5	2	8.0	3.0		
18	200 GORK	6	0734.8	0735.7	1.7	100.0	50.0		
	100 GORK	6	0735.3	0735.8	1.3	10.0	5.0		
	2800 OTTA	20	1845	1915	60	1.4	0.7		
19	1420 CANR	3	0745.5	0746.5	1.5	2.0	1.0		
	4995 CANR	3	0746.5	0747.5	1.5	9.0	4.0		
	2695 CANR	3	0746.5	0747.5	2	4.0	1.0		
	2830 ARCE	1	0819	0819.8	1.8				
	2830 ARCE	29	0820.8		35.5				
	650 GORK	1	0917.2	0917.5	.6	2.1	1.0		
	200 GORK	6	0917	0917.4	1.6	200.0	90.0		
	100 GORK	6	0917	0917.5	2	25.0	10.0		
	260 ONDR	5	0940	0940	.5	80.0			
	315 DWIN	45	1252	1253	2	15.0	5.0		
	283 DWIN	45	1252	1252.5	1	15.0	4.0		
	2695 PENT	24	2115	2135	20	1.4	0.6		
20	260 ONDR	5	0910	0910	.5	65.0			
	260 ONDR	5	1146	1146	.5	15.0			
	315 DWIN	45	1216	1216	4	10.0	2.0		
	283 DWIN	45	1216	1221	8	25.0	5.0		
	237 TRST	41	1219	1223.7	7.2	21.0			
	29 UPIC	45	1222	1223	2.5				
	18 MCMA	6	1456	1458	2			1	
	15400 SGMR	1	1829.8	1830.2	.9	7.3	2.2		
	8800 SGMR	1	1829.8	1830.1	1.3	6.4	1.9		
	4995 SGMR	1	1829.7	1830.3	4.7	8.8	2.6		
	4995 BOUL	3	1829	1830	1.5	6.0	2.0		
	2800 OTTA	3	1829.5	1830	6	10.4	2.6		
	2695 SGMR	3	1829.5	1830.3	6	12.0	3.6		
	2695 BOUL	8	1829.5	1830.5	1.5	11.0	4.0		
	1420 BOUL	8	1829	1830	3	5.0	2.0		
	1415 SGMR	1	1829.7	1830.3	9.7	5.1	1.5		
	606 SGMR	1	1829.5	1829.8	9.9	7.4	2.2		
21	2830 ARCE	20	1000.5	1035.6	86 U				
	930 BORD	45	1315	1316.6	4	15.0	5.0		
	18 MCMA	6	1333	1335	3			1	
	18 MCMA	6	1348	1349	2			1	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1973

NOV. 1973	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	930 BORD	45	1417	1417.8	1	9.0	2.0		
	930 BORD	40	1555	1555.8	1	9.0	2.0		
	1420 CANR	3	1640.5	1641.5	1.5	2.0	1.0		
	237 TRST	41	0735.2	0735.5	.8	110.0			
	260 ONDR	45	0915	0915	3	15.0			
	237 TRST	41	0915.4	0915.7	1.8	24.0			
	100 GORK	6	0915.3	0916.2	1.9	60.0	30.0		
	315 DWIN	41	1112	1113	8	20.0	5.0		
	283 DWIN	41	1112	1113	8	25.0	5.0		
	237 TRST	42	1113.8	1113.8	3.2	100.0			
	260 ONDR	45	1114.5	1114.5	7	20.0			
	29 UPIC	5	1114	1114.5	1				
	23 POTS	45	1114	1114.2	.9	7000.0	1000.0		
	18 MCMA	6	1625	1626	2			1	
	18 MCMA	41	2145	2147	2			1	
	208 VORO	44	2300	2259	240	14.5			
23	29 UPIC	45	0739.5	0742	4				
	260 ONDR	41	0740	0942.5	390	205.0			
	315 DWIN	44	0830		420		20.0		
	283 DWIN	44	0830		420		30.0		
	237 TRST	41	0907.4	0907.7	.8	16.0			
	536 ONDR	5	0942.5	0942.5	.5	35.0			
	237 TRST	42	0942.6	0943	2.1	710.0			
	234 POTS	41	0942.7	0942.8	2.1	280.0	7.0		
	210 IZMI	41	0942.8	0942.8	1.8	580.0			
	113 POTS	41	0942.8	0944.4	2.1	700.0	55.0		
	210 IZMI	41	1143.4	1144.6	9.9	400.0			
	536 ONDR	5	1152.5	1152.5	.5	35.0			
	2800 OTTA	26	1430	1430	32	1.6	0.8		
	2800 OTTA	41	1705.5	1709.5	4.5	1.6			
	2800 OTTA	1	1705.5	1705.8	.1	1.2	0.6		
	2800 OTTA	1	1708.5	1709.5	1.5	1.6	0.8		
	2695 PENT	2	2214.2	2215.3	1.8	1.8	0.8		
	500 HIRA	45	2214	2215.1	1.5	390.0	80.0		
	200 HIRA	45	2258.5	2258.8	1.5	170.0	80.0		
	208 VORO	44	2300	2312	240	25.5			
	18 BOUL	6	2310	2312	2			1	
	2695 CRON	45	2346.5	2350	5	13.0	3.0		
	8800 MANI	2	2347.8	2350.8	7.1	7.5	3.0		
	4995 MANI	22	2347.9	2350.7	10.7	6.7	2.0		
	3750 TYKW	45	2347.5	2350.8	5	3.0	1.0		
	2695 MANI	22	2347.9	2350.2	10.7	9.1	1.7		
	2000 TYKW	45	2347.5	2348.6	5	7.0	3.00		
	1420 CRON	45	2347.5	2348.5	5.5	4.0	1.0		
	1415 MANI	2	2347.9	2348.8	4.7	3.8	.9		
	1000 TYKW	1	2347.5	2348.8	5	2.0	1.0		
	4995 CRON	3	2349	2350.5	2.5	11.0	3.0		
24	200 GORK	44	0600 E		340 D		5.0		
	100 GORK	44	0600 E		340 D		5.0		
	221 ABST	44	0703.5	1045	237	4.0			
	260 ONDR	41	0800	1244.5	380	30.0			
	29 UPIC	5	1200	1200	.5				
	18 MCMA	6	1408	1409	2			1	
	2800 OTTA	20	1545	1549	10	.8	0.4		
	4995 SGMR	22	2002.5	2004.1	13.5	15.5	9.3		
	2800 OTTA	21	2002	2010	30	2.8	1.4		
	2695 SGMR	23	2002.9	2008.1	15.1	4.4	2.6		
	9400 HUAN	2	2003.6	2004.4	2.1	17.2	7.9		
	8800 SGMR	4	2003	2004.3	9	22.6	6.8		
	4995 BOUL	3	2003.5	2004	1.5	11.0	4.0		
	2695 BOUL	8	2003.5	2004.5	2	59.0	21.0		
	2695 PENT	2	2003.2	2003.3	2	6.4	3.1		
	2695 SGMR	4	2003.6	2003.9	1.2	61.8	18.5		
	1420 BOUL	8	2003.5	2004	2	5.0	2.0		
	1415 SGMR	23	2003	2008.5	12	3.0	1.8		
	1415 SGMR	4	2003.5	2003.8	1.1	11.4	3.4		
	208 VORO	44	2300	0057	240	35.0			
25	200 HIRA	45	0055	0055.7	2	170.0	60.0		
	200 GORK	44	0600		390		10.0		
	100 GORK	44	0600 E		300 D		5.0		
	221 ABST	44	0700	0951.5	240	6.0			
	100 GORK	41	0730.4	0739.4	18.9	50.00			
	100 GORK	41	0730.4	0743.2		50.00			
	260 ONDR	44	0800	1159	360	105.0			
	8800 ATHN	4	0851.8	0852.3	2.4	10.4	4.5		
	4995 ATHN	4	0851.9	0852.3	2.3	18.2	5.8		
	2695 CRON	8	0851.5	0852	1.5	12.0	4.0		
	2695 ATHN	1	0851.8	0852.4	2.2	9.5	3.2		
	1415 ATHN	1	0851.8	0852.4	2.1	4.1	1.4		
	9500 BERL	1	0852	0852.5	1	3.8	1.3		
	4995 CANR	8	0852	0852.5	3	20.0	6.0		
	3000 BERL	3	0852	0852.7	3	10.0	2.8		
	2830 ARCE	3	0852.2	0852.7	2.2				
	2695 CANR	8	0852	0853	2.5	14.0	5.0		
	1500 BERL	1	0852	0852.7	1.5	2.4	0.9		
	1420 CANR	8	0852	0753.5	3.5	4.0	1.0		

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

NOVEMBER 1973

NOV. 1973	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		
26	1420 CROK	3	0852.5	0853.5	2	4.0	1.0		
	9100 GORK	1	0853	0853.2	.4	8.5	4.0		
	4995 CROK	8	0853	0853.5	2	17.0	6.0		
	2830 ARCE	29	0854.4		28				
	1420 CROK	3	1025.5	1029	5.5	15.0	5.0		
	2695 CROK	8	1027	1027.5	2.5	25.0	5.0		
	4995 CROK	3	1028	1028.5	2.5	13.0	5.0		
	6100 KISV	45	1035	1035.5	2.4	138.0			
	6100 KISV	45	1152.2	1152.5	1	153.0			
	6100 KISV	45	1204.2	1205.1	1.3	138.0			
	237 TRST	41	1211.4	1211.6	.4	320.0			
	234 POTS	45	1211.6	1211.7	.3	150.0	30.0		
	2800 OTTA	20	1315	1340	60 D	3.6			
	234 POTS	45	1348.4	1348.5	.4	250.0	25.0		
	2800 OTTA	22	1417	1424	23	1.2	0.6		
	2800 OTTA	20	1450	1500	20	1.0	0.5		
	2800 OTTA	20	1547	1600	10	1.6	0.6		
	2800 OTTA	27	1558		232	2.4	1.8		
	2800 OTTA	24	1558	1615	17	2.4	1.8		
	2800 OTTA	24	1615		115	2.4			
	2800 OTTA	26	1810	1810	100	2.4	1.2		
	1420 CROK	3	2215.5	2216.5	2	3.0	1.0		
	1420 BOUL	3	2240	2242.5	5.5	3.0	1.0		
	208 VORO	44	2300	2322	240	42.0			
	100 HIRA	45	2350.5	2350.9	1	1000.00	140.00		
	606 MANI	40	0025.2	0027.9	5.6	73.0	6.2		
	1415 MANI	1	0027	0028.2	4.3	3.8	.5		
	500 HIRA	45	0027.3	0028	1	400.0	60.0		
	2000 TYKW	45	0103	0107.7	10	3.0	1.0		
	1415 MANI	2	0106.5	0109.8	8	9.6	1.9		
	606 MANI	40	0106.5	0109.6	14.8	44.2	5.8		
	9400 TYKW	20	0107	0115	30	4.0	2.0		
	4995 MANI	1	0107.2	0107.6	7.3	5.5	.9		
	3750 TYKW	1	0107	0107.6	1	6.0	2.0		
	2695 MANI	1	0107.2	0107.6	2.5	4.5	.9		
	1420 CROK	45	0107	0110	4.5	6.0	2.0		
	1000 TYKW	45	0107	0109.7	6	21.0	2.0		
	500 HIRA	45	0107	0107.8	4	70.0	20.0		
	200 HIRA	45	0107	0107.5U	2	170.00	100.00		
	100 HIRA	45	0107	0107.7U	2.5	1000.00	160.00		
	3750 TYKW	29	0108		30	2.0	1.0		
	200 HIRA	45	0120.5	0120.9U	1.5	170.00	60.00		
	200 HIRA	45	0150	0151 U	1.5	170.00	70.00		
	9400 TYKW	1	0155.5	0156	1.5	2.0	1.0		
	3750 TYKW	1	0155.5	0156	1.5	2.0	1.0		
	2000 TYKW	1	0155	0156.1	2	2.0	0.7		
	1000 TYKW	1	0155	0156	2	2.0	0.6		
	200 HIRA	45	0228	0229 U	2	160.00	70.00		
	606 MANI	40	0432.3	0433.8	7.5	18.4	6.0		
	500 HIRA	45	0433		3.5		10.0		
	500 HIRA		0433	0433.7		40.0			
	500 HIRA		0433	0434.6		37.0			
	1000 TYKW	45	0550	0553.9	14	70.0	7.0		
	606 MANI	40	0550.3	0554.3	11.9	430.0	96.0		
	200 HIRA	45	0550	0551.3U	7.5	170.00	80.00		
	100 HIRA	45	0550.5	0552.5	6.5	1000.00	130.00		
	8800 ATHN	4	0551.9	0553.9	10.7	17.7	4.8		
	4995 MANI	4	0551.2	0554	10	26.9	6.7		
	4995 CROK	45	0551	0553	10.5	31.0	8.0		
	4995 ATHN	4	0551.8	0553.7	11.3	33.8	9.4		
	2695 CROK	45	0551.5	0554	10	39.0	11.0		
	2695 MANI	4	0551.2	0554	10	47.0	10.4		
	2695 ATHN	4	0551.8	0553.8	10.8	42.8	9.2		
	2000 TYKW	45	0551	0553.9	12	27.0	5.0U		
	1415 MANI	40	0551.1	0554	10.1	26.2	11.5		
	1415 ATHN	4	0551.8	0553.8	10.8	22.8	5.4		
	9400 TYKW	45	0552	0556	13	12.0	5.0		
	3750 TYKW	45	0552	0553.9	12	35.0	6.0		
	1420 CROK	45	0552	0554.5	11	23.0	7.0		
	29 UPIC	5	0659	0659.5	1				
	210 IZMI	44	0700		300	70.0			
	260 ONDR	44	0730		410	240.00			
	315 DWIN	44	0750		455		30.0		
	283 DWIN	44	0750		455		55.0		
	410 SGMR	43	1400	1838.6	428 D	21.8			
	245 SGMR	43	1400	1509.9	428 D	64.6			
	3100 CRIM	3	0702	0704	5	21.0	7.0		
	4995 ATHN	4	0703.5	0705.6	11.9	15.0	3.8		
	2695 CROK	8	0703.5	0705	4.5	45.0	13.0		
	1415 ATHN	4	0703.7	0705.7	9.9	49.2	9.0		
	606 MANI	40	0703.7	0705.8	8.3	540.0	14.5		
	200 HIRA	45	0703.5	0705.7U	4	100.00	50.00		
	9750 IRKU	3	0704	0705.6	18	40.0	8.0		
	8800 ATHN	4	0704.1	0705.6	6.6	27.4	6.4		
	2695 ATHN	4	0704.2	0705.5	9.4	35.2	9.2		
	1420 CROK	8	0704	0706.5	5	46.0	13.0		
	1415 MANI	4	0704	0706	5	41.4	11.5		
	1000 TYKW	45	0704	0706	3	52.0	20.0		
	550 KIEV	6	0704.4	0705.7	2.2	155.0			

SOLAR RADIO EMISSION
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NOV. 1973	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		
26	510 POTS	45	0704	0706	4 U	84.0	8.0		
	210 IZMI	48	0704	0705.5	5	3600.0	2200.0		
	8800 MANI	4	0705.4	0705.7	3.6	38.2	9.5		
	4995 MANI	4	0705.4	0705.7	3.6	14.9	4.4		
	4995 CRON	3	0705	0705.5	4	13.0	5.0		
	3750 TYKW	1	0705	0705.4	1.3	9.0	4.0		
	2695 MANI	4	0705.4	0705.5	3.6	46.1	4.4		
	2000 TYKW	45	0705	0705.6	2	29.0	7.0		
	100 HIRA	45	0705	0705.6	2.5	500.0D	100.0D		
	29 UPIC	45	0705	0706	3				
	234 POTS	45	0706 E	0706.5	1.5D	250.0			
	113 POTS	45	0759.5	0759.8	.8U	175.0	15.0		
	234 POTS	45	0807	0807.5	1 U	250.0	25.0		
	234 POTS	41	0922.5	0930	1	1600.0	25.0		
	1500 BERL	22	0924.5	0930.2	1	4.4U	0.9		
	113 POTS	41	0924	0930.5	1	3500.0	70.0		
	315 DWIN	41	0928	0937	10	300.0D			
	283 DWIN	41	0928		10	100.0D			
	210 IZMI	48	0929.5	0930.1	1.5	4200.0	1450.0		
	536 ONDR	45	0930	0933.5	10	65.0			
	228 HARS	5	0930	0930.5	1.5	500.0	170.0		
	29 UPIC	45	0930.5	0931	8				
	23 POTS	41	0930	0931	8.5U	5000.0	300.0		
	210 IZMI	48	0931	0931.3	1	2800.0	2000.0		
	808 ONDR	45	0933	0933.5	5	70.0			
	510 POTS	41	0933	0933.5	5.5U	38.0	1.0		
	408 TRST	41	0933.1	0933.5	1	190.0			
	408 TRST	41	0937	0937.5	1.9	100.0			
	283 DWIN	41	0952		8	100.0D			
	1500 BERL	46	0953.5	0956.5	20	7.3	1.9		
	536 ONDR	45	0954.5	0956	11	400.0			
	408 TRST	42	0954.8	0956.4	10	140.0D			
	408 TRST			0959.3		130.0D			
	315 DWIN	41	0954	0956	6	300.0D			
	4995 CANR	3	0955.5	0956.5	1.5	6.0	2.0		
	1420 CANR	45	0955	0956.5	7	7.0	2.0		
	1420 CRON	45	0955.5	0957	7.5	8.0	2.0		
	808 ONDR	45	0955.5	0956.5	5	220.0			
	550 KIEV	6	0955	0956.9	6.2	100.0			
	234 POTS	40	0955.4	0956.4	8.2	900.0	18.0		
	113 POTS	40	0955.6	0956.5	8.2	700.0	30.0		
	29 UPIC	45	0955	0957	5				
	23 POTS	40	0955.5	0955.8	4.5U	5000.0	500.0		
	9500 BERL	1	0956	0956.6	1	5.3	2.1		
	8800 ATHN	1	0956.2	0956.6	1.5	8.1	2.4		
	4995 ATHN	1	0956.1	0956.7	6.9	3.8	.9		
	3100 CRIM	45	0956	0957	6	2.0	1.0		
	3100 CRIM		0956	0959		2.0	1.0		
	3000 BERL	20	0956	0959.5	29	2.3	0.7		
	2695 CANR	45	0956.5	0957.5	5.5	4.0	1.0		
	2695 ATHN	1	0956.4	0956.7	1.3	3.1	.8		
	1415 ATHN	1	0956.2	0956.5	4.9	6.6	1.8		
	510 POTS	40	0956.2	0956.4	4.1	550.0	10.0		
	210 IZMI	48	0956.2	0956.9	1.7	1400.0	860.0		
	29 UPIC	45	1010	1014	7				
	408 TRST	45	1018.4	1018.5	.4	35.0	11.0		
	234 POTS	45	1018.5	1018.5	.1	45.0	9.0		
	536 ONDR	45	1053	1101	16	50.0			
	408 TRST	42	1053.8	1054.4	14.2	80.0D			
	408 TRST		1053.8	1056.3		49.0			
	408 TRST		1053.8	1100.8		83.0D			
	408 TRST		1053.8	1104		86.0D			
	808 ONDR	45	1056	1101	7.5	65.0			
	234 POTS	41	1056.4	1103.9	9.1	500.0	15.0		
	113 POTS	41	1056.4	1104.2	9.3	1400.0	70.0		
	510 POTS	45	1057	1103.9	7.2U	280.0	20.0		
	29 UPIC	45	1057		11				
	283 DWIN	41	1058		6	100.0D			
	3000 BERL	46	1059.5	1104.2	8.5	6.5	1.8		
	2830 ARCE	22	1059.2	1104.3	16 U				
	8800 ATHN	2	1100.7	1104.2	7.6	9.5	2.4		
	4995 ATHN	4	1100.7	1104.2	10.6	16.4	3.6		
	3100 CRIM	41	1100	1105	10	9.0	3.0		
	2695 CANR	45	1100	1105.5	10.5	10.0	3.0		
	2695 ATHN	2	1100.7	1104.1	7.9	4.5	1.5		
	1500 BERL	46	1100.2	1104.3	7.8	60.0	12.0		
	1415 ATHN	4	1100.6	1104.1	7.7	60.6	6.0		
	550 KIEV	41	1100.2	1104.2	6	236.0			
	315 DWIN	41	1100	1103	5	300.0D			
	1420 CANR	45	1101	1104.5	9	59.0	16.0		
	9500 BERL	1	1103.5	1104	2.5	9.2	3.4		
	4995 CANR	8	1103.5	1104	3.5	18.0	7.0		
	210 IZMI	6	1103.7	1104	2	1000.0	740.0		
	23 POTS	45	1103.2	1104.7	4.2	9000.0	9999.0D		
	4995 CANR	3	1146.5	1147.5	2.5	6.0	2.0		
	3000 BERL	4	1146	1148	4.3	9.0	2.1		
	8800 ATHN	1	1147.6	1148.2	5.4	1.6	.5		
	4995 ATHN	1	1147.6	1148.1	3.6	4.6	1.8		
	3100 CRIM	3	1147	1149	5	11.0	4.0		
	2830 ARCE	3	1147	1148.2	2.4				

