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Solar-Geophysical Data

(Comprehensive Reports)

NUMBER 325-PART II
DATA FOR
MARCH 1971
FEBRUARY 1971
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DATA COMPILED BY AERONOMY AND SPACE DATA CENTER
BOULDER, COLORADO

WASHINGTON, D.C.
SEPTEMBER 1971

SOLAR-GEOPHYSICAL DATA

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SOLAR FLARES
Confirmed
MARCH 1971

OBSERVATORY	OBSERVED UT DATE 1971 MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP37013	01	0413E	0425	0413	S18	W69	.926	11165	24.0	12	1F				.83				3 3 2 4
MITK	01	0413E	0420		S18	W67	.913	11165	24.2	7D	-F		C	0413	.52				E
MANI	01	0413E	0432D	0413	S17	W69	.926	11165	24.0	19D	1N	2		0413	1.03	2.10			
SIBE	01	0415E	0423		S20	W70	.932	11165	23.9	8D	1F		P						E
GRP37016	01	1931	1947	1936	S09	W65	.901	11166	24.9	16	--N				.40				5 5 4 5
LOCK	01	1930	1945	1936	S09	W65	.901	11166	24.9	15	-F		C						
PALE	01	1930	1948	1938	S12	W65	.900	11166	24.9	18	-N	2	C		.55				F
RAMY	01	1931	1948	1935	S06	W65	.903	11166	24.9	17	-N	2	C		.52				D
HUAN	01	1931	1936D	1936U	S08	W66	.909	11166	24.9	5D	-N	2	P	1936	.12	.28			
MCMA	01	1932	1935D		S08	W66	.909	11166	24.9	3D	-F		P	1933	.41	1.00			E
019 TEHR	02	0417	0428	0420	S13	E68	.921	11181	7.3	11	--F	3	C		.19				D 3
GRP37020	02	0645	0746	0700	S14	E74	.955	11181	7.8	61	--F				.58				2 2 2 4
TEHR	02	0645	0746	0658	S12	E72	.945	11181	7.7	61	-F	3	C		.41				D
CRON	02	0650U	0725U	0701U	S16	E75	.960	11181	7.9	35D	1F	1	C	0701	.75				
023 BOUL	02	1729	1755	1736	S17	W88	.998	11165	24.1	26	--F	2	V						2
GRP37024	02	1823	1832	1826	N11	E13	.380	11176	3.7	9	--F				.55				2 2 1 4
PALE	02	1822	1831	1825	N12	E13	.393	11176	3.7	9	-F	2	C		.55				
LOCK	02	1823	1832	1826	N10	E13	.367	11176	3.7	9	-F		C						H
025 LOCK	02	2050	2100	2054	N08	W22	.449	11173	1.2	10	--F		C						3
026 LOCK	02	2222	2240	2228	S18	W84	.991	11165	24.6	18	--F		C						3
GRP37027	03	0056	0115	0100	N08	W24	.475	11173	1.2	19	--F				.67				2 2 2 4
PALE	03	0055	0115	0100	N09	W23	.471	11173	1.3	20	-F	2	C		1.03				
MANI	03	0056	0114D	0059	N07	W24	.467	11173	1.2	18D	-N	2		0059	.31	.35			
GRP37030	03	0659	0727	0705	S15	W15	.286	11182	2.2	28	-N				1.00				5 5 5 8
CATA	03	0655E	0750	0710	S15	W15	.286	11182	2.2	55D	-N		P	0710	.87	.91		182	T
ABST	03	0655E	0741D	0705	S15	W15	.286	11182	2.2	46D	1F		P	0705	2.34	2.40		59	EJ
MANI	03	0658	0718	0705	S15	W15	.286	11182	2.2	20	-N	2		0705	1.24	1.30			
CRON	03	0702	0712	0703	S15	W15	.286	11182	2.2	10	-N	2	C	0703	.32	.32			
TEHR	03	0703	0715	0704	S15	W15	.286	11182	2.2	12	-N	3	C		.23				D
GRP37032	03	0758	0831	0807	S14	W16	.294	11182	2.1	33	-F				1.65				4 4 4 9
MANI	03	0756	0828	0807	S15	W16	.301	11182	2.1	32	-N	2		0807	1.34	1.40			
HTPR	03	0758	0825	0806	S14	W15	.279	11182	2.2	27	-F		C	0806	.21	.20			
MONT	03	0801	0818	0806	S14	W15	.279	11182	2.2	17	-N		C	0806	2.27				
ABST	03	0802E	0852D	0809	S14	W16	.294	11182	2.1	50D	1F		P	0809	2.79	2.90		51	EJK
GRP37036	03	1739	1750	1744	N10	E79	.986	11186	9.7	11	--F				.10				2 2 1 5
LOCK	03	1739	1750	1743	N09	E77	.980	11186	9.5	11	-F		C						H
HUAN	03	1740E	1748D	1745U	N10	E80	.989	11186	9.7	8D	-N	2	P	1745	.10				
GRP37038	03	1943	2004	1947	N25	W12	.563	11174	2.9	21	--F				.45				2 2 1 3
LOCK	03	1942	1957	1946	N24	W09	.537	11174	3.1	15	-F		C						
PALE	03	1943	2010	1948	N25	W14	.574	11174	2.8	27	-F	2	C		.45				
039 LOCK	03	2224	2244	2228	S02	W82	.990	11177	25.8	20	--F		C						3
GRP37040	04	0938	1003	0942	S14	W30	.503	11182	2.2	25	--N				.53				3 3 3 8
HTPR	04	0936	1020	0942	S13	W31	.516	11182	2.1	44	-F		C	0942	.62	.70			
TEHR	04	0938	0958	0942	S15	W30	.506	11182	2.2	20	-N	3	C		.19				D
MONT	04	0939	0952	0941	S14	W30	.503	11182	2.2	13	-N		C	0941	.77				
GRP37044	04	1505	1603	1513	S13	E40	.639	11181	7.6	58	1N				4.06				7 6 4 7
MCMA	04	1504	1610	1511	S13	E39	.626	11181	7.6	66	1N		C	1511	2.17	2.70			EL
RAMY	04	1504	1611	1513	S13	E41	.652	11181	7.7	67	1N	3	C		4.23				F
MONT	04	1505	1528D	1512	S14	E40	.641	11181	7.6	23D	2N		C	1512	8.25				
CAPE	04	1505	1522D	1514	S14	E40	.641	11181	7.6	17D	1N		P	1514	1.59	2.10			FH
CANR	04	1505	1536		S12	E42	.664	11181	7.8	31	1N	2	V			2.60			
BOUL	04	1510E	1614	1514	S12	E40	.639	11181	7.6	64D	1N	2	V						
ATHN	04	1525E	1525D	1525	S14	E45	.703	11181	8.0		1N	1		1525	2.31	4.59	.70		
GRP37045	04	1710	1729	1715	S14	W35	.574	11182	2.1	19	--F				.21				2 2 1 5
MCMA	04	1709	1730	1715	S14	W34	.560	11182	2.2	21	-N		C	1715	.21	.30			D
LOCK	04	1710	1727	1715	S13	W35	.572	11182	2.1	17	-F		C						
047 PALE	04	2151	2159	2158	N06	W49	.773	11173	1.2	8	--F	2	C		.63				F 3
048 PALE	05	0116	0129	0122	S19	W35	.587	11182	2.4	13	--F	2	C		.55				FH 3

SOLAR FLARES
Confirmed
MARCH 1971

OBSERVATORY	OBSERVED UT DATE 1971 MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP37049	05	0424	0434	0426	N08	W61	.889	11173	28.6	10	--F				.41				2 2 2 5
MANI	05	0424	0437	0426	N07	W63	.902	11173	28.5	13	-N	2		0426	.41	.79			
CRON	05	0425E	0431		N08	W59	.873	11173	28.8	6D	-F	3	V		.40				
GRP37052	05	0953	1008	0956	N14	E18	.466	11184	6.8	15	-N				.86				4 4 4 7
ABST	05	0950	1019	0956	N14	E18	.466	11184	6.8	29	-F		C	0955	1.80	2.00		50	EG
MEUD	05	0953	1005	0956	N15	E17	.468	11184	6.7	12	-N		C	0955	1.03	1.10			E
CRON	05	0953	1004	0956	N14	E17	.456	11184	6.7	11	-N	2	C	0955	.32	.36			
TEHR	05	0954	1002	0956	N14	E18	.466	11184	6.8	8	-N	2	C		.28				F
GRP37059	05	1735	1807	1739	S15	E31	.520	11181	8.1	32	--F				.31				2 2 1 3
LOCK	05	1733	1746	1739	S16	E30	.509	11181	8.0	13	-F		C						
RAMY	05	1736	1828	1739	S14	E31	.518	11181	8.1	52	-F	3	C		.31				D
GRP37060	05	1806	1823	1809	S14	E30	.503	11181	8.0	17	--F				.47				3 3 2 4
RAMY	05	1736	1828	1807	S14	E31	.518	11181	8.1	52	-N	3	C		.52				
LOCK	05	1806	1817	1810	S16	E30	.509	11181	8.0	11	-F		C						
MCMA	05	1810E	1816D		S13	E29	.486	11181	7.9	6D	-F		P	1811	.41	.50			E
GRP37062	06	0301	0311	0304	N07	W72	.957	11173	28.7	10	--F				.56				2 2 2 5
MANI	06	0301E	0311D	0304	N06	W73	.961	11173	28.7	10D	-N	2		0304	.62	1.37			
CRON	06	0304E	0311		N07	W71	.952	11173	28.8	7D	-F	3	V		.50				
GRP37066	06	0835	0852	0838	N05	W74	.965	11173	28.8	17	--F				.19				3 3 3 8
TEHR	06	0835	0852	0840	N05	W74	.965	11173	28.8	17	-F	3	C		.28				D
CATA	06	0835	0855	0835	N05	W73	.961	11173	28.9	20	-N		C	0835	.17			178	
CRON	06	0836	0850	0840	N06	W75	.970	11173	28.7	14	-F	2	C	0840	.11				
GRP37068	06	1448	1502	1452	N08	W84	.996	11173	28.3	14	--F				.10				2 2 1 5
RAMY	06	1448	1501	1451	N08	W79	.985	11173	28.7	13	-F	2	C						D
HUAN	06	1452E	1503	1453U	N08	W88	1.000	11173	28.0	11D	-F	1	P	1453	.10				
069 LOCK	06	2146	2210	2155	N17	E79	.990	11190	12.8	24	--F		C						3
GRP37070	07	0235	0252	0239	N06	W87	.999	11173	28.6	17	-N				.67				2 2 2 4
MITK	07	0234	0249	0237	N07	W89	1.000	11173	28.4	15	1N		C	0237	.93				D
MANI	07	0236	0254	0240	N05	W85	.997	11173	28.7	18	-N	2		0240	.41	1.20			
GRP37071	07	0247	0258	0250	N07	W74	.967	11173	1.6	11	-F				.80				3 3 3 4
CRON	07	0246	0259	0251	N08	W72	.958	11173	1.7	13	-F	2	C	0251	.54				
MITK	07	0247	0255	0249	N07	W75	.971	11173	1.5	8	1F		C	0249	1.03				D
MANI	07	0247	0301	0250	N07	W75	.971	11173	1.5	14	-N	2		0250	.83	1.92			
GRP37075	07	0604	0626	0607	N06	W86	.998	11173	28.8	22	-N				.41				2 2 2 4
MANI	07	0604	0619	0606	N05	W87	.999	11173	28.7	15	-N	2		0606	.31	.93			
ATHN	07	0607E	0633	0608	N07	W85	.998	11173	28.9	26D	-N	2		0608	.50	.99	.99		
6 STATIONS REPORTING GROUP 37079. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP37079	07	1023	1150	1113	S13	E05	.132	11181	7.8	87	1N				3.78				5 5 5 6
ATHN	07	1023	1131	1114	S13	E06	.143	11181	7.9	68	1N	3		1114	3.30	6.60	.22		
TEHR	07	1030	1034	1032	S13	E08	.169	11181	8.0	4	-F	3	C		.28				F
TEHR	07	1046E	1155	1108	S13	E06	.143	11181	7.9	69D	1N	3	C		2.41				
CAPE	07	1051E	1240	1115	S15	E05	.159	11181	7.8	109D	1N		P	1115	2.08	2.10			H
ABST	07	1056E	1158D	1119	S15	E06	.169	11181	7.9	62D	2N		P	1119	7.20	7.30		71	FJKG
ABST	07	1102E	1158D	1107	S11	W01	.068	11181	7.4	56D	-F		P	1107	1.18	1.20		48	EGJ
RAMY	07	1103E	1157	1107	S13	E06	.143	11181	7.9	54D	1N	2	C		3.92				UF
37079	07	1023	1310	1055	S13	E06	.143	11181	7.9	167	*-N				1.28				2 2 2 5
HTPR	07	1023	1310	1059	S13	E05	.132	11181	7.8	167	1N		C	1059	1.96	2.00			GSU
TEHR	07	1046E	1155	1050	S13	E06	.143	11181	7.9	69D	-N	3	C		.59				SF
GRP37080	07	1051	1106	1053	N07	W77	.979	11173	1.7	15	--F				.72				2 2 2 5
ATHN	07	1050E	1106	1050	N10	W75	.973	11173	1.8	16D	-F	3		1050	.99	1.98	.94		
TEHR	07	1052	1106	1055	N04	W78	.980	11173	1.6	14	-N	3	C		.45				HF
082 LOCK	07	1920	1935	1923	N03	W81	.989	11173	1.7	15	-N		C						H 3
GRP37083	07	2035	2046	2039	N05	W86	.998	11173	1.4	11	-N				.41				2 2 1 4
LOCK	07	2035	2052	2038	N03	W81	.989	11173	1.8	17	-N		C						H
PALE	07	2035	2039	2039	N06	W90	1.000	11173	1.1	4	-N	2	C		.41				
GRP37084	07	2118	2129	2121	S16	E03	.160	11181	8.1	11	--F				.27				2 2 1 3
LOCK	07	2116	2130	2120	S16	E02	.156	11181	8.0	14	-F		C						
PALE	07	2119	2128	2121	S15	E03	.144	11181	8.1	9	-F	2	C		.27				F
085 LOCK	07	2150	2200	2154	N06	W55	.833	11176	3.8	10	--F		C						3

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4 STATIONS REPORTING GROUP 37086. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP37086	07	2305	2351	2319	S15	E00	.135	11181	8.0	46	--F				.94				3 3 2 5
LOCK	07	2300	0010	2320	S16	E00	.152	11181	8.0	70	1F		C						
PALE	07	2308	2343	2318	S15	E01	.136	11181	8.0	35	-F	2	C		1.08				HF
CRON	07	2308E	2339		S15	E00	.135	11181	8.0	31D	-N	2	V		.80				
37086	07	2310	2341	2334	S15	E02	.139	11181	8.1	31	*-F				1.08				2 2 2 5
PALE	07	2308	2343	2334	S15	E01	.136	11181	8.0	35	-F	2	C		1.63				
MANI	07	2311	2339	2333	S15	E03	.144	11181	8.2	28	-F	2		2333	.52	.52			
GRP37087	08	0142	0155	0144	N04	W90	1.000	11173	1.3	13	-N				.59				2 2 2 5
MITK	08	0140	0155	0143	N04	W90	1.000	11173	1.3	15	1N		C	0143	.72				D
PALE	08	0143	0155	0145	N04	W90	1.000	11173	1.3	12	-N	2	C		.45				
GRP37089	08	0755	0809	0758	S13	W07	.156	11181	7.8	14	--N				1.08				3 3 2 7
HTPR	08	0754	0810	0756	S14	W08	.180	11181	7.7	16	-F		C	0755	1.65	1.70			U
CANR	08	0756	0804	0758	S13	W05	.132	11181	8.0	8	-N	2	V	0758		.20			
ATHN	08	0759E	0812	0801	S13	W07	.156	11181	7.8	13D	-N	2		0801	.50	.99	.15		
GRP37095	08	1054	1105	1056	S08	E44	.690	11189	11.8	11	--F				.26				2 2 2 5
HTPR	08	1053	1105	1055	S08	E45	.702	11189	11.8	12	-F		C	1055	.21	.30			D
MEUD	08	1055	1105	1056	S08	E43	.677	11189	11.7	10	-F		C	1056	.31	.40			D
GRP37097	08	1535	1545	1537	S19	W05	.220	11181	8.3	10	--F				.29				4 4 4 5
HTPR	08	1532	1545	1536	S19	W05	.220	11181	8.3	13	-F		C	1536	.21	.20			
RAMY	08	1534	1546	1536	S19	W06	.227	11181	8.2	12	-N	3	C		.41				D
CANR	08	1536	1545	1538	S20	W04	.231	11181	8.3	9	-N	1	C	1538	.22	.22			
MEUD	08	1536	1545	1539	S19	W05	.220	11181	8.3	9	-F		C	1539	.31	.30			D
099 LOCK	08	2100	2200	2130	N21	W46	.801	11183	5.4	60	--F		C						S 2
GRP37100	09	0217	0304	0248	S12	W19	.331	11181	7.7	47	--F				.43				2 2 2 5
MANI	09	0217	0313	0246	S12	W19	.331	11181	7.7	56	-F	2		0246	.41	.40			
PALE	09	0245	0255	0249	S12	W18	.315	11181	7.8	10	-F	2	C		.45				
GRP37104	09	1023	1039	1028	S15	W22	.389	11181	7.8	16	--N				.65				5 5 5 9
HTPR	09	1022	1038	1025	S14	W22	.385	11181	7.8	16	-F		C	1025	.72	.80			U
CRON	09	1023	1030D	1026	S15	W22	.389	11181	7.8	7D	-N	1	C	1026	.54	.58			
CANR	09	1024	1041U	1028	S16	W21	.380	11181	7.9	17D	-N	2	C	1028	.43	.46			
ATHN	09	1027E	1032	1030	S14	W23	.400	11181	7.7	5D	-N	2		1030	.83	1.64	.41		
CATA	09	1030E	1045D	1031	S14	W21	.370	11181	7.9	15D	-N		P	1031	.75	.82		188	
GRP37105	09	1043	1052	1045	S14	W22	.385	11181	7.8	9	--F				.31				3 3 3 7
HTPR	09	1041	1053	1044	S14	W22	.385	11181	7.8	12	-F		C	1044	.21	.20			
ATHN	09	1043E	1055	1046	S14	W23	.400	11181	7.7	12D	-F	3		1046	.50	.98	.41		
MONT	09	1044	1047	1046	S14	W22	.385	11181	7.8	3	-N		C	1046	.21				
GRP37107	09	1659	1719	1704	S17	E57	.833	11191	14.0	20	--F				.49				3 3 2 5
LOCK	09	1658	1720	1704	S18	E57	.833	11191	14.0	22	-F		C						
MCMA	09	1700	1726	1708	S15	E57	.832	11191	14.0	26	-N		C	1708	.62	1.10			E
RAMY	09	1700	1711	1701	S17	E57	.833	11191	14.0	11	-F	3	C		.36				D
GRP37108	09	1742	1757	1745	N20	E83	.998	11192	16.0	15	--F								2 2 0 3
LOCK	09	1742	1751	1745	N19	E79	.990	11192	15.7	9	-F		C						H
RAMY	09	1742	1803		N21	E87	1.000	11192	16.3	21	-N	2	C						D
GRP37109	09	2121	2133	2124	N20	E83	.998	11192	16.1	12	--F								3 3 0 3
LOCK	09	2120	2130	2124	N19	E79	.990	11192	15.8	10	-F		C						
BOUL	09	2121	2140	2124	N20	E85	.999	11192	16.3	19	-N	2	V						
MCMA	09	2123	2129	2125	N22	E85	.999	11192	16.3	6	-F		C	2125					D
GRP37110	10	0821	0835	0823	N20	E76	.983	11192	16.0	14	--F				.24				3 3 3 7
HTPR	10	0818	0830	0821	N20	E75	.980	11192	16.0	12	-F		C	0821	.21				
TEHR	10	0823E	0844	0825	N19	E74	.976	11192	15.9	21D	-N	2	C		.19				HD
ATHN	10	0823	0830D	0824	N21	E80	.993	11192	16.3	7D	-F	2		0824	.33	.65	.99		
115 RAMY	10	1951	2005	1955	S06	E07	.123	11189	11.4	14	--F	1	C		.52				D 3
116 PALE	10	2005E	2011	2005	N05	E89	1.000	11196	17.5	6D	--F	3	C		.31				3
	10	2321	2328	NO FLARE PATROL															
123 PALE	11	2023E	2031	2025	N08	E82	.993	11196	18.0	8D	--F	2	C						2
124 PALE	11	2043	2105	2051	S14	W54	.803	11181	7.8	22	--F	2	C		.36				3
125 LOCK	11	2230	2240	2233	N08	E81	.991	11196	18.0	10	--F		C						1
126 LOCK	11	2320	2328	2323	N05	E78	.981	11196	17.8	8	--F		C						2

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128 CRON	12	0035	0045	0039	N04	E78	.980	11196	17.9	10	--N	2	C	0039	.11				3
GRP37139	12	0857	0916	0901	N18	E43	.759	11192	15.6	19	-N				1.24				10 10 9 13
HTPR	12	0855	0910	0902	N17	E43	.754	11192	15.6	15	1N		C	0902	1.86	2.70			
ARCE	12	0855	0938	0901	N19	E43	.764	11192	15.6	43	-B		C	0901	1.22	1.90			
CRON	12	0856	0917	0859U	N17	E41	.734	11192	15.4	21	-N	2	C	0859	.32	.48			
ABST	12	0857	0911D	0902	N17	E44	.764	11192	15.7	14D	1N		P	0902	1.80	2.70			E
MEUD	12	0857	0909	0901	N18	E43	.759	11192	15.6	12	-N		C	0901	.72	1.10			
ISTA	12	0857	0906		N19	E43	.764	11192	15.6	9	-B								D
ATHN	12	0858	0920	0901	N18	E44	.768	11192	15.7	22	-N	1		0901	.83	1.65	.77		
MONT	12	0858	0908	0903	N20	E45	.788	11192	15.7	10	1N		C	0903	2.58				
CAPE	12	0858	0922	0902	N18	E44	.768	11192	15.7	24	-N		C	0902	1.16	1.90			
CATA	12	0900	0905D	0900	N18	E43	.759	11192	15.6	5D	-B		P	0900	.69	1.08		209	D
GRP37142	12	1207	1218	1210	N15	E13	.433	11190	13.5	11	--F				.62				3 3 3 11
MEUD	12	1206	1208D		N15	E13	.433	11190	13.5	2D	-F		C	1207	.52	.50			
HTPR	12	1207	1215	1209	N13	E12	.398	11190	13.4	8	-F		C	1209	.41	.40			
RAMY	12	1208E	1220	1210	N18	E15	.489	11190	13.6	12D	-F	3	C		.93				D
GRP37143	12	1334	1349	1341	S16	E18	.337	11191	13.9	15	--F				.45				3 3 3 8
MEUD	12	1333	1345		S15	E17	.316	11191	13.8	12	-F		C	1336	.41	.40			E
CATA	12	1335	1351	1340	S17	E18	.344	11191	13.9	16	-N		C	1340	.52	.56		157	
HTPR	12	1335	1350	1342	S16	E18	.337	11191	13.9	15	-F		C	1342	.41	.40			E
144 BOUL	12	2156E	2211	2158	S09	W19	.324	11189	11.5	15D	--F	1	V						2
GRP37146	13	1321	1337	1325	N19	E30	.636	11192	15.8	16	--N				.52				4 4 4 6
MEUD	13	1319	1326	1322	N19	E28	.616	11192	15.7	7	-N		C	1322	.72	.90			E
ATHN	13	1321E	1337	1326	N22	E32	.680	11192	16.0	16D	-N	1		1326	.33	.65	.61		
CAPS	13	1322	1342		N18	E32	.648	11192	16.0	20	-F	1	S	1322	.80	1.00			
RAMY	13	1325E	1343	1328	N18	E28	.607	11192	15.7	18D	-N	3	C		.52				D
GRP37147	13	1324	1345	1328	N09	E60	.882	11196	18.1	21	-N				.93				4 4 4 6
MEUD	13	1323	1340	1326	N10	E60	.884	11196	18.1	17	-N		C	1326	.62	1.20			E
CAPS	13	1324	1348		N07	E58	.862	11196	17.9	24	1N	2	V	1329	1.40	2.80		160	
RAMY	13	1325E	1351	1327	N09	E58	.866	11196	17.9	26D	-B	3	C		1.03				D
ATHN	13	1327E	1339	1330	N10	E62	.899	11196	18.2	12D	-N	1		1330	.66	1.34	.90		
GRP37149	13	1809	1821	1813	S19	E83	.988	11203	20.0	12	--F				.54				2 2 1 3
PALE	13	1808	1821	1813	S19	E80	.979	11203	19.8	13	-N	3	C		.54				
RAMY	13	1809	1821	1813	S19	E86	.994	11203	20.2	12	-F	3	C						D
GRP37150	13	1816	1842	1823	N08	E57	.856	11196	18.0	26	-N				1.37				3 3 2 3
LOCK	13	1810	1850	1820	N07	E57	.854	11196	18.0	40	-F		C						
PALE	13	1819	1837	1826	N08	E57	.856	11196	18.0	18	1N	3	C		1.80				F
RAMY	13	1820	1840	1824	N09	E57	.858	11196	18.0	20	-N	3	C		.93				D
151 PALE	13	1841E	1845	1841	S09	E73	.952	11201	19.3	4D	--N	2	C		.36				3
GRP37152	13	1917	1956	1926	N19	E24	.578	11192	15.6	39	-N								2 2 0 2
LOCK	13	1917	1955	1925	N18	E24	.568	11192	15.6	38	-N		C						
BOUL	13	1924E	1957	1927	N19	E23	.568	11192	15.5	33D	-N	2	V						
2 STATIONS REPORTING GROUP 37153. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP37153	13	2105	2129	2113	N08	E55	.838	11196	18.0	24	-N				.91				2 2 1 3
LOCK	13	2105	2140	2112	N07	E54	.826	11196	17.9	35	-N		C						K
PALE	13	2113E	2117	2113	N08	E56	.847	11196	18.1	4D	-N	2	C		.91				HF
37153	13	2105	2139	2128	N08	E54	.828	11196	17.9	34	*-N				1.18				2 2 1 2
LOCK	13	2105	2140	2127	N07	E54	.826	11196	17.9	35	-N		C						K
PALE	13	2128E	2137	2129	N09	E54	.831	11196	17.9	9D	-N	2	C		1.18				HF
154 PALE	13	2228	2235	2234	S20	E78	.972	11203	19.8	7	-N	2	C		.72				3
GRP37155	13	2304	2320	2312	N09	E54	.831	11196	18.0	16	-N				.68				3 3 2 6
MANI	13	2302E	2322D	2312	N11	E55	.845	11196	18.1	20D	-N	2		2312	.72	1.29			
LOCK	13	2305	2320	2312	N06	E53	.814	11196	17.9	15	-F		C						
PALE	13	2310E	2318	2311	N10	E53	.824	11196	17.9	8D	-N	2	C		.63				F
7 STATIONS REPORTING GROUP 37156. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP37156	13	2336	0036	2357	N08	E52	.809	11196	17.9	60	1N				2.68				7 7 6 7
CULG	13	2317	0051	0000	N08	E53	.819	11196	17.9	94	2B		C		4.33	7.10			
LOCK	13	2328	0030	2352	N04	E54	.820	11196	18.0	62	1N		C						K
PALE	13	2328E	0020	2358	N08	E53	.819	11196	18.0	52D	1B	2	C		3.25				
CRON	13	2342E	0030	2353U	N07	E51	.797	11196	17.8	48D	-N	1	C	2353	.86	1.43			
MANI	13	2344	0022	2359	N08	E52	.809	11196	17.9	38	1B	2		2359	3.92	6.52			
VORO	13	2349	0036D	2358	N10	E51	.805	11196	17.8	47D	1F		C	2358	1.47	2.40		92	EJ
MITK	13	2355E	0105		N09	E53	.822	11196	18.0	70D	1N		C	2355	2.27	4.00			E

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37156	13	2328	0010	2336	N07	E53	.817	11196	18.0	42	*-N				1.14				3 3 2 5
PALE	13	2328E	0020	2340	N08	E53	.819	11196	18.0	52D	-B	2	C		1.35				D
LOCK	13	2328	0030	2335	N04	E54	.820	11196	18.0	62	-N		C						K
MANI	13	2328	2340	2334	N09	E53	.822	11196	18.0	12	-N	2		2334	.93	1.57			
159 ATHN	14	0745E	0804	0747	N11	E49	.788	11196	18.0	19D	--F	1		0747	.17	.33	.79		3
161 RAMY	14	1703	1723	1706	S10	W45	.702	11189	11.3	20	--F	2	C		.83				D 3
GRP37166	15	0736	0818	0751	N08	E34	.604	11196	17.9	42	1B				2.21				4 3 3 6
CATA	15	0735E	0840	0750	N08	E34	.604	11196	17.9	65D	1B		P	0750	3.25	4.07		214	
CRON	15	0736	0815	0748	N07	E34	.598	11196	17.9	39	-B	1	C	0748	1.40	1.80			
ATHN	15	0740E	0800	0754	N10	E35	.627	11196	17.9	20D	1N	1		0754	1.98	3.92	.63		
ARCE	15	0825E	0922		N08	E34	.604	11196	17.9	57D	1F		C	0825	2.16	2.80			F
GRP37167	15	0936	0944	0939	N17	W27	.588	11190	13.4	8	--N				1.13				2 2 1 5
CANR	15	0935	0937D	0937	N17	W27	.588	11190	13.4	2D	-N	3	V	0937		.50			
MONT	15	0936	0944	0941	N16	W27	.579	11190	13.4	8	-N		C	0941	1.13				
168 MONT	15	1023	1032	1027	N16	W27	.579	11190	13.4	9	-N		C	1027	2.27				3
GRP37170	15	1843	1906	1846	N07	E29	.533	11196	18.0	23	--F				.67				2 2 2 4
PALE	15	1842E	1908	1847	N06	E29	.527	11196	18.0	26D	-F	3	C		.81				F
RAMY	15	1843	1903	1845	N08	E29	.540	11196	18.0	20	-F	1	C		.52				D
3 STATIONS REPORTING GROUP 37171.						0 STATIONS OBSERVING AND NOT REPORTING.													
GRP37171	15	2116	2156	2124	N10	E30	.566	11196	18.1	40	--N				.52				3 3 2 3
LOCK	15	2112	2300	2127	N11	E29	.561	11196	18.1	108	-N		C						KS
PALE	15	2117	2157	2124	N09	E32	.584	11196	18.3	40	-N	3	C		.72				DS
BOUL	15	2118	2155	2121	N10	E29	.553	11196	18.1	37	-N	1	C	2121	.32	.39			
37171	15	2112	2244	2218	N09	E28	.534	11196	18.0	92	*-F				.99				2 2 1 7
LOCK	15	2112	2300	2220	N09	E27	.521	11196	17.9	108	-F		C						K
PALE	15	2213E	2228	2216	N08	E28	.527	11196	18.0	15D	-F	2	C		.99				FS
GRP37173	16	0336	0347	0339	N07	E23	.453	11196	17.9	11	--N				.39				3 3 2 5
PALE	16	0333	0348	0339	N06	E23	.445	11196	17.9	15	-N	2	C		.45				F
CRON	16	0334	0348	0339	N07	E23	.453	11196	17.9	14	-N	1	C	0339	.32	.36			
SIBE	16	0340	0345		N07	E23	.453	11196	17.9	5	1F		V						
GRP37174	16	0412	0450	0422	N08	E23	.462	11196	17.9	38	-N				1.23				3 3 3 5
CULG	16	0409	0453	0425	N08	E24	.474	11196	18.0	44	1N		C	0425	2.17	2.30			
CRON	16	0413	0445	0422	N08	E23	.462	11196	17.9	32	-N	1	C	0422	.97	1.09			
TEHR	16	0413	0453	0420	N09	E23	.470	11196	17.9	40	-N	2	C		.55				D
GRP37177	16	1306	1315	1307	N06	E18	.379	11196	17.9	9	--N				.50				2 2 2 5
TEHR	16	1305	1317	1307	N07	E18	.388	11196	17.9	12	-N	3	C		.28				D
HTPR	16	1307	1312	1307	N05	E18	.370	11196	17.9	5	-N		C	1307	.72	.70			E
GRP37179	16	1839	1909	1842	N07	E15	.352	11196	17.9	30	--N				.77				4 3 2 4
PALE	16	1838	1913	1843	N07	E16	.364	11196	18.0	35	-N	3	C		.99				D
BOUL	16	1840	1903	1843	N07	E14	.340	11196	17.8	23	-N	1	C	1843	.54	.57			
LOCK	16	1840E	1910	1840	N08	E15	.363	11196	17.9	30D	-F		C						
RAMY	16	1854E	1900	1854	N08	E16	.375	11196	18.0	6D	-F	3	C		.83				D
GRP37180	16	2120	2138	2124	N07	E15	.352	11196	18.0	18	--F				.19				3 3 1 4
LOCK	16	2118	2140	2124	N08	E15	.363	11196	18.0	22	-F		C						
PALE	16	2121	2133	2123	N06	E14	.329	11196	17.9	12	-F	2	C		.19				F
BOUL	16	2121E	2142	2126	N08	E15	.363	11196	18.0	21D	-F	1	V						
GRP37183	17	0316	0353	0341	S06	W19	.324	11207	15.7	37	-N				.32				2 1 1 4
CRON	17	0316	0353	0341U	S06	W19	.324	11207	15.7	37	-N	1	C	0341	.32	.34			
KODA	17	0320	0330	0321	S06	W18	.308	11207	15.8	10	-N		V	0320	1.59	1.70	1.55		CEH
7 STATIONS REPORTING GROUP 37184.						1 STATIONS OBSERVING AND NOT REPORTING.													
GRP37184	17	0644	0713	0657	S06	W21	.357	11207	15.7	29	-N				1.02				5 5 5 7
CRON	17	0634	0714	0659	S06	W22	.373	11207	15.6	40	-B	1	C	0659	.65	.69			
CRON	17	0634	0714	0651	S06	W22	.373	11207	15.6	40	-N	1	C	0651	.43	.46			
CATA	17	0640	0715	0655	S06	W21	.357	11207	15.7	35	-B		C	0655	.58	.62		263	
CAPE	17	0646	0715	0656	S06	W19	.324	11207	15.9	29	-N		C	0655	1.06	1.10			
CRIM	17	0648	0718		S05	W21	.358	11207	15.7	30	-F		P	0655	1.35	1.40			E
MANI	17	0651	0703		S08	W21	.356	11207	15.7	12	-N	2		0659	1.44	1.55			
37184	17	0708	0721	0711	S05	W22	.374	11207	15.6	13	*-F				.75				2 2 2 8
TACH	17	0708E	0717	0709	S05	W21	.358	11207	15.7	9D	-N		V	0709	1.09	1.17	1.73	51	D
HTPR	17	0712E	0725	0712	S05	W22	.374	11207	15.6	13D	-F		C	0712	.41	.40			E

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GRP37185	17	0645	0700	0648	N20	W20	.552	11192	15.8	15	-N				1.17				6 6 6 7
CRON	17	0643	0701	0650	N19	W19	.532	11192	15.9	18	-N	1	C	0650	.54	.64			
CAPE	17	0645	0705	0649	N20	W20	.552	11192	15.8	20	-B		C	0649	1.11	1.30			H
CRIM	17	0645	0657		N21	W20	.564	11192	15.8	12	-N		P	0648	1.44	1.70			D
CATA	17	0645	0655	0645	N20	W20	.552	11192	15.8	10	-B		C	0645	.75	.91		204	
MANI	17	0645E	0702		N17	W21	.527	11192	15.7	17D	1N	2		0647	2.06	2.40			
TACH	17	0648E	0659	0649	N22	W20	.575	11192	15.8	11D	-N		V	0649	1.09	1.42	2.02	51	E
GRP37186	17	0830	0921	0905	S06	W22	.373	11207	15.7	51	--F				1.10				4 4 4 8
HTPR	17	0830	0925	0908	S05	W22	.374	11207	15.7	55	-F			0908	1.03	1.00			E
HTPR	17	0830	0925	0847	S05	W22	.374	11207	15.7	55	-F		C						E
CRON	17	0857	0917		S06	W20	.340	11207	15.9	20	-F	3	V		.70				
ABST	17	0858E	0913D	0908	S06	W22	.373	11207	15.7	15D	1F		P	0908	2.07	2.20		54	FJKZ
CATA	17	0900E	0915D	0900	S06	W22	.373	11207	15.7	15D	-N		P	0900	.58	.63		191	H
GRP37188	17	1408	1422	1410	N22	W23	.599	11192	15.9	14	--F				.42				3 3 3 8
RAMY	17	1407	1425	1410	N21	W23	.589	11192	15.9	18	-F	2	C		.72				D
ATHN	17	1408	1419	1410	N22	W23	.599	11192	15.9	11	-F	1		1410	.33	.65	.63		
HTPR	17	1408	1413D	1410	N22	W24	.608	11192	15.8	5D	-F		C	1410	.21	.20			
GRP37190	17	1719	1728	1722	N19	W28	.616	11192	15.6	9	--F				.72				2 2 1 5
PALE	17	1719	1725	1722	N18	W27	.597	11192	15.7	6	-F	2	C		.72				F
LOCK	17	1719	1730	1722	N19	W28	.616	11192	15.6	11	-F		C						
GRP37192	18	0025	0037	0029	S22	E12	.323	11201	18.9	12	--F				.32				2 2 1 5
LOCK	18	0024	0038	0029	S22	E13	.333	11201	19.0	14	-F		C						
CRON	18	0025	0035	0028	S22	E11	.314	11201	18.8	10	-N	1	C	0028	.32	.34			
GRP37193	18	0217	0228	0220	S07	W31	.511	11207	15.8	11	--N				.36				3 3 3 6
CRON	18	0215	0229	0218U	S08	W31	.511	11207	15.8	14	-N	1	C	0218	.32	.38			
MANI	18	0218	0231	0219	S07	W31	.511	11207	15.8	13	-N	2		0219	.31	.35			
PALE	18	0222E	0223	0222	S06	W30	.497	11207	15.8	1D	-F	2	C		.45				F
MANI	18	0229	0234	0232	S07	W33	.541	11207	15.6	5	-N	2		0232	.21	.25			
195 CRON	18	0341	0409	0350U	S05	W31	.513	11207	15.8	28	--F	1	C	0350	.32	.38			3
196 CRON	18	0422	0431	0425	S06	W32	.527	11207	15.8	9	--N	1	C	0425	.22	.25			2
GRP37197	18	0535	0548	0539	S07	W33	.541	11207	15.8	13	--N				.39				3 3 3 6
TEHR	18	0533	0549	0537	S07	W33	.541	11207	15.8	16	-N	1	C		.55				D
CRON	18	0537	0546	0540	S06	W33	.542	11207	15.8	9	-N	1	C	0540	.32	.38			
MANI	18	0539E	0540D	0539	S07	W33	.541	11207	15.8	1D	-N	2		0539	.31	.37			
GRP37200	18	0754	0805	0755	S17	W58	.842	11191	14.0	11	-N				.59				4 3 3 9
TEHR	18	0753	0809	0754	S18	W60	.860	11191	13.8	16	-N	2	C		.45				F
CRON	18	0753	0804	0755	S16	W60	.860	11191	13.8	11	-N	1	C	0755	.43	.84			
ATHN	18	0754	0810	0757	S15	W55	.813	11191	14.2	16	-N	1		0757	.99	1.98	.85		
CAPS	18	0755	0803		S18	W55	.815	11191	14.2	8	-F	1	S	0755	.90	1.50		150	
GRP37212	18	1541	1559	1542	S20	E08	.260	11201	19.3	18	--F				.50				2 1 1 4
ATHN	18	1541E	1559D	1542	S20	E08	.260	11201	19.3	18D	-F	1		1542	.50	.99	.27		
BOUL	18	1554E	1615	1558	S19	E04	.217	11201	19.0	21D	-F	1	V						
GRP37214	18	1606	1617	1613	S16	E47	.729	11209	22.2	11	--F								2 2 0 3
LOCK	18	1606	1618	1612	S18	E47	.731	11209	22.2	12	-F		C						
BOUL	18	1613E	1616	1613	S14	E46	.715	11209	22.1	3D	-F	1	V						
GRP37215	18	1620	1632	1623	N18	W40	.729	11192	15.7	12	--N				.22				3 3 1 3
LOCK	18	1618	1632	1622	N18	W41	.739	11192	15.6	14	-F		C						
BOUL	18	1620	1631	1622	N18	W39	.719	11192	15.8	11	-N	1	V						
CANR	18	1621	1633	1625	N17	W41	.733	11192	15.6	12	-N	2	C	1625	.22	.31			
GRP37216	18	1720	1741	1725	S06	W40	.639	11207	15.7	21	--F								2 2 0 2
LOCK	18	1715	1742	1725	S06	W41	.653	11207	15.6	27	-F		C						
CANR	18	1724	1740		S06	W39	.626	11207	15.8	16	-N	2	V			.80			
217 LOCK	18	1830	1842	1835	S06	W41	.653	11207	15.7	12	--F		C						1
218 LOCK	18	1856	1915	1903	S07	W41	.652	11207	15.7	19	-N		C						1
GRP37219	18	2145	2157	2151	S07	W42	.665	11207	15.8	12	--F				.22				2 2 1 2
LOCK	18	2145	2157	2149	S07	W41	.652	11207	15.8	12	-F		C						
BOUL	18	2147E	2157U	2152U	S07	W43	.678	11207	15.7	10D	-N	1	C	2152	.22	.29			
GRP37220	18	2220	2250	2231	S07	W43	.678	11207	15.7	30	-N				1.30				3 3 2 4
LOCK	18	2220	2240	2228	S07	W41	.652	11207	15.9	20	-N		C						
BOUL	18	2224E	2255U	2228	S07	W43	.678	11207	15.7	31D	-N	1	C	2228	.43	.59			
CULG	18	2227E	2254	2237	S06	W44	.691	11207	15.5	27D	1N		P		2.17	2.80			

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GRP37221	18	2246	2259	2250	S15	E45	.704	11209	22.3	13	--F				.30				3 3 2 4
LOCK	18	2243	2300	2250	S18	E46	.720	11209	22.4	17	-F		C						
VORO	18	2247	2255	2249	S13	E45	.703	11209	22.3	8	-F		C	2249	.37	.50		72	DJ
BOUL	18	2248	2303	2251	S15	E45	.704	11209	22.3	15	-F	1	C	2251	.22	.30			
GRP37223	18	2342	2358	2350	S07	W42	.665	11207	15.8	16	-F				2.68				2 2 1 7
CULG	18	2339	2355	2349	S07	W43	.678	11207	15.8	16	1N		C	2349	2.68	2.90			
LOCK	18	2345	0000	2350	S07	W41	.652	11207	15.9	15	-F		C						
GRP37225	19	0054	0103	0057	S08	W43	.677	11207	15.8	9	--N				.73				2 2 2 5
MANI	19	0053	0105	0057	S09	W42	.664	11207	15.9	12	-N	2		0057	1.24	1.67			
CRON	19	0055	0101	0057	S06	W43	.678	11207	15.8	6	-N	2	C	0057	.22	.29			
228 CRON	19	0249	0256	0251	S06	W44	.691	11207	15.8	7	--N	2	C	0251	.22	.30			4
GRP37229	19	0551	0608	0554	S07	W48	.739	11207	15.6	17	--N				.50				3 3 3 4
ATHN	19	0550	0618	0555	S07	W49	.750	11207	15.6	28	-N	1		0555	.66	1.34	.76		
CRON	19	0551	0605	0553	S06	W49	.751	11207	15.6	14	-N	2	C	0553	.22	.33			
MANI	19	0553E	0600	0555	S09	W47	.726	11207	15.7	7D	-N	2		0555	.62	.91			
GRP37233	19	1111	1151	1125	S07	W50	.762	11207	15.7	40	-N				1.43				7 6 5 8
ATHN	19	1109	1159	1117	S07	W53	.794	11207	15.5	50	-N	1		1117	1.49	2.55	.77		
ISTA	19	1110	1145		S07	W50	.762	11207	15.7	35	-N								
CAPS	19	1113	1150	1123	S07	W45	.703	11207	16.1	37	1N	3	P	1117	2.00	2.80		185	
CANR	19	1115U	1147	1122	S07	W52	.783	11207	15.6	32D	-N	2	C	1122	.65	1.03			
CATA	19	1125E	1135D	1125	S08	W51	.772	11207	15.7	10D	-N		P	1125	.52	.85		166	
RAMY	19	1125E	1157	1138	S07	W54	.804	11207	15.4	32D	-N	2	C		1.13				D
CAPF	19	1128E	1155D		S07	W50	.762	11207	15.7	27D	1N		P	1130	2.48	4.08			
GRP37234	19	1916	1923	1918	S06	W52	.784	11207	15.9	7	--F				.18				2 2 1 3
BOUL	19	1915	1925	1917	S06	W50	.762	11207	16.1	10	-F	2	V						
HUAN	19	1916	1921	1919	S06	W54	.805	11207	15.8	5	-N	1	C	1919	.18	.29			D
GRP37238	19	2229	0009		N08	W28	.526	11196	17.8	100	--N				.49				2 2 2 3
BOUL	19	2229U	2315U	2236U	N09	W26	.507	11196	18.0	46D	-N	1	C	2236	.32	.38			
CRON	19	2313	0009	2345U	N07	W29	.532	11196	17.8	56	-N	2	C	2345	.75	.89			
BOUL	19	2326U	2355D	2332U	N07	W29	.532	11196	17.8	29D	-N	1	C	2332	.22	.26			
GRP37240	20	0750	0811	0757	S15	E26	.449	11209	22.3	21	--N				.58				3 3 3 8
BUCA	20	0750E	0805D		S16	E25	.439	11209	22.2	15D	-F		C	0755	.66	.70			
CRON	20	0750	0802	0753	S16	E26	.453	11209	22.3	12	-N	2	C	0753	.43	.48			
ATHN	20	0754E	0826	0800	S14	E26	.446	11209	22.3	32D	-N	1		0800	.66	1.34	.54		
GRP37241	20	0805	0822	0809	S16	E27	.468	11209	22.4	17	--N				.54				2 2 2 6
CRON	20	0805	0822	0808	S16	E26	.453	11209	22.3	17	-N	2	C	0808	.54	.60			
CANR	20	0805	0821	0810U	S16	E27	.468	11209	22.4	16	-N	1	C	0810	.54	.61			
GRP37248	20	1609	1650	1630	S16	E23	.410	11209	22.4	41	--N				.21				3 2 1 5
HUAN	20	1609	1621D	1616	S16	E22	.396	11209	22.3	12D	-N	2	P	1616	.21	.22			E
LOCK	20	1610	1650	1630	S16	E22	.396	11209	22.3	40	-N		C						
CANR	20	1635	1635D		S16	E24	.425	11209	22.5		-N	2	V			.90			
249 LOCK	20	1950	2005	1957	S16	E22	.396	11209	22.5	15	--F		C						2
GRP37250	20	2059	2135	2113	S15	E20	.361	11209	22.4	36	--N				.51				3 3 2 3
HUAN	20	2057	2128	2113	S15	E18	.331	11209	22.2	31	-N	2	C	2113	.48	.51			E
LOCK	20	2100	2130	2112	S16	E22	.396	11209	22.5	30	-N		C						
BOUL	20	2103U	2148U	2113U	S15	E19	.346	11209	22.3	45D	-N	1	C	2113	.54	.57			
251 HUAN	20	2150	2156	2151	S07	W69	.930	11207	15.7	6	--F	2	C	2151	.07				D 3
GRP37253	21	0107	0120	0109	S04	W75	.964	11207	15.4	13	--N				.22				2 2 2 3
CRON	21	0105	0116	0108	S03	W76	.969	11207	15.3	11	-N	2	C	0108	.22				
MANI	21	0108	0124	0110	S05	W74	.959	11207	15.5	16	-N	1		0110	.21	.47			
GRP37257	21	0330	0347	0337	S04	W78	.977	11207	15.3	17	-B				.90				4 4 4 5
CRON	21	0329	0346	0336	S02	W79	.981	11207	15.2	17	-N	2	C	0336	.43				
TEHR	21	0330	0352	0336	S04	W77	.973	11207	15.4	22	-N	2	C		.32				HD
MANI	21	0330	0348	0337	S04	W80	.984	11207	15.1	18	-B	1		0337	1.03	2.65			
KODA	21	0335E	0342	0337	S04	W77	.973	11207	15.4	7D	-B		V	0335	1.80	1.80	3.08		CDH
GRP37265	21	1106	1113	1109	N07	W51	.796	11196	17.6	7	--N				.48				2 2 2 6
RAMY	21	1106E	1113	1108	N07	W49	.775	11196	17.8	7D	-N	2	C		.46				D
ATHN	21	1107E	1112	1109	N07	W53	.816	11196	17.5	5D	-N	1		1109	.50	.99	.81		
GRP37268	21	1407	1420	1410	S15	E09	.206	11209	22.3	13	--N				.93				3 3 3 9
ATHN	21	1405E	1425	1405	S15	E09	.206	11209	22.3	20D	-N	1		1405	.33	.64	.21		
CAPF	21	1407E	1420D		S15	E09	.206	11209	22.3	13D	1N		P	1412	2.06	2.10			
RAMY	21	1408	1415	1410	S16	E10	.230	11209	22.3	7	-F	1	C		.41				D