RECORD DIST

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

NOVEMBER 1973

NOV. 1973	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		
26	2695 ATHN	3	1147.4	1148.1	4.2	19.6	4.5		
	1500 BERL	4	1147	1148.2	4	45.0	7.0		
	1420 CANR	8	1147	1148	4	59.0	13.0		
	1415 ATHN	3	1147.1	1148.1	4.1	57.0	5.4		
	808 ONDR	45	1147	1148	4.5	90.0			
	550 KIEV	6	1147.7	1148.6	2.2	88.0			
	536 ONDR	45	1147	1148	4.5	80.0			
	408 TRST	41	1147	1148.2	2.5	250.0			
	315 DWIN	45	1147	1147	2	300.00			
	283 DWIN	45	1147		2	100.00			
	2695 CANR	8	1148	1149	3.5	32.0	11.0		
	8800 ATHN	22	1335.8	1349.2	21.7	11.1	3.2		
	4995 ATHN	22	1335.7	1349.2	24.3	16.4	2.7		
	2800 OTTA	23	1335	1341	27	3.4	1.4		
	2695 ATHN	22	1335.8	1349	20.3	13.6	2.3		
	315 DWIN	41	1335		20	300.00			
	283 DWIN	41	1335		18	100.00			
	1415 ATHN	23	1336	1337.7	19.7	6.0	1.8		
	536 ONDR	45	1336.5	1338	5	80.0			
	4995 CANR	45	1337.5	1350	21	19.0	5.0		
	2695 CANR	45	1337	1350.5	24	20.0	4.0		
	960 PENN	45	1337.4	1337.8	.9	12.7	2.8		
	808 ONDR	45	1337	1337.5	2	70.0			
	510 POTS	41	1337.6	1355.7	18	150.0	2.0		
	234 POTS	41	1337.5	1348.8	18	800.0	15.0		
	113 POTS	41	1337.5	1337.7	18	14000.0	140.0		
	23 POTS	45	1339.2	1339.8	2.5	12000.0	120.0		
	960 PENN	45	1340.4	1341.4	1.2	3.2	1.0		
	29 UPIC	45	1340	1348.5	10.5				
	10700 PENN	20	1345.6	1352.4	14.5	9.6	4.4		
	2800 OTTA	4	1345	1350	17	17.6	4.4		
	960 PENN	45	1345.6	1349.7	5	11.1	3.2		
	9400 HUAN	20	1346.8	1350.5	11.8	15.4	6.7		
	3000 BERL	4	1346	1349.5	10	12.0	2.8		
	1500 BERL	4	1346	1348.5	9 U	32.00	7.0		
	1420 CANR	45	1346	1348.5	14	53.0	8.0		
	536 ONDR	45	1346	1352	10	90.0			
	9500 BERL	20	1347.5	1351	9 U	9.4	3.9		
	4995 SGMR	4	1348.2	1350.1	7	13.1	3.9		
	2830 ARCE	3	1348.4	1350	5.5				
	2695 SGMR	4	1348.2	1349.5	5.8	14.9	4.5		
	1415 ATHN	4	1348.4	1348.5	1.6	56.4	9.4		
	808 ONDR	45	1348	1349.5	8.5	60.0			
	960 PENN	29	1350.6	1350.6	8.7	2.4	1.2		
	960 PENN	8	1352.2	1352.3	.2	11.1			
	245 SGMR	6	1402.2	1410.6	9.4	79.0	20.0		
	410 SGMR	6	1405	1405.7	2.3	15.3	4.0		
	960 PENN	20	1420.7	1507.3	77.5	2.4	1.2		
	2800 OTTA	27	1424		85	.8	0.7		
	2800 OTTA	24	1424	1425	1	.8	0.4		
	2800 OTTA	24	1425		76	.8			
	283 DWIN	41	1425		9	100.00			
	10500 BERN	4	1426.9	1427.8	2	19.0			
	9400 HUAN	2	1426.9	1427.5	2.7	17.1	7.7		
	4995 BOUL	45	1426.5	1428	2.5	44.0	13.0		
	2800 OTTA	4	1426.8	1428	3	14.2	6.8		
	315 DWIN	41	1426	1427	9	300.00			
	10700 PENN	3	1427.2	1427.9	2.3	11.4	4.7		
	8800 SGMR	4	1427.1	1428.9	4.6	34.4	10.3		
	8800 ATHN	4	1427	1428	3.7	28.4	6.3		
	4995 SGMR	4	1427.9	1428.9	3.1	45.8	13.7		
	4995 CANR	45	1427	1428	9	46.0	17.0		
	4995 ATHN	4	1427	1427.9	3.8	41.9	10.9		
	2830 ARCE	3	1427	1428	2.5				
	2695 BOUL	8	1427.5	1428	2	10.0	3.0		
	2695 SGMR	4	1427	1428	4	13.2	4.0		
	2695 ATHN	4	1427	1427.9	3.8	12.1	3.0		
	1420 CANR	21	1427	1428.5	12	3.0	1.0		
	1415 SGMR	1	1427	1427	3	2.6	1.0		
	1415 ATHN	2	1427.1	1427.9	3.7	3.0	.9		
	960 PENN	45	1427	1427.8	3	2.4	0.6		
	606 SGMR	40	1427.1	1427.2	4.2	19.4	5.0		
	410 SGMR	6	1427.2	1427.3	1.4	180.0	45.0		
	245 SGMR	7	1427.2	1427.6	2.5	395.0	115.0		
	2695 CANR	8	1428	1429	3	13.0	4.0		
	29 UPIC	45	1428	1428.5	2				
	2800 OTTA	30	1429.8	1429.8	15	1.6	0.8		
	8800 SGMR	29	1431.7	1431.7	14.3	4.2	2.1		
	4995 SGMR	29	1431	1431	22	3.2	1.6		
	2695 SGMR	29	1431	1431	30	2.4	1.2		
	2800 OTTA	2	1433	1434.5	3	2.4	1.2		
	4995 BOUL	3	1519	1521	3.5	20.0	6.0		
	960 PENN	45	1519.3	1521.5	5	66.6	7.0		
	315 DWIN	45	1519		3	300.00			
	283 DWIN	45	1519		3	100.00			
	245 SGMR	48	1519.3	1520.6	8	1213.0	364.0		
	15400 SGMR	20	1520.8	1521.9	10.2	5.9	3.5		
	10700 PENN	3	1520.7	1522	11.1	11.6	3.6		
	9400 HUAN	2	1520.7	1522	2.3	13.4	6.6		
	8800 SGMR	4	1520.4	1521.9	9.6	21.4	6.4		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

NOVEMBER 1973

NOV. 1973	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		
26	4995 SGMR	46	1520.4	1521	11.1	17.3	6.7		AT SUNSET
	4995 SGMR	46		1521.3		22.4			
	4995 CANR	21	1520.5	1521.5	11.5	24.0	4.0		
	2830 ARCE	46		1521.3	3.6				
	2695 SGMR	46	1520.4	1520.7	12.2	62.7	28.2		
	2695 SGMR	46		1521.3		93.9			
	1420 BOUL	45	1520	1523	7.5	51.0	13.0		
	1420 CANR	45	1520	1522	8	68.0	21.0		
	1415 SGMR	46	1520.4	1520.7	10.1	42.4	23.6		
	1415 SGMR	46		1521.8		78.6			
	606 SGMR	4	1520.1	1521.1	11.1	228.0	68.4		
	410 SGMR	6	1520.1	1522.2	7.4	233.0	70.0		
	2800 OTTA	4	1521	1521.5	3.5	30.0	14.0		
	2695 BOUL	45	1521	1522.5	10	61.0	18.0		
	2695 CANR	45	1521	1522	12.5	102.0	37.0		
	2800 OTTA	30	1524.5	1524.5	10	3.6	1.8		
	2800 OTTA	1	1525.5	1526	1.5	2.8	1.0		
	2800 OTTA	26	1541	1541	8	.8	0.4		
	2800 OTTA	23	1627	1712	200	2.4	1.4		
	2695 PENT	1	1649	1652	8	2.0	1.0		
	410 SGMR	6	1650.1	1652.1	3.8	51.0	15.3		
	245 SGMR	6	1650.3	1651.3	5.2	144.0	43.3		
	2695 BOUL	45	1725	1729.5	4.5	146.0	48.0		
	2800 OTTA	2	1954.6	1955	1.5	2.0	1.0		
	2695 BOUL	8	1954.5	1955.5	2	6.0	2.0		
	2695 PENT	2	1954.6	1955	1.5	2.0	1.0		
	1420 BOUL	3	1954.5	1955	1	1.0			
	245 SGMR	6	1954.2	1955.3	4.3	272.9	81.9		
	410 SGMR	6	1956.3	1956.9	1.2	3.3	1.0		
	208 VORO	6	2307	2308	1	640.0			
	200 HIRA	45	2308.5	2308.7	1	180.0	70.0		
	208 VORO	6	2312	2312	1	480.0			
	100 HIRA	45	2312.5	2312.5	1.5	200.0	40.0		
	606 MANI	41	2323.8	2324.9	9.7	11.0	9.8		
	208 VORO	49	2323	2325	2	1200.0			
	100 HIRA	45	2323	2324.6	2.5	600.0	70.0		
	500 HIRA	45	2324.5	2324.8	.5	130.0	45.0		
	200 HIRA	45	2325.5	2326	1.3	180.0	80.0		
	3750 TYKW	45	2327	2331.1	10	6.0	2.0		
	2695 CRON	3	2328.5	2330.5	3.5	7.0	2.0		
	2695 MANI	1	2328.3	2331.2	4.7	5.5	.9		
	2000 TYKW	45	2328	2331.4	7	7.0	1.5		
	1415 MANI	1	2328.3	2329.2	4.7	9.6	1.9		
	1000 TYKW	45	2328	2329.1	7	12.0	1.5		
	500 HIRA	45	2328.8	2329	1	390.0	80.0		
	208 VORO	49	2328	2328	4	1900.0			
	100 HIRA	45	2328	2329	4.5	1000.00	120.00		
	1420 CRON	3	2330	2332	2.5	5.0	2.0		
27	9400 TYKW	20	0120	0125	20	3.0	1.0		
	2000 TYKW	20	0120	0123.9	20	7.0	1.5		
	4995 CRON	3	0121.5	0124	4	5.0	1.0		
	4995 MANI	20	0122.1	0130.2	15.9	16.8	4.2		
	2695 CRON	45	0122	0122.5	3	6.0	2.0		
	1000 TYKW	45	0122	0124	3 D	5.0	1.50		
	3750 TYKW	20	0123	0124	15	2.0	1.0		
	2695 MANI	20	0123	0123.8	15	5.5	.9		
	1420 CRON	3	0123	0124	2	6.0	2.0		
	1415 MANI	22	0123	0124.2	15	6.2	1.4		
	606 MANI	22	0123.2	0133	14.8	5.9	1.5		
	208 VORO	7	0123	0126	16	130.0			
	606 MANI	41	0246.7	0257.5	12.3	8.5	.9		
	208 VORO	6	0246	0250	9	1200.0			
	1415 MANI	1	0250.4	0251.1	4.6	4.7	.5		
	200 HIRA	45	0250	0250.2	2.5	180.0	50.0		
	4995 CRON	3	0301	0312	11.5	23.0	6.0		
	9750 IRKU	1	0305	0307	5	7.3			
	2695 CRON	45	0308.5	0311.5	10	29.0	12.0		
	4995 MANI	4	0309.8	0312.7	8.8	27.4	4.2		
	2695 MANI	4	0309.8	0312	8.8	29.1	7.3		
	1415 MANI	4	0309.2	0312.9	9.6	39.5	9.4		
	606 MANI	40	0309.2	0311.8	7.6	162.0	12.2		
	9400 TYKW	20	0310	0315	15	6.0	2.0		
	3750 TYKW	45	0310	0312.5	10	29.0	5.0		
	2000 TYKW	45	0310	0312	10	34.0	5.0		
	1000 TYKW	45	0310	0312	7	22.0	4.0		
	1420 CRON	3	0311	0313.5	5.5	35.0	13.0		
	200 HIRA	45	0311.5	0312.2	2	35.0	15.0		
	100 HIRA	45	0311.5	0313.7	3.5	110.0	30.0		
	9750 IRKU	20	0316.1	0317	1.2	5.8			
	200 HIRA	45	0350.5	0351.6	2	35.0	15.0		
	100 HIRA	45	0350	0350.8	2.5	150.0	30.0		
	9750 IRKU	20	0415	0425	13	6.0			
	606 MANI	40	0810.8	0817.5	10.8	26.4	7.4		
	260 ONDR	44	0810	0906.5	130	95.0			
	315 DWIN	44	0820	0902	420	150.0	25.0		
	283 DWIN	44	0820		420	100.00	35.0		
	234 POTS	41	0903.3	0903.4	3.8	500.0	8.0		
	260 ONDR	44	1020	1223	230	30.0			
	245 SGMR	44	1154 E	1232.6	554 D	41.8			

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

NOVEMBER 1973

NOV. 1973	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
28	1415 MANI	2	0817.6	0818.6	2.7	2.3	.9	2	
	536 ONDR	5	1333.5	1333.5	.5	35.0			
	18 MCMA	6	1336	1339	3				
	2800 OTTA	8	1822	1822.8	1	1.2			
	2800 OTTA	1	1904	1904.8	2.5	2.0	1.0		
	208 VORO	44	2300	0235	240	25.5			
	260 ONDR	44	0750	0852	380	65.0			
	4995 CANR	3	0805.5	0806.5	1.5	10.0	3.0		
	2695 CANR	3	0806	0807.5	2.5	8.0	2.0		
	1420 CANR	3	0806	0806.5	2	4.0	1.0		
29	2695 CANR	3	0827.5	0828.5	3.5	5.0	2.0		RECORD DIST
	4995 CANR	3	0828	0828.5	2.5	6.0	2.0		
	1420 CANR	3	0828	0829	3	2.0	1.0		
	550 KIEV	24	0836	0906	53	35.0			
	221 ABST	3	0854.7	0854.5	30	33.0			
	245 SGMR	44	1155 E	1725	554 D	63.5			
	9750 IRKU	1	0550.7	0551	1	3.0			
	260 ONDR	41	0720	0941.5	400	25.0			
	2800 OTTA	20	1452	1507	30	1.6	0.8		
	9240 ARCE	40	1510.2	1511	1.6				
30	2800 OTTA	20	1950	1952	10	1.6	0.8		
	260 ONDR	41	0730	1111	400	15.0			
	3100 CRIM	24	0856	0918	76	13.0	4.0		
	9240 ARCE	21	0905.6	0919	70				
	2830 ARCE	21	0910 U	0926.8	156 U				
	4995 CRON	3	0912.5	0918	7	7.0	2.0		
	2695 CRON	45	0913.5	0917.5	5.5	10.0	3.0		
	3000 BERL	4	0914	0918	31	10.0	1.2		
	2830 ARCE	4	0914.6	0918	5.5				
	2695 CANR	45	0914	0919	7.5	13.0	3.0		
	1500 BERL	22	0914	0918.2	21 U	3.0U	1.0U		
	4995 CANR	3	0916.5	0918	2.5	7.0	2.0		
	1420 CRON	3	0917	0918.5	2.5	3.0	1.0		
	1420 CANR	3	0918	0918.5	1.5	2.0	1.0		
	9240 ARCE	1	0938.2	0938.7	1.6				
	2800 OTTA	2	1323.5	1325.5	5.5	9.6	2.8		
	4995 CANR	3	1324.5	1326.5	3.5	8.0	3.0		
	2695 CANR	3	1325.5	1327	3.5	6.0	2.0		
	1420 CANR	3	1325.5	1326.5	2.5	2.0	1.0		
	2800 OTTA	20	1435	1700	300	3.4	2.0		
	9400 HUAN	20	1945.3	1958.2	29.5	10.1	6.4		
	2800 OTTA	21	1946	2008	110	6.8	4.0		
	4995 BOUL	45	1947.5	1948	7.5	16.0	5.0		
	2800 OTTA	3	1947	1948.3	2.5	23.4	11.7		
	1420 BOUL	45	1947.5	1948.5	6	10.0	3.0		
	2695 BOUL	45	1948	1949	5	21.0	6.0		
	2800 OTTA	30	1949.5	1949.5	8.5	5.8	2.9		
	2800 OTTA	1	1950.5	1951	2.5	2.6	1.9		

Observatories:

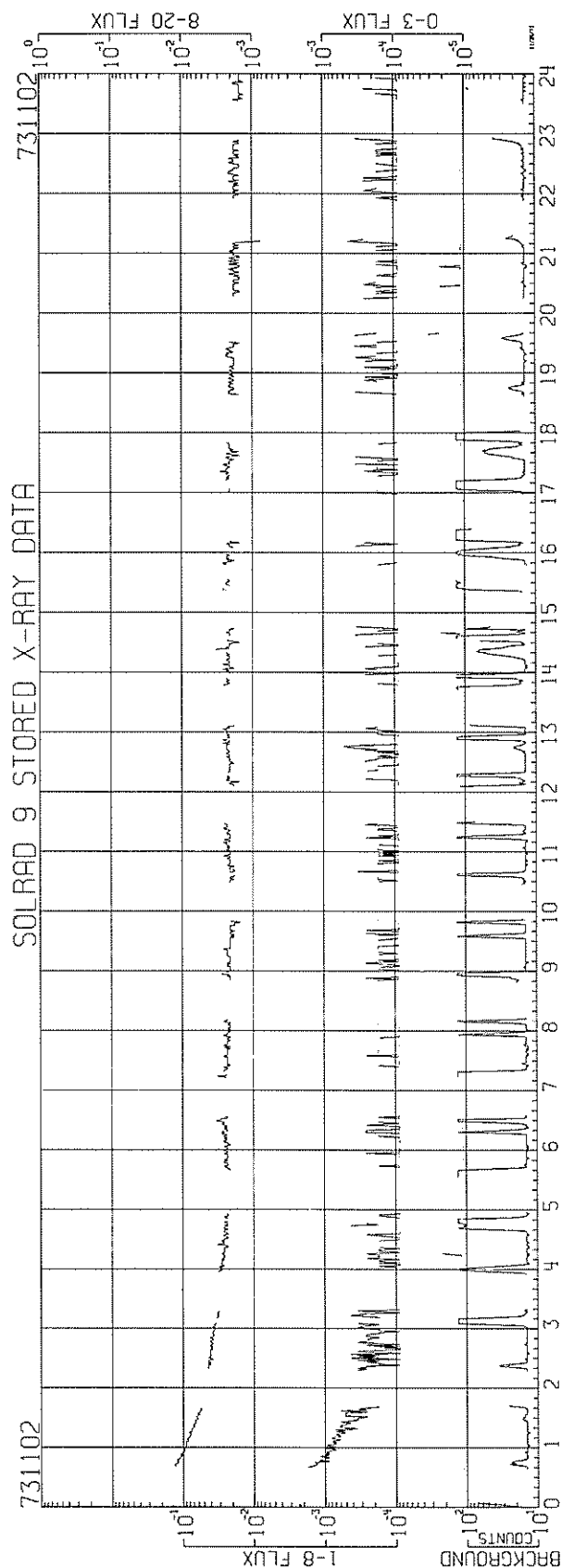
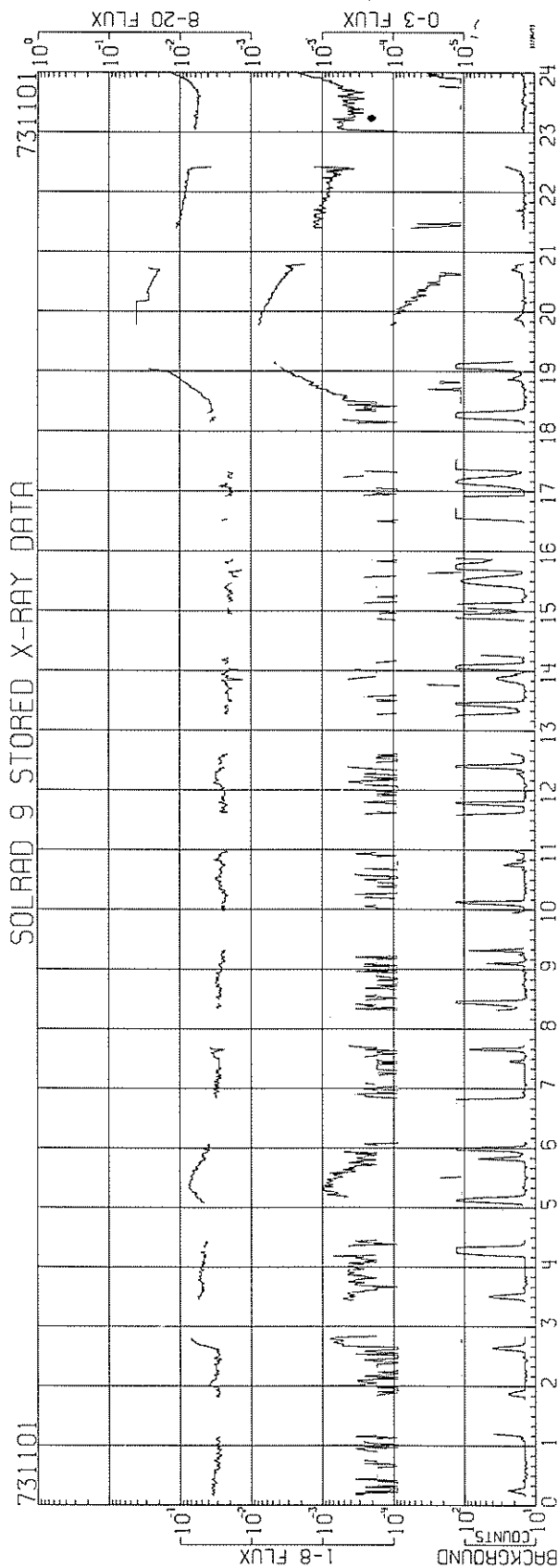
ABST = Abastumani	CANR = Canary Islands	HIRA = Hiraio	MANI = Manila	SAOP = Sao Paulo
ARCE = Arcetri	CRIM = Simferopol	HUAN = Huancayo	MCMA = McMath-Hulbert	SGMR = Sagamore Hill
BERL = Berlin-Adlershof	CRON = Carnarvon	IRKU = Irkutsk	ONDR = Ondrejov	SLOU = Slough
BERN = Berne	DWIN = Dwingeloo	IZMI = Moscow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