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	MAR																		
271 LOCK	21	1725	1750	1730	S20	E09	.270	11209	22.4	25	--F		C						3
273 LOCK	21	2035	2045	2038	S16	E05	.178	11209	22.2	10	--F		C						3
274 LOCK	21	2300	2320	2310	S16	E05	.178	11209	22.3	20	--F		C						3
275 LOCK	21	2343	2350	2346	N04	E75	.969	11217	27.6	7	--F		C						H 3
277 CRON	23	0121	0136	0124	N32	E16	.667	11213	24.3	15	--N	2	C	0124	.43	.58			3
278 TEHR	23	0400	0432	0404	N20	W10	.480	11214	22.4	32	--N	3	C		.19				D 4
287 RAMY	23	1738	1802	1744	N07	W80	.988	11196	17.7	24	--F	1	C		.52				D 3
	23	1935	2200	NO FLARE PATROL															
GRP37288	24	0531	0557	0539	S15	W27	.465	11209	22.2	26	-N				1.14				4 4 4 4
ATHN	24	0528	0600	0538	S14	W27	.461	11209	22.2	32	-N	1		0538	1.49		.47		
TEHR	24	0529	0558	0538	S17	W25	.445	11209	22.4	29	-N	3	C		.59				FU
CRON	24	0532	0554	0539	S15	W25	.435	11209	22.4	22	-N	2	C	0539	.86	.96			
KODA	24	0535	0554	0540	S14	W31	.519	11209	21.9	19	-N		V	0550	1.52	1.50	1.64		CE
GRP37293	24	1230	1248	1233	S13	E61	.868	11219	29.1	18	-F				1.00				4 4 4 11
HTPR	24	1225	1250D	1234	S14	E63	.885	11219	29.2	25D	-F		C	1234	.62	1.30			
RAMY	24	1229E	1247	1231	S12	E61	.868	11219	29.1	18D	-N	3	C		.72				F
CAPS	24	1231	1249		S12	E63	.885	11219	29.2	18	-N	3	V	1234	1.10			160	E
LVOV	24	1233	1245	1235	S13	E57	.833	11219	28.8	12	1F		C	1235	1.55	2.74		53	BE
GRP37294	24	1423	1432	1425	S13	E61	.868	11219	29.2	9	--N				.36				6 6 5 10
HUAN	24	1422	1426D	1426U	S13	E63	.885	11219	29.3	4D	-N	2	P	1426	.15	.31			D
MONT	24	1423	1432	1425	S13	E61	.868	11219	29.2	9	-N		C	1425	.77				
RAMY	24	1423E	1435	1424	S12	E62	.877	11219	29.2	12D	-N	3	C		.41				D
MCMA	24	1424	1431	1425	S12	E62	.877	11219	29.3	7	-N		C	1425	.26	.50			DH
TEHR	24	1424	1432	1424	S12	E60	.860	11219	29.1	8	-F	3	C		.19				D
ONDR	24	1425E	1429		S14	E58	.842	11219	29.0	4D	-F		V	1426			1.80		CDH
GRP37295	24	2058	2127	2109	S13	E58	.842	11219	29.2	29	--N				.48				3 3 2 3
BOUL	24	2056U	2110D	2108	S13	E58	.842	11219	29.2	14D	-N	1	C	2108	.43	.79			
LOCK	24	2100	2125	2110	S14	E57	.833	11219	29.1	25	-N		C						
MCMA	24	2108E	2128		S13	E58	.842	11219	29.2	20D	-N		C	2111	.52	1.00			E
GRP37296	25	0313	0328	0320	S16	E88	.998	11221	31.7	15	-B				1.10				2 2 2 5
KODA	25	0308	0326	0319	S15	E86	.995	11221	31.6	18	-B		V	0308	2.00	2.00	2.88		CD
TEHR	25	0318	0329	0320	S16	E89	.999	11221	31.8	11	-N	2	C		.19				D
298 TEHR	25	0610	0617	0612	S12	E54	.803	11219	29.3	7	--N	1	C		.28				D 4
GRP37299	25	0810	0832	0816	S17	E83	.989	11221	31.6	22	-N				.62				4 4 4 7
HTPR	25	0802	0850	0817	S18	E80	.980	11221	31.3	48	-N		C	0817	.52				
TEHR	25	0810	0823	0812	S16	E88	.998	11221	31.9	13	-N	2	C		.28				D
CANR	25	0812	0836D	0816	S18	E80	.980	11221	31.3	24D	-N	1	C	0816	.54				
MONT	25	0816	0820	0817	S17	E85	.993	11221	31.7	4	-N		C	0817	1.13				
GRP37300	25	1000	1008	1004	S17	E83	.989	11221	31.6	8	-N				.35				4 4 4 6
HTPR	25	0958	1009	1005	S17	E80	.980	11221	31.4	11	-N		C	1005	.21				D
TEHR	25	0959	1009	1002	S16	E87	.997	11221	31.9	10	-N	3	C		.19				D
MONT	25	1001	1006	1003	S17	E84	.991	11221	31.7	5	-N		C	1003	.77				
CANR	25	1001	1009	1004	S17	E80	.980	11221	31.4	8	-N	2	C	1004	.22				
GRP37301	25	1045	1100	1050	S16	E82	.986	11221	31.6	15	-N				.43				6 6 5 7
HTPR	25	1042	1103	1047	S16	E80	.980	11221	31.4	21	-N		C	1047	.21				D
RAMY	25	1044E	1101		S15	E82	.986	11221	31.6	17D	-B	2	C						D
TEHR	25	1045	1057	1046	S16	E87	.997	11221	1.0	12	-N	3	C		.28				D
CANR	25	1046	1100	1048	S17	E80	.980	11221	31.4	14	-N	2	C	1048	.22				
MONT	25	1046	1100D	1054	S17	E84	.991	11221	31.7	14D	-N		C	1054	1.13				
ATHN	25	1057E	1101D	1057	S16	E80	.980	11221	31.5	4D	-N	1		1057	.33	.65	.99		
GRP37304	25	1443	1447	1443	S17	E80	.980	11221	31.6	4	-N				.70				2 2 2 7
MCMA	25	1442	1447	1443	S16	E78	.973	11221	31.5	5	-N		C	1443	.26	1.40			D
MONT	25	1443	1446	1443	S17	E82	.986	11221	31.8	3	-N		C	1443	1.13				
GRP37306	26	0557	0724	0625	S20	E70	.933	11221	31.5	87	1F				1.79				3 1 1 6
ATHN	26	0533	0615	0540	S17	E68	.921	11221	31.3	42	-N	1		0540	.83	1.65	.92		
ABST	26	0557E	0724D	0625	S20	E70	.933	11221	31.5	87D	1F		P	0625	1.79				E
HTPR	26	0636	0705	0643	S17	E68	.921	11221	31.4	29	-F		C	0643	.52				
308 MANI	26	2250	2306	2257	S18	E63	.885	11221	31.7	16	--F	2		2257	.31	.58			2

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GRP37319	27	1427	1445	1433	S00	W90	1.000	11203	20.9	18	-N				.41				3 3 1 8
BOUL	27	1426	1450	1435	N03	W90	1.000	11203	20.9	24	-N	2	V						
HTPR	27	1427	1440	1433	S05	W90	1.000	11203	20.9	13	-N		C	1433	.41				
ATHN	27	1428E	1445	1430	N01	W90	1.000	11203	20.9	17D	-N	1		1430			1.00		
GRP37323	27	1806	1823	1809	N20	E30	.641	11222	30.0	17	--F				.32				3 3 2 5
LOCK	27	1805	1823	1809	N21	E29	.640	11222	29.9	18	-F		C						
RAMY	27	1805	1826	1807	N20	E30	.641	11222	30.0	21	-F	1	C		.41				D
BOUL	27	1807	1819	1810	N19	E31	.643	11222	30.1	12	-F	1	C	1810	.22	.28			
GRP37325	27	2028	2035	2031	S16	E49	.752	11221	31.5	7	--N				.43				3 3 2 4
RAMY	27	2028	2041	2031	S15	E50	.762	11221	31.6	13	-F	1	C		.52				D
HUAN	27	2028	2033	2031	S17	E49	.753	11221	31.5	5	-N	2	P	2031	.33	.51			D
LOCK	27	2029	2032	2030	S16	E49	.752	11221	31.5	3	-N		C						V
GRP37326	27	2113	2121	2116	N21	W68	.952	11214	22.8	8	--F				.45				2 2 1 3
PALE	27	2113	2120	2116	N20	W71	.965	11214	22.6	7	-N	3	C		.45				
BOUL	27	2115E	2121	2116	N21	W65	.937	11214	23.0	6D	-F	2	V						
GRP37327	27	2234	2250	2244	S16	E49	.752	11221	31.6	16	--F				.45				2 2 1 3
LOCK	27	2234	2250	2240	S15	E50	.762	11221	31.7	16	-F		C						
PALE	27	2245E	2250	2247	S16	E48	.741	11221	31.5	5D	-N	3	C		.45				F
330 MANI	28	0139	0155	0141	S19	E52	.787	11221	1.0	16	--N	2		0141	.21	.33			2
331 MANI	28	0205	0218	0213	S16	E44	.695	11221	31.4	13	--N	2		0213	.41	.56			1
332 MANI	28	0235	0249	0238	S19	E48	.745	11221	31.7	14	--N	2		0238	.31	.46			2
GRP37336	28	1222	1241	1225	S19	E40	.653	11221	31.5	19	-B				.94				3 2 2 3
CANR	28	1221	1240	1224	S19	E40	.653	11221	31.5	19	-N	2	C	1224	.43	.57			
HTPR	28	1223	1241	1225	S18	E40	.650	11221	31.5	18	-B		C	1225	1.44	1.80			E
CAPS	28	1240E	1244		S15	E40	.644	11221	31.5	4	-F	1	S	1240	.40	.50			
GRP37337	28	1315	1320	1316	S14	E41	.655	11221	31.6	5	--N				.57				2 2 2 5
HTPR	28	1315	1319	1317	S12	E41	.653	11221	31.6	4	-N		C	1317	.62	.80			
CATA	28	1315E	1320D	1315	S15	E41	.656	11221	31.6	5D	-N		P	1315	.52	.71		160	
GRP37342	29	0936	1006	0944	S15	W06	.177	11219	29.0	30	-N				1.73				9 9 9 10
CATA	29	0935E	1015D	0941	S15	W07	.187	11219	28.9	40D	-N		P	0941	1.44	1.47		195	
ARCE	29	0936	1000D	0941	S13	W07	.162	11219	28.9	24D	-B		C	0941	1.74	1.90			
CAPE	29	0936	1010	0943	S14	W06	.163	11219	28.9	34	-N		C	0943	1.34	1.40			
ABST	29	0936	1010	0942	S15	W06	.177	11219	28.9	34	1F		C	0942	2.59	2.70			E
CRON	29	0937	1009	0940	S15	W06	.177	11219	29.0	32	-N	2	C	0940	.97	.97			
HTPR	29	0937	0948D	0941	S14	W05	.153	11219	29.0	11D	-N		C	0941	1.34	1.40			E
MANI	29	0942E	0955	0943	S14	W05	.153	11219	29.0	13D	-N	1		0943	.62	.65			
MONT	29	0944E	1002	0949	S15	W05	.167	11219	29.0	18D	1B		C	0949	4.54				
CANR	29	0946E	1005	0946E	S16	W06	.191	11219	29.0	19D	-N	2	C	0946	.97	.97			
HTPR	29	0952E	1006	0952	S14	W05	.153	11219	29.0	14D	1N		C	0952	3.40	3.40			
GRP37344	29	1023	1037	1027	S19	E29	.511	11221	31.6	14	-N				1.16				6 6 6 7
CANR	29	1021	1025D	1022U	S18	E28	.493	11221	31.5	4D	-N	2	C	1022	.22	.25			
CAPE	29	1022	1040	1028	S19	E28	.498	11221	31.5	18	-F		C	1028	1.21	1.40			
MONT	29	1023	1031	1027	S20	E30	.530	11221	31.7	8	-N		C	1027	2.27				
MEUD	29	1023	1035		S19	E29	.511	11221	31.6	12	-F		C	1027	.83	.90			
CATA	29	1025E	1045D	1025	S19	E29	.511	11221	31.6	20D	-B		P	1025	.69	.82		237	
HTPR	29	1025	1034	1027	S18	E30	.520	11221	31.7	9	-B		C	1027	1.75	1.90			E
GRP37345	29	1221	1228	1223	S18	E25	.452	11221	31.4	7	--N				.55				4 4 3 6
RAMY	29	1221	1227	1222	S18	E25	.452	11221	31.4	6	-N	2	C		.83				D
MEUD	29	1221	1226	1222	S17	E25	.446	11221	31.4	5	-F		C	1222	.31	.30			D
CANR	29	1221	1222D	1222	S18	E25	.452	11221	31.4	1D	-N	2	V	1222		.60			
CATA	29	1225E	1230D	1225	S19	E25	.458	11221	31.4	5D	-N		P	1225	.52	.58		168	
6 STATIONS REPORTING GROUP 37347. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP37347	29	1410	1510	1417	S19	E23	.431	11221	31.3	60	-B				1.59				6 6 6 6
LOCA	29	1407	1530	1417	S19	E20	.391	11221	31.1	83	1N		P	1417	3.16	3.40			
CANR	29	1408	1513	1413	S20	E24	.451	11221	31.4	65	-B	2	C	1413	.54	.60			
MEUD	29	1410	1437D		S18	E24	.438	11221	31.4	27D	-N		C	1420	1.24	1.30			E
BOUL	29	1412	1429	1415	S18	E23	.424	11221	31.3	17	-B	1	C	1415	.65	.71			
RAMY	29	1412	1524	1416	S17	E23	.418	11221	31.3	72	-B	3	C		1.34				F
RAMY	29	1412	1524	1419	S17	E23	.418	11221	31.3	72	-N	3	C		1.65				
MONT	29	1413	1506	1422	S20	E21	.412	11221	31.2	53	1N		C	1422	2.58				
37347	29	1410	1517	1431	S21	E21	.420	11221	31.2	67	*-B				.43				2 1 1 7
BOUL	29	1410	1517	1431U	S21	E21	.420	11221	31.2	67	-B	1	C	1431	.43	.47			
MEUD	29	1447E	1500		S18	E24	.438	11221	31.4	13D	-F		C	1448	.72	.80			E

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GRP37348	29	1518	1545	1535	S20	E22	.425	11221	31.3	27	--N				.54				3 3 2 6
LOCK	29	1515	1550	1535	S20	E22	.425	11221	31.3	35	-N		C						
BOUL	29	1520	1546	1536U	S20	E22	.425	11221	31.3	26	-N	1	C	1536	.32	.36			
ZURI	29	1535E	1540	1535	S19	E23	.431	11221	31.4	5D	-N		P	1535	.75	.80			
GRP37349	29	1623	1635	1628	S15	W08	.198	11219	29.1	12	--F								2 2 0 5
LOCK	29	1620	1635	1625	S15	W08	.198	11219	29.1	15	-F		C						
BOUL	29	1626	1635	1630	S15	W07	.187	11219	29.2	9	-F	1	V						
GRP37350	29	1635	1650	1637	S19	E26	.471	11221	31.5	15	--N				.86				4 4 3 4
RAMY	29	1635	1650	1637	S18	E26	.466	11221	31.5	15	-N	4	C		1.13				D
BOUL	29	1635	1651	1637	S20	E26	.477	11221	31.6	16	-N	1	C	1637	.32	.37			
LOCK	29	1635	1650	1638	S20	E25	.464	11221	31.5	15	-B		C						
MEUD	29	1635E	1637D		S19	E26	.471	11221	31.5	2D	-N		C	1637	1.13	1.20			C
GRP37353	29	1944	2005	1949	S18	E21	.397	11221	31.4	21	-N				1.18				4 4 3 4
LOCK	29	1943	2010	1949	S18	E21	.397	11221	31.4	27	-B		C						
BOUL	29	1945	2000	1948	S17	E21	.390	11221	31.4	15	-N	1	C	1948	.86	.93			
RAMY	29	1945	2006	1948	S18	E21	.397	11221	31.4	21	-N	3	C		1.24				D
PALE	29	1948E	2002	1950	S18	E21	.397	11221	31.4	14D	-N	2	C		1.44				F
GRP37355	29	2139	2154	2143	S14	W10	.212	11219	29.2	15	--F				.62				4 4 2 4
PALE	29	2136	2200	2142	S16	W10	.234	11219	29.1	24	-F	2	C		.72				F
RAMY	29	2140	2153	2142	S16	W11	.246	11219	29.1	13	-N	3	C		.52				D
LOCK	29	2140	2152	2144	S16	W10	.234	11219	29.2	12	-F		C						
BOUL	29	2142E	2149	2142	S07	W10	.172	11219	29.2	7D	-N	2	V						
GRP37356	29	2150	2207	2154	S16	E24	.427	11221	31.7	17	--F				.83				2 2 1 4
LOCK	29	2145	2200	2150	S15	E24	.422	11221	31.7	15	-F		C						
RAMY	29	2155	2214	2158	S16	E23	.412	11221	31.6	19	-N	2	C		.83				D
GRP37358	29	2303	2318	2309	S20	E18	.374	11221	31.3	15	--F				.64				3 3 2 6
LOCK	29	2300	2315	2305	S19	E15	.327	11221	31.1	15	-F		C						
PALE	29	2305	2322	2308	S20	E16	.349	11221	31.2	17	-F	2	C		.45				
MANI	29	2312E	2316D	2315	S20	E24	.451	11221	31.8	4D	-N	1		2315	.83	.90			
GRP37359	29	2349	0010	2359	S16	E20	.369	11221	31.5	21	--F								2 1 0 6
PALE	29	2348	2352		S15	E21	.378	11221	31.6	4	-F	2	C						F
LOCK	29	2350	0010	2359	S16	E18	.341	11221	31.3	20	-F		C						S
GRP37361	30	0340	0357	0346	S20	E15	.338	11221	31.3	17	--N				.46				3 3 3 5
CRON	30	0339	0356	0345	S20	E13	.315	11221	31.1	17	-N	1	C	0345	.22	.23			
TACH	30	0341	0357	0346	S21	E15	.349	11221	31.3	16	-N		C	0346	.55	.58		64	D
MANI	30	0347E	0357	0348	S19	E18	.365	11221	31.5	10D	-N	1		0348	.62	.67			
GRP37362	30	0419	0443	0426	S16	W16	.313	11219	29.0	24	-N				1.98				6 6 6 6
CULG	30	0412	0527	0422	S15	W16	.305	11219	29.0	75	1N		C	0422	3.51	3.40			
CRON	30	0420	0439D	0428U	S19	W19	.378	11219	28.8	19D	-N	1	C	0428	1.29	1.33			
TEHR	30	0420	0424D	0424	S17	W15	.308	11219	29.1	4	-N	4	C		.46				F
TACH	30	0421	0528	0427	S16	W14	.285	11219	29.1	67	1F		C	0427	2.09	2.19	1.96	51	E
KODA	30	0423	0440	0428	S13	W15	.277	11219	29.1	17	1N		V	0423	2.59	2.70	1.76		CIJK
MANI	30	0427E	0450	0428	S14	W16	.298	11219	29.0	23D	-N	1		0428	1.86	1.93			
GRP37366	30	0556	0642	0602	S20	E13	.315	11221	31.2	46	-N				1.29				6 6 6 8
ABST	30	0554	0640	0601	S19	E12	.292	11221	31.1	46	-F		P	0601	1.62	1.70		52	EJ
CRON	30	0556	0613D	0559U	S20	E10	.284	11221	31.0	17D	-B	1	C	0559	.86	.86			
ATHN	30	0556E	0639D	0600	S19	E12	.292	11221	31.1	43D	-N	1		0600	1.32	2.68	.27		
MANI	30	0556E	0644	0600	S20	E17	.362	11221	31.5	48D	-N	2		0600	.93	.99			
TACH	30	0558	0623D	0604	S21	E12	.317	11221	31.1	25D	1F		C	0604	1.92	2.06	1.37	51	E
CATA	30	0605E	0630D	0605	S20	E12	.304	11221	31.2	25D	-N		P	0605	1.09	1.16		158	
GRP37367	30	0701	0717	0708	S20	E13	.315	11221	31.3	16	--N				.83				7 7 7 9
ABST	30	0657E	0717D	0711	S19	E13	.304	11221	31.3	20D	-F		P	0711	1.08	1.10			EJ
MANI	30	0658	0715	0708	S19	E18	.365	11221	31.6	17	-N	2		0708	.52	.55			
CATA	30	0700	0720	0705	S21	E12	.317	11221	31.2	20	-N		C	0705	.46	.49		200	
CAPE	30	0700	0718	0708	S21	E12	.317	11221	31.2	18	-N		C	0708	.98	1.00			
ATHN	30	0702E	0719D	0708	S19	E12	.292	11221	31.2	17D	-N	1		0708	.66	1.34	.22		
HTPR	30	0703	0715	0709	S20	E12	.304	11221	31.2	12	-B		C	0709	.83	.80			E
CRIM	30	0704	0716		S19	E12	.292	11221	31.2	12	-F		P	0708	1.26	1.30			D