Explanation of Type Code:

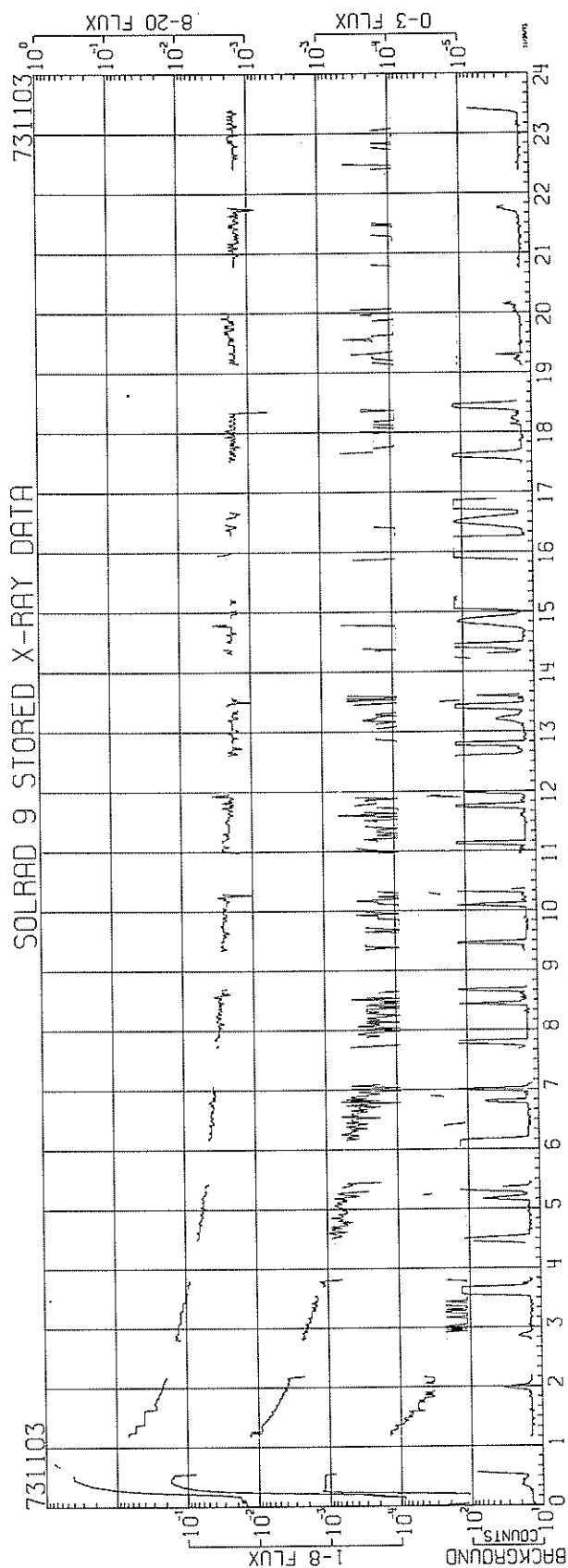
1 Simple 1	6 Minor	22 Simple 3F	27 Rise and Fall	32 Absorption	44 Noise Storm in Progress
2 Simple 1F	7 Minor +	23 Simple 3AF	28 Precursor	40 Fluctuation	45 Complex
3 Simple 2	8 Spike	24 Rise	29 Post Burst Increase	41 Group of Bursts	46 Complex F
4 Simple 2F	20 Simple 3	25 Rise A	30 Post Burst Increase 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 +

SOLAR X-RAYS MEASURED BY SATELLITE SOLRAD 9 - EXPLORER 37

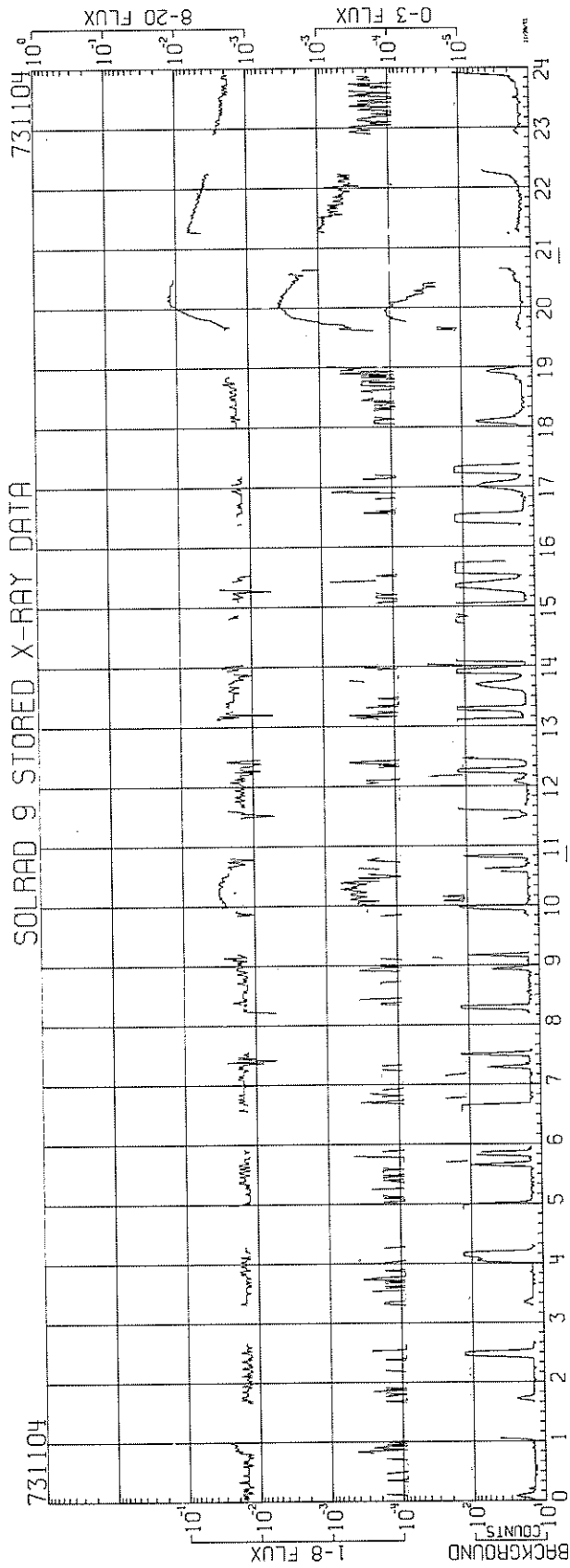
NOVEMBER 1973

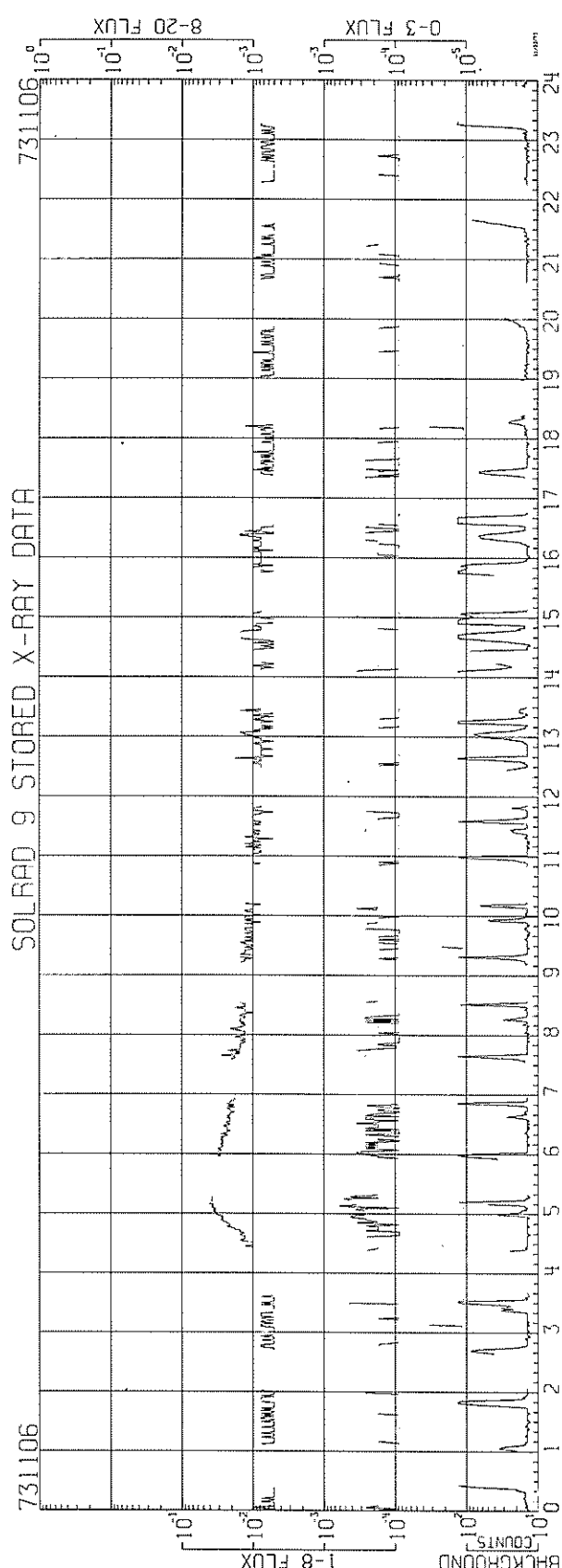
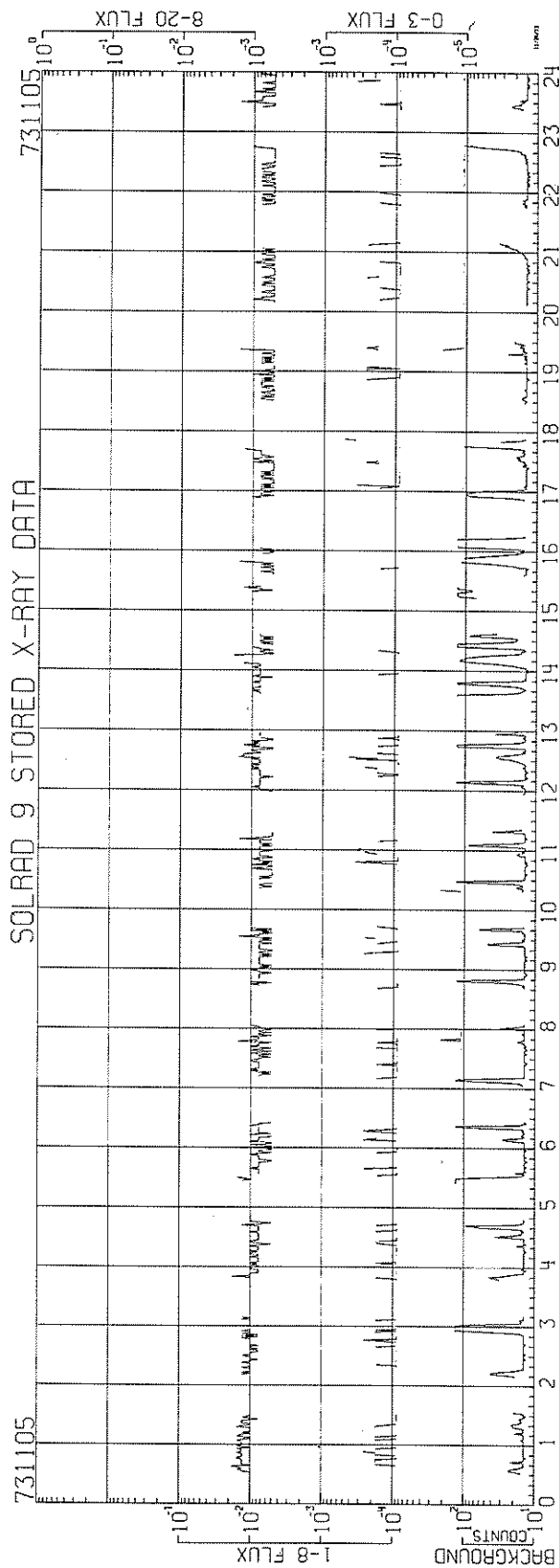


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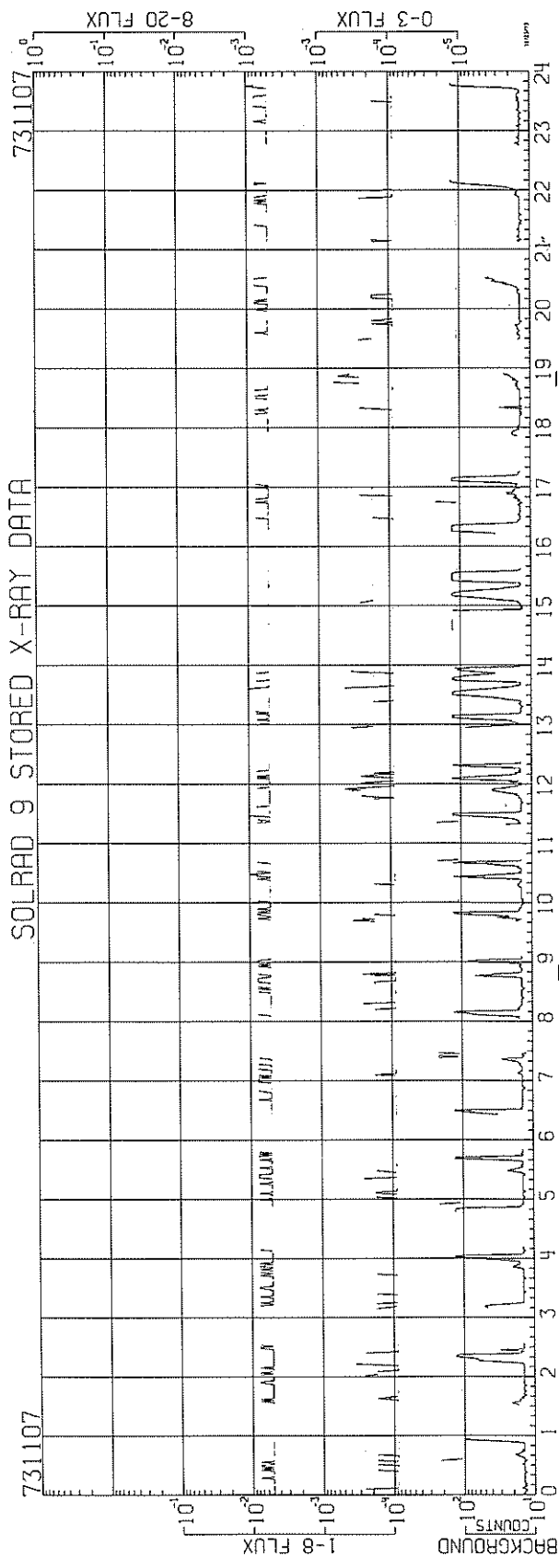


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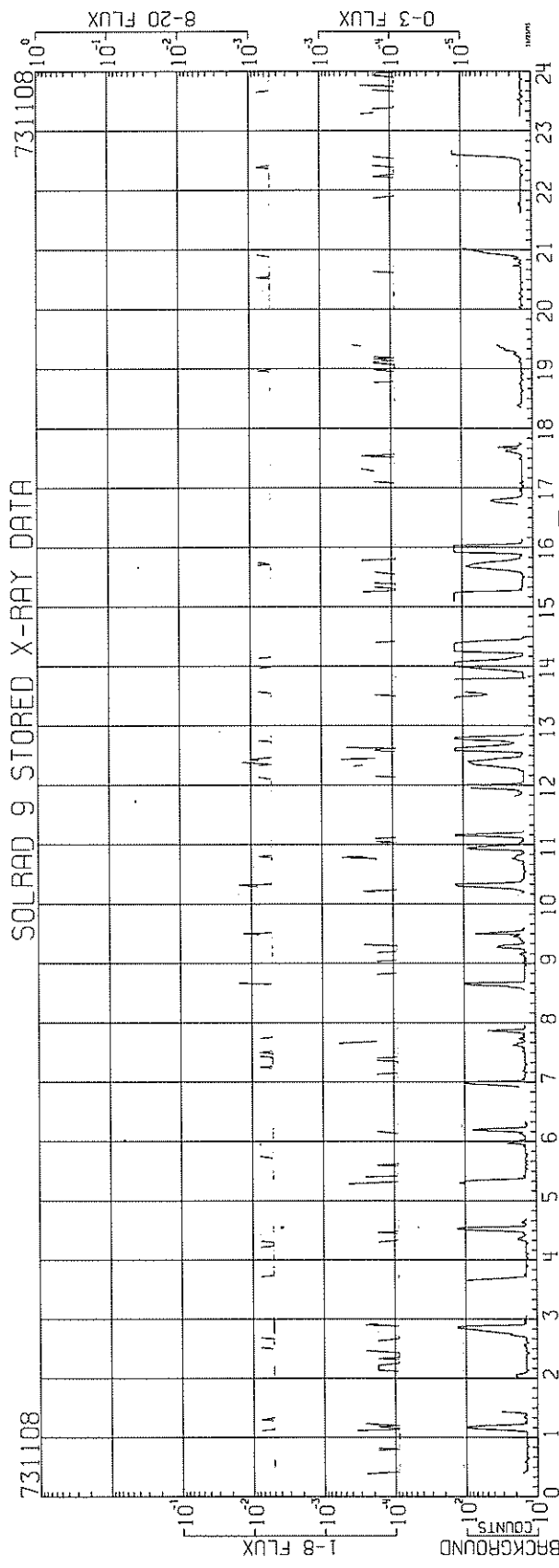


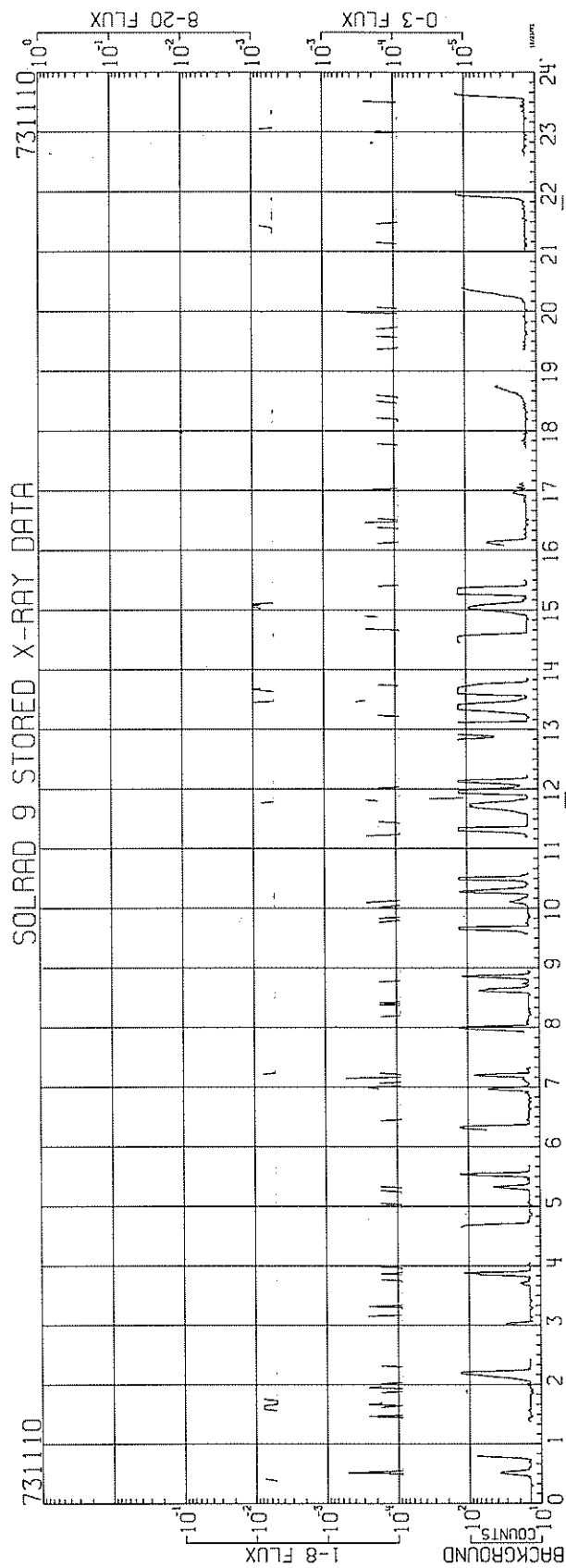
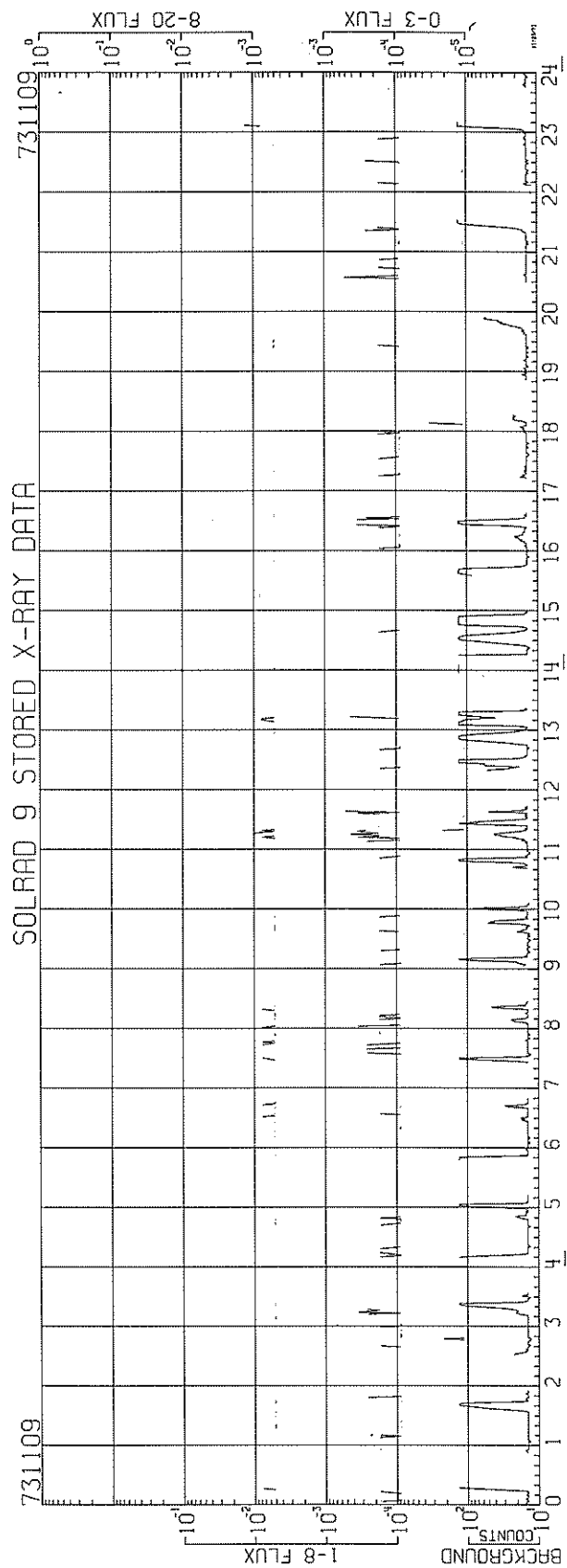


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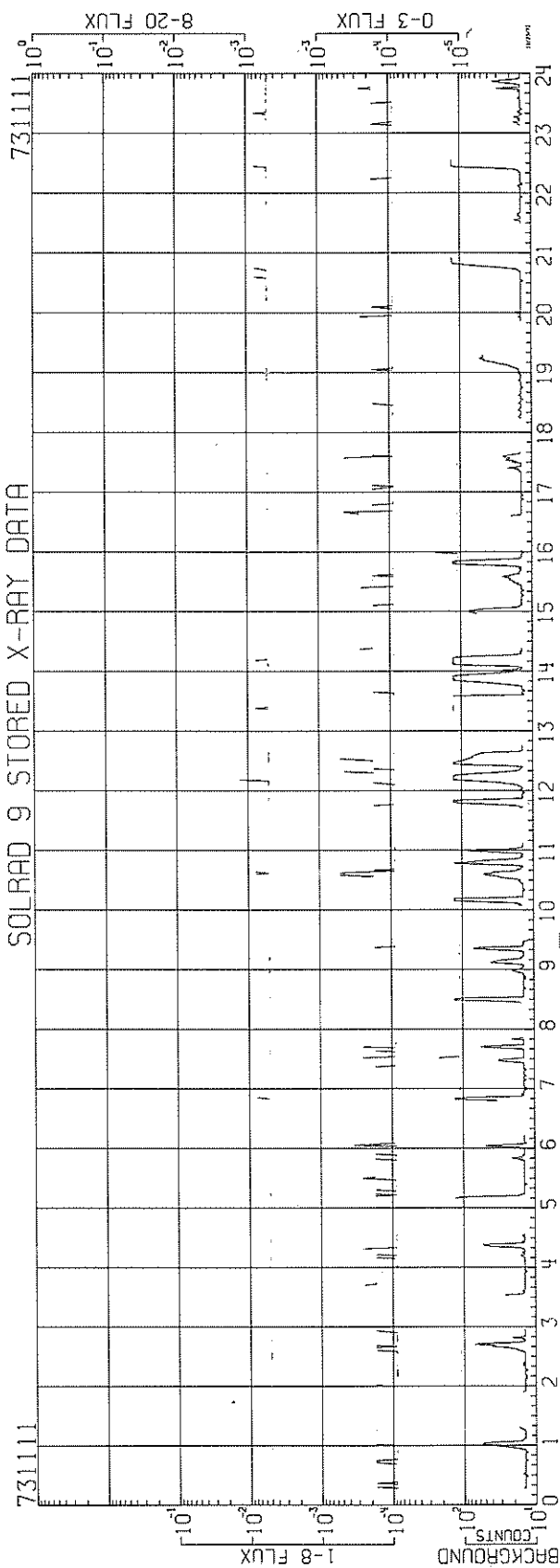


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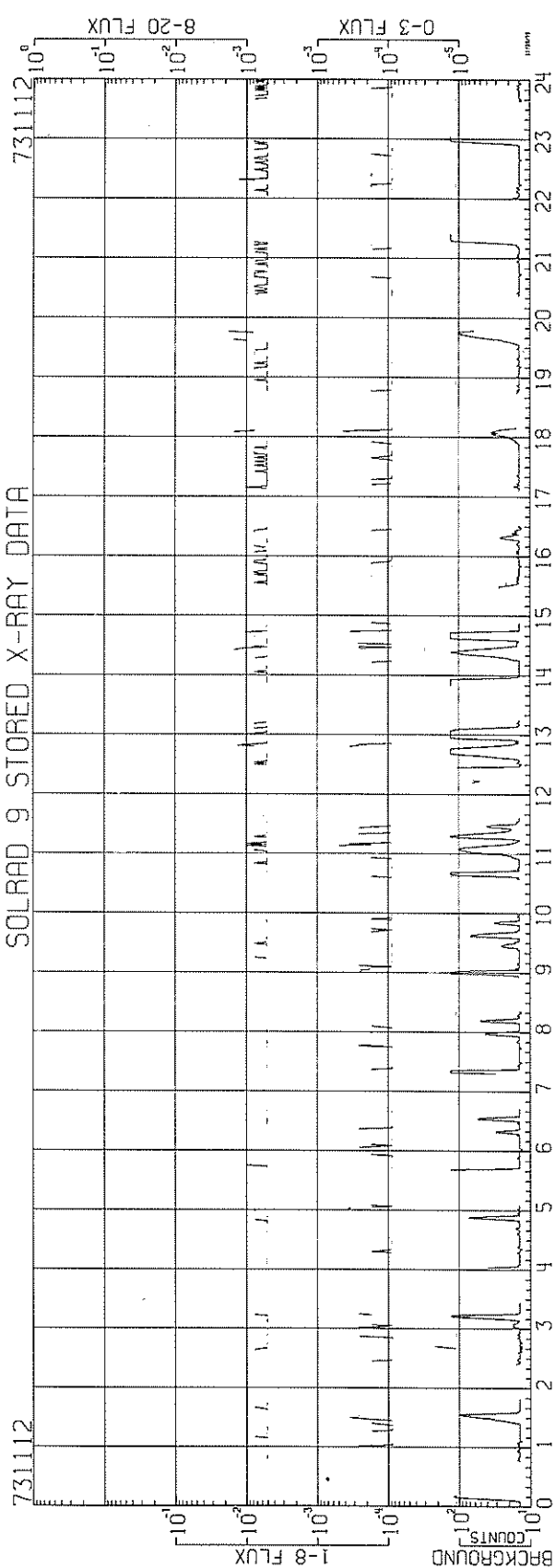


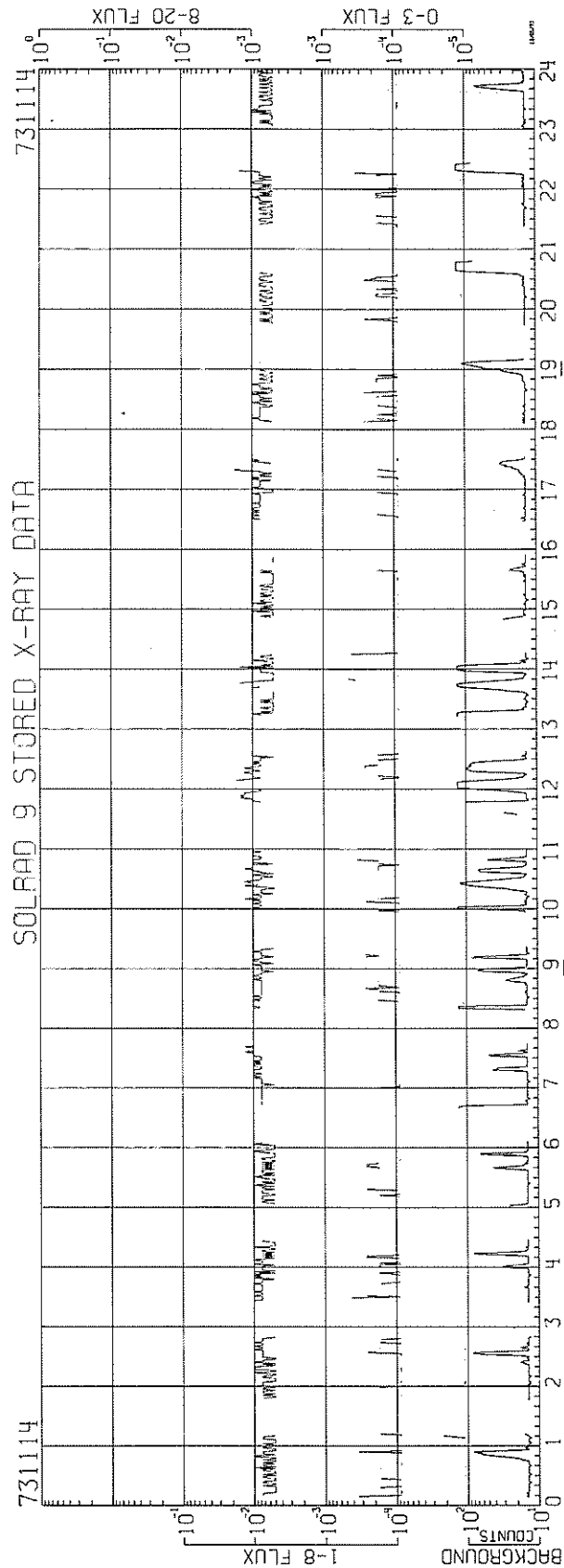
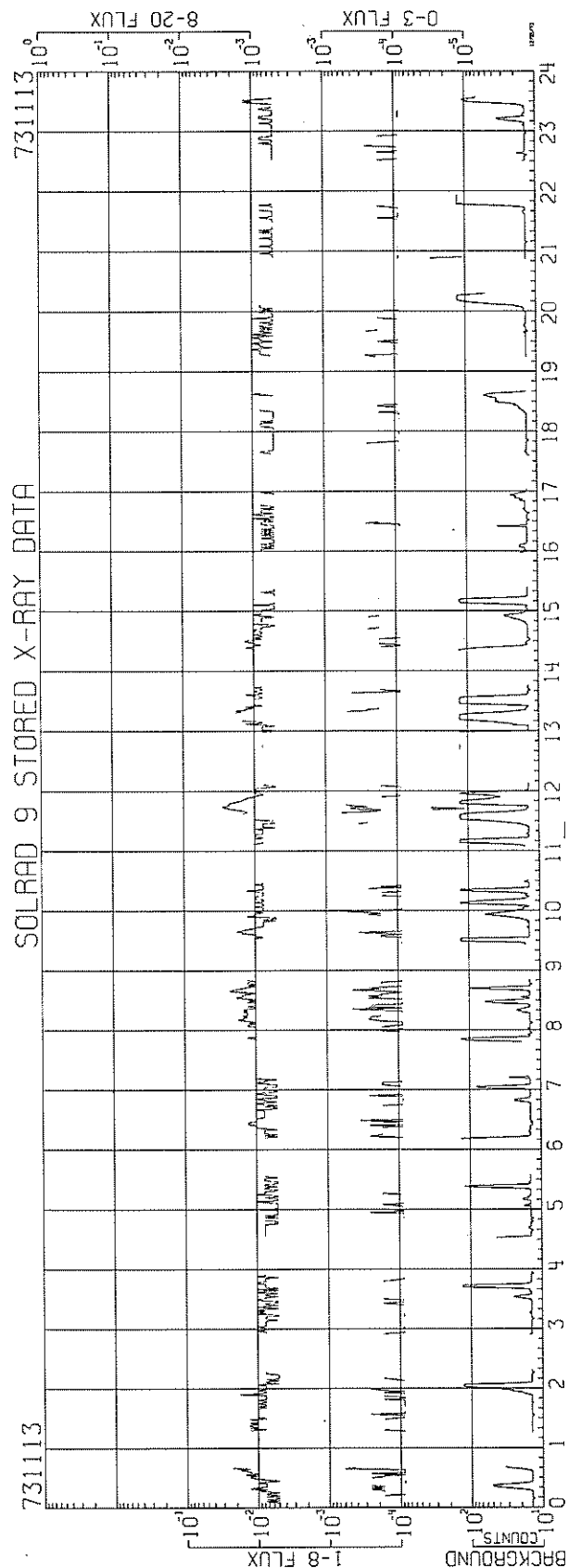


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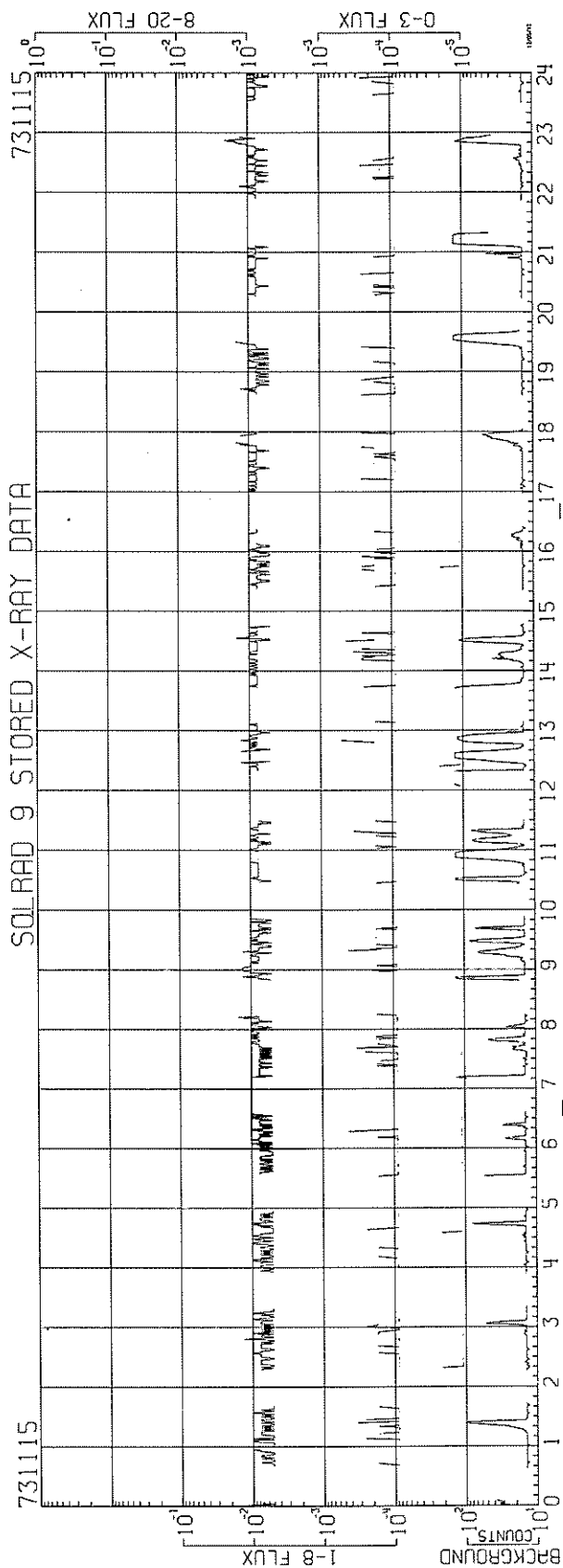


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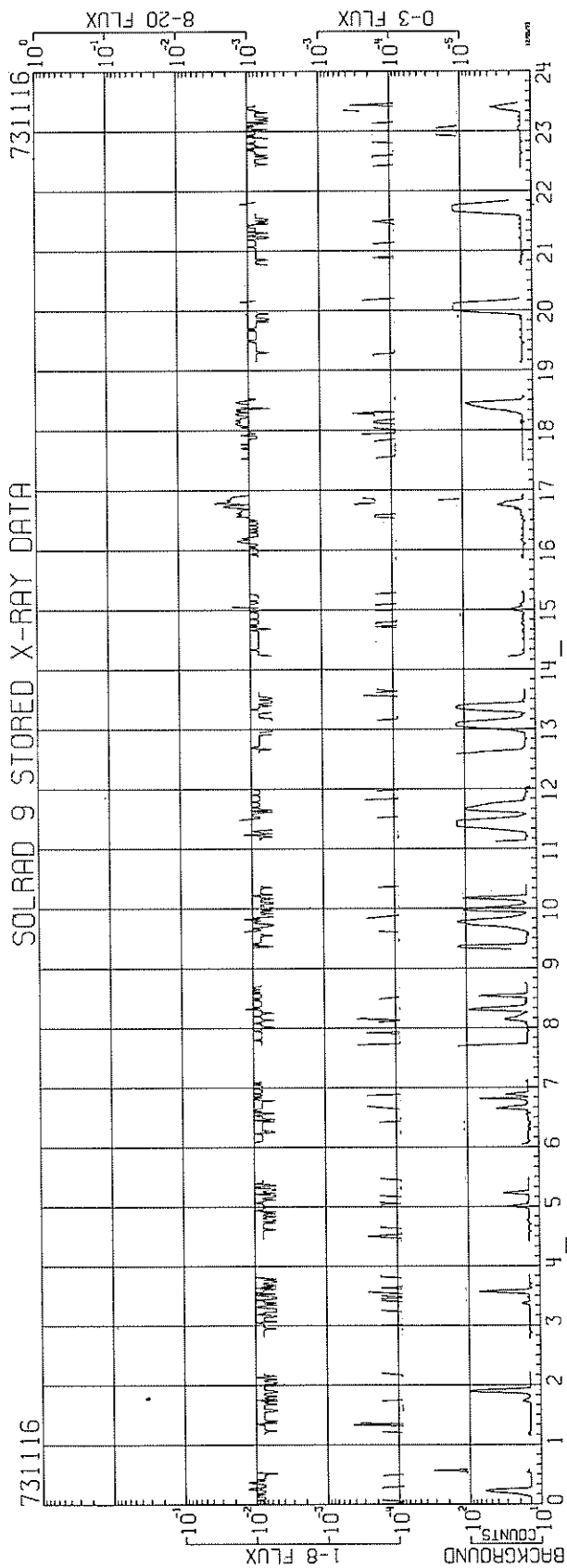


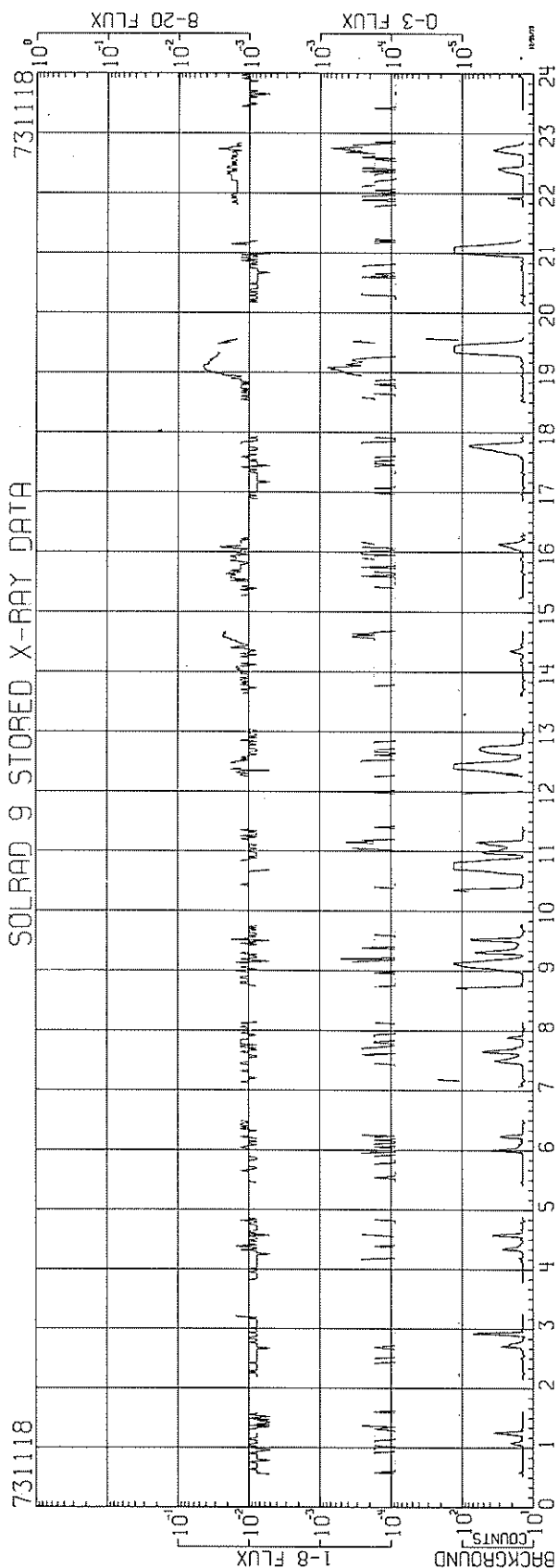
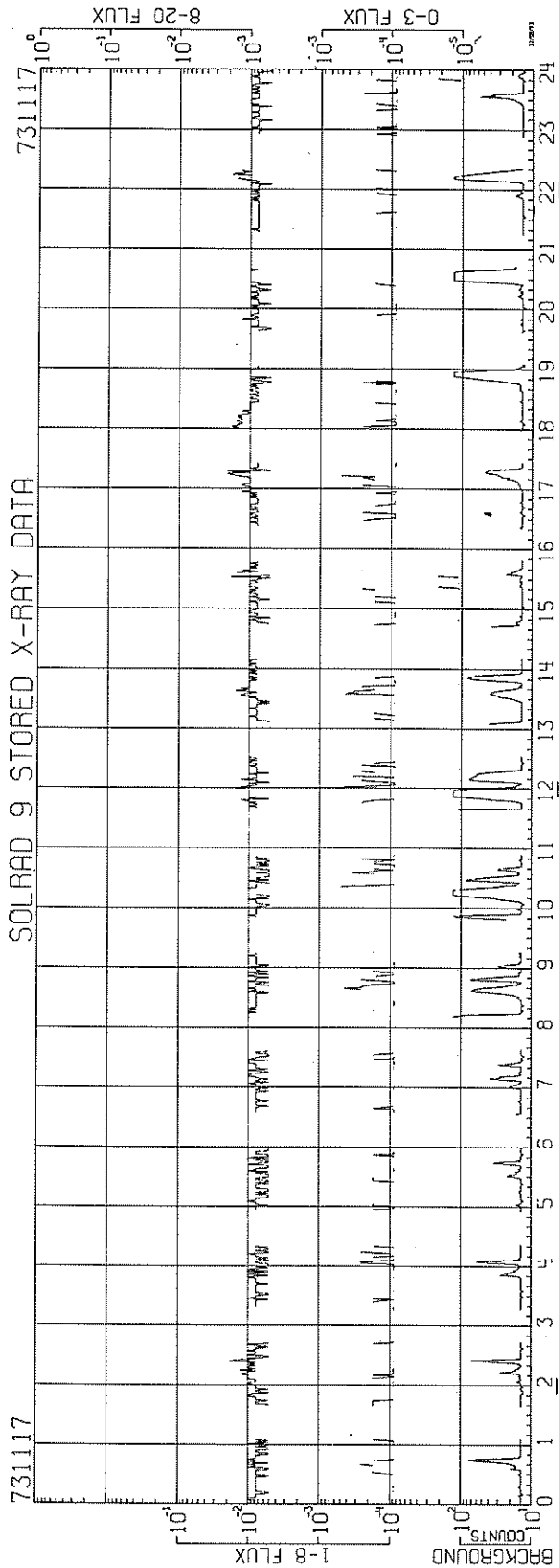