SOLAR FLARES
Confirmed
MARCH 1971

OBSERVATORY	OBSERVED UT DATE 1971 MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP37370	30	0818	0841	0828	S20	E10	.284	11221	31.1	23	-N				.85				10 10 10 15
ARCE	30	0810E	0940		S20	E10	.284	11221	31.1	90D	-N		C	0825	1.16	1.30			
CRON	30	0815E	0902D	0828	S20	E10	.284	11221	31.1	47D	-N	1	C	0828	.54	.54			
ATHN	30	0816E	0852D	0827	S19	E10	.271	11221	31.1	36D	-N	1		0827	1.16	2.31	.25		
HTPR	30	0818	0835	0826	S20	E11	.294	11221	31.2	17	-B		C	0826	.52	.50			E
MANI	30	0818E	0837	0830	S20	E12	.304	11221	31.2	19D	-N	2		0830	.31	.32			
CANR	30	0818U	0830	0826	S20	E10	.284	11221	31.1	12D	-N	2	C	0826	.32	.32			
CAPE	30	0820	0840	0828	S20	E10	.284	11221	31.1	20	-F		C	0828	1.03	1.10			
MONT	30	0820E	0842	0828	S20	E11	.294	11221	31.2	22D	-N		C	0828	2.27				
TEHR	30	0828E	0833	0829	S19	E11	.281	11221	31.2	5D	-N	4	C		.22				F
CAPS	30	0830	0955		S19	E08	.252	11221	31.0	85	-N	2	S	0832	1.00	1.00		160	
GRP37371	30	0850	0916	0856	S20	E11	.294	11221	31.2	26	-N				1.04				14 13 11 15
CATA	30	0815	0935D	0855	S21	E11	.307	11221	31.2	80D	-B		P	0855	.75	.79		234	
CRON	30	0815E	0902D	0855U	S20	E11	.294	11221	31.2	47D	-B	1	C	0855	.75	.75			
TEHR	30	0845E	0912	0854	S20	E12	.304	11221	31.3	27D	-N	3	C		.45				F
ISTA	30	0845	0910		S19	E11	.281	11221	31.2	25	-N								
CANR	30	0850	0902	0853	S20	E10	.284	11221	31.1	12	-N	2	C	0853	.32	.32			
MONT	30	0851	0925	0855	S20	E11	.294	11221	31.2	34	1B		C	0855	2.58				
CAPE	30	0851	0935	0855	S21	E11	.307	11221	31.2	44	-B		C	0855	1.07	1.10			
ABST	30	0851	0924	0854	S20	E11	.294	11221	31.2	33	-F		C	0854	1.26	1.30		59	EJ
CRIM	30	0852	0907		S19	E11	.281	11221	31.2	15	-N		P	0855	1.44	1.50			D
MEUD	30	0852	0905	0854	S20	E11	.294	11221	31.2	13	-N		C						
HTPR	30	0852	0925	0855	S20	E10	.284	11221	31.1	33	-B		C	0855	1.55	1.60			
MANI	30	0853E	0905D	0858	S20	E12	.304	11221	31.3	12D	-N	2		0858	.52	.54			
ARCE	30	0903E	1003D		S20	E11	.294	11221	31.2	60D	-F		C	0903	.77	.90			
ATHN	30	0906E	0935D	0910	S19	E10	.271	11221	31.1	29D	-F	1		0910	.95	1.89	.25		
GRP37374	30	1048	1104	1053	N24	W57	.895	11226	26.2	16	-N				.66				4 4 4 13
MONT	30	1046	1055	1054	N25	W58	.904	11226	26.1	9	-N		C	1054	.72				
CAPS	30	1050	1110		N22	W57	.889	11226	26.2	20	-F		V	1052	.80	1.40		140	D
RAMY	30	1051E	1110	1052	N25	W57	.897	11226	26.2	19D	-N	2	C		.57				D
ZURI	30	1054E	1102	1054	N24	W55	.881	11226	26.3	8D	-N		P	1054	.53	1.10			
GRP37375	30	1114	1125	1117	S20	E10	.284	11221	31.2	11	--F				.33				3 3 3 11
RAMY	30	1113	1123	1115	S20	E10	.284	11221	31.2	10	-F	2	C		.31				D
ATHN	30	1115E	1129D	1119	S20	E10	.284	11221	31.2	14D	-F	1		1119	.17	.33	.28		
HTPR	30	1115	1123	1118	S20	E10	.284	11221	31.2	8	-F		C	1118	.52	.50			D
GRP37376	30	1256	1330	1301	S16	W19	.355	11219	29.1	34	-N				1.97				13 13 11 14
ABST	30	1255	1328D	1300	S16	W20	.370	11219	29.0	33D	1F		P	1300	1.98	2.10		52	FJ
ATHN	30	1255E	1317D	1259	S15	W21	.378	11219	29.0	22D	-N	1		1259	.50	.99	.39		
RAMY	30	1255	1337	1302	S15	W20	.364	11219	29.0	42	-N	3	C		1.86				UH
CATA	30	1255	1340D	1302	S17	W18	.349	11219	29.2	45D	1B		P	1302	2.02	2.16		207	
MCMA	30	1255	1335	1300	S16	W19	.355	11219	29.1	40	-N		C	1300	.83	.90			EL
HTPR	30	1255	1333	1302	S15	W20	.364	11219	29.0	38	1B		C	1302	2.78	2.80			U
CAPE	30	1256	1320	1301	S16	W19	.355	11219	29.1	24	-N		C	1301	1.56	1.70			H
MONT	30	1256	1337	1301	S15	W20	.364	11219	29.0	41	1B		C	1301	5.67				H
CAPS	30	1257	1321		S16	W15	.299	11219	29.4	24	-F		V	1259	.70	.70		150	E
CANR	30	1258	1258D		S16	W18	.341	11219	29.2		-N	2	V			1.40			
BOUL	30	1300E	1320	1300E	S14	W21	.373	11219	29.0	20D	-N	1	V						
CAPF	30	1306E	1315D		S16	W18	.341	11219	29.2	9D	1F		P	1308	2.27	2.42			
ZURI	30	1307E	1327D	1307	S15	W17	.320	11219	29.3	20D	-N		P	1307	1.54	1.60			
37376	30	1323	1336	1326	S17	W19	.362	11219	29.1	13	*-F				.41				3 3 2 13
RAMY	30	1255	1337	1325	S15	W20	.364	11219	29.0	42	-N	3	C		.57				
ATHN	30	1319E	1336D	1322	S17	W18	.349	11219	29.2	17D	-F	1		1322	.25	.50	.35		
BOUL	30	1327	1335	1330	S18	W18	.357	11219	29.2	8	-F	1	V						
GRP37377	30	1423	1450	1431	S16	W20	.370	11219	29.1	27	-N				1.85				12 11 11 12
TEHR	30	1421	1433	1424	S15	W20	.364	11219	29.1	12	-N	3	C		.25				DS
RAMY	30	1421	1453	1434	S15	W20	.364	11219	29.1	32	-N	3	C		1.24				
RAMY	30	1421	1453	1426	S15	W20	.364	11219	29.1	32	-N	3	C		.83				FS
HTPR	30	1422	1450	1430	S15	W20	.364	11219	29.1	28	1B		C	1430	2.58	2.60			
MONT	30	1422	1504	1429	S15	W22	.393	11219	28.9	42	1B		C	1429	4.54				
LOCA	30	1422	1455	1430	S14	W21	.373	11219	29.0	33	1N		V	1430	3.57	3.80			
CAPE	30	1423	1435D	1431	S15	W21	.378	11219	29.0	12D	-N		P	1431	1.30	1.40			
CANR	30	1423	1447	1428	S15	W22	.393	11219	28.9	24	-F	2	C	1428	.43	.47			
BOUL	30	1423	1500U	1427U	S14	W22	.388	11219	28.9	37D	1F	1	C	1427	1.94	2.10			
MCMA	30	1424E	1451D		S16	W19	.355	11219	29.2	27D	-N		C	1430	.83	.90			E
CAPS	30	1426	1451		S16	W16	.313	11219	29.4	25	1F	3	V	1427	3.00	3.00		150	
ATHN	30	1430E	1455D	1430	S22	W15	.360	11219	29.5	25D	-N	1		1430	.66	1.34	.41		
CATA	30	1430E	1450D	1443	S16	W21	.384	11219	29.0	20D	-N		P	1443	.87	.95		170	
GRP37381	30	1803	1815	1805	N11	E00	.303	11224	30.8	12	--F				.24				3 3 2 4
LOCK	30	1802	1813	1806	N12	W01	.320	11224	30.7	11	-N		C						
BOUL	30	1803	1818	1805	N10	E00	.287	11224	30.8	15	-F	1	C	1805	.22	.22			
MCMA	30	1803	1814	1805	N11	E00	.303	11224	30.8	11	-F		C	1805	.26	.30			D

SOLAR FLARES
Confirmed
MARCH 1971

OBSERVATORY	OBSERVED UT DATE 1971 MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP37382	30	2151	2218	2201	S19	E10	.271	11221	31.7	27	--F				1.03				3 3 1 3
LOCK	30	2150	2230	2202	S20	E05	.245	11221	31.3	40	-F		C						
MCMA	30	2151	2203D		S18	E08	.238	11221	31.5	12D	-N		C	2200	1.03	1.10			E
BOUL	30	2156E	2205	2159	S19	E16	.340	11221	1.1	9D	-F	2	V						
GRP37385	31	1158	1218	1203	S19	W02	.217	11221	31.3	20	--F				.21				3 2 2 11
RAMY	31	1143	1212	1148	S19	E00	.215	11221	31.5	29	-F	2	C		.83				D
TEHR	31	1158E	1218	1200	S19	W01	.215	11221	31.4	20D	-N	3	C		.19				D
CATA	31	1200E	1210D	1205	S18	W02	.200	11221	31.4	10D	-F		P	1205	.23	.24		135	
GRP37386	31	1235	1254	1238	S20	W01	.232	11221	31.4	19	--N				.36				3 3 2 12
RAMY	31	1234	1249	1237	S19	E00	.215	11221	31.5	15	-F	2	C		.52				D
TEHR	31	1236	1255	1238	S20	W01	.232	11221	31.4	19	-N	3	C		.19				D
CANR	31	1236	1258	1238	S20	W01	.232	11221	31.4	22	-N	1	V	1238		.80			
GRP37389	31	1515	1539	1518	S18	W03	.204	11221	31.4	24	--N				.56				9 8 7 12
RAMY	31	1512	1522	1516	S18	W02	.200	11221	31.5	10	-N	1	C		.62				D
BOUL	31	1514	1555	1518	S18	W03	.204	11221	31.4	41	-N	1	C	1518	.32	.32			
CANR	31	1515	1556	1517	S18	W03	.204	11221	31.4	41	-N	2	V	1517		.60			
LOCA	31	1515	1550	1520	S19	W03	.220	11221	31.4	35	-N		V	1520	1.05	1.10			
MEUD	31	1516	1520	1517	S18	W04	.209	11221	31.3	4	-F		C	1517	.52	.50			
MCMA	31	1516	1550D	1517	S18	W04	.209	11221	31.3	34D	-N		C	1517	.41	.40			E
ATHN	31	1516E	1528D	1518	S19	W02	.217	11221	31.5	12D	-N	1		1518	.50	.99	.22		
CAPS	31	1517	1527		S18	W02	.200	11221	31.5	10	-F	2	V	1518	.50	.50			
CAPF	31	1535E	1545D		S18	W02	.200	11221	31.5	10D	1N		P	1539	2.68	2.73			
GRP37392	31	1718	1738	1726	S18	W04	.209	11221	31.4	20	--N				.70				5 5 4 5
MCMA	31	1715	1819	1726	S18	W04	.209	11221	31.4	64	-B		C	1726	.52	.60			EHL
LOCK	31	1720	1735	1727	S18	W05	.215	11221	31.3	15	-N		C						
CANR	31	1720	1737	1725	S17	W04	.193	11221	31.4	17	-N	2	C	1725	.54	.54			
BOUL	31	1723E	1731D	1724	S18	W05	.215	11221	31.3	8D	-N	1	C	1724	.75	.75			
PALE	31	1729E	1730	1729	S19	W06	.237	11221	31.3	1D	-B	1	C		.99				D
BOUL	31	1731	1749D	1731	S19	E00	.215	11221	31.7	18D	-F	2	V						
GRP37394	31	1839	1856	1845	S18	W04	.209	11221	31.5	17	--N				.64				3 3 2 3
BOUL	31	1836U	1855	1845	S18	W04	.209	11221	31.5	19D	-N	1	C	1845	.97	.97			
LOCK	31	1841	1857	1845	S18	W05	.215	11221	31.4	16	-N		C						
MCMA	31	1848E	1855		S18	W04	.209	11221	31.5	7D	-N		C	1848	.31	.30			E
GRP37395	31	1934	1955	1944	S17	W05	.199	11221	31.4	21	--F				.91				3 3 1 3
BOUL	31	1930	1953	1943	S17	W04	.193	11221	31.5	23	-F	1	V						
LOCK	31	1935	1953	1942	S17	W05	.199	11221	31.4	18	-F		C						
PALE	31	1938	1958	1947	S18	W07	.230	11221	31.3	20	-N	3	C		.91				D
396 LOCK	31	2022	2040	2030	S17	W05	.199	11221	31.5	18	--F		C						2
	31	2134	2145	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 nor are these subflares included in the Flare Index below.

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
710301	3.64	24.0	710315	59.71	24.0	710325	12.62	24.0
710303	19.65	24.0	710316	7.98	24.0	710326	16.91	24.0
710304	87.00	24.0	710317	13.26	24.0	710327	0.89	24.0
710305	3.90	24.0	710318	50.56	24.0	710328	4.66	24.0
710307	83.78	24.0	710319	10.79	24.0	710329	43.59	24.0
710308	7.99	24.0	710321	4.27	24.0	710330	79.84	24.0
710310	0.00	23.9	710323	0.00	21.6	710331	0.00	23.8
710312	8.12	24.0	710324	12.14	24.0			
710313	65.30	24.0						

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

Errata: Flare Indices for February 4 and 5, 1971 should read 23.34 and 226.01, respectively, instead of 0 and 220.41 as given on page 21 of "Solar-Geophysical Data" Number 324-Part II.

SOLAR FLARES
Unconfirmed
MARCH 1971

OBSERVATORY	OBSERVED UT DATE 1971 MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
011 MANI	01	0050	0110	0054	S17	W67	.913	11165	24.0	20	-F	2		0054	1.75	3.60			4
012 MANI	01	0313	0332	0317	N09	E03	.284	11173	1.4	19	-N	2		0317	.62	.65			5
3 STATIONS REPORTING GROUP 37014.											4 STATIONS OBSERVING AND NOT REPORTING.								
GRP37014	01	1047	1058	1050	N08	W11	.322	11173	28.6	11	-F				.56				3 2 2 7
ABST	01	1046	1057	1050	N08	W10	.312	11173	28.7	11	-F		C	1050	.90	1.00		47	DJ
TEHR	01	1048	1058	1049	N08	W11	.322	11173	28.6	10	-F		C		.28				D
CANR	01	1048	1058	1050	N08	W11	.322	11173	28.6	10	-N	2	C	1050	.22	.23			
015 TEHR	01	1138	1210	1141	S12	E86	.996	11181	7.9	32	-F	3	C		.45				D 7
GRP37017	02	0002	0014	0006	S08	W68	.923	11166	24.9	12	-F				.72				2 2 1 6
LOCK	02	0002	0012	0006	S08	W66	.909	11166	25.1	10	-F		C						
MANI	02	0004E	0015	0006	S08	W69	.929	11166	24.8	11D	-F	2		0006	.72	1.53			
018 TEHR	02	0333	0342	0336	N05	W17	.357	11173	28.9	9	-N	2	C		.19				D 4
021 CRON	02	0741E	0752		N03	W58	.855	11177	26.0	11D	-F	3	V		.70				4
022 CATA	02	0945E	1000D	0955	S02	E38	.619	11180	5.3	15D	-F		P	0955	.58	.73		144	12
028 MANI	03	0355E	0414D	0400	N07	W33	.586	11173	28.7	19D	-N	2		0400	.31	.38			5
029 MANI	03	0408E	0432D	0414	S15	W13	.257	11182	2.2	24D	-N	2		0414	.31	.32			5
GRP37031	03	0709	0730	0713	N08	W27	.514	11173	1.3	21	-N				.62				2 1 1 8
MANI	03	0709	0730	0713	N08	W27	.514	11173	1.3	21	-N	2		0713	.62	.71			
CAPS	03	0719	0743		N06	W25	.473	11173	1.4	24	-F	3	P	0726	.80	.90		150	D
GRP37033	03	0834	0918	0841	S15	W16	.301	11182	2.2	44	-F				.43				2 2 2 9
TEHR	03	0830	0922	0838	S15	W16	.301	11182	2.2	52	-N	3	C		.64				F
CRON	03	0837	0913	0843	S15	W15	.286	11182	2.2	36	-F	1	C	0843	.22	.22			
034 CAPS	03	0910	0919		S01	E24	.418	11180	5.2	9	-F	3	V	0912	.40	.50		135	11
GRP37035	03	1116	1142	1118	S14	W17	.309	11182	2.2	26	-F				.21				2 2 1 6
ATHN	03	1114	1139	1117	S14	W17	.309	11182	2.2	25	-N	1		1117			.31		
HTPR	03	1118	1145	1119	S14	W17	.309	11182	2.2	27	-F		C	1119	.21	.20			
037 HUAN	03	1753E	1805D	1757U	S03	E19	.332	11180	5.2	12D	-N	2	P	1757	.12	.13			D 5
041 ATHN	04	1110E	1130	1115	S03	E10	.188	11180	5.2	20D	-N	1		1115	.33	.66	.17		10
042 ATHN	04	1246	1257D	1250	S03	E09	.172	11180	5.2	11D	-F	1		1250	.33	.66	.17		11
043 MONT	04	1442	1449	1444	S14	W32	.532	11182	2.2	7	-N		C	1442	1.13				8
046 PALE	04	2051E	2059	2053	N16	W22	.528	11176	3.2	8D	-F	2	C		.72				FS 4
050 ATHN	05	0824E	0824D	0824	N11	W20	.454	11176	3.9		-N	1		0824	.17	.33	.45		5
051 ABST	05	0841	0852	0845	N11	W20	.454	11176	3.9	11	-F		C	0845	.63	.70		49	DJ 5
053 ABST	05	1125	1138D	1129	N07	W62	.895	11173	28.8	13D	-F		P	1129	.81	1.80		50	D 5
054 RAMY	05	1315E	1329	1315	N07	W66	.923	11173	28.6	14D	-N	2	C		.36				D 4
055 ATHN	05	1354E	1415	1354	N08	E49	.779	11186	9.3	21D	-F	3		1354	.99	1.98	.78		4
056 HUAN	05	1413	1424D	1416	N08	W68	.937	11173	28.5	11D	-N	2	P	1416	.07				D 6
057 HUAN	05	1444	1447D	1447U	N05	W65	.914	11173	28.7	3D	-N	2	P	1447	.18	.38			D 6
058 ATHN	05	1457	1458D	1458	N08	W70	.948	11173	28.4	1D	-N	2		1458	.17	.33	.95		6
061 CRON	06	0046E	0054		N07	W69	.941	11173	28.9	8D	-F	3	V		.50				4
063 MANI	06	0308E	0311D	0311	S12	E22	.378	11181	7.8	3D	-F	2		0311	.62	.67			6
064 CRON	06	0320E	0324		S13	E20	.350	11181	7.6	4D	-F	3	V		1.00				6
065 ATHN	06	0619	0630D	0623	S10	E25	.420	11181	8.1	11D	-F	2		0623	.33	.66	.41		7
067 ATHN	06	1124	1134	1127	S14	W90	1.000	11171	27.7	10	-F	2		1127	.17	.33	1.00		6
072 CRON	07	0354E	0411	0401	S15	E90	.999	11191	13.9	17D	-N	3	V		.40				6
073 MANI	07	0501E	0518	0503	N25	W51	.859	11174	3.4	17D	-N	2		0503	.52	1.05			4

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074 CRON	07	0501E	0514		N11	W44	.737	11176	3.9	13D	-F	3	V		.45				4
076 ATHN	07	0609E	0630	0611	S14	E88	.998	11191	13.9	21D	-N	2		0611	.17	.33	1.00		4
077 ATHN	07	0653E	0714	0655	S07	E14	.240	11181	8.3	21D	-F	3		0655	.33	.66	.19		6
078 CANR	07	0927	0950	0936	S13	E07	.156	11181	7.9	23	-N	3	V	0936		.20			10
081 RAMY	07	1110	1124	1112	N25	W53	.873	11174	3.5	14	-F	2	C		.31				D 6
088 CRON	08	0220U	0235U	0222U	S09	E48	.737	11189	11.7	15D	-F	1	C	0222	.11	.16			7
090 ATHN	08	0757E	0807	0759	S17	E48	.741	11189	11.9	10D	-F	2		0759	.17	.33	.72		7
091 ATHN	08	0829E	0835	0829	S12	E75	.961	11191	14.0	6D	-N	3		0829	.17	.33	.96		6
092 ARCE	08	0840E	0900D		S08	E43	.677	11189	11.6	20D	-N		C	0850	.81	1.10			T 8
093 ATHN	08	0907E	0931	0907	S19	W88	.997	11182	1.8	24D	-B	3		0907	.33	.66	1.00		6
GRP37094	08	1048	1117	1105	S12	W06	.132	11181	8.0	29	-F				.94				2 2 2 6
MEUD	08	1048	1115	1102	S11	W06	.122	11181	8.0	27	-F		C	1102	.52	.50			E
ABST	08	1106E	1119	1108	S13	W05	.132	11181	8.1	13D	-F		P	1108	1.35	1.40		49	EG
096 CANR	08	1505U	1518U	1510U	S14	W10	.207	11181	7.9	13D	-F	1	C	1510	.22	.22			7
098 BOUL	08	1845E	1907	1856	S18	E68	.920	11191	13.9	22D	-F	1	V						4
101 MANI	09	0417	0422	0418	S13	W18	.319	11181	7.8	5	-F	2		0418	.31	.30			5
102 ARCE	09	0854E	1000D		S14	E60	.859	11191	13.9	66D	1F		C	0905	1.16	2.20			6
103 ARCE	09	0920	0940D	0925	S08	E28	.466	11189	11.5	20D	-F		C	0925	.63	.70			7
106 CATA	09	1445E	1450D	1445	N01	E25	.443	11189	11.5	5D	-N		P	1445	.23	.26		151	8
111 ATHN	10	0824	0830D	0826	S05	E15	.260	11189	11.5	6D	-F	2		0826	.33	.65	.27		8
112 CRON	10	0850	0905	0855	S07	E13	.223	11189	11.3	15	-F	3	V		.25				7
113 TEHR	10	0929	0941	0932	S19	W10	.263	11193	9.6	12	-N	2	C		.09				D 6
114 ARCE	10	1020E	1025D		S14	E46	.715	11191	13.9	5D	-B		P	1020	1.31	1.90			7
GRP37117	11	0732E	0745	0732	S09	E05	.092	11189	11.7	13	-F				.36				2 2 2 8
CATA	11	0732E	0745	0732	S09	E05	.092	11189	11.7	13D	-F		P	0732	.29	.29		141	
BUCA	11	0733E	0745D		S08	E04	.070	11189	11.6	12D	-F		C	0735	.43	.40			D
118 TEHR	11	1004	1011	1005	N13	E56	.859	11192	15.6	7	-F	3	C		.19				HD 7
119 TEHR	11	1020	1033	1025	N15	W44	.754	11185	8.1	13	-F	3	C		.23				D 6
120 RAMY	11	1302	1315	1306	N15	E25	.549	11190	13.4	13	-F	3	C		.52				D 5
121 ATHN	11	1331	1340D	1334	N08	E88	1.000	11196	18.2	9D	-F	2		1334	.17	.33	1.00		6
122 HTPR	11	1611	1618	1612	S15	W50	.761	11181	7.9	7	-F		C	1612	.21	.30			5
127 CRON	12	0009E	0032		N09	E75	.972	11196	17.6	23D	-F	3	V		.30				4
129 CRON	12	0218E	0229		N08	E85	.998	11196	18.5	11D	-F	3	V		.20				4
130 ATHN	12	0549	0608	0553	S09	W10	.175	11189	11.5	19	-F	1		0553	.17	.33	.18		5
131 CRON	12	0616	0624	0620	S08	E09	.156	11198	12.9	8	-F	3	V		.25				5
132 ATHN	12	0659E	0716	0659	S09	W10	.175	11189	11.5	17D	-F	1		0659	.33	.65	.18		7
133 ATHN	12	0714E	0730	0714	N07	E73	.962	11196	17.8	16D	-F	1		0714	.33	.65	.95		9
134 ATHN	12	0714E	0732	0714	S17	E22	.400	11191	14.0	18D	-F	1		0714	.17	.33	.41		9
135 ATHN	12	0755	0802	0757	N18	E42	.749	11192	15.5	7	-F	1		0757	.17	.33	.85		11
136 ATHN	12	0815E	0827	0815	S09	E72	.947	11195	17.7	12D	-F	1		0815	.33	.65	.95		12
GRP37137	12	0815	0828	0818	S07	W14	.240	11189	11.3	13	-F				1.55				2 2 2 13
MONT	12	0814	0826	0818	S06	W13	.224	11189	11.4	12	-N		C	0818	2.27				
ATHN	12	0815	0829	0818	S07	W14	.240	11189	11.3	14	-F	1		0818	.83	1.65	.26		

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GRP37138	12	0818	0836	0822	N05	E72	.956	11196	17.7	18	-F				.17				2 1 1 13
ATHN	12	0818	0836	0822	N05	E72	.956	11196	17.7	18	-F	1		0822	.17	.33	.95		
ARCE	12	0825	0904	0834	N09	E80	.989	11196	18.4	39	-N		C	0834	.53				
140 ARCE	12	0908	0925	0910	N07	E80	.988	11196	18.4	17	-N		C	0910	.40				15
141 ATHN	12	1116	1124	1118	N13	E46	.766	11192	15.9	8	-F	1		1118	.17	.33	.78		10
145 HTPR	13	1118	1135D	1128	N18	E28	.607	11192	15.6	17D	-F		C	1118	.31	.40			8
GRP37148	13	1530	1550	1536	N21	E26	.616	11192	15.6	20	-F				.72				2 2 2 8
MEUD	13	1530	1542	1532	N21	E28	.635	11192	15.7	12	-F		C	1532	.41	.50			E
RAMY	13	1540E	1557	1540	N21	E24	.598	11192	15.5	17D	-F	2	C		1.03				D
157 ATHN	14	0536	0546	0538	S01	E44	.698	11195	17.5	10	-N	1		0538	.17	.33	.64		5
158 ATHN	14	0716E	0745	0722	N18	W12	.467	11190	13.4	29D	-F	1		0722	.50	.99	.46		4
160 ATHN	14	0834E	0851	0836	S15	W05	.160	11191	14.0	17D	-F	1		0836	.33	.65	.19		7
162 RAMY	14	1826	1858	1830	N08	E42	.701	11196	17.9	32	-F	2	C		.57				D 5
163 RAMY	14	1826	1858	1848	N08	E42	.701	11196	17.9	32	-F	2	C		.88				4
164 LOCK	14	2320	0020	2340	N09	E41	.694	11196	18.0	60	-F		C						S 5
165 PALE	15	0302	0319	0305	N18	E07	.440	11192	15.7	17	-N	2	C		.19				H 5
169 ATHN	15	1316E	1349D	1316	N20	E02	.458	11192	15.7	33D	-N	1		1316	.83	1.65	.47		7
172 BOUL	15	2217U	2222D	2220	N18	W03	.428	11192	15.7	5D	-F	1	C	2220	.22	.24			6
175 TEHR	16	0954	1004	0955	S13	W35	.572	11191	13.8	10	-F	3	C		.28				D 6
176 RAMY	16	1132	1153	1136	N07	E18	.388	11196	17.8	21	-F	2	C		.41				D 6
178 BOUL	16	1627E	1633	1628	N12	E52	.820	11204	20.6	6D	-F	1	V						5
181 BOUL	16	2225	2234	2226	N08	E15	.363	11196	18.1	9	-F	2	V						4
182 BOUL	16	2311	2353D	2317	N10	E15	.387	11196	18.1	42D	-F	2	V						4
187 ATHN	17	0954E	1012D	0956	S07	W21	.356	11207	15.8	18D	-N	1		0956	.17	.33	.35		6
189 RAMY	17	1437	1459		S10	E83	.990	11211	23.8	22	-F	2	C						D 8
191 MCMA	17	1812	1823	1814	S05	W28	.468	11207	15.7	11	-N		C	1814	.52	.60			E 6
194 MANI	18	0244	0256	0245	S07	W31	.511	11207	15.8	12	-N	2		0245	.31	.36			3
198 ATHN	18	0608	0628	0611	S04	W59	.855	11191	13.8	20	-N	1		0611	.33	.65	.59		7
199 CATA	18	0725	0745	0730	S06	W34	.556	11207	15.8	20	-N		C	0730	.46	.56		178	11
201 ATHN	18	0820	0830D	0822	S04	W59	.855	11191	13.9	10D	-F	1		0822	.33	.65	.59		9
202 ABST	18	0831	0845	0833	S06	W36	.585	11207	15.7	14	1F		C	0833	2.61	3.20			EJ 10
203 CRON	18	0924	0935	0925	S07	W35	.570	11207	15.8	11	-F	1	C	0925	.22	.26			6
204 CATA	18	1050	1055	1050	N05	W12	.293	11196	17.6	5	-N		C	1050	.29	.30		158	6
205 CAPF	18	1052E	1100D		S15	W88	.998	11198	11.9	8D	1N		P	1053	.62				A 6
206 CANR	18	1115	1115D		S21	E08	.274	11201	19.1		-N	3	V			.60			6
207 ATHN	18	1155	1217	1157	N06	W06	.249	11196	18.0	22	-F	1		1157	.17	.33	.25		5
208 ATHN	18	1312E	1332	1316	S05	W35	.572	11207	15.9	20D	-N	1		1316	.12	.25	.56		5
209 ATHN	18	1344E	1357	1346	S15	W58	.842	11191	14.2	13D	-N	1		1346	.17	.33	.85		5
210 ATHN	18	1416	1431	1418	S06	W37	.599	11207	15.8	15	-F	1		1418	.33	.65	.57		5
211 ATHN	18	1437	1445	1441	S04	W38	.615	11207	15.8	8	-N	1		1441	.17	.33	.59		4
213 ATHN	18	1552E	1559D	1554	S05	W39	.627	11207	15.7	7D	-F	1		1554	.33	.65	.13		5
222 LOCK	18	2330	2350	2337	S18	E46	.720	11209	22.4	20	-F		C						6

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224 LOCK	19	0005	0012D	0012	N17	W44	.763	11192	15.7	7D	-F		C						8
226 MANI	19	0155	0212	0157	S09	W39	.625	11207	16.2	17	-N	2		0157	.41	.43			5
227 MANI	19	0233E	0245	0235	S10	W45	.702	11207	15.7	12D	-N	2		0235	.31	.44			5
230 ATHN	19	0707	0714	0709	N07	W24	.466	11196	17.5	7	-F	1		0709	.17	.33	.44		5
231 CANR	19	0807	0814	0809	S05	W50	.763	11207	15.6	7	-N	3	V	0809		.50			6
232 ATHN	19	1010	1042	1015	N08	W22	.448	11196	17.8	32	-F	1		1015	.66	1.34	.45		8
235 BOUL	19	1943E	1949	1943E	N20	W55	.870	11192	15.7	6D	-F	2	V						4
236 PALE	19	1947E	1948	1948	S06	W53	.795	11207	15.8	1D	-N	2	C		.45				F 4
237 BOUL	19	1949E	1954	1951	S06	W50	.762	11207	16.1	5D	-F	2	V						3
239 ATHN	20	0536E	0556	0538	S15	W88	.998	11191	13.6	20D	-F	1		0538	.17	.33	1.00		4
GRP37242	20	1322	1330	1324	S14	E24	.416	11209	22.4	8	-F				.32				2 2 2 7
RAMY	20	1322	1333	1324	S14	E23	.401	11209	22.3	11	-F	2	C		.31				D
ATHN	20	1323E	1327	1323	S14	E24	.416	11209	22.4	4D	-F	1		1323	.33	.65	.42		
243 ABST	20	1350	1407D	1358	S16	E24	.425	11209	22.4	17D	-F		P	1358	.90	1.00		50	DZ 8
GRP37244	20	1425	1434	1430	S15	E24	.420	11209	22.4	9	-F				.11				2 2 2 7
HUAN	20	1425	1436	1430	S15	E23	.405	11209	22.3	11	-F	2	C	1430	.05	.06			D
ATHN	20	1426E	1432	1429	S14	E24	.416	11209	22.4	6D	-N	1		1429	.17	.33	.42		
245 ATHN	20	1426E	1429	1427	S10	E50	.760	11211	24.4	3D	-N	1		1427	.33	.65	.24		7
246 RAMY	20	1515	1532	1523	N17	E03	.410	11204	20.9	17	-F	2	C		.21				D 6
247 HUAN	20	1535E	1601	1548	S16	E22	.396	11209	22.3	26D	-N	2	P	1548	.12	.13			D 5
252 MANI	21	0018E	0032	0020	S05	W75	.964	11207	15.4	14D	-N	1		0020	.21	.48			4
254 MANI	21	0145	0206	0153	S04	W80	.984	11207	15.1	21	-F	2		0153	.21	.53			3
255 MANI	21	0222	0255	0233	S04	W80	.984	11207	15.1	33	-N	1		0233	.21	.53			3
256 TEHR	21	0258E	0319		S03	W78	.977	11207	15.3	21D	-N	2	C						HD 5
258 MANI	21	0523	0628	0600	N32	E28	.735	11213	23.3	65	-F	2		0600	.19	.28			7
259 MANI	21	0558	0607	0558	S04	W80	.984	11207	15.2	9	-F	2		0558	.21	.53			7
260 TEHR	21	0633E	0650	0638	S03	W79	.981	11207	15.3	17D	-N	2	C		.19				D 5
261 ATHN	21	0651E	0705	0657	S04	W80	.984	11207	15.3	14D	-N	1		0657	.33	.65	.98		5
262 MANI	21	0720	0734	0723	S04	W80	.984	11207	15.3	14	-F	2		0723	.21	.53			8
GRP37263	21	0812	0830	0818	S16	E13	.268	11209	22.3	18	-F				.49				2 2 2 9
CRON	21	0812	0830	0817	S16	E13	.268	11209	22.3	18	-F	2	C	0817	.32	.32			
ATHN	21	0818E	0826D	0818	S15	E12	.246	11209	22.2	8D	-N	1		0818	.66	1.34	.27		
264 MANI	21	0919	0926D	0922	S04	W80	.984	11207	15.4	7D	-F	1		0922	.21	.53			9
266 ATHN	21	1235	1250D	1237	S14	E10	.209	11209	22.3	15D	-F	1		1237	.17	.33	.21		5
267 CANR	21	1357	1359D	1359	S17	E10	.241	11209	22.3	2D	-F	1	V	1359		.40			7
269 ATHN	21	1457E	1457D	1457	N20	W85	.999	11192	15.2		-N	1		1457	.17	.32	.99		5
270 RAMY	21	1654E	1705	1656	S09	E35	.569	11211	24.3	11D	-F	1	C		.21				D 4
272 LOCK	21	1926	1937	1930	S04	W76	.969	11207	16.1	11	-F		C						4
276 ABST	22	0815	0816D	0816	S16	W02	.160	11209	22.2	1D	-F		P	0816	1.71	1.70		46	E 6
279 ATHN	23	0912	0918	0913	S14	W16	.296	11209	22.2	6	-F	1		0913	.17	.32	.32		8
280 ATHN	23	1025E	1033	1025	S13	E76	.965	11219	29.1	8D	-F	1		1025	.17	.32	.97		8
281 CATA	23	1040	1045	1040	S12	E75	.961	11219	29.1	5	-N		C	1040	.14			180	8
282 ATHN	23	1102E	1115	1104	S13	E76	.965	11219	29.2	13D	-F	1		1104	.17	.32	.97		5

SOLAR FLARES
Unconfirmed

MARCH 1971

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 MAR	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
283 ATHN	23	1120	1149	1124	S14	E76	.965	11219	29.2	29	-F	1		1124	.17	.32	.97		7
284 HTPR	23	1215	1315		S13	E75	.961	11219	29.1	60	-F		C	1240	.72				T 4
GRP37285	23	1523	1535	1525	S13	E72	.945	11219	29.0	12	-N				.28				2 2 2 9
ATHN	23	1520E	1540	1524	S12	E72	.946	11219	29.0	20D	-N	1		1524	.33	.65	.95		
CATA	23	1525	1530	1525	S13	E72	.945	11219	29.0	5	-N		C	1525	.23			178	
286 HTPR	23	1601E	1640	1609	S17	W19	.360	11209	22.2	39D	-F		C	1609	1.03	1.10			7
289 ATHN	24	0758	0815	0800	S13	E62	.877	11219	29.0	17	-F	1		0800	.17	.32	.87		11
290 ATHN	24	0854	0912	0857	S13	E64	.892	11219	29.2	18	-F	1		0857	.17	.32	.88		13
291 ATHN	24	0940E	0942	0942	S15	W31	.522	11209	22.1	2D	-N	1		0942	.17	.32	.52		11
292 CANR	24	0944	0950	0945	S15	W30	.508	11209	22.2	6	-F	3	V	0945		.20			11
297 KODA	25	0446	0501	0451	S15	E85	.993	11221	31.6	15	-B		V	0446	2.00	2.00	2.76		CD 5
302 TEHR	25	1204	1212	1206	S13	E47	.727	11219	29.0	8	-F	2	C		.13				D 9
GRP37303	25	1225	1345	1228	S18	E80	.980	11221	31.5	80	-F				.31				2 1 1 11
HTPR	25	1225	1345	1228	S18	E80	.980	11221	31.5	80	-F		C	1228	.31				
RAMY	25	1252	1309	1256	S18	E78	.972	11221	31.4	17	-N	3	C		.41				D
305 MANI	25	2306	2311	2308	S11	E44	.690	11219	29.3	5	-N	2		2308	.83	1.13			5
307 CANR	26	1112E	1125	1113	S21	E65	.901	11221	31.3	13D	-N	2	C	1113	.22				5
309 CATA	27	0615E	0640D	0615	N01	W90	1.000	11203	20.5	25D	1F		P	0615	.58			127	T 3
310 CATA	27	0741E	0755D	0741	N03	W90	1.000	11204	20.6	14D	-F		P	0741	.40			141	T 9
311 CATA	27	0918E	0925D	0918	N03	W90	1.000	11204	20.6	7D	-F		P	0918	.34			118	T 7
312 CANR	27	1010	1025	1015	S17	E56	.825	11221	31.6	15	-F	3	V	1015		.70			7
313 CANR	27	1058	1110		S19	E52	.787	11221	31.4	12	-F	3	V			.40			7
314 CATA	27	1120E	1145D	1120	N03	W90	1.000	11204	20.7	25D	-F		P	1120	.46			123	T 6
315 HTPR	27	1152	1207	1155	N12	E53	.829	11224	31.5	15	-F		C	1155	.31	.50			E 6
316 CATA	27	1330E	1345D	1330	N03	W90	1.000	11204	20.8	15D	-F		P	1330	.46			141	T 7
317 HTPR	27	1410	1425	1416	N13	E50	.804	11224	31.3	15	-F		C	1416	.31	.50			7
318 ATHN	27	1413	1431	1415	S18	E46	.721	11221	31.0	18	-F	1		1415	.33	.65	.71		7
320 HTPR	27	1611	1625	1618	N12	E49	.790	11224	31.3	14	-F		C	1618	.31	.50			4
321 BOUL	27	1637	1642	1639	N26	E41	.783	11223	30.8	5	-N	2	V						6
322 LOCK	27	1718	1730	1722	N03	W81	.989	11214	21.6	12	-F		C						6
324 RAMY	27	1847	1908	1855	N17	E88	1.000	11225	3.4	21	-F	1	C						D 4
328 LOCK	27	2323	2350	2330	S16	E49	.752	11221	31.6	27	-F		C						4
329 PALE	28	0021	0029	0023	S16	E48	.741	11221	31.6	8	-N	2	C		.45				4
333 MANI	28	0254	0303	0256	S18	E47	.733	11221	31.6	9	-N	2		0255	.26	.30			3
334 CATA	28	1050	1115D	1055	N24	W90	1.001	11214	21.7	25D	-F		P	1055	.46			145	6
335 HTPR	28	1141	1144	1142	S20	E39	.644	11221	31.4	3	-F		C	1142	.41	.50			E 5
338 CRON	29	0636E	0641		S19	E36	.603	11221	1.0	5D	-F	3	V		.70				8
GRP37339	29	0711	0731	0715	S15	W07	.187	11219	28.8	20	-N				.32				2 2 2 8
CRON	29	0711	0723	0713	S14	W07	.174	11219	28.8	12	-N	2	C	0713	.22	.22			
MANI	29	0714E	0739D	0717	S16	W06	.191	11219	28.9	25D	-N	2		0717	.41	.44			
340 CRON	29	0825	0835	0827	S20	E29	.517	11221	31.5	10	-F	2	C	0827	.22	.25			9
GRP37341	29	0901	0916	0904	S20	E23	.438	11221	31.1	15	-F				.42				2 2 2 10
MANI	29	0900E	0911	0903	S19	E19	.378	11221	30.8	11D	-N	1		0903	.52	.59			
HTPR	29	0901	0920	0905	S20	E26	.477	11221	31.3	19	-F		C	0905	.31	.30			

SOLAR FLARES
Unconfirmed
MARCH 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971 MAR	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
343 CRON	29	0952	1011D	0957	S20	E29	.517	11221	31.6	19D	-N	1	C	0957	.22	.25			9
346 CANR	29	1232	1232D		N18	E57	.878	11225	2.8		-F	1	V			.60			5
351 LOCK	29	1723	1732	1727	S15	W08	.198	11219	29.1	9	-F		C						4
352 LOCK	29	1922	1940	1927	S20	E20	.399	11221	31.3	18	-F		C						4
354 PALE	29	2058	2107	2101	S17	E20	.376	11221	31.4	9	-F	2	C		.81				F 4
357 PALE	29	2222	2232	2225	N13	E49	.793	11225	2.6	10	-F	2	C		.36				F 5
360 LOCK	30	0030	0050	0035	S19	E22	.418	11221	31.7	20	-F		C						S 4
363 TEHR	30	0420	0424	0423	S19	E14	.315	11221	31.2	4	-F	4	C		.09				D 6
364 MANI	30	0427E	0442	0428	S20	E17	.362	11221	31.5	15D	-N	1		0428	.41	.44			6
365 ABST	30	0548E	0600	0552	S17	W15	.308	11219	29.1	12D	-F		P	0552	1.08	1.10		44	EJ 9
GRP37368	30	0752	0812	0805	S20	E12	.304	11221	31.2	20	-F				.27				2 2 2 10
ATHN	30	0750E	0808D	0804	S19	E12	.292	11221	31.2	18D	-F	1		0804	.33	.65	.26		
MANI	30	0753	0812D	0806	S21	E12	.317	11221	31.2	19D	-F	2		0806	.21	.22			
369 ATHN	30	0804E	0808D	0804	N13	E42	.721	11225	2.5	4D	-F	1		0804	.17	.33	.72		8
GRP37372	30	0938	0944	0941	S20	E11	.294	11221	31.2	6	-F				.43				2 2 2 11
ABST	30	0936	0945D	0940	S20	E12	.304	11221	31.3	9D	-F		P	0941	.54	.60		48	DJ
HTPR	30	0940	0943	0941	S20	E10	.284	11221	31.2	3	-N		C	0941	.31	.30			D
GRP37373	30	1000	1021	1004	S16	W16	.313	11219	29.2	21	-F				.88				2 2 2 10
HTPR	30	0958	1024	1003	S15	W16	.305	11219	29.2	26	-F		C	1003	1.03	1.10			E
MONT	30	1001	1018	1005	S16	W16	.313	11219	29.2	17	-N		C	1005	.72				
GRP37378	30	1555	1610	1600	S19	E09	.261	11221	31.3	15	-F				.41				2 2 1 8
LOCK	30	1553	1610	1600	S19	E07	.244	11221	31.2	17	-F		C						
RAMY	30	1556	1609	1559	S20	E08	.266	11221	31.3	13	-N	3	C		.41				D
LOCK	30	1606	1615	1610	S16	E12	.259	11221	31.6	9	-F		C						
379 RAMY	30	1628	1638	1630	N13	E38	.676	11225	2.5	10	-F	1	C		.31				D 8
380 RAMY	30	1635	1650	1637	S19	E06	.236	11221	31.1	15	-F	1	C		.36				D 5
383 MANI	31	0135	0140	0137	S20	E02	.234	11221	31.2	5	-N	2		0137	.93	.96			3
GRP37384	31	0824	0831	0825	S20	W02	.234	11221	31.2	7	-F				.20				2 2 2 16
ATHN	31	0822E	0831D	0824	S19	W02	.217	11221	31.2	9D	-F	1		0824	.17	.32	.22		
CATA	31	0825	0830	0825	S20	W01	.232	11221	31.3	5	-N		C	0825	.23	.24		166	
387 BOUL	31	1352	1405	1353	S19	E00	.215	11221	31.6	13	-F	2	V						9
388 BOUL	31	1407	1415	1410	S18	W01	.198	11221	31.5	8	-N	2	V						8
390 CAPF	31	1535E	1620D		N16	E88	1.000	11228	7.2	45D	1N		P	1539	.62				A 10
1 STATIONS REPORTING GROUP 37391. 4 STATIONS OBSERVING AND NOT REPORTING.																			
391 MCMA	31	1616	1826	1632	N18	E20	.523	11225	2.2	130	-F		C	1632	.52	.60			EK 5
391 MCMA	31	1616	1826	1654	N18	E20	.523	11225	2.2	130	*-F								5
393 PALE	31	1804	1823	1806	N10	E56	.850	11227	5.0	19	-F	3	C		.36				F 6
397 PALE	31	2247	2259	2248	S20	W10	.285	11221	31.2	12	-N	3	C		.55				F 4

"Remarks":

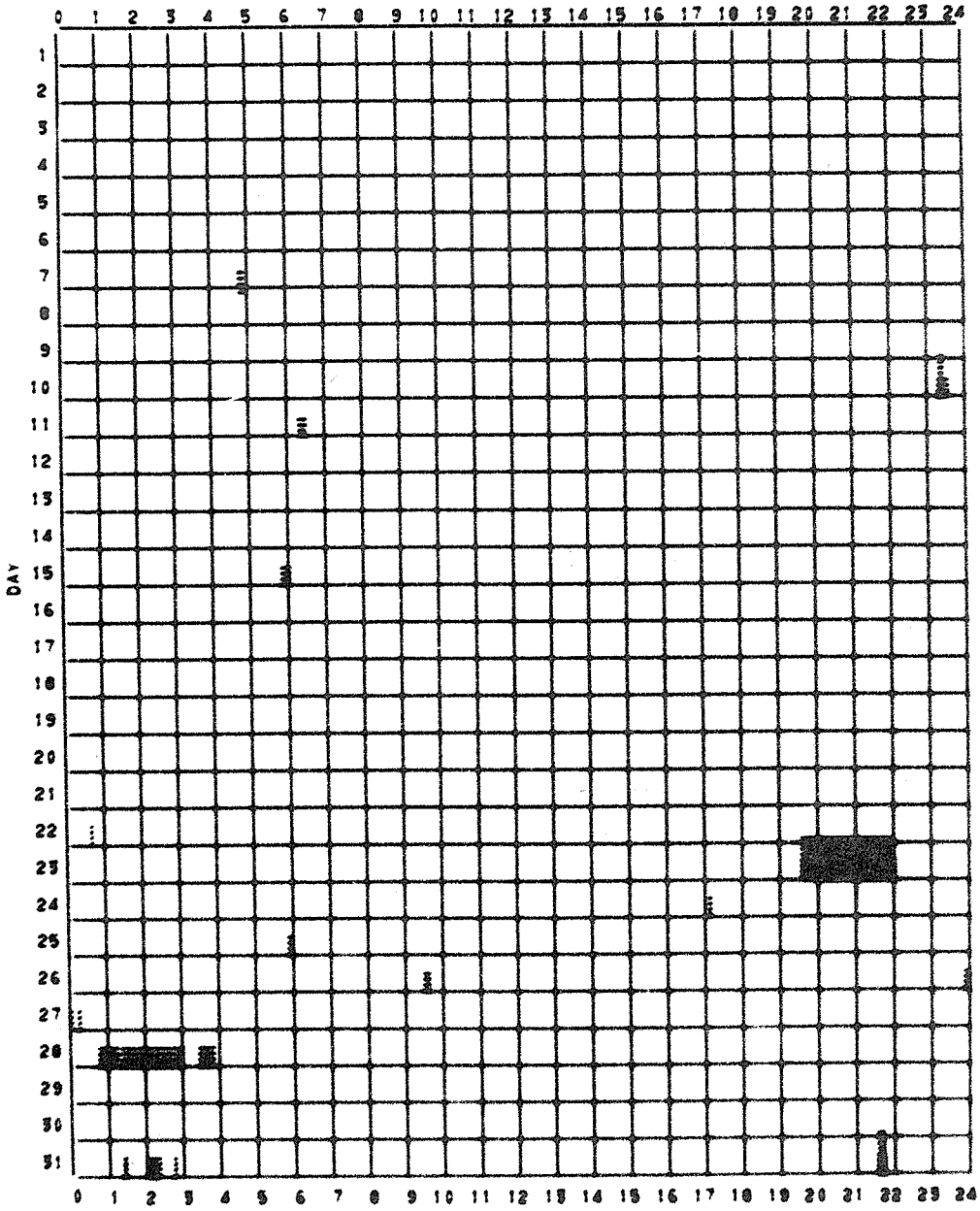
A = Eruptive prominence, base at >90°
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No spots visible in the neighborhood.
H = Flare with high velocity dark surge.
I = Very extensive active region.
J = Plage with flare shows marked intensity variations.
K = Several intensity maxima.
L = Filaments show effects of sudden activation.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H or K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line.
S = Brightening follows disappearance of filament (same position).
T = Region active all day.
U = Close and somewhat parallel bright filaments (|| or Y shape).
V = Occurrence of an explosive phase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα emission.
Y = Onset of a system of loop-type prominences.
Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

MARCH 1971

HOUR–UT



Observatories included in total patrol:

Abastumani	Capri-S (Sweden)	Herstmonceux	Lockheed	Palehua
Arcetri	Carnarvon	Huancayo	Lvov	Ramey
Athens	Catania	Hurbanovo	Manila	Siberie
Boulder	Crimee	Istanboul	McMath-Hulbert	Tachkent
Bucharest	Culgoora	Kiev	Meudon	Tehran
Capetown	Gran Canaria	Kodaikanal	Mitaka	Voroshilov
Capri-F (German)	Haute Provence	Locarno	Monte Mario	Wendelstein
			Ondrejov	Zürich