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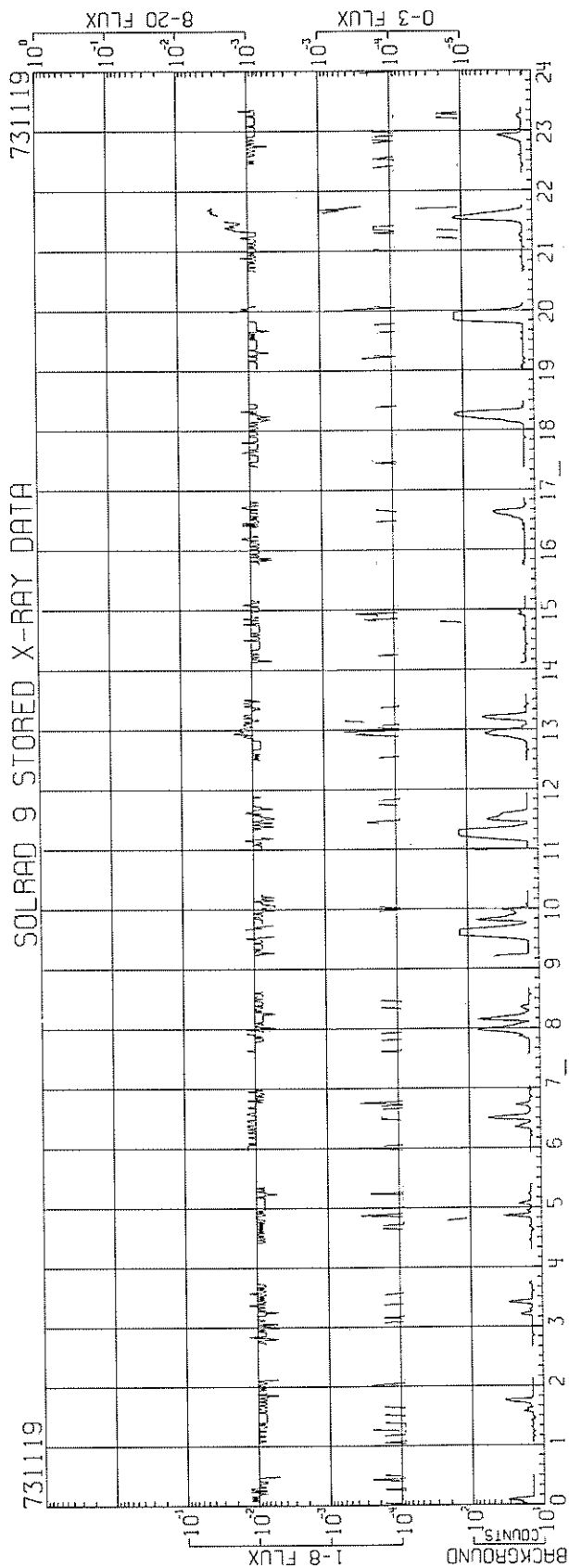
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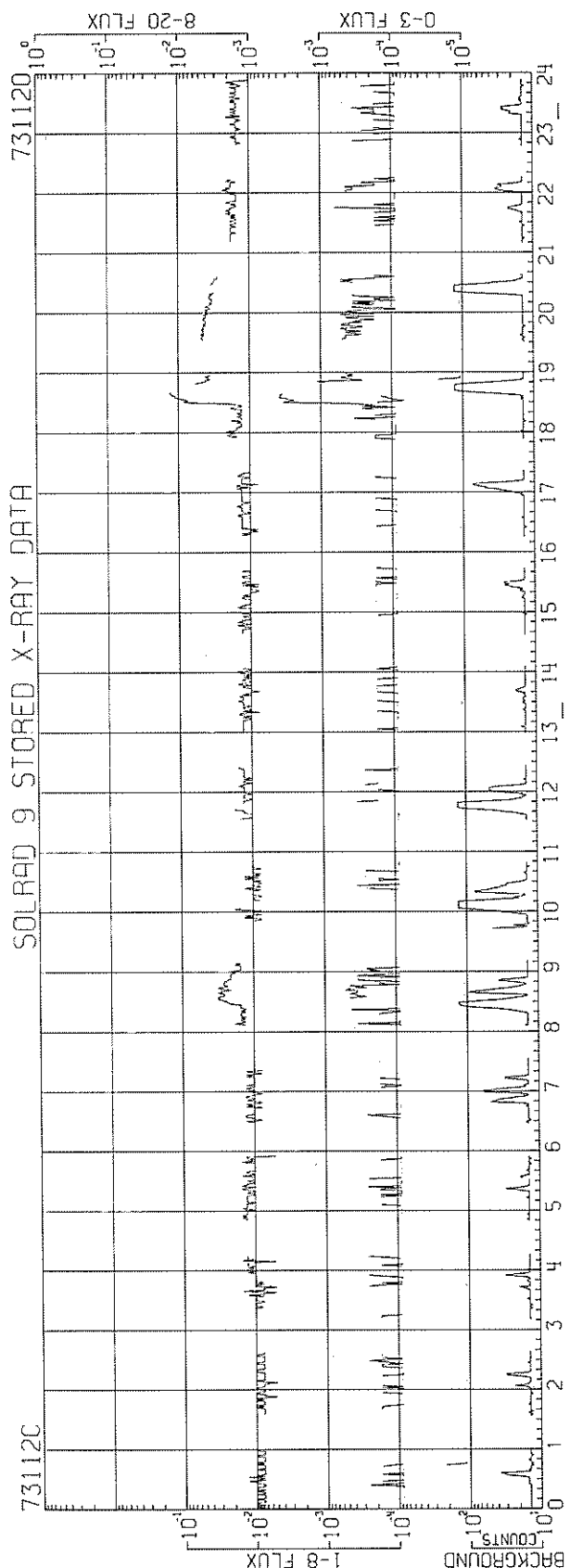


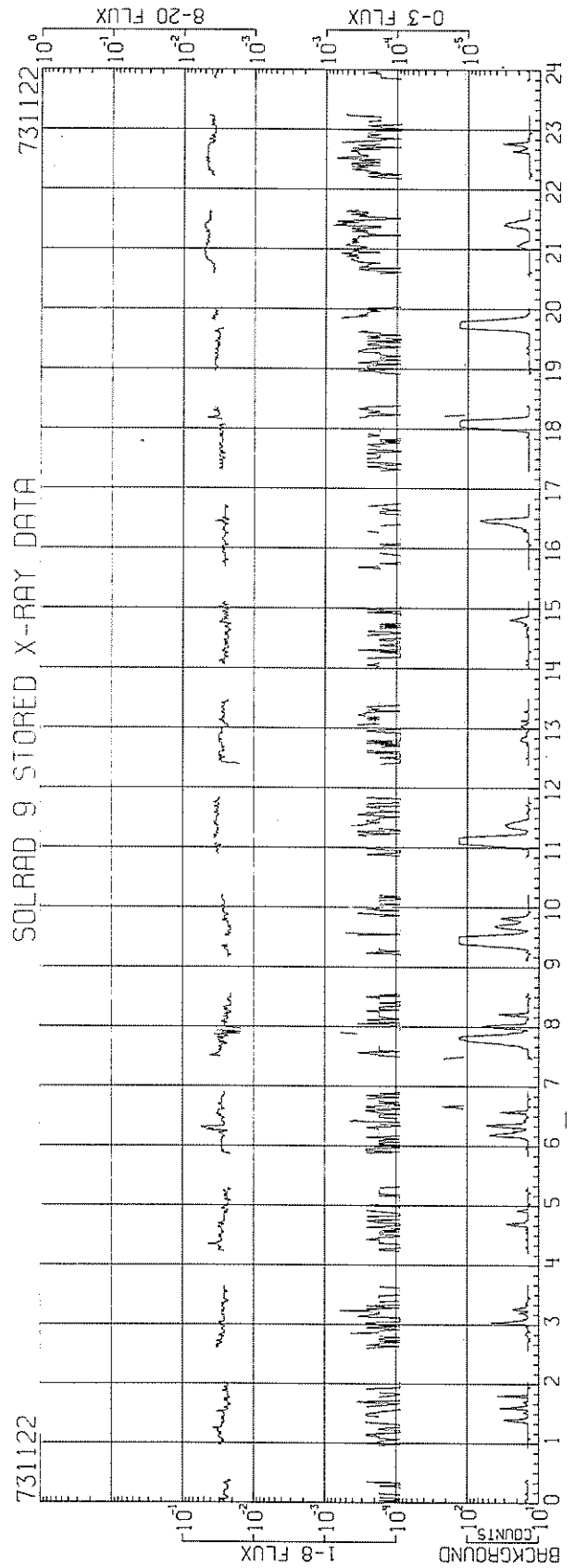
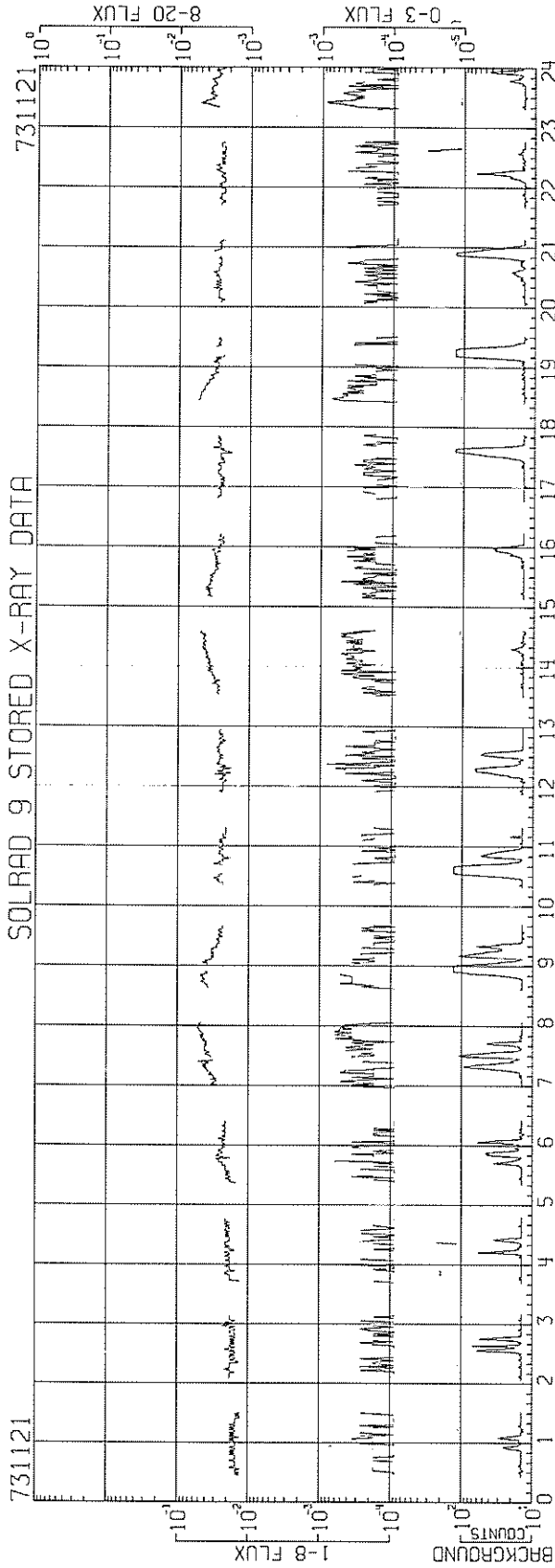
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SOLRAD 9 STORED X-RAY DATA

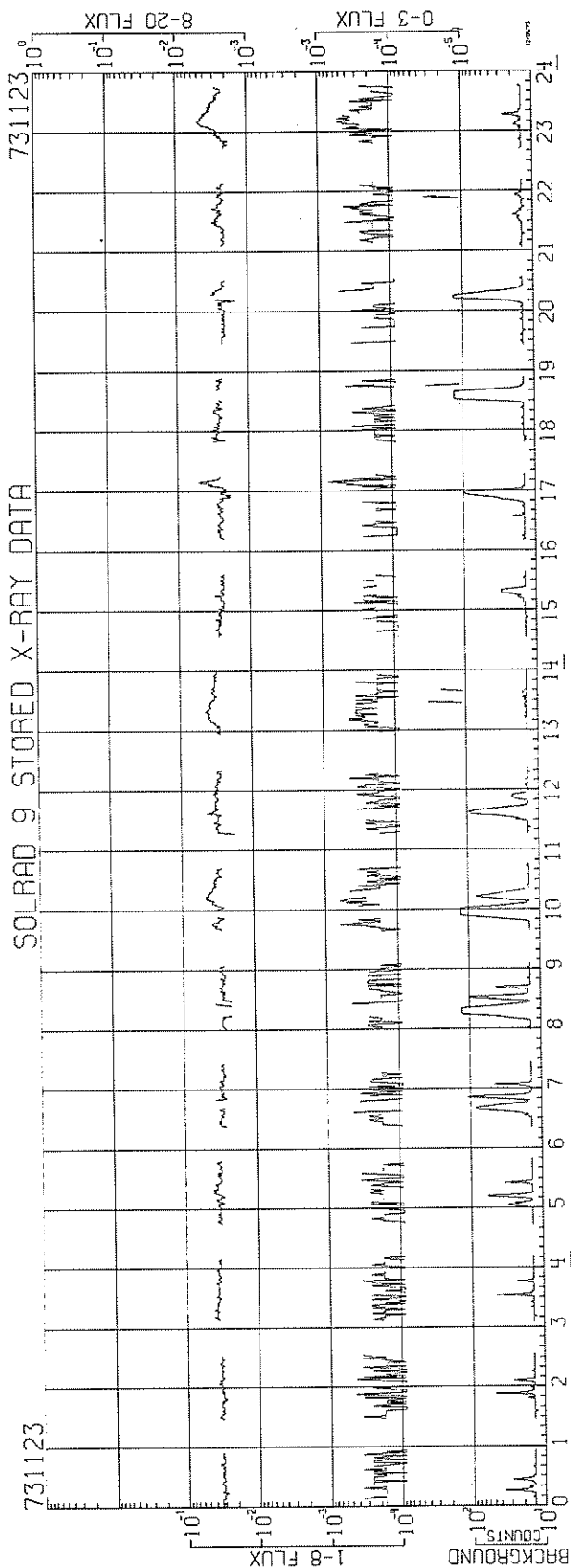


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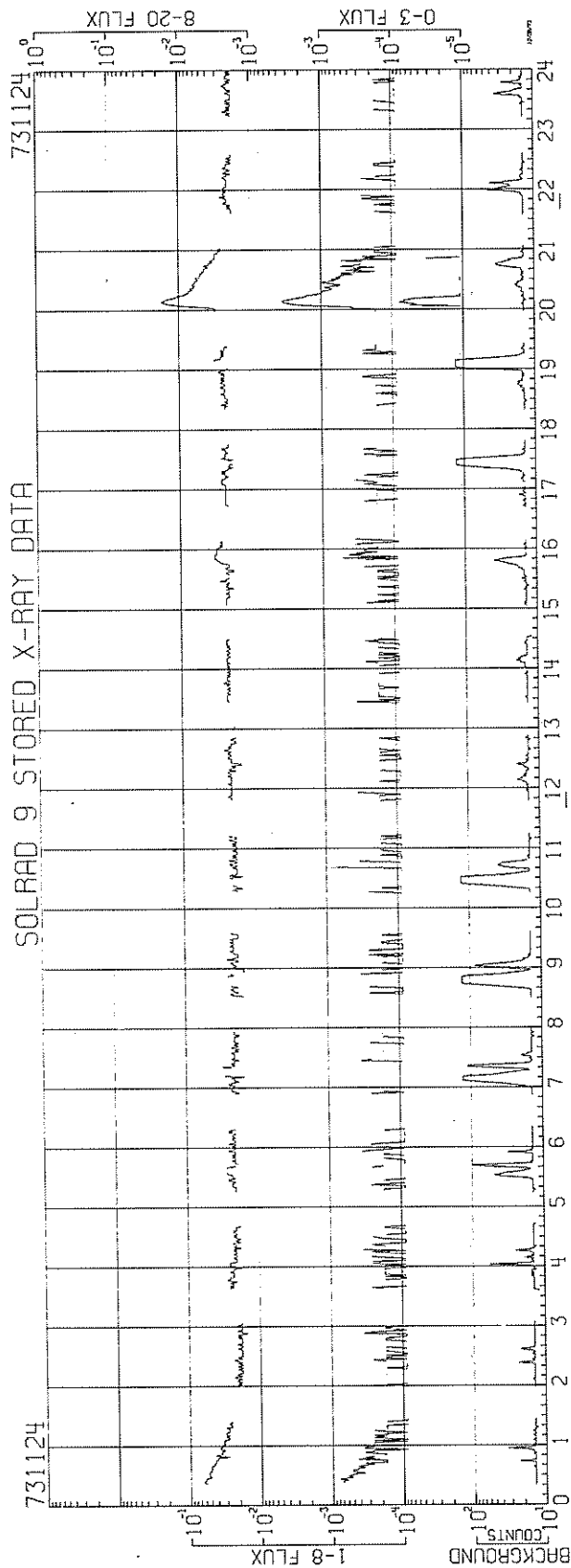


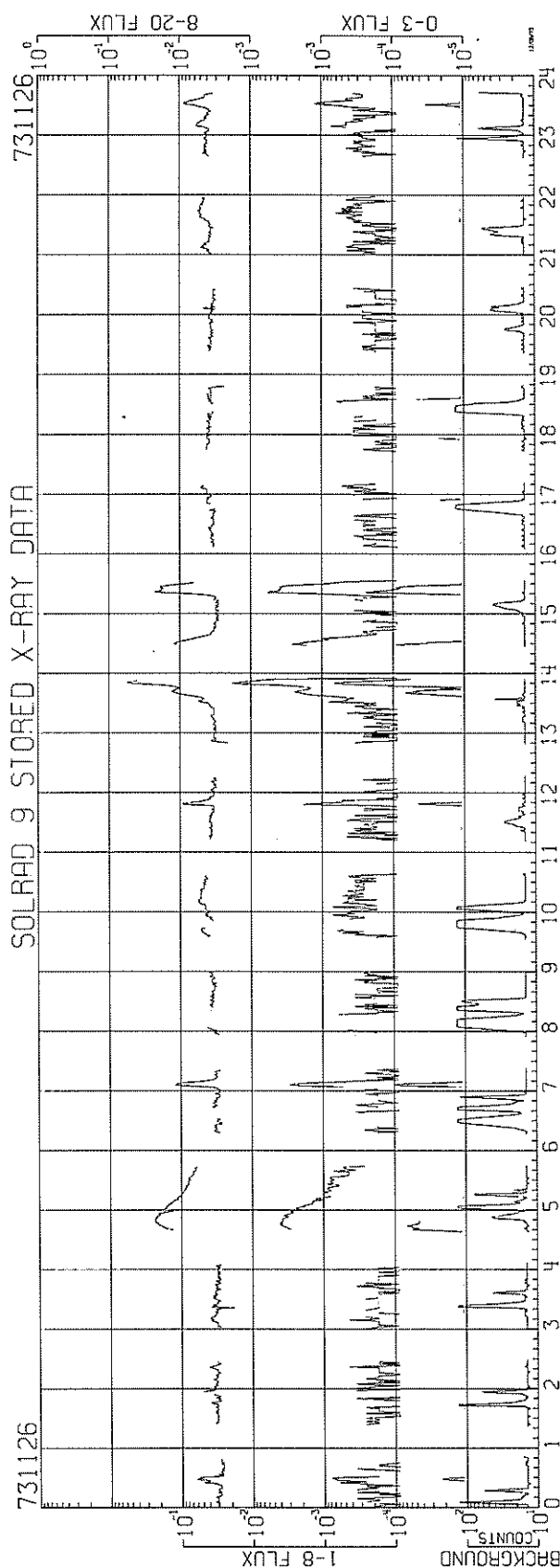
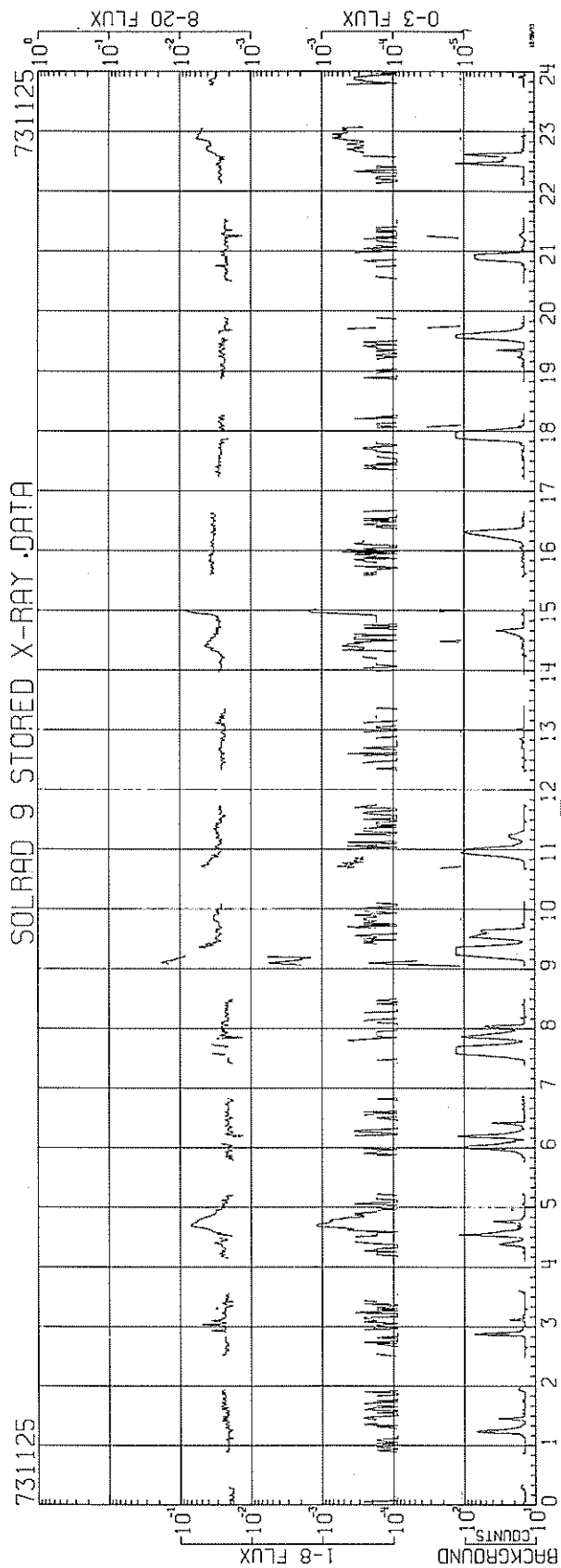


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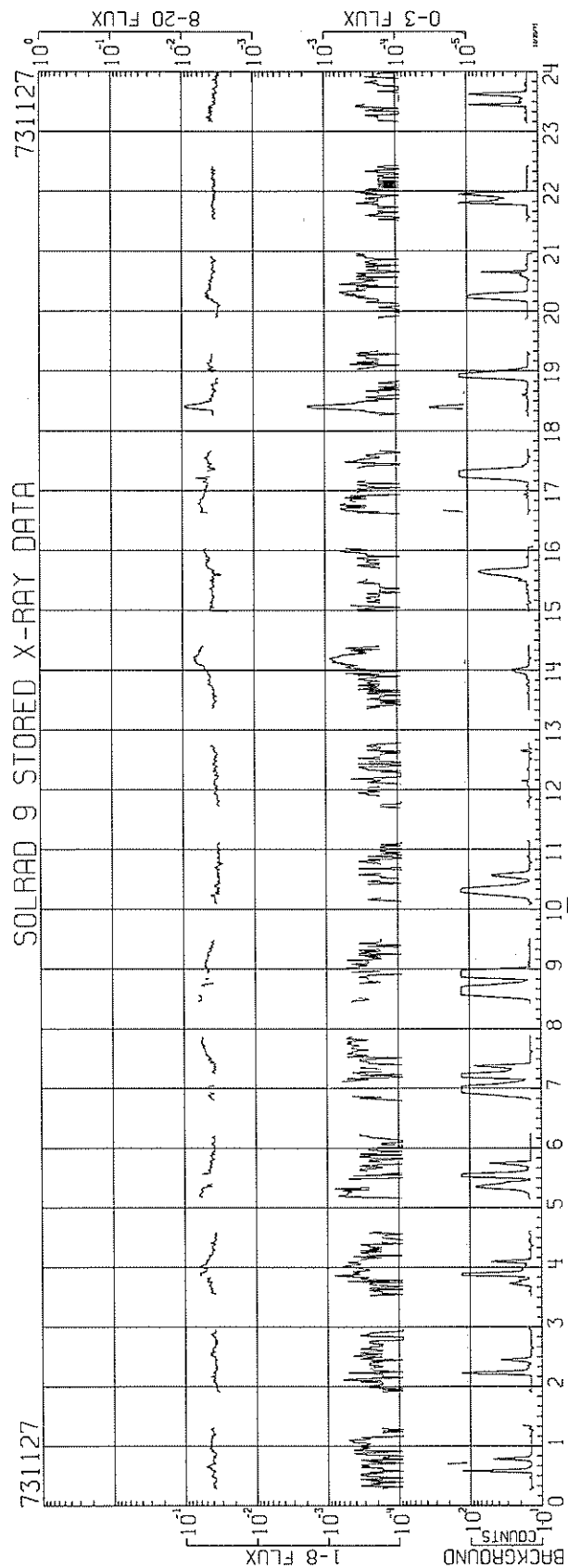


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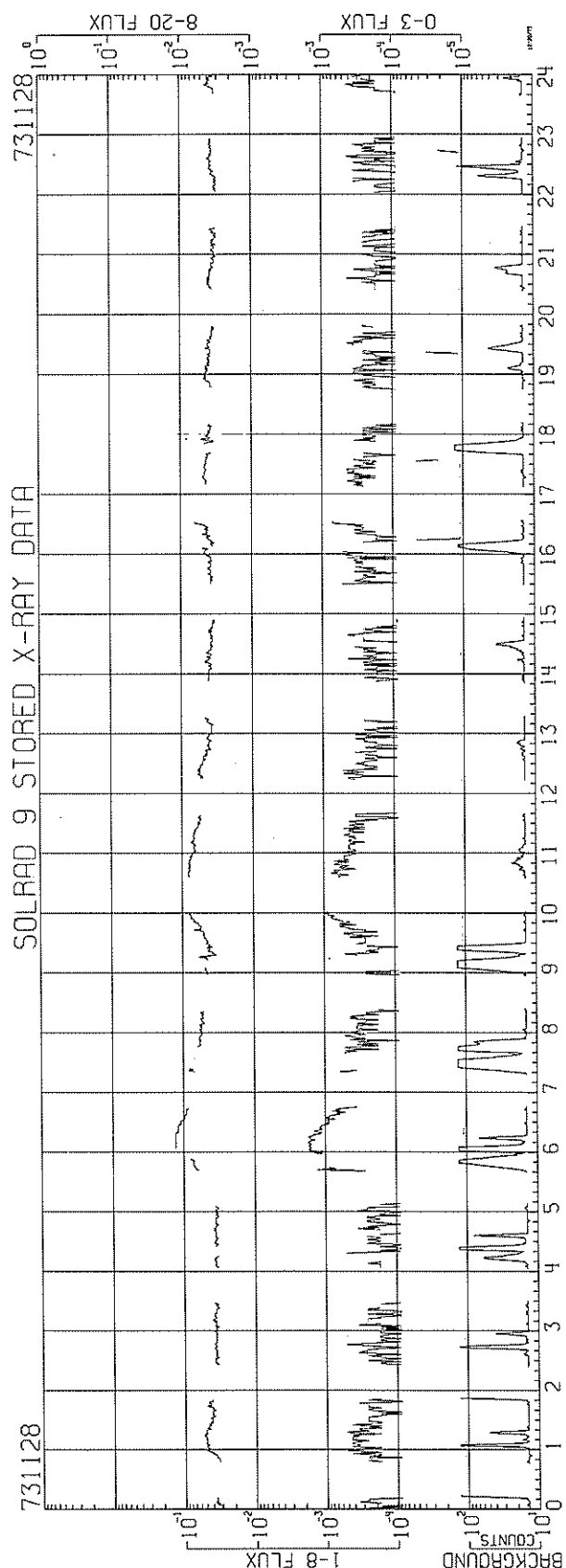




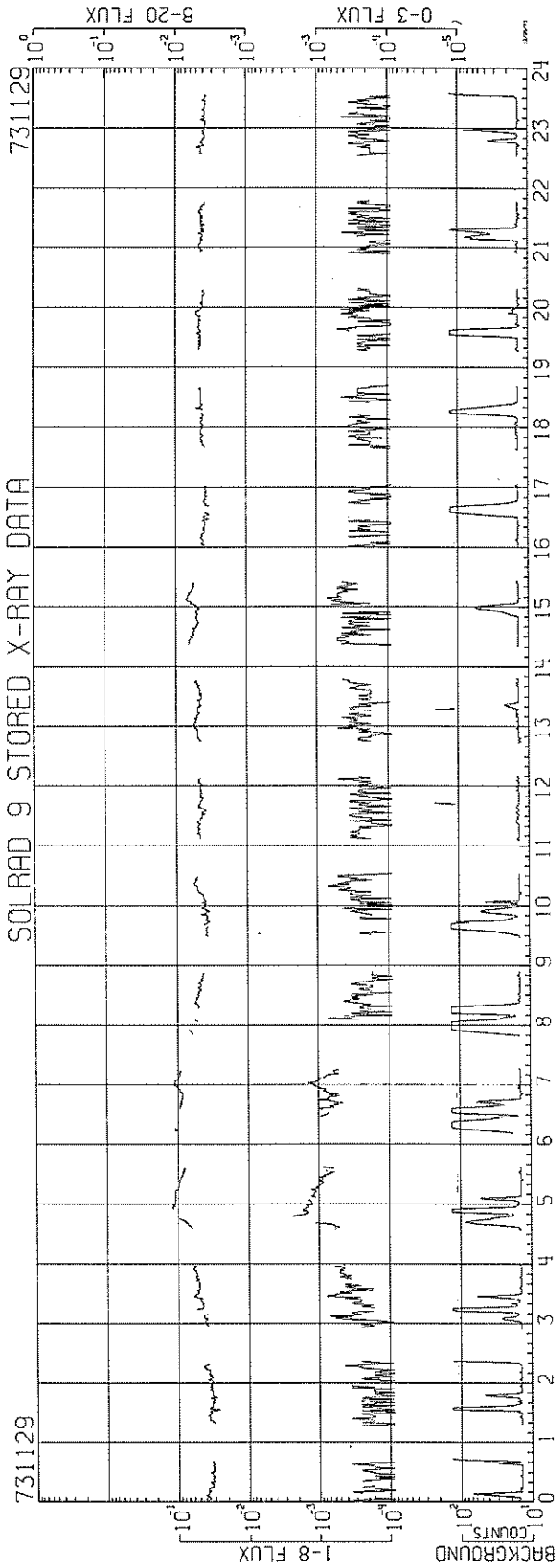
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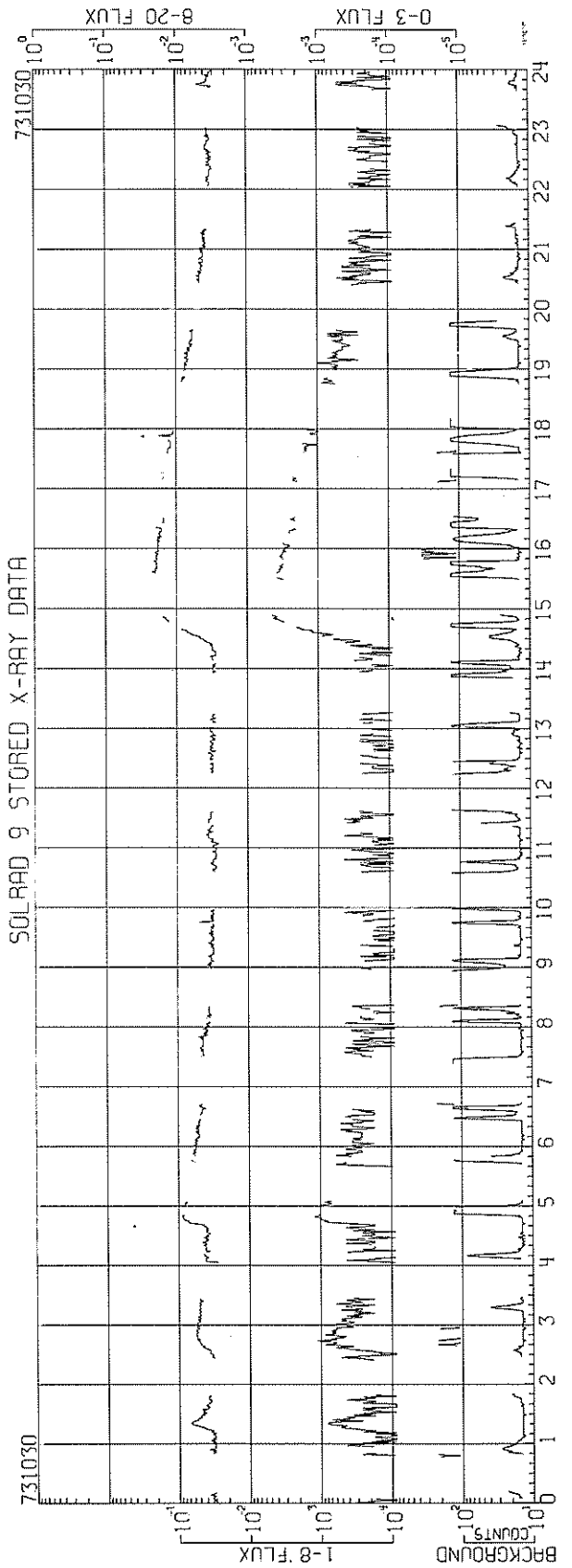
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SOLRAD 9 STORED X-RAY DATA



SOLRAD 9 STORED X-RAY DATA



OCTOBER 1973 DATA

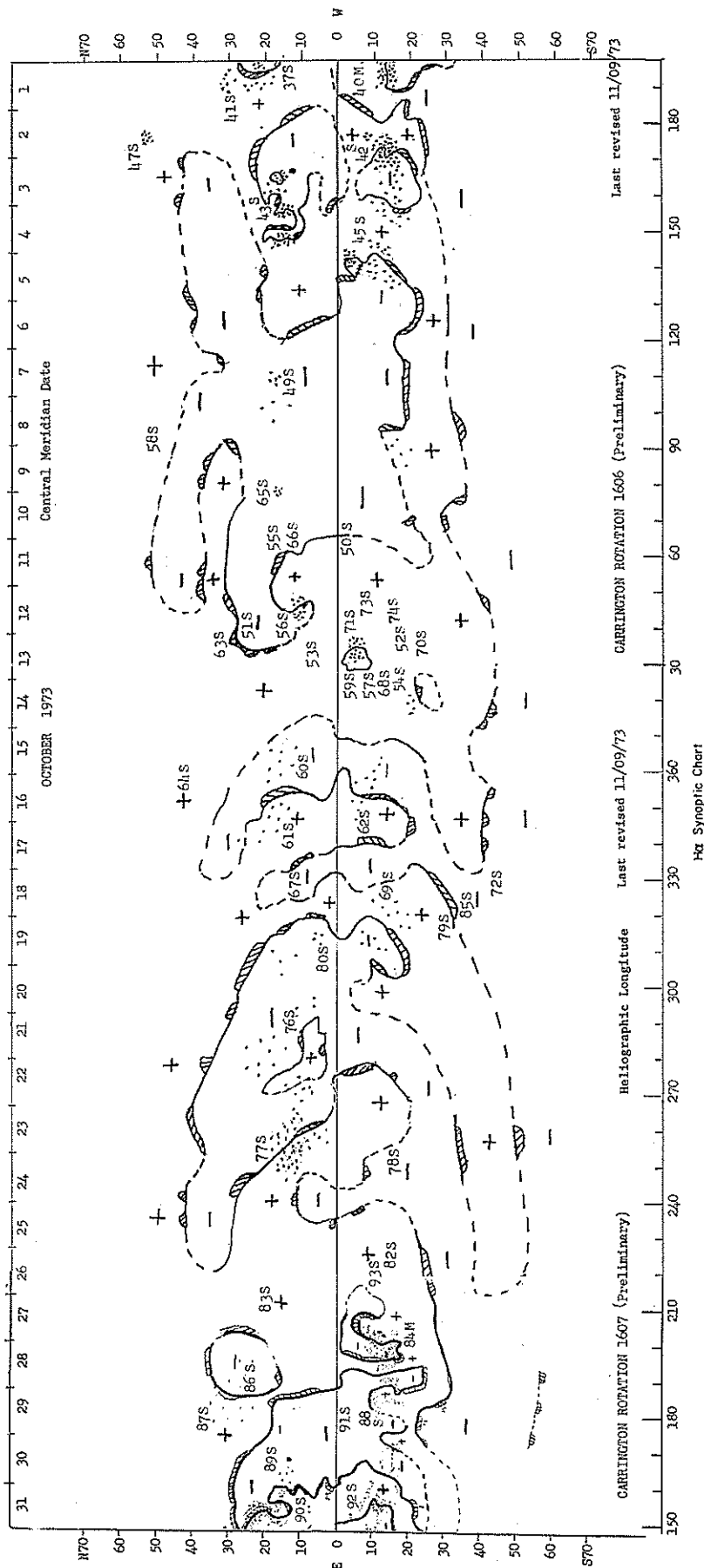
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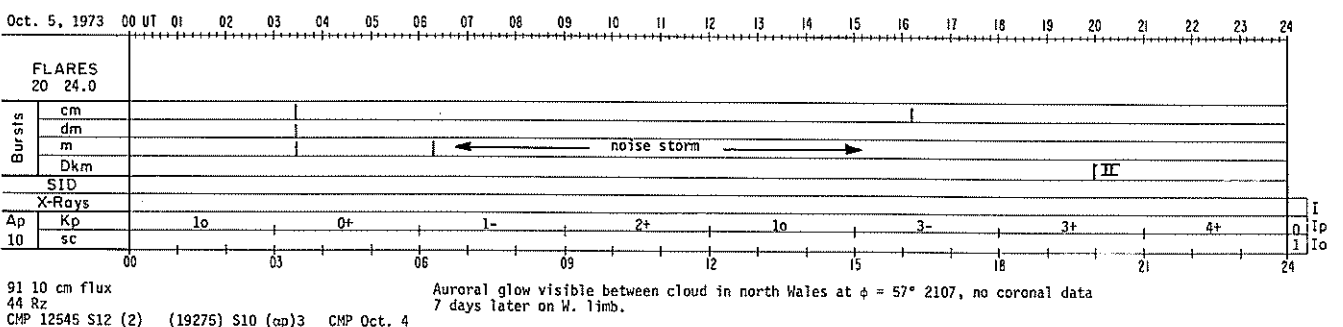
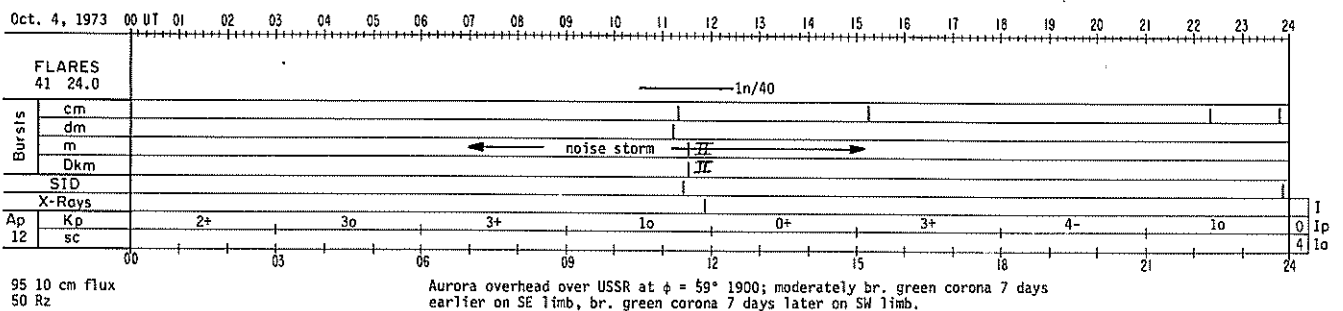
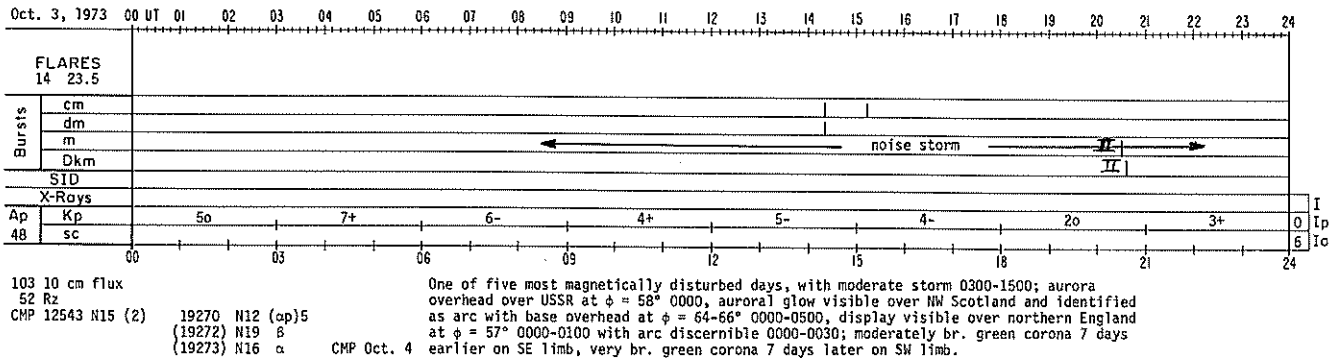
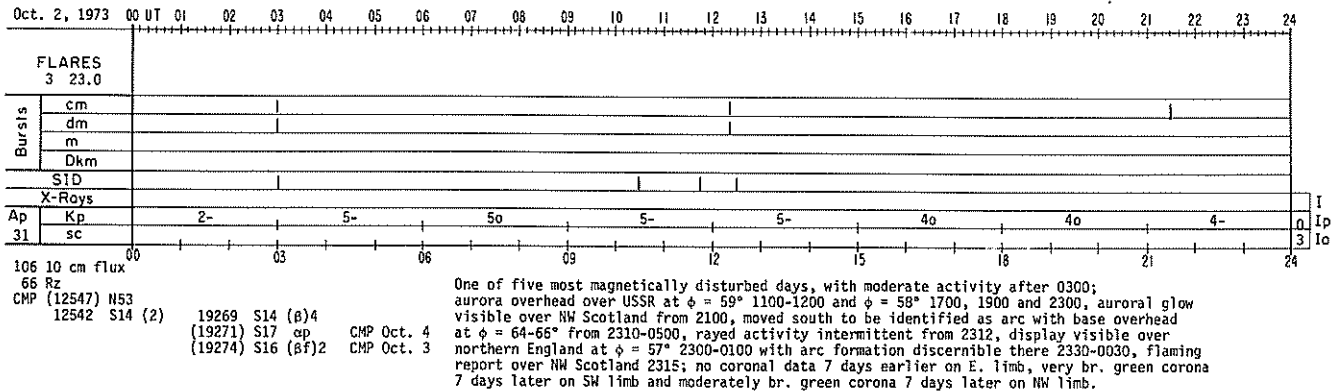
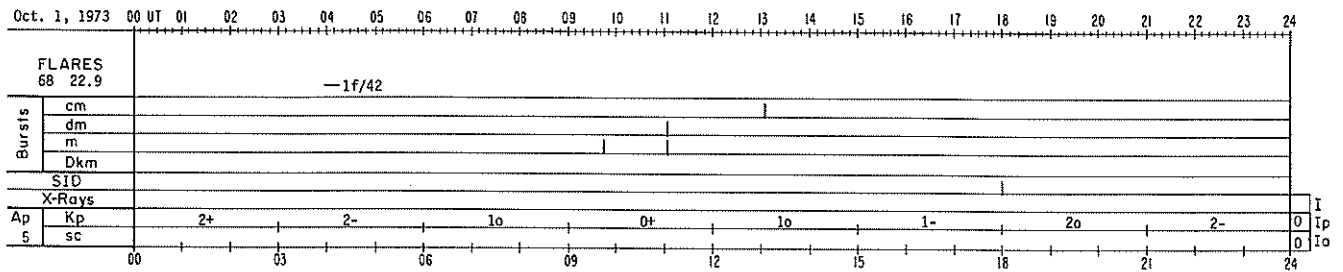
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For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