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

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1971

MAR 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
1	200 HIRA	45	0453.5	0453.8	1	80.0	20.0		
	100 HIRA	45	0453.5	0454	2.5	140.0	50.0		
	200 HIRA	45	0454.8	0455	.5	140.0	30.0		
	206 IZMI	6	0903.8	0904	.5	70.0	40.0		
	113 POTS	45	0903.9	0904	.4	8500.0	2000.0		
	206 IZMI	41	1046.6	1048.2	2.4	15.0			
	113 POTS	45	1047.6	1048.4	1.5	350.0	25.0		
	9400 HUAN	5	1330.1	1331.9	20.5	3.8	1.0		
	9400 HUAN	5	1422.5	1423.5	24.5	3.8	1.6		
	9400 HUAN	5	1457.2	1501.7	15.8	3.8	2.1		
	9400 HUAN	5	1521.2	1521.5	1.8	4.8	1.9		
	9400 HUAN	5	1549.2	1554.5	31.4	2.9	1.4		
	9400 HUAN	5	1741.5	1744.1	26.9	3.8	1.3		
	9400 HUAN	5	2045.8	2058	20	10.5	3.8		
	2695 BOUL	41	2224.5	2226.5	3.5			2	
2	100 HIRA	6	0115	0115.8	1	70.0	10.0		
	100 HIRA	6	0315	0315.3	.5	150.0	80.0		
	100 HIRA	6	0323	0323	.6	100.0	40.0		
	100 HIRA	6	0335.3	0335.5	1	30.0	10.0		
	100 HIRA	6	0337.5	0337.8	1	60.0	30.0		
	100 HIRA	6	0545.6	0545.6	.5	110.0	50.0		
	100 GORK	6	0545.9	0546	.6	30.0			
	2695 BOUL	41	1957	1957.5	6			1	
	2695 PENT	24	2230		20	2.2			
3	200 HIRA	6	0354.8	0354.9	1	280.0	20.0		
	100 HIRA	6	0354.6	0355	1	200.0	150.0		
	100 HIRA	6	0431.3	0431.3	1	180.0	110.0		
	260 ONDR	41	0700	1341	480	70.0			
	100 HIRA	6	0727	0727.3	1	20.0	10.0		
	100 GORK	6	0727	0727.2	.9	40.0			
	221 ABST	41	0957	0959	2	50.0	19.0		
	9400 HUAN	5	1409.2	1420.5	75.3	3.8	1.0		
	18 MCMA	6	1732	1735	3			1	
	18 BOUL	6	1735	1737	10 U			1	
	9400 HUAN	5	1954	2036.2	30.7	11.5	5.8		
	18 BOUL	6	2031	2035	5			1	
	2695 PENT	20	2145	2255	140	3.2	1.6		
4	200 HIRA	6	0302.5	0302.8	1	30.0	10.0		
	100 HIRA	6	0302.3	0303	1	25.0	10.0		
	200 HIRA	6	0304.5	0304.7	1	120.0	30.0		
	100 HIRA	6	0304.3	0304.8	.6	90.0	40.0		
	100 GORK	41	0548.6	0549.9	7.7	25.0			
	100 GORK		0548.6	0552.3		200.0			
	100 GORK		0548.6	0555.8		25.0			
	930 BORD	24	1015	1027		15.0			
	930 BORD	5	1245	1249	20	6.0	3.0		
	930 BORD	5	1324	1327.5	10	11.0	5.0		
	930 BORD	45	1442	1453	19	19.0	4.0		
	9400 HUAN	5	1504 E	1512	82.3U	7.4	2.8		
	2800 OTTA	20	1505	1508	35	2.4	1.6		
	606 SGMR	1	1510.2	1511.2	3.9	1.8	.6		
	245 SGMR	6	1510.2	1512.2	10.1	35.0	14.0		
	240 KIEL	6	1510	1513	8	40.0	15.0		
	2800 OTTA	20	1540	1610	230	2.4	1.8		
	18 MCMA	6	1702	1704	5			1	
	18 MCMA	6	1730	1732	4			1	
	9400 HUAN	5	2018.6E	2049.6	75.2U	4.7	1.9		
5	100 GORK	41	0910.1	0911.3	6.1	25.0			
	100 GORK		0910.1	0913.7		15.0			
	9400 HUAN	5	1258	1338.2	99.2	7.6	6.7		
	9400 HUAN	5	1533.9	1546.9	32.8	7.6	2.5		
	9400 HUAN	5	1905.6	1928	33.3	9.5	2.7		
6	500 HIRA	6	0233.4	0233.4	.2	30.0	15.0		
	200 HIRA	6	0233	0234	1.5	230.0	40.0		
	100 HIRA	6	0233.7	0234	.5	25.0	10.0		
	100 GORK	44	0518 E		152		5.0		
	100 GORK	6	0655.4	0656.3	1.3	10.0			
	100 GORK	6	0714.9	0715.3	1.2	15.0			
	100 GORK	44	0907		167 D		5.0		
7	100 HIRA	6	0018	0019	1.5	55.0	30.0		
	200 GORK	44	0514		226		5.0		
	100 GORK	44	0521		200		5.0		
	225 HARS	45	0827	0827.5	1.5	20.0	15.0		
	240 KIEL	48	1050	1112	50	70.0	5.0		
	408 TRST	42	1102.2	1102.7	5.3	60.0			
	930 BORD	41	1107	1107.3	1	19.0	2.0		
	408 TRST	42	1113.7	1118.3	18	10.0			
	650 GORK	1	1114.7	1116.7	3.3	2.8	1.2		
	200 GORK	6	1114.3	1114.6	1.4	70.0	35.0		
	100 GORK	41	1114.4		23	30.0			
	100 GORK		1114.4	1128.6		4000.0			
	100 GORK		1114.4	1134.7		30.0			
	606 SGMR	4	2038.5	2039.3	3.5	16.2	7.3		
8	500 HIRA	6	0131	0131.2	.5	45.0	20.0		

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MAR 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	208 VORO	5	0132.8	0133.2	12	208.0	40.0		
	500 HIRA	6	0133	0134.5	1.5	40.0	10.0		
	200 HIRA	6	0133	0133	1	210.0	70.0		
	9400 HUAN	5	1430.8	1534.2	149.6	14.9	5.5		
	18 MCMA	6	1513	1516	4			1	
	18 MCMA	41	1542	1546	6			1	
	9400 HUAN	5	1548.3	1558.6	18	9.3	2.1		
	18 MCMA	6	1639	1642	6			1	
	9400 HUAN	5	1717.9	1834.7	143	14.9	7.7		
	18 MCMA	42	1944	1958	22			1	
	2800 OTTA	32	2040	2115	85	-4.4	-2.2		
9	100 HIRA	45	0542.7	0543	1	150.0	100.0		
	100 HIRA	45	0548	0548.2	1	300.0	120.0		
	237 TRST	45	1321	1321.4	.7	100.0	40.0		
	2695 BOUL	41	1712	1714.5	3			2	
	2800 OTTA	1	1742	1742.5	1	1.8	0.9		
	2700 PENN	3	1742	1742.7	2	22.9	2.3		
	18 BOUL	6	1742	1744	3			2	
	18 MCMA	6	1742	1744	3			2	
	9400 HUAN	5	1934.1	2033.3	79.4	11.3	1.9		
	100 HIRA	6	2131	2131.6	1	75.0	30.0		
10	100 HIRA	45	0238.3	0238.8	1	1000.0D	600.0D		
	225 HARS	5	0741.5	0742	1.5	30.0	10.0		
	100 GORK	41	0917	0917.1	5.1	45.0			
	1490 BERL	1	0918.8E	0918.8		5.5			
	200 GORK	41	0918.6	0918.8	3.3	230.0			
	7000 SAOP	20	1718.9		12.1	12.6			
	18 BOUL	41	1749	1751	5			1	
	18 MCMA	41	1750	1753	4			1	
	2695 BOUL	40	2007	2020.1	14.5			1	
	18 MCMA	6	2110	2113	4			1	
11	9400 HUAN	5	1352.4	1409.1	29.8	9.1	1.8		
	930 BORD	41	1518	1518.7	7	25.0	2.0		
	2695 BOUL	40	2259	2259.5	10.5			1	
12	113 POTS	45	0657.5	0657.6	1.1	400.0	25.0		
	100 HIRA	45	0657	0657.6	2	350.0	140.0		
	100 GORK	6	0657.5	0658.3	1.7	4000.0			
	237 TRST	45	0700.5	0700.8	.7	480.0	150.0		
	221 ABST	41	0700	0701	2	60.0	26.0		
	206 IZMI	6	0700	0700.9	2	190.0	110.0		
	234 POTS	45	0701.9	0701.9	.1	200.0	40.0		
	200 HIRA	6	0701 E	0701	2	80.0D	10.0D		
	100 GORK	6	0712	0712.4U	.8	30.0			
	100 HIRA	6	0751	0753	4.5	100.0	10.0		
	100 GORK	41	0751.1	0753.9	4.4	600.0			
	221 ABST	41	0753	0753.3	1	48.0	19.0		
	206 IZMI	6	0753.4	0753.7	.6	110.0	53.0		
	200 HIRA	6	0753	0753.8	1.5	75.0	25.0		
	200 GORK	41	0753.4	0753.9	.6	20.0			
	113 POTS	45	0753.5	0754	.5	100.0	15.0		
	23 POTS	45	0753.6	0753.7	1.4	2000.0	300.0		
	100 GORK	41	0853.4	0854.2U	7.6	50.0			
	100 GORK		0853.4	0857.5U		50.0			
	100 GORK		0853.4	0859.8		50.0			
	206 IZMI	41	0854	0857.5	3.8	140.0			
	237 TRST	42	0857	0857.7	2	90.0			
	200 GORK	41	0857.2	0857.7	.6	20.0			
	100 GORK	41	1005.9	1006.6	2.8	20.0			
	100 GORK	6	1036.9	1037	.4	30.0			
	100 GORK	44	1100		120 D		5.0		
	100 GORK	41	1101.9	1102.4	2.5	60.0			
	100 GORK	41	1112.4	1112.6	9	50.0			
	100 GORK		1112.4	1115.1		50.0			
	100 GORK		1112.4	1118.7		50.0			
	100 GORK		1112.4	1121		50.0			
	100 GORK	41	1143.6	1143.9	7.2	50.0			
	100 GORK		1143.6	1148.5		50.0			
	100 GORK		1143.6	1150.3		50.0			
	23 POTS	5	1148.5	1148.6	.4	7000.0	2500.0		
	100 GORK	41	1248	1248.9U	9.6	50.0			
	100 GORK		1248	1254.4		50.0			
	18 MCMA	41	1516	1518	4			1	
	18 MCMA	41	1534	1538	6			1	
	18 MCMA	41	1617	1619	4			1	
	18 MCMA	42	1927	1932	7			1	
	9400 HUAN	5	2016.9	2029.5	16.1	7.5	3.4		
	2695 BOUL	4	2142.5	2143	1			1	
13	950 GORK	20	0636	0639.8	15	5.4	2.3		
	650 GORK	22	0636		36	5.2	1.8		
	245 SGMR	6	1323	1323.3	2.4	86.2	18.0		
	237 TRST	41	1323	1323.3	1.4	450.0			
	234 POTS	45	1323	1323.1	.4	220.0	20.0		
	225 HARS	45	1323	1323.5	2	85.0	25.0		
	113 POTS	45	1323	1323.1	2	350.0	30.0		
	23 POTS	5	1323.1	1323.2	1.6	32000.0	1000.0		

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	184 BOUL	44	1327 E		669 D			2	
	2695 BOUL	3	1351.5	1354.5	12			1	
	237 TRST	41	1529.1	1529	2.1	75.0			
	245 SGMR	6	1529.1	1529.9	2.4	43.2	9.0		
	18 MCMA	6	1529	1532	4			2	
	184 BOUL	6	1530	1531	3			3	
	18 MCMA	42	1610	1613	5			1	
	245 SGMR	6	1921.9	1922.4	13.2	95.0	10.0		
	184 BOUL	6	1922	1923	3			3	
	18 BOUL	6	1922	1924	3			2	
	18 MCMA	6	1922	1924	3			1	
	18 MCMA	42	2104	2108	17			1	
	18 MCMA	42	2245	2252	18			1	
	200 HIRA	6	2307	2307.5	1.5	40.0	20.0		
	2695 PENT	21	2320	2400	90 D	9.8			
	3750 TYKW	45	2344	2353.3	20	28.0	7.0		
	1000 TYKW	45	2344	2353.7	22	38.0	7.0		
	208 VORO	27	2344	2353.5	13	124.0	64.0		
	200 HIRA	45	2344	2353	23	100.0	15.0		
	2695 PENT	4	2347	2353.5	13	35.0	11.0		
	2695 CRON	3	2347.5	2353.5	10.5			1	
	2000 TYKW	45	2347	2353.7	11	38.0	12.0		
	1420 CRON	3	2348.5	2355	10.5			1	
	9400 TYKW	5	2350	2354	80	4.0	2.0		
	4995 MANI	3	2350.2	2353.4	4.3	15.1	6.0		
	2695 MANI	3	2350.2	2353.8	4.2	19.0	9.5		
	1420 BOUL	3	2350	2354.5	10			1	
	1415 MANI	3	2350.7	2353.4	5.6	35.2	15.4		
	606 MANI	1	2350.8	2353.8	3.9	3.9	2.0		
	2000 TYKW	29	2358		40	3.0	1.0		
14	3750 TYKW	29	0004		70	7.0	3.0		
	9400 ONDR	5	1138.5	1138.5	.5				
	9400 ONDR	45	1149.5	1150.5	3				
	184 BOUL	44	1305 E		234 D			2	
15	2950 GORK	3	0739	0741.4	4.2	28.0	9.0		
	950 GORK	1	0739.2	0741	4.2	4.3	2.5		
	3750 TYKW	5	0740	0741.4	4	10.0	3.0		
	2000 TYKW	5	0740	0741.4	3	6.0	2.0		
	1490 BERL	4	0740	0741.5	3	5.9	1.8		
	650 GORK	1	0740	0741.7	2.9	1.5			
	100 GORK		1201.6E	1201.8U	.4D	70.0			
	184 BOUL	44	1313 E		217 D			2	
	18 BOUL	6	1804	1808	5			1	
	9400 HUAN	32	1809.3	1822.8	44.4	7.4	3.5		
	18 BOUL	41	1839	1843	9			1	
	9400 HUAN	5	1918.7	1939.3	34.5	5.6	1.9		
	18 MCMA	6	1927	1928	3			1	
	9400 HUAN	5	2026.2	2037.9	28.1	5.6	3.4		
	2695 PENT	20	2120	2230	220	6.0			
	184 BOUL	41	2229	2234	22			3	
	200 HIRA	6	2231.5	2232.2	1.5	150.0	40.0		
	100 HIRA	45	2231	2232.7	2	110.0	40.0		
	200 HIRA	6	2234.2	2235	4.5	40.0	5.0		
	100 HIRA	6	2234.7	2235	1	65.0	20.0		
16	100 HIRA	6	0425.7	0426.6	1.5	25.0	10.0		
	200 HIRA	6	0427.5	0428.2	1	30.0	5.0		
	100 GORK	41	0707.1	0708	1.5	40.0	15.0		
	100 HIRA	6	0810.5	0812	3	85.0	40.0		
	100 GORK	41	0811.8	0813.4	6	40.0			
	100 GORK		0811.8	0816.6		40.0			
	200 GORK	41	0812	0813.5	1.6	30.0			
	113 POTS	45	0812.8	0813.5	.9	150.0	12.0		
	200 GORK	41	1225.7	1225.8	.8	10.0			
	100 GORK	41	1225	1225.8	1.4	45.0			
	9400 HUAN	5	1518.7	1541.2	39.5	7.3	1.6		
	2800 OTTA	20	1800	1845	160	3.0	1.4		
	2700 PENN	20	2018.7	2023	11.8	3.5	0.8		
17	200 GORK	6	0525.9	0526.2	1	95.0	20.0		
	200 HIRA	6	0526	0526.4	1	90.0	40.0		
	100 GORK	6	0526	0526.3	.7	15.0			
	200 HIRA	6	0542.5	0542.8	.5	80.0	20.0		
	100 GORK	41	0542.5	0542.8	.6	20.0			
	200 GORK	6	0545.2	0542.8	.4	70.0	20.0		
	100 HIRA	45	0639	0644.3	7	650.0	80.0		
	113 POTS	45	0640.2	0644.5	8.5	1300.0	65.0		
	100 GORK	48	0640.7	0643.5	10.2	500.0			
	100 GORK		0640.7	0646.7		5000.0			
	200 HIRA	45	0642	0646.2	8	200.0	10.0		
	200 GORK	41	0642.3	0644.3	7.4	15.0			
	200 GORK		0642.3	0646.6		120.0			
	23 POTS	45	0644.3	0644.5	3.7	10000.0	2000.0		
	225 HARS	5	0903		2	100.0D			
	100 GORK	6	0923.2		1.4	60.0			
	1490 BERL	1	1057.5E	1057.5		3.2			
	100 GORK	6	1204.4	1204.7	.5	50.0			
	18 MCMA	6	1719	1722	4			2	

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	18 BOUL	6	1720	1722	3			1	
	9400 HUAN	5	2117.5	2127.2	16.3	5.7	1.3		
18	1000 TYKW	5	0343	0343.4	1	9.0	3.0		
	237 TRST	42	0809.2	0813.2	8	100.0			
	184 BOUL	44	1312 E		692 D			3	
	9400 HUAN	5	1326.8	1343.4	41.7	7.6	2.6		
	1490 BERL	4	1428.3	1428.5	1.7	6.1	1.7		
	930 BORD	5	1608	1608.6	1	10.0	1.0		
	184 BOUL	41	1614	1622	15			3	
	18 BOUL	6	1618	1621	6			1	
	18 MCMA	6	1618	1621	5			3	
	18 MCMA	41	1657	1659	7			1	
	184 BOUL	41	1805	1810	9			3	
	9400 HUAN	5	2024.7	2035.6	16.1	7.6	2.7		
	9400 HUAN	5	2115.8	2124.5	19.7	9.5	4.3		
	100 HIRA	6	2241	2241.6	1	35.0	20.0		
	100 HIRA	6	2246	2247	2	90.0D	60.0D		
	100 HIRA	6	2250	2251	2	65.0	20.0		
	100 HIRA	6	2319	2319.7	1.6	70.0	30.0		
	100 HIRA	6	2335	2337.7	3	50.0	15.0		
19	100 HIRA	6	0009.5	0010.5	3	50.0	15.0		
	9400 TYKW	5	0055.5	0055.9	1	5.0	1.0		
	3750 TYKW	5	0055.5	0055.9	1	5.0	1.0		
	2695 PENT	1	0055.5	0056	1	3.0	1.5		
	100 HIRA	6	0329.6	0329.6	2	45.0	10.0		
	100 HIRA	6	0443.3	0443.7	1	90.0D	50.0D		
	100 GORK	6	0531.1	0531.4	.7	40.0	20.0		
	100 GORK	41	0601.1	0601.3	3.9	60.0			
	650 GORK	40	0603.2	0604.3	1.3	8.0			
	100 GORK	6	0713.5	0714.1	1.1	70.0			
	100 GORK	6	0807.1	0807.4	.7	70.0	30.0		
	206 IZMI	6	1019	1019.2	.5	70.0	30.0		
	200 GORK	6	1019.5	1019.6	.3	80.0			
	113 POTS	5	1019.3	1019.4	.4	1300.0	400.0		
	100 GORK	6	1019.5		.7	80.0			
	100 GORK	6	1041.8	1042	.7	80.0			
	100 GORK	41	1102.7	1102.9	5.7	90.0			
	100 GORK		1102.7	1106.1		90.0			
	100 GORK		1102.7	1108.2		40.0			
	9400 HUAN	5	1304.3	1309.2	14	9.5	3.8		
	9400 HUAN	5	1403.5	1406.8	7.6	11.4	4.4		
	18 MCMA	6	1453	1458	5			2	
	9400 HUAN	5	1956.2	2019	39.5	7.6	2.0		
	2695 BOUL	41	2013.5	2015.5	2.5			1	
	2695 BOUL	41	2042	2042.5	2.5			1	
	2695 PENT	24	2225		15	2.2			
20	2950 GORK	20	0623.7	0626	10.4	2.7			
	200 HIRA	6	0624.8	0624.8	1.2	50.0	10.0		
	200 GORK	6	0624.6	0624.7	1.5	55.0			
	100 HIRA	6	0624.3	0625.3	1.6	90.0D	70.0D		
	100 GORK	6	0624		2.4	40.0			
	23 POTS	45	0624.8	0623	2.2	20000.0	4000.0		
	950 GORK	3	0625.2	0625.4	.4	9.2	4.6		
	650 GORK	4	0625	0625.4	2	19.0			
	606 MANI	4	0625	0625.4	.7	13.3	6.7		
	100 GORK	41	0631.2	0631.9	.8	20.0			
	100 HIRA	6	0714	0714.5	4.3	90.0D	30.0D		
	100 HIRA	6	0744.3	0744.6	4.5	45.0	10.0		
	100 GORK	41	0744.3	0746.1	4	70.0			
	100 GORK		0744.3	0747.8		200.0			
	221 ABST	41	0746.1	0747	2	53.0	19.0		
	237 TRST	41	0747.1	0747.5	1.8	120.0			
	200 HIRA	6	0747	0747	1	80.0	30.0		
	23 POTS	45	0747.4	0747.6	.6U	8000.0	300.0		
	100 GORK	6	0759.2	0759.5	.6	80.0	40.0		
	23 POTS	5	0759.4	0759.5	.4	5000.0	1500.0		
	100 GORK	41	0806.6	0806.8	3.2	60.0			
	100 GORK		0806.6	0809		10.0			
	950 GORK	21	0815.8		70	3.7	2.5		
	221 ABST	42	0816.3	0817.1	1	21.0	10.0		
	650 GORK	42	0817.1	0817.6	.9	5.4			
	200 GORK	6	0817.4	0817.8	.9	35.0			
	100 HIRA	6	0817.3	0818	1	45.0	20.0		
	100 GORK	6	0817.1	0817.9	1.1	80.0	20.0		
	23 POTS	45	0817.3	0817.5	2.1	7000.0	1700.0		
	221 ABST	41	0844	0844.3	1	20.0	10.0		
	206 IZMI	41	0905.5	0905.6	3.8	20.0			
	100 GORK	48	0906.3	0907.5	1.6	1500.0			
	950 GORK	3	0907.8	0907.9	.2	24.0	12.0		
	930 BORD	5	0907	0907.8	1	34.0	2.0		
	650 GORK	4	0907.4	0907.9	.8	19.0			
	200 GORK	6	0907.7	0907.8	.2	20.0			
	113 POTS	45	0907	0907.4	1.1	140.0	25.0		
	23 POTS	45	0907.1	0907.5	2.7	10000.0	2500.0		
	23 POTS	41	0945.9	0946	1	12000.0	1200.0		
	100 GORK	41	1009.2	1011	3.6	40.0			