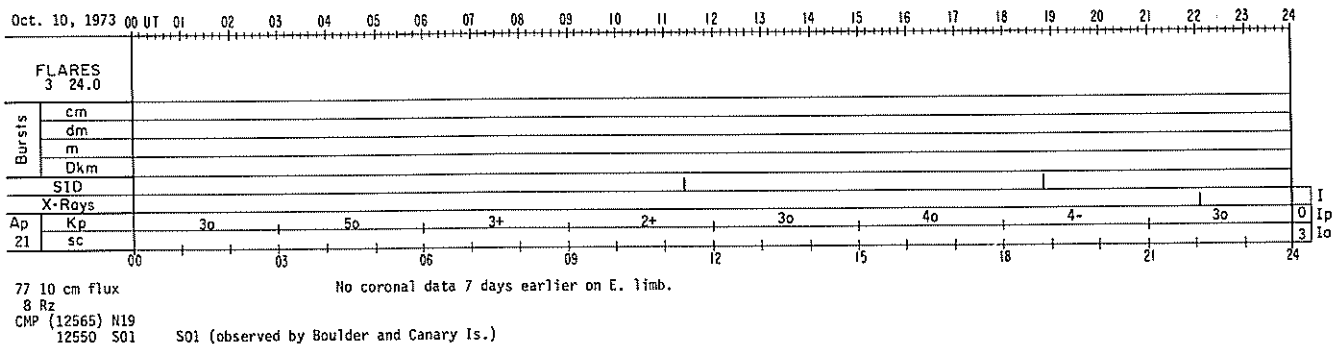
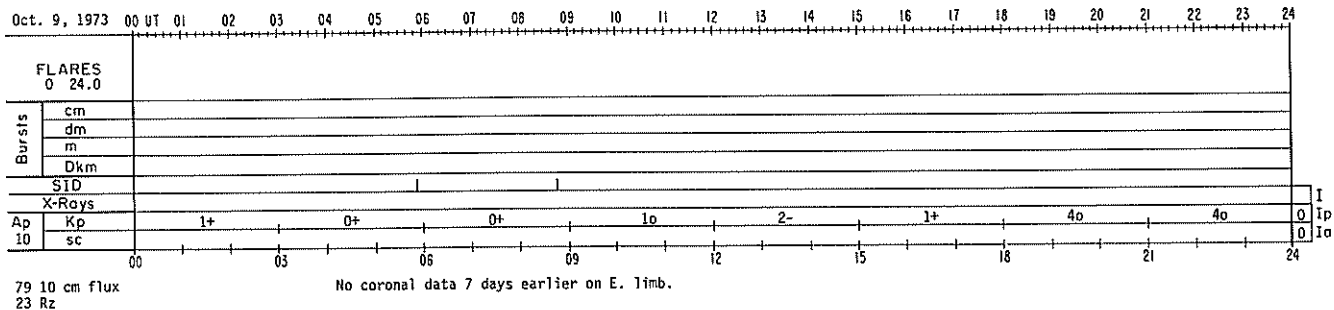
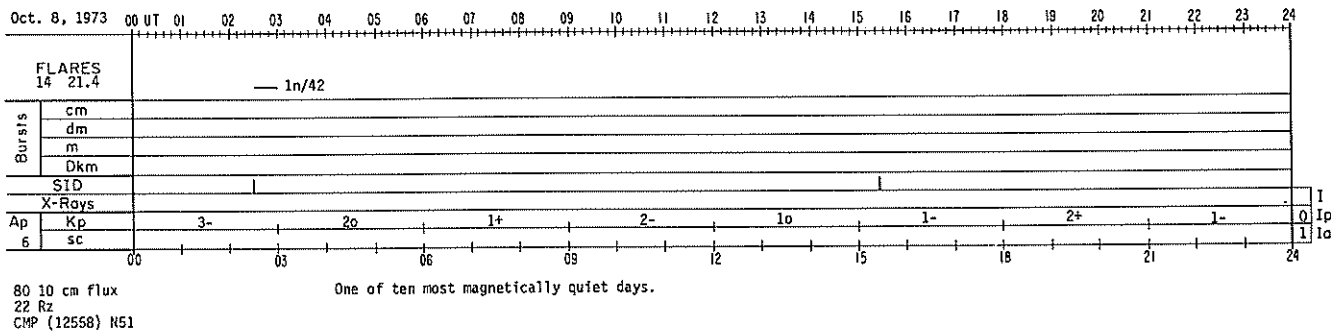
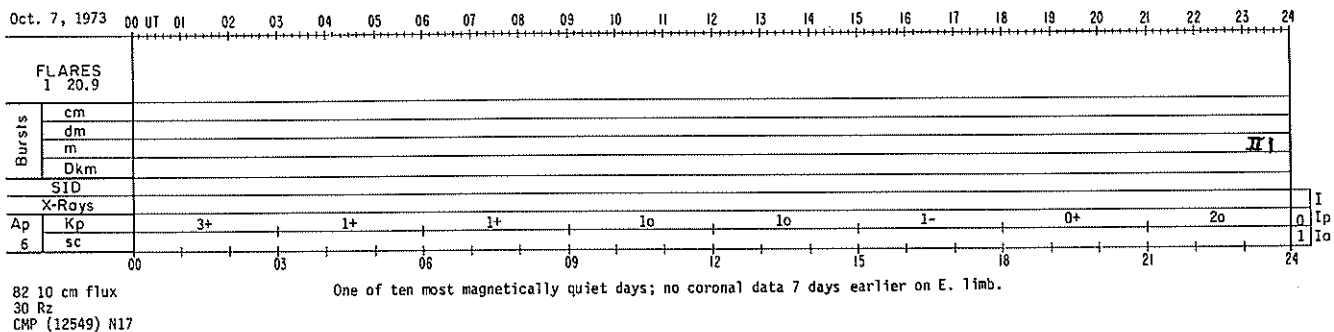
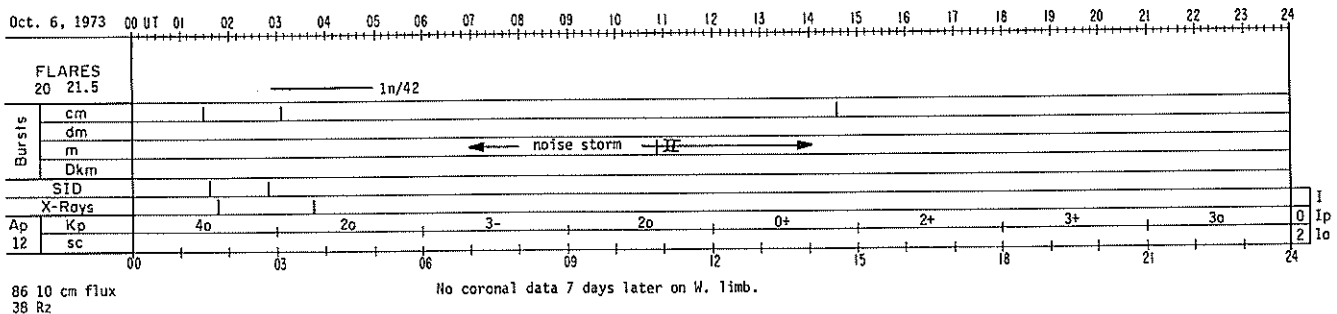
ABBREVIATED CALENDAR RECORD

OCTOBER 1973

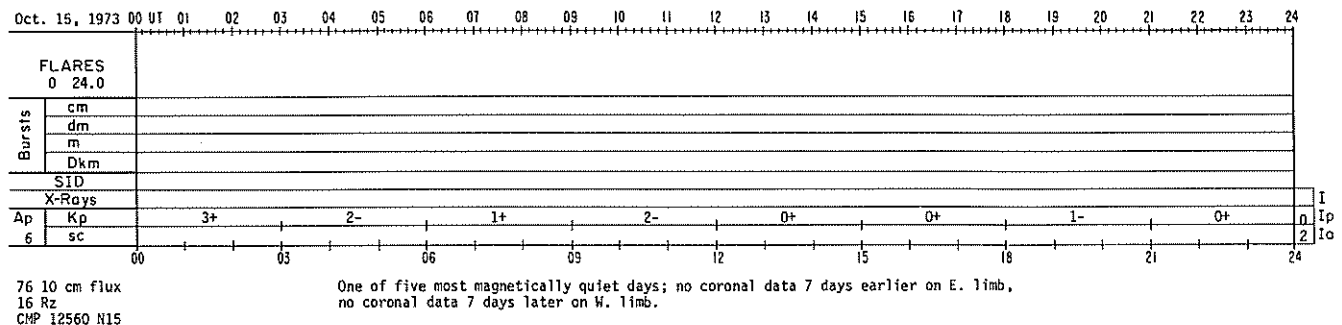
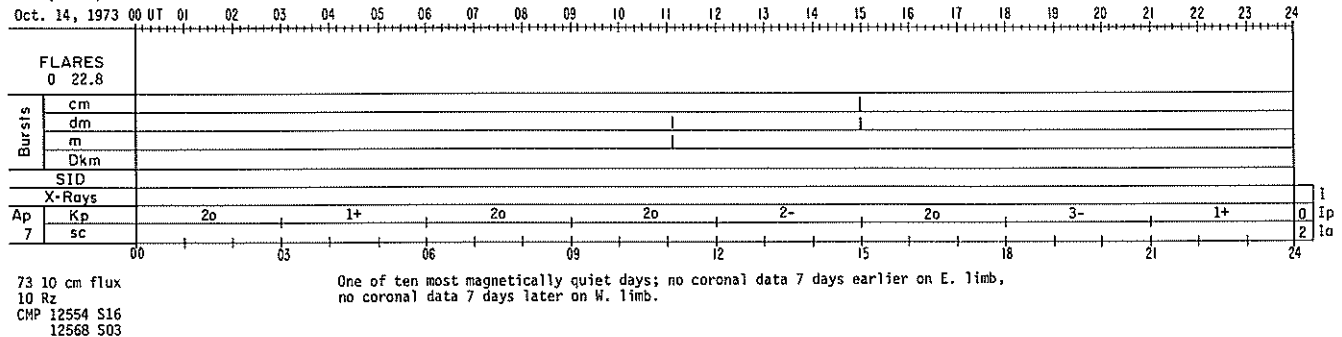
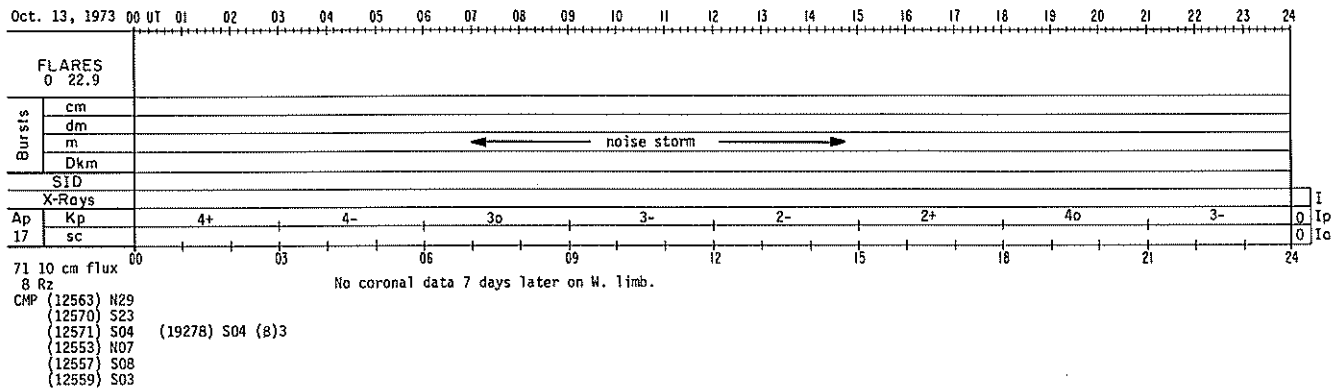
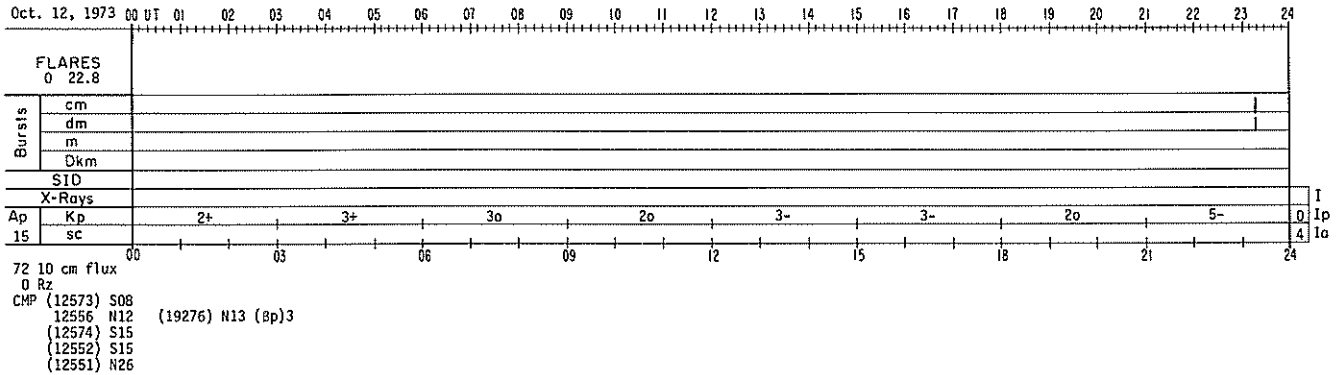
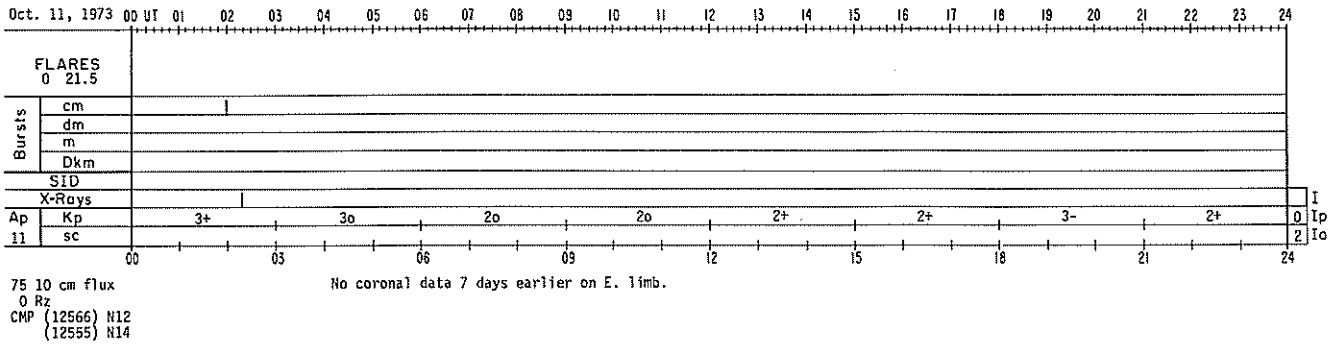




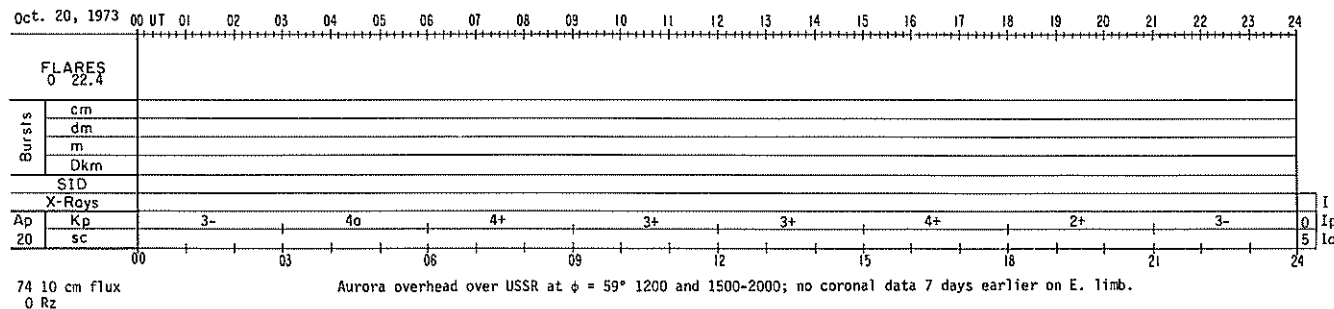
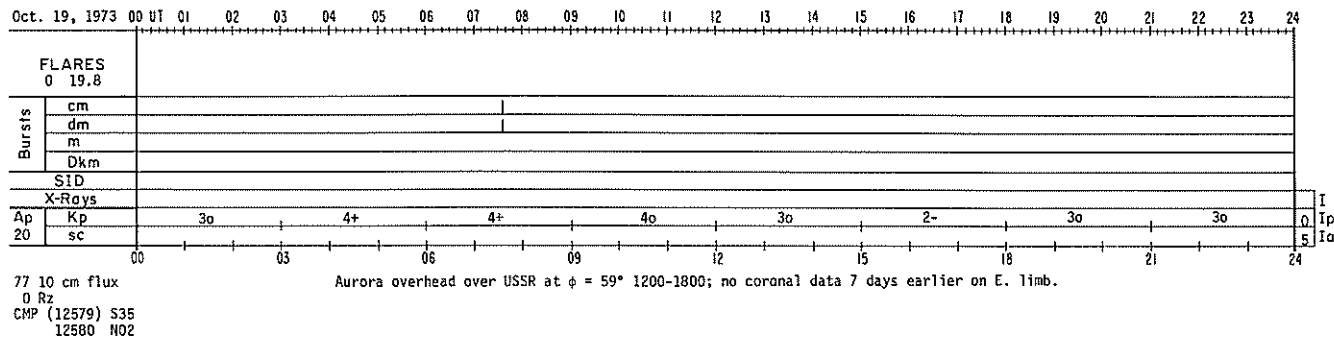
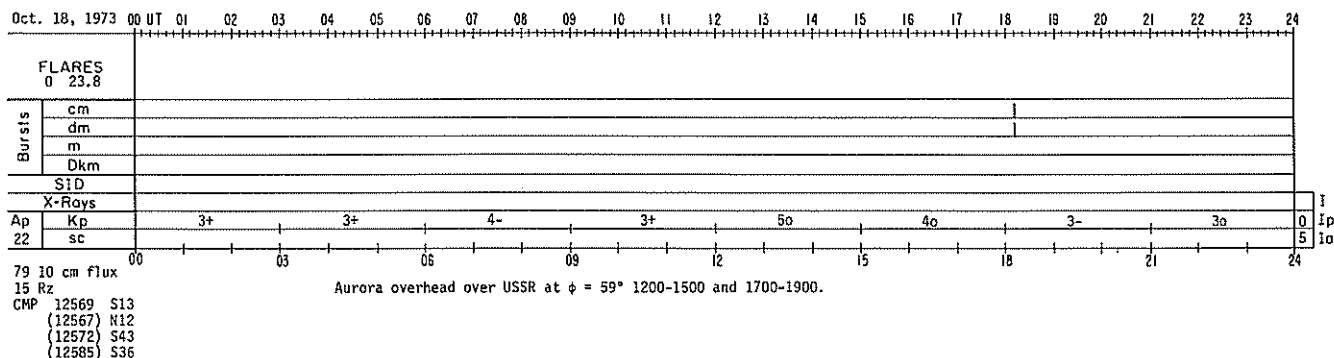
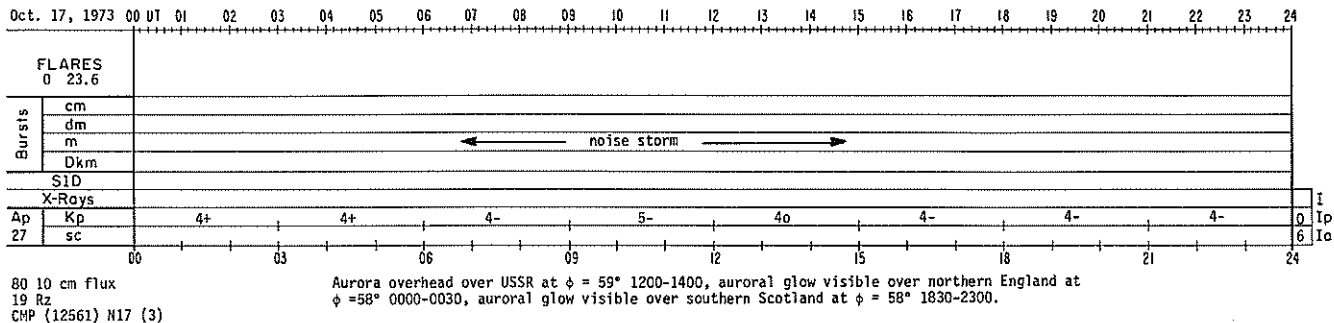
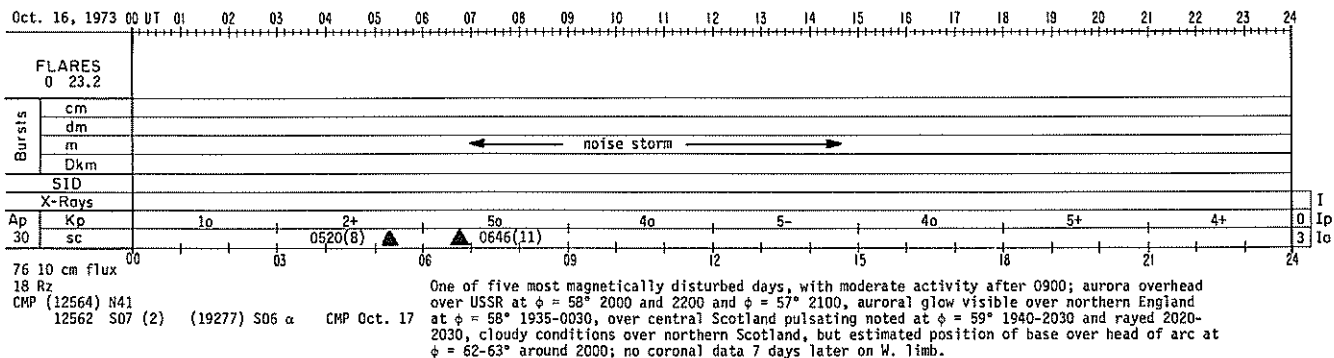
40
Oct 73

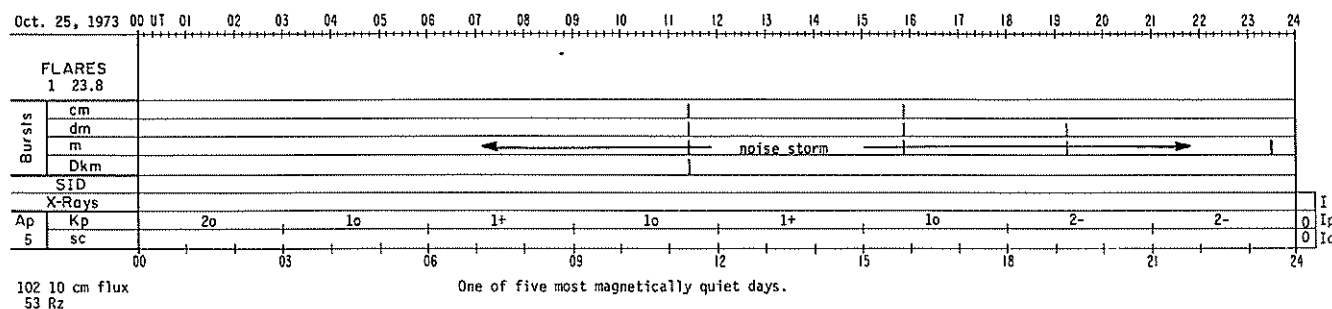
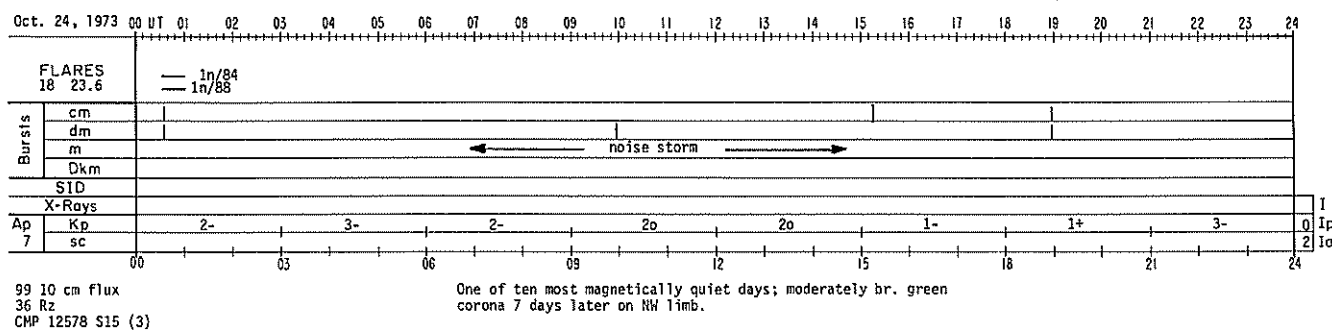
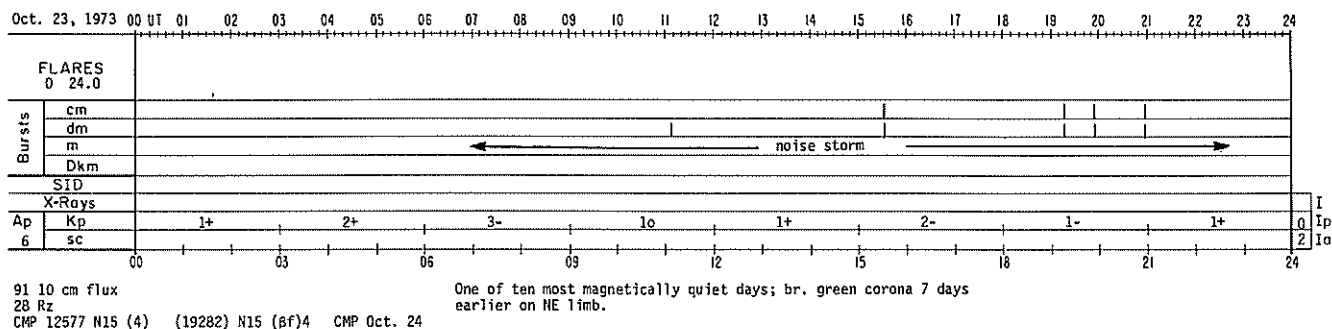
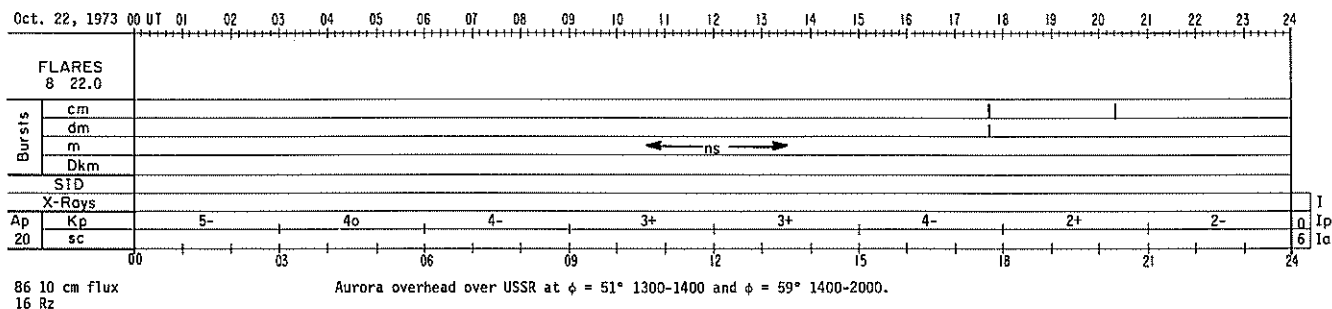
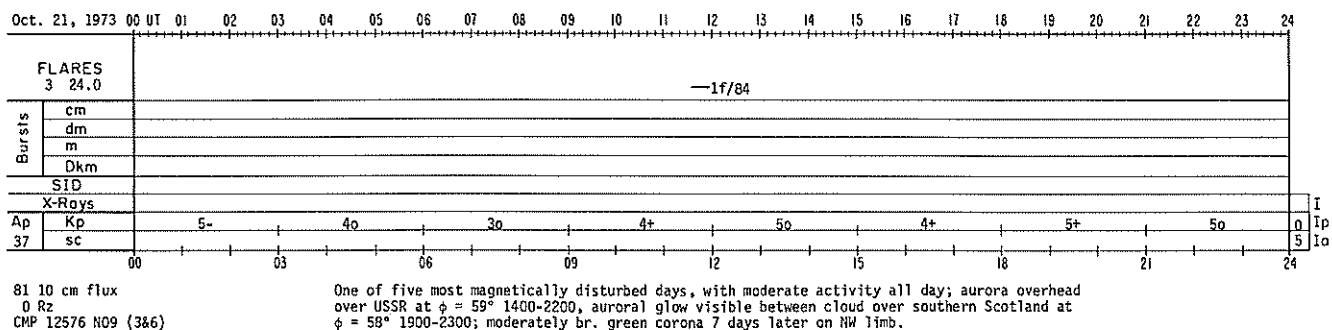


41
Oct 73



42
Oct 73





Oct. 26, 1973 00 UT 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
11 24.0

Bursis
cm
dm
m
Dkm

SID

X-Rays
Kp
sc

Ap
3

102 10 cm flux
59 Rz
CME {12582} S14
{12593} S10

One of five most magnetically quiet days, extremely quiet after 0900.

Oct. 28, 1973 00 UT 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
52 19.3

— 1b/84

Bursts
cm
dm
m
Dkm

noise storm

SID

X-Rays

Ap
20

Kp
sc

10 2- 3+ 3o 3- 4o 4+ 5o

00 03 06 09 12 15 18 21 24

102 10 cm flux
52 Rz

Aurora overhead over USSR at $\phi = 57^\circ$ 1300-1500, $\phi = 58^\circ$ 1600 and $\phi = 59^\circ$ 1700-2100;
no coronal data 7 days earlier on E. limb, moderately br. green corona 7 days later
on SW limb.

CMP 12584 S13 (5) 19279 S12 ap CMP Oct. 27
12586 N23 (3) 19280 N21 op

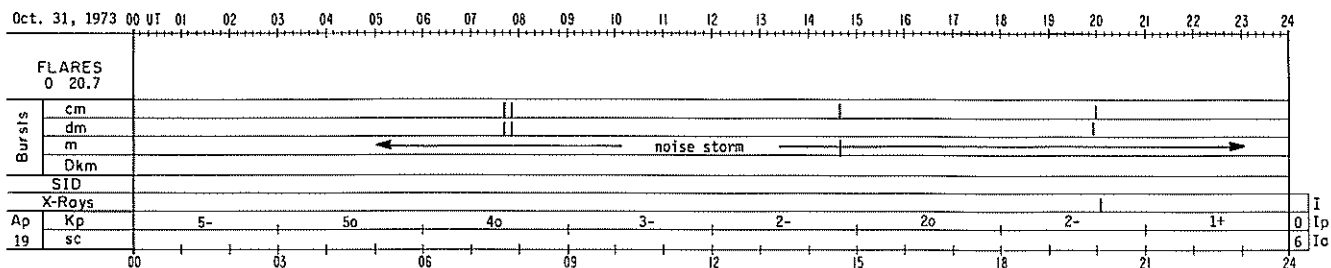
Figure 1 is a multi-panel plot showing solar and geomagnetic data for October 29, 1973. The top panel shows the time of day from 00 to 24 hours. Below this are panels for FLARES (0 21.0), Bursts (cm, dm, m, Dkm), SID, X-Rays, and Ap (86). The bottom panel shows the 100 10 cm flux (65 RZ) and the 12598 S16 (3) index. The plot includes a 'noise storm' label and various data points and curves.

Figure 1 is a multi-panel plot showing solar activity data from October 30, 1973, to November 4, 1973. The plot is divided into several horizontal sections, each representing a different type of solar data. The top section shows flares (18, 20.5) and a noise storm. The middle section shows X-ray data (Kp, sc) and coronal data (N13, N11). The bottom section shows 10 cm flux and Rz data. The plot includes a time axis from 00 UT to 24 hours and a vertical axis for various solar parameters.

The data is presented in a series of horizontal tracks. The top track shows flares (18, 20.5) and a noise storm. The middle track shows X-ray data (Kp, sc) and coronal data (N13, N11). The bottom track shows 10 cm flux and Rz data. The plot includes a time axis from 00 UT to 24 hours and a vertical axis for various solar parameters.

99 10 cm flux
55 Rz
CMP 12589 N13 (3) 19281 N11 (ap)4

45
Oct 73



92 10 cm flux

37 Rz

CMP 12592 S12 (3) (19288) S11 (8f)3
12590 N18 (3) (19283) N15 (ap)3
(19285) N20 (8f)3

Auroral glow visible over central Scotland between clouds at $\phi = 60^\circ$ 0100; moderately br. green corona 7 days later on NW limb.

REGIONAL FLARE INDEX

OCTOBER 1973

MC PATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
12540	S14	73/10/01.5	73/09/27	73/10/06	51.93	5.19	6
12542	S14	73/10/02.5	73/09/27	73/10/06	150.93	12.58	12
12543	N15	73/10/03.8	73/09/29	73/10/07	31.02	3.45	3
12545	S12	73/10/05.0	73/10/10	73/10/10	2.74	2.74	1
12584	S13	73/10/26.0	73/10/21	73/11/04	113.87	7.59	13
12586	S15	73/10/29.1	73/10/22	73/10/24	15.76	5.25	3
12590	N18	73/10/31.7	73/10/25	73/11/06	92.81	7.14	5

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.

MISCELLANEOUS DATA

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

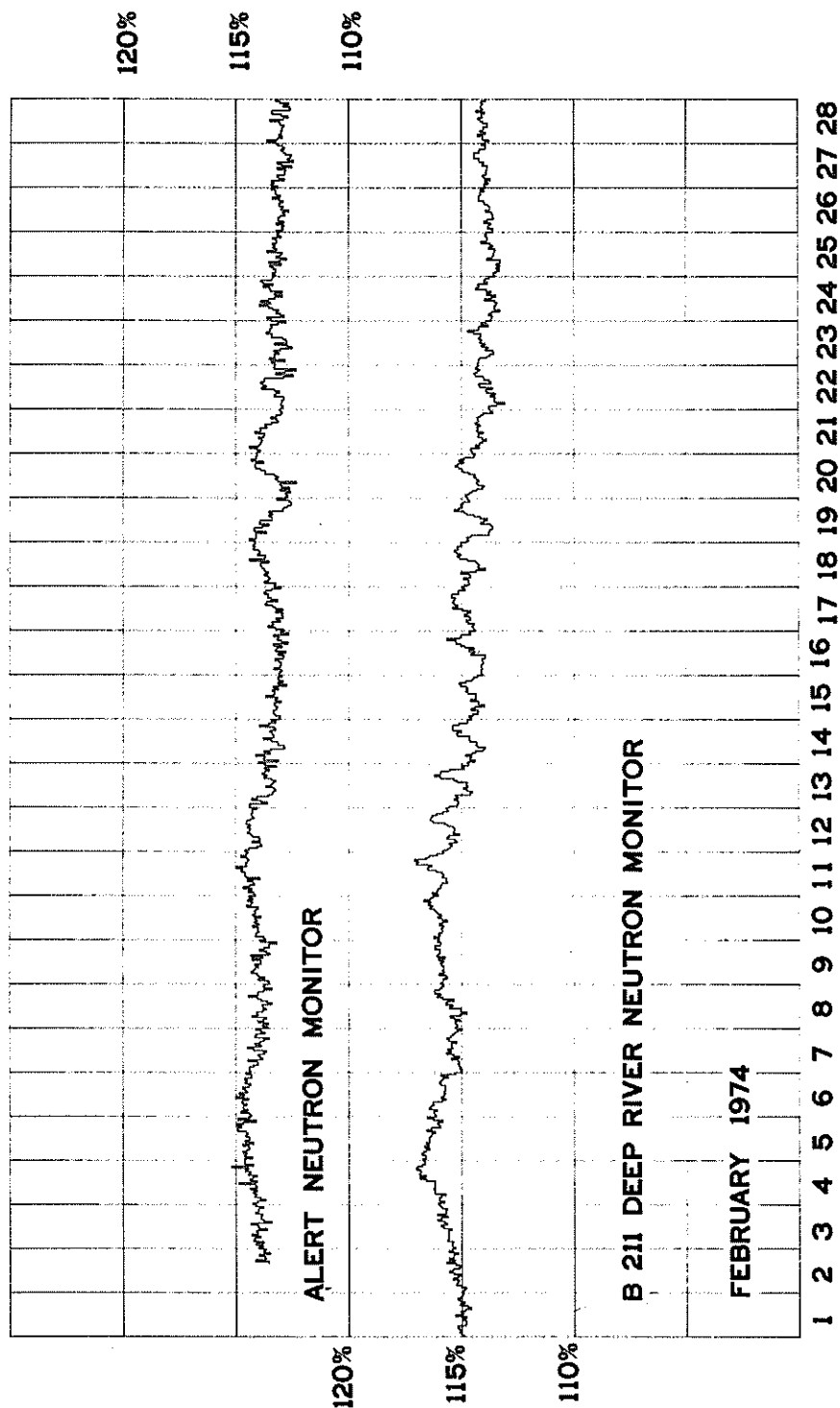
48
Misc
Feb 74

COSMIC RAY INDICES
(Pressure Corrected Hourly Totals)

FEBRUARY 1974

DATE	ALERT	DEEP RIVER
1	0.0	7074.3
2	7596.7 (8)	7091.5
3	7610.9	7117.7
4	7633.0	7161.4
5	7651.1	7162.5
6	7651.3	7134.0
7	7615.9	7095.5
8	7602.1	7108.2
9	7604.5	7132.5
10	7621.7	7143.6
11	7645.0	7148.4
12	7631.0	7117.5
13	7589.8	7088.0
14	7576.8	7059.0
15	7559.4	7047.7
16	7550.5	7046.8
17	7567.0	7073.1
18	7600.9	7062.4
19	7582.7	7040.7
20	7573.5	7053.3
21	7591.0	7027.0
22	7558.2	7007.3
23	7557.5	7019.6
24	7574.0	6999.8
25	7560.8	6991.7
26	7550.0	7007.6
27	7542.5	7017.3
28	7548.5	7017.8

COSMIC RAY INDICES
(Pressure Corrected Hourly Totals)
FEBRUARY 1974



UAG Series of Reports

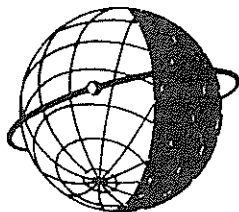
Prepared by World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado, U.S.A.

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- UAG-13 "Data on the Solar Proton Event of November 2, 1969 through the Geomagnetic Storm of November 8-10, 1969", compiled by Dale B. Bucknam and J. Virginia Lincoln, World Data Center A, Upper Atmosphere Geophysics, NOAA, May 1971, 76 pages, microfiche only, price 90 cents.
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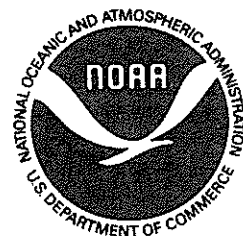
- UAG-16 "Temporal Development of the Geographical Distribution of Auroral Absorption for 30 Substorm Events in each of IQSY (1964-65) and IASY (1969)", by F. T. Berkey, V. M. Driatskiy, K. Henriksen, D. H. Jelly, T. I. Shchuka, A. Theander and J. Yliniemi, September 1971, 131 pages, price 70 cents.
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WORLD DATA CENTER A

FOR

SOLAR-TERRESTRIAL PHYSICS



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