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	23	POTS	45	1009.4	1009.5	.4	700.0	100.0		
	9400	HUAN	5	1311.8	1322.2	14.7	7.4	2.1		
	184	BOUL	44	1322 E		686 D			1	
	113	POTS	41	1425	1425.8	1.1	175.0	20.0		
	2800	OTTA	20	1615	1625	50	2.4	1.2		
	2800	OTTA	24	1725		25	2.0			
	10700	PENN	1	1811.2	1811.4	1	6.3	1.4		
	960	PENN	8	1811.3	1811.4	.2	2.7			
	9400	HUAN	5	1956.9	1958.6	5.3	5.6	0.7		
	2800	OTTA	1	2014	2015	3	2.2	1.0		
	2700	PENN	1	2014.8	2015.3	1.7	4.1	1.0		
	960	PENN	1	2014.7	2015.3	1.6	.5	0.2		
	18	MCMA	6	2015	2016	2			2	
	18	BOUL	6	2017	2020	4			2	
21	3750	TYKW	5	0335	0336	3	2.0	1.0		
	1415	MANI	2	0335	0336.2	1.3	32.8	16.4		
	1000	TYKW	5	0335	0336	2	3.0	1.0		
	606	MANI	4	0335.5	0336.2	.8	22.8	7.6		
	200	HIRA	6	0335	0335.5	1.5	90.0	30.0		
	100	HIRA	6	0335	0335.5	1.7	90.0D	35.0D		
	100	HIRA	6	0631	0631.3	1	90.0D	30.0D		
	200	GORK	41	0632.3	0633.1	1	20.0			
	100	GORK	41	0632	0632.4	1.8	50.0			
	100	GORK		0632	0633.2		25.0			
	200	GORK	41	0642.6	0642.8	7.2	10.0			
	200	GORK		0642.6	0645.4		20.0			
	200	GORK		0642.6	0648.7		20.0			
	100	GORK	6	0642.6	0643	1	25.0			
	2950	GORK	1	0653.8	0654.2	4.5	4.0	1.5		
	23	POTS	45	0654	0654.5	2	45000.0	1000.0		
	240	KIEL	44	0714 E	0714		40.0	5.0		
	100	GORK	41	0722.8	0723.1	1.8	45.0			
	100	GORK		0722.8	0724.4		10.0			
	200	GORK	41	0736.5	0737.2	2.9	20.0			
	1490	BERL	1	0753.8E	0753.8		3.1			
	950	GORK	1	0753.5	0754.1	.9	1.6	0.8		
	650	GORK	1	0754	0754.3	.6	2.0	1.2		
	100	HIRA	6	0754	0754.3	1	60.0	20.0		
	100	GORK	6	0754	0754.3	.8	70.0			
	100	GORK	6	1016.7	1016.8	.5	50.0			
	100	GORK	41	1101.7	1101.7	2.6	80.0			
	100	GORK		1101.7	1104.1		80.0			
	1490	BERL	1	1143.6E	1143.6		4.7			
	9400	HUAN	5	1252.3	1323.2	34.7	9.4	2.4		
	408	SANM	3	1300	1300.2	.8	96.0	32.0		
	408	SANM	3	1310	1310.2	.5	30.0	7.5		
	2800	OTTA	20	1340	1420	75	2.4	1.2		
	1415	SGMR	22	1357.6	1358.2	18.6	9.6	4.2		
	113	POTS	41	1357.6	1359.2D	14.5	150.0D			
	23	POTS	41	1357.8	1359	1.6	4000.0	400.0		
	18	BOUL	41	1642	1645	4			1	
	18	MCMA	41	1642	1644	5			1	
	9400	HUAN	5	1940.2	1941.1	2.8	5.6	3.1		
	2800	OTTA	1	2035	2036	3	2.2	1.1		
	2700	PENN	1	2035.2	2036.1	4.3	5.0	1.4		
22	100	HIRA	6	0651	0651.3	.7	30.0	20.0		
	536	ONDR	45	0734	0736.5	5.5	80.0			
	240	KIEL	44	0937 E	0937		90.0	5.0		
	100	GORK	44	0939		81		5.0		
	100	GORK	6	1117.2	1117.3	.5	90.0			
	9400	HUAN	5	1425.3	1427.5	5	5.7	3.8		
	9400	HUAN	5	1516.7	1518.1	10.1	7.6	2.9		
	9400	HUAN	5	1918.7	1919.3	8	9.5	4.3		
	2695	BOUL	40	2339.5	2341.5	5			2	
23	606	MANI	4	0614.5	0623.3	15.8	77.0	29.1		
	420	KIEL	6	0927	1006	43	30.0	20.0		
	18	MCMA	6	1406	1410	5			1	
	9400	HUAN	5	1812.7	1824.7	21.3	3.7	2.4		
	9400	HUAN	5	1850.9	1900	11.9	5.6	8.4		
	18	MCMA	6	1947	1948	2			1	
	2695	BOUL	8	2008.5	2008.5	.5			2	
	2695	BOUL	41	2111.5	2112	2.5			1	
24	408	SANM	3	1402.2	1402.7	.9	104.0	35.0		
	408	SANM	3	1416	1416.4	1	83.0	25.0		
	2700	PENN	1	1422.9	1423.4	4	1.8	0.5		
	1490	BERL	1	1423.2E	1423.2		1.3			
	536	ONDR	45	1423	1423	7	55.0			
	15400	SGMR	1	1424.5	1424.7	.4	8.2	1.6		
	10700	PENN	1	1424.5	1424.8	2.4	8.1	2.5		
	9500	BERL	1	1424.3E	1424.3		7.8			
	9400	HUAN	5	1424	1424.6	2.4	13.2	5.0		
	8800	SGMR	3	1424.5	1424.7	.3	22.9	4.6		
	7000	SAOP	3	1424	1424.8	2.4	14.7	5.7		
	4995	SGMR	1	1424.5	1424.7	.3	3.8	.8		
	960	PENN	45	1424.2	1425.5	2.2	6.0	1.2		
	930	BORD	45	1424	1425.4	2	16.0	3.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

MARCH 1971

MAR 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	A 606 SGMR	1	1424.5	1424.8	1.5	3.7	.7		
	184 BOUL	6	1425	1425	7			1	
	2800 OTTA	20	2045	2115	135	3.2	1.6		
25	9400 TYKW	5	0740	0741.3	4	15.0	4.0		
	3750 TYKW	5	0740	0742	4	3.0	1.0		
	9500 BERL	1	0741.2E	0741.2		7.5			
	9700 IRKU	3	0807.6	0808.7	3	65.0	15.0		
	9500 BERL	3	0807.5	0808.3	3	36.0	15.0		
	9400 SLOU	3	0807.5	0808.8	2.5	46.0			
	9100 GORK	3	0808.4E	0808.7U	1.7E	42.0			
	8800 MANI	3	0808.4	0808.7	2.3	35.9	27.6		
	206 IZMI	6	0829	0829.3	.6	130.0	80.0		
	9400 HUAN	5	1350.4	1353.9	7.2	7.5	5.1		
	18 MCMA	42	1428	1436	30			1	
	9400 HUAN	5	1930.9	1933.3	9.9	9.4	13.4		
	208 VORO	5	2305.8	2306	1	132.0	68.0		
	100 HIRA	6	2305.5	2306	1.3	30.0	10.0		
	200 HIRA	45	2306	2306.2	1.5	210.0	60.0		
26	9400 TYKW	5	0513	0536	45	8.0	3.0		
	3750 TYKW	5	0530	0536	30	7.0	2.0		
	8800 MANI	2	0535.7	0535.9	1.2	5.7	2.9		
	4995 MANI	4	0535.1	0536	4.4	22.4	10.0		
	9400 TYKW	5	0638	0640	13	7.0	3.0		
	930 BORD	5	1052	1052.8	1	26.0	1.0		
	19000 SLOU	20	1054	1106	27	59.0U			
	9400 SLOU	28	1100	1110	10	15.0U			
	9500 BERL	3	1110.5	1111.7	22.5	25.0	4.4		
	9500 BERL	3	1110.5	1115.5	22.5	8.7	4.4		
	8800 SGMR	3	1110	1111.8	3.6	26.0	5.0		
	4995 SGMR	3	1110	1111.8	3.7	22.3	4.2		
	9400 SLOU	3	1111	1111.8	5	47.0U			
	9100 GORK	3	1111.4	1111.9	2	36.0	14.0		
	4995 CANR	1	1111	1112	2.5			1	
	2950 GORK	1	1111.3	1111.9	1.9U	3.7			
	930 BORD	5	1124	1124.3	1	41.0	1.0		
	184 BOUL	24	1313	1332	45			2	
	930 BORD	41	1411	1411.7	1	10.0	2.0		
	930 BORD	41	1421	1421.4	1	25.0	2.0		
	184 BOUL	6	1421	1423	23			1	
	9400 HUAN	5	1507.3	1510.6	8.7	7.3	15.7		
	9400 HUAN	5	1522.7	1528.6	13.1	3.6	17.2		
	930 BORD	41	1612	1613.5	2	9.0	2.0		
	930 BORD	45	1621	1621.2	1	97.0	2.0		
	9400 HUAN	5	2135.4	2142.6	9.4	10.9	4.8		
	8800 MANI	3	2222.7	2222.9	.5	54.8	21.9		
	2695 BOUL	41	2354	2354.5	2			2	
27	2695 BOUL	41	0013	0015	2.5			2	
	3750 TYKW	5	0238	0239	6	2.0	1.0		
	2800 OTTA	1	1333.5	1334.5	2.5	2.6	1.3		
	2700 PENN	1	1333.1	1334.5	3.2	4.7	1.5		
	184 BOUL	43	1524		573 D			2	
	2700 PENN	20	1928	1937.6	22.5	6.3	3.7		
	2700 PENN	45	2027.4	2029.8	4.9	9.5	2.3		
	8800 SGMR	1	2028.9	2029.1	2.2	3.4	1.7		
	4995 SGMR	1	2028.9	2029	1.2	8.4	4.2		
	2695 SGMR	1	2028.8	2029.1	1.5	2.9	1.4		
	1415 SGMR	1	2028.9	2029.8	2.5	3.0	1.5		
	960 PENN	45	2028.6	2029.8	3	22.3	1.1		
	606 SGMR	45	2028.9	2029.5	2.2	85.0	24.0		
	245 SGMR	6	2028.9	2029	1.1	230.0	85.0		
	10700 PENN	40	2029		1.2				
	184 BOUL	6	2029	2030	4			3	
	606 SGMR	8	2104.8	2104.9	.2	19.2	7.0		
	245 SGMR	6	2104.7	2104.9	.3	95.0	38.0		
28	100 HIRA	45	0410.3	0410.5	1	120.0	30.0		
	3750 TYKW	5	0443	0444.2	3	3.0	1.0		
	200 GORK	48	0509 E		228		10.0		
	260 ONDR	41	0635	0703	115	40.0			
	240 KIEL	44	0640 E	0640		500.0	5.0		
	100 GORK	41	0657.7	0658.5	16.1	40.0			
	100 GORK		0657.7	0709.8		35.0			
	100 HIRA	45	0719.3	0722.3	3	170.0	70.0		
	100 HIRA	45	0728.5	0729	2	200.0	110.0		
	200 GORK	43	0742.9	0743.7	4	200.0			
	234 POTS	41	0743.2	0744.4	3.1	175.0	1.0		
	206 IZMI	6	0743	0743.1	.5	230.0	90.0		
	100 GORK	41	0743	0744	5.8	40.0			
	100 GORK		0743	0757.3		10.0			
	100 GORK	44	0748.8		45		5.0		
	9500 BERL	1	0904.6E	0904.6		6.8			
	225 HARS	5	0923	0924	2	25.0	17.0		
	260 ONDR	41	0957	0957	123	80.0			
	200 GORK	48	1000 E		27		5.0		
	100 GORK	6	1110	1110.2	.4	40.0			
	2800 OTTA	22	1220	1223	25	4.0	2.0		
	2695 SGMR	20	1220.1	1222.6	38.7	5.7	2.8		

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MAR 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	4995 SGMR	20	1221.9	1225.7	35.4	4.1	2.0		
	1490 BERL	20	1222.5E	1222.5		1.2			
	8800 SGMR	20	1223.2	1223.3	41.9	4.6	2.3		
	2800 OTTA	20	1249	1250	40	2.2	1.1		
	184 BOUL	44	1340 E		670 D			3	
	245 SGMR	43	1602		418 D				
	9400 HUAN	5	1435.3	1441.7	11.1	5.6	0.7		
	184 BOUL	6	1437	1439	3			3	
	240 KIEL	44	1550	1618		200.0	5.0		
	184 BOUL	6	1607	1609	7			3	
	9400 HUAN	26	1625.3	1633.2	9.4	5.6	2.7		
	9400 HUAN	32	1848.9	1905.3	29.1	7.5	1.9		
	9400 HUAN	5	2131	2153.3	25.8	7.5	3.0		
29	100 GORK	6	0654.7	0655.2	.6	35.0	15.0		
	9500 BERL	1	1022.2	1022.7	1.8	5.0	1.7		
	9100 GORK	1	1022.6	1023.3	1.1	7.0	3.0		
	4995 CANR	3	1022.5	1023.5	2.5			1	
	2950 GORK	3	1022.2	1022.9	1.2	32.0	16.0		
	2695 CANR	3	1022.5	1023.5	2			1	
	1490 BERL	3	1022	1022.7	3	7.9	3.0		
	2950 GORK	29	1023.4	1023.4	4.1	7.0	3.5		
	1420 CANR	1	1023	1023.5	1.5			1	
	245 SGMR	44	1036 E		157 D				
	240 KIEL	44	1119 E	1119		90.0	5.0		
	2800 OTTA	21	1330	1419	155	8.4	4.0		
	2700 PENN	28	1406.6	1410	5.2	6.6	4.7		
	1490 BERL	22	1407	1407.7	1.7	1.2	0.7		
	1490 BERL	22	1410.5	1413.3	50 D	2.8	0.8		
	15400 SGMR	4	1411.8	1412.8	3.9	69.0	28.0		
	10700 PENN	45	1411.6	1412.8	3	122.0	47.8		
	9500 BERL	4	1411.7	1413	50 D	100.0			
	9400 HUAN	45	1411.4	1412.9	3	112.0	46.4		
	8800 SGMR	4	1411.8	1412.8	3.7	100.0	25.0		
	7000 SAOP	3	1411.9	1412.7	4.2	89.3	35.0		
	4995 SGMR	4	1411.8	1412.9	3.8	160.0	40.0		
	2800 OTTA	20	1411.9	1413	5	54.0	20.0		
	2700 PENN	3	1411.8	1413	3.6	78.5	36.1		
	2695 SGMR	3	1411.9	1413.4	3.6	42.4	10.0		
	19000 SLOU	4	1412.3	1413.3	2	46.0U			
	9400 SLOU	4	1412	1413	4.5	110.0U			
	4995 CANR	3	1412.5	1413.5	3			2	
	2695 CANR	3	1413	1414	3			1	
	10700 PENN	29	1414.6	1414.6	31.4	13.1	6.5		
	9400 HUAN	29	1414.4	1414.4	89.2	16.8	7.0		
	8800 SGMR	29	1415.5	1415.5	43.3	10.0	5.0		
	4995 SGMR	29	1415.6	1415.6	32.6	12.0	6.0		
	2700 PENN	29	1415.4	1415.4	40.6	11.1	5.5		
	2695 SGMR	29	1415.5	1415.5	31.2	4.1	2.0		
	7000 SAOP	29	1416.2		25 U				
	930 BORD	41	1502	1502	8	13.0	2.0		
	2800 OTTA	21	1700		210	2.0	1.7		
	9400 HUAN	5	1920.4	1923.4	12.2	5.6	2.3		
	2700 PENN	41	1928	1928	1.6	496.0			
	2800 OTTA	21	1944	1948	15	4.0	1.6		
	2700 PENN		1944.9	1945.5	8.8	11.6	3.5		
	10700 PENN	20	1945	1948.4	12.5	6.8	3.4		
	9400 HUAN	5	1945.3	1953.2	36	7.5	5.6		
	8800 SGMR	22	1945.2	1945.3	13.3	3.8	1.8		
	4995 SGMR	22	1945.1	1945.3	13.5	6.0	2.8		
	2800 OTTA	1	1945	1945.5	1	5.2	2.6		
	2695 SGMR	2	1945.1	1945.5	9.7	5.7	2.0		
	2695 PENT	20	2205	0015	200	3.4	1.7		
30	9400 TYKW	5	0340	0438	120	6.0	3.0		
	3750 TYKW	5	0340	0438	120	5.0	2.0		
	100 GORK	44	0624		66		5.0		
	100 GORK	41	0634.6	0635	16	40.0			
	100 GORK		0634.6	0639.8		30.0			
	100 GORK		0634.6	0646.7		40.0			
	930 BORD	41	0820	0821	2	21.0	2.0		
	2800 OTTA	20	1240	1440	200	3.8	2.0		
	23 POTS	5	1243.8	1244	.5	5000.0	1500.0		
	930 BORD	5	1258	1258.4	1	17.0	2.0		
	9400 HUAN	5	1447	1452.8	46.5	9.5	4.6		
	9400 HUAN	5	1757.7	1811.1	17.1	9.5	3.1		
	9400 HUAN	5	1840.3	1841.2	15.7	7.6	1.6		
31	930 BORD	5	0730	0731	2	6.0	2.0		
	10700 PENN	1	1515.1	1516.1	1.4	6.3	2.1		
	8800 SGMR	1	1515.9	1516.2	2.8	3.8	.7		
	2700 PENN	45	1515.5	1516.5	2.6	143.0	37.9		
	2695 SGMR	4	1515.7	1516.5	2.3	83.7	16.8		
	1415 SGMR	3	1515.9	1516.1	.8	10.9	2.1		
	960 PENN	3	1515.7	1516.1	1	27.4	1.2		
	930 BORD	5	1515	1515.1	2	80.0	3.0		
	4995 SGMR	1	1516.1	1516.2	.6	4.4	.8		
	2695 CANR	4	1516.5	1517.5	2			1	
	1420 CANR	3	1516.5	1517	1			1	
	2695 BOUL	41	1517	1517.5	2			2	

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MAR 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
31	1420 BOUL	3	1517	1517.5	1			1	
	2800 OTTA	24	1610		15	2.6			
	2700 PENN		1720.6	1724 .	6	19.6	3.8		
	960 PENN		1720.8	1722.9	3.6	11.5	0.5		
	10700 PENN	1	1721.9	1725.9	7.1	8.8	2.5		
	9400 HUAN	5	1721.1	1725.7	12.1	7.5	3.3		
	2800 OTTA	40	1721	1724	6	13.5			
	15400 SGMR	2	1722	1725.7	9.1	4.8	2.4		
	8800 SGMR	2	1722	1725.6	8	6.7	3.3		
	4995 SGMR	4	1722	1724.1	9.7	10.1	5.0		
	2695 SGMR	2	1722.9	1724.1	5.7	9.9	4.5		
	2695 CANR	41	1723.5	1724	2.5			1	
	9400 HUAN	5	1824.2	1844.2	32.5	5.6	3.5		
	15400 SGMR	2	1843.3	1845.7	4.8	7.6	2.0		
	8800 SGMR	2	1843.6	1844.8	3.1	5.6	1.5		
	4995 SGMR	2	1843.5	1844.6	4.7	4.6	1.2		
	960 PENN	41	1929.7	1931.4	7.3	51.9			
	2700 PENN	41	1932.5	1932.5	1	21.8			
	2695 BOUL	41	2009	2010	3			1	
	2695 BOUL		2009	2011.5					
	2695 BOUL	40	2040.5	2041	3			1	

Observatories:

ABST = Abastumani
BERL = Berlin-Adlershof
BERN = Berne
BORD = Bordeaux
BOUL = Boulder
CANR = Canary Islands
CRIM = Simferopol
CRON = Carnarvon
GORK = Gorky
HARS = Harestua
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow IZMIRAN
KIEL = Kiel
KIEV = Kiev
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa ARO
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SANM = San Miguel
SLOU = Slough
SGMR = Sagamore Hill
TRST = Trieste
TYKW = Toyokawa
UCCL = Uccle
VORO = Voroshilov

Explanation of Type Code:

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

Radio bursts observed at Boulder, Canary Islands and Carnarvon (1420, 2695 and 4995 MHz) are scaled on a relative intensity scale of 1-3 where, within a factor of three or less, 1 = <100 fu ($10^{-22}Wm^{-2}Hz^{-1}$), 2 = 100-1000 fu and 3 = >1000 fu.

SOLAR X-RAY FLARES (2 - 12 A°)
SATELLITES EXPLORER 33 AND EXPLORER 35

MARCH 1971

University of Iowa

Date 1971	Onset U.T.	Maximum U.T.	Peak-Ratio to Quiet Sun	Remarks and Values of Maximum Flux F(2-12 A°) in erg (cm² sec)⁻¹
2 March	2220	2239	4	
4 March	--	1515	4	Onset not observed
7 March	0234	0242	6	
	1040	1113	7	
	2307	2336	4-	Complex rise
8 March	0128	0149	4-	Complex rise
12 March	0032	0046	5	
13 March	1321	1331	4	
16 March	0414	0427	4-	
17 March	0637	0657	6	
19 March	0055	0058	4-	Rapid rise, rapid decline
20 March	2015	2019	4-	
23 March	2033	2040	4-	
24 March	--	< 0541	> 6	Onset and peak not observed
	1424	1426	4-	
	2042	2112	5	Complex rise
25 March	0739	0745	4-	
26 March	0524	0548	4	
	0637	0644	4	
28 March	1218	1230	4-	
29 March	0932	0946	4	
	1410	1420	12	
	1944	1950	10	Rapid rise, rapid decline
30 March	0417	0428	5	
	0556	0609	5	
	0851	0855	4	
	1255	1302	4	
	1422	1432	4-	
31 March	1601	1620	5	
	1719	1725	10	
	1843	1845	12	Rapid rise, rapid decline

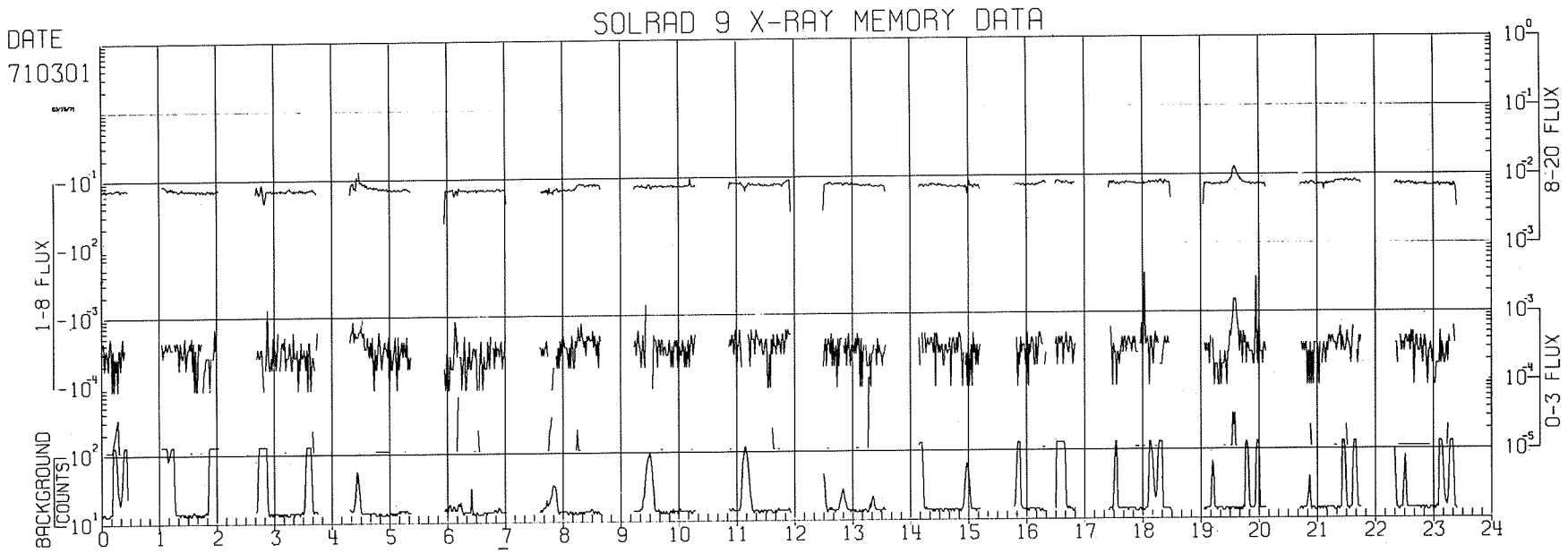
Notes:

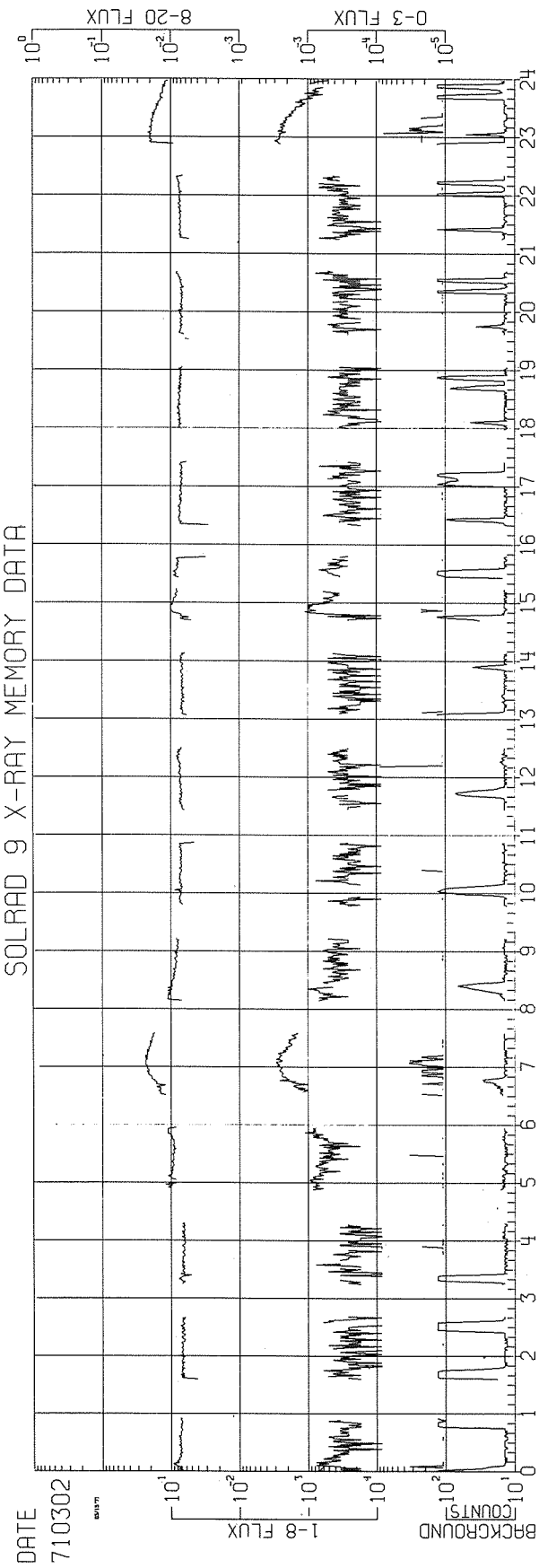
(1) Coverage this month 73%.

(2) Quiet sun (background) intensity varies from 0.0005 to 0.0011 erg (cm² sec)⁻¹ during the month.

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

MARCH 1971

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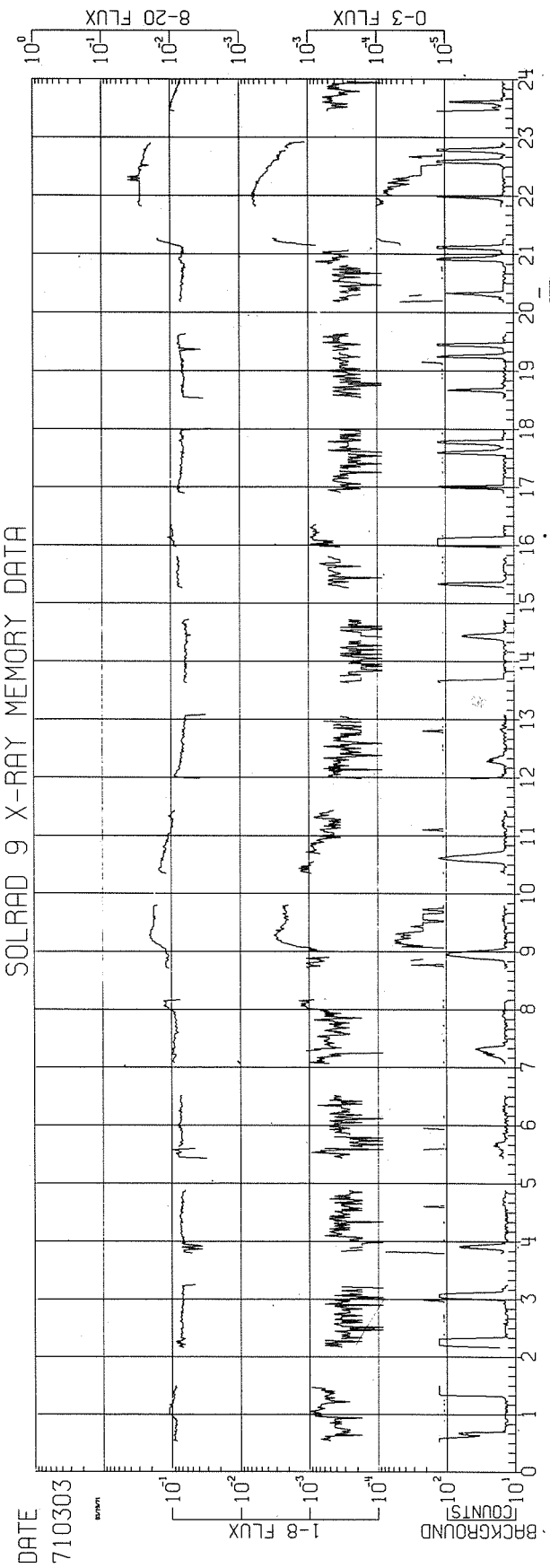
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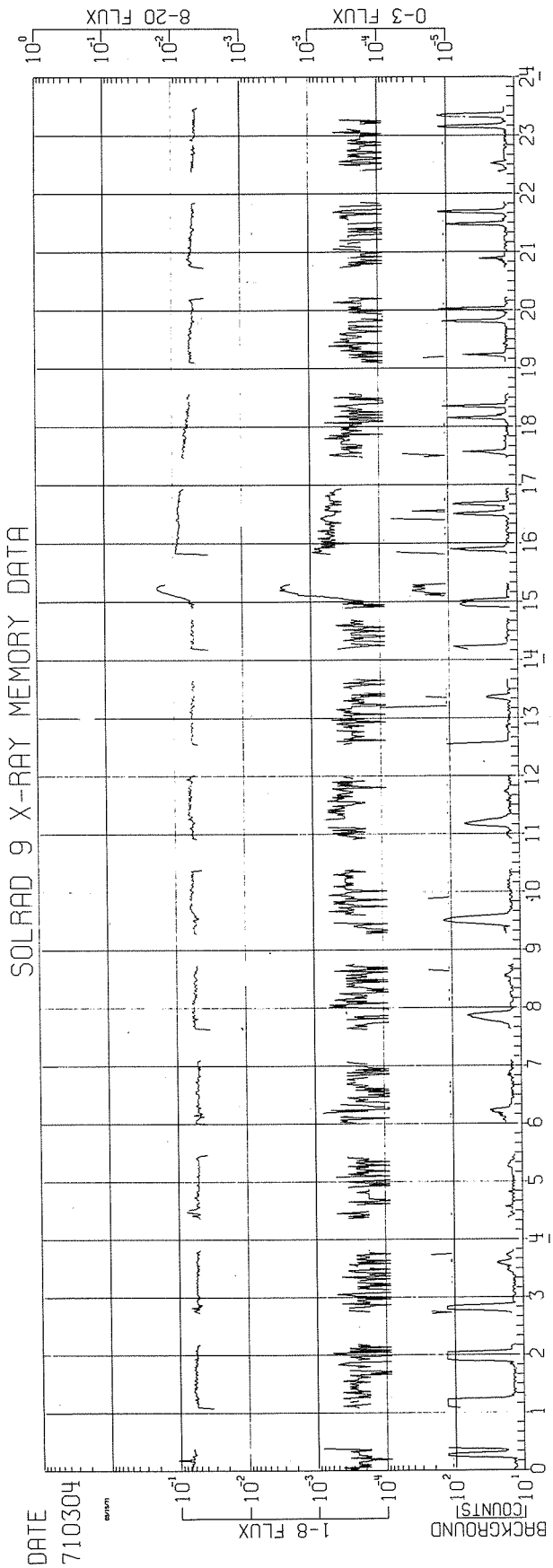
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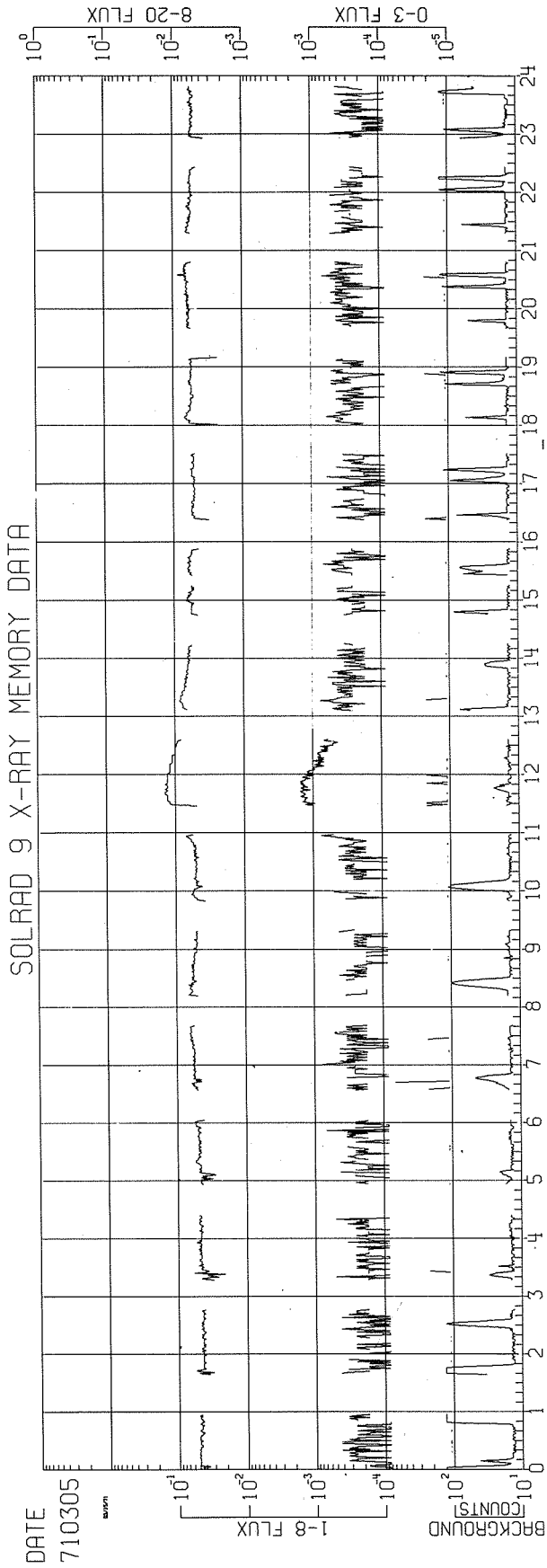
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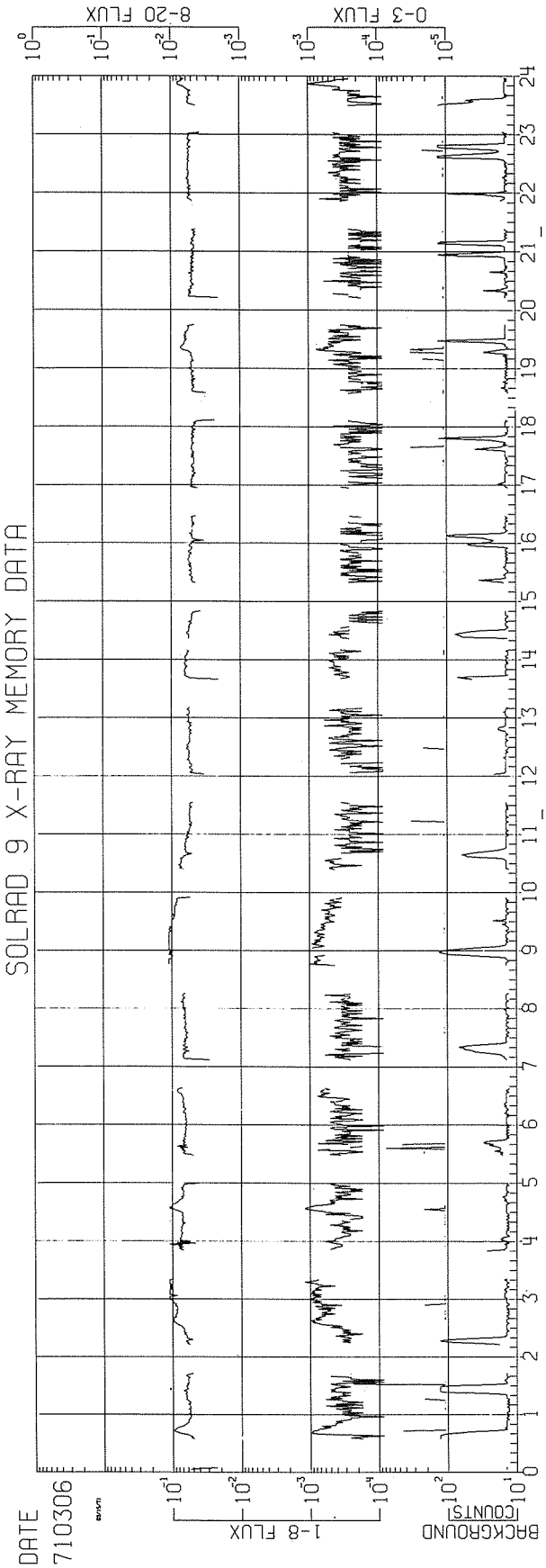
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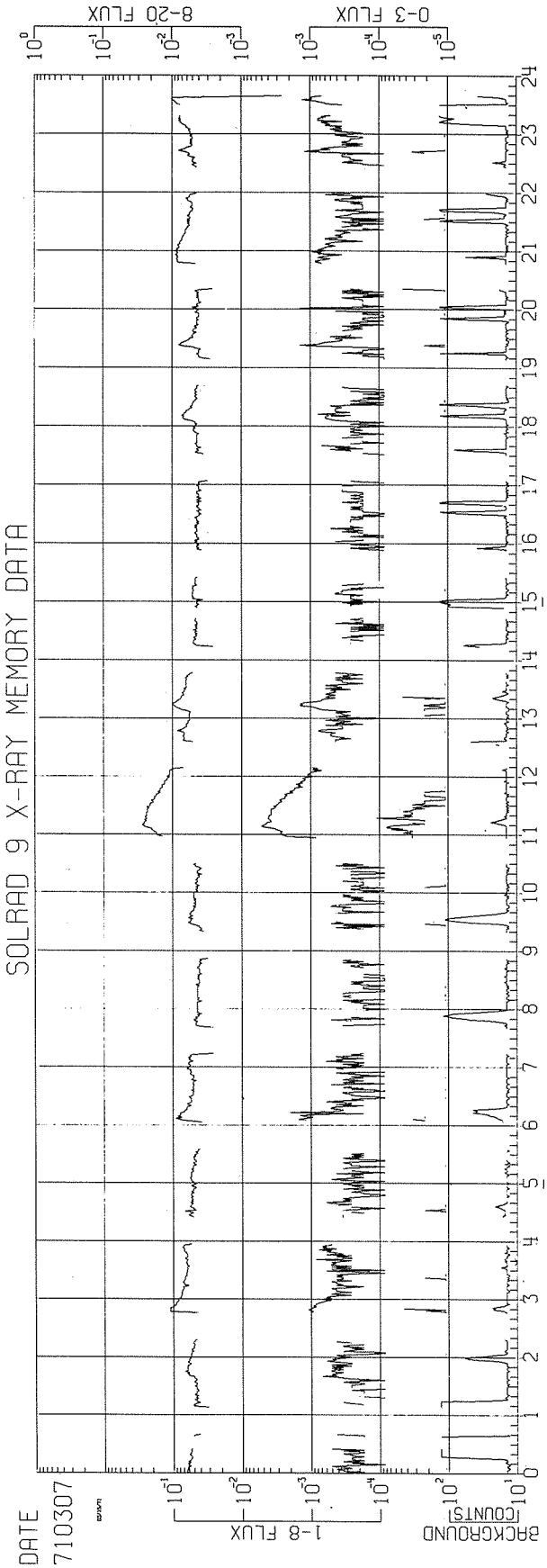
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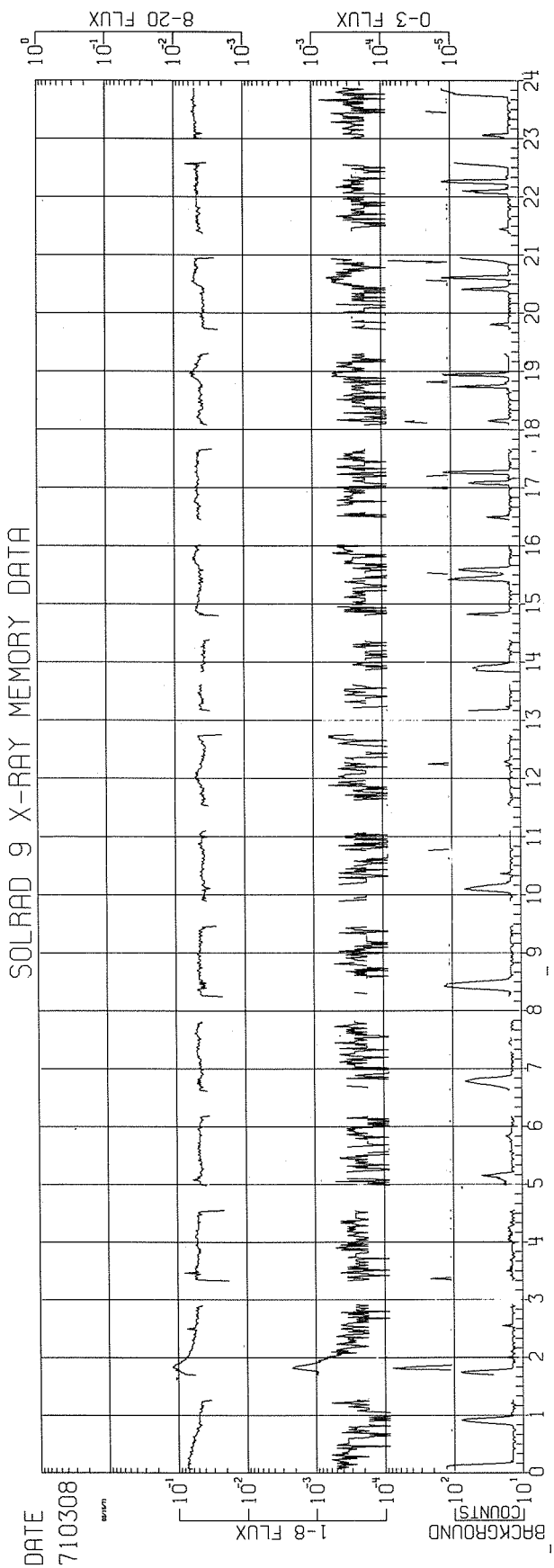
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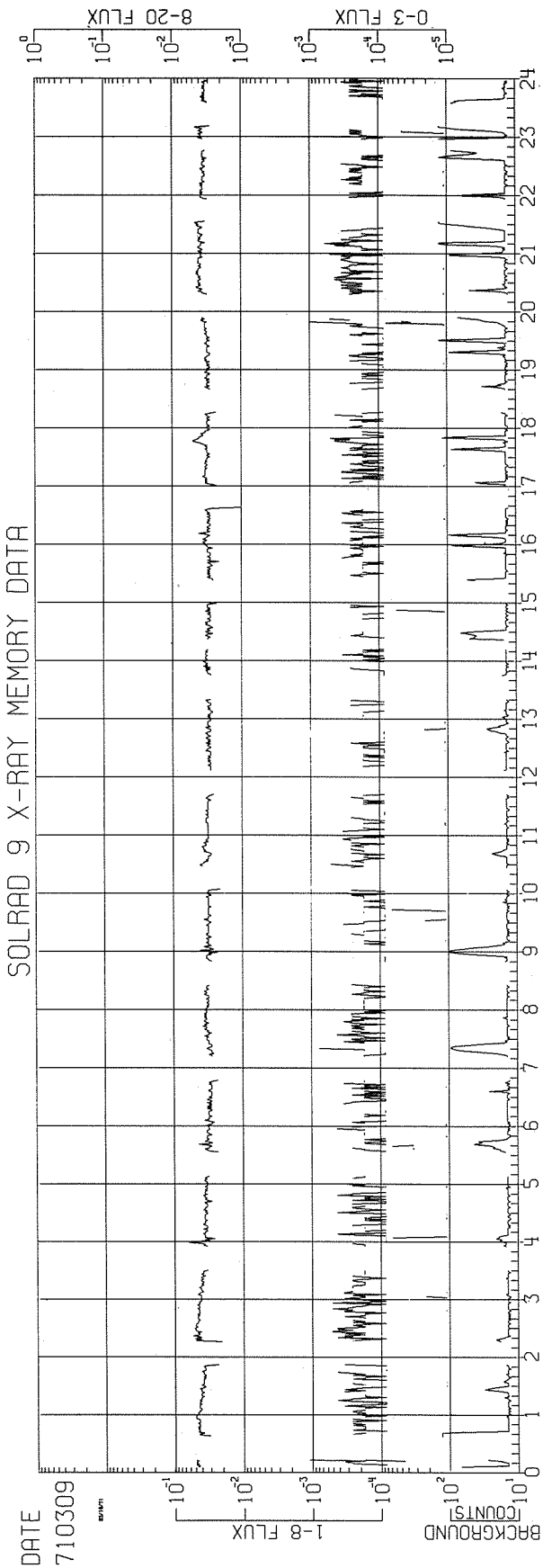
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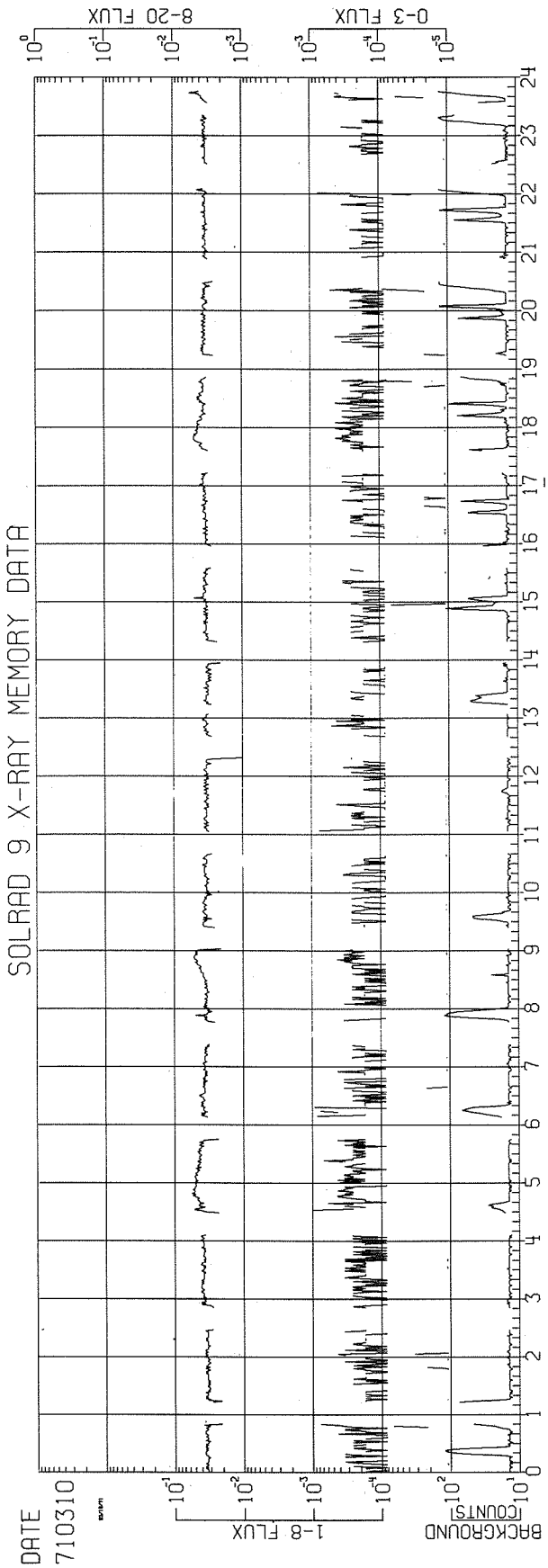
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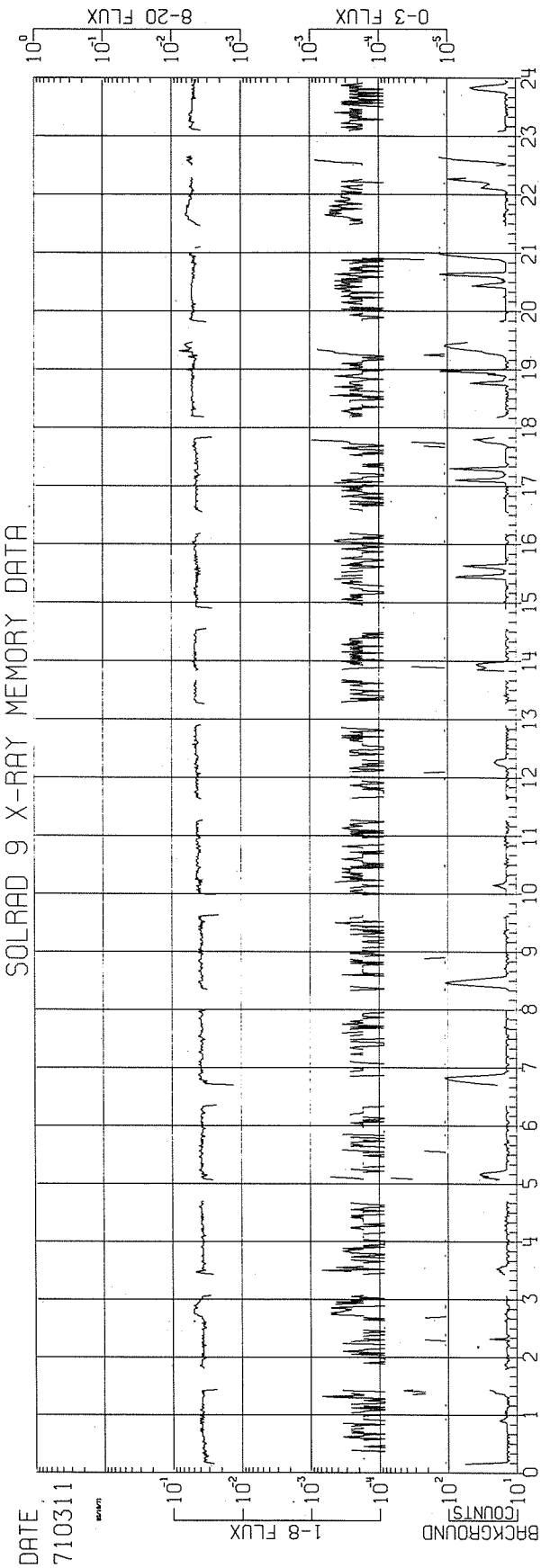
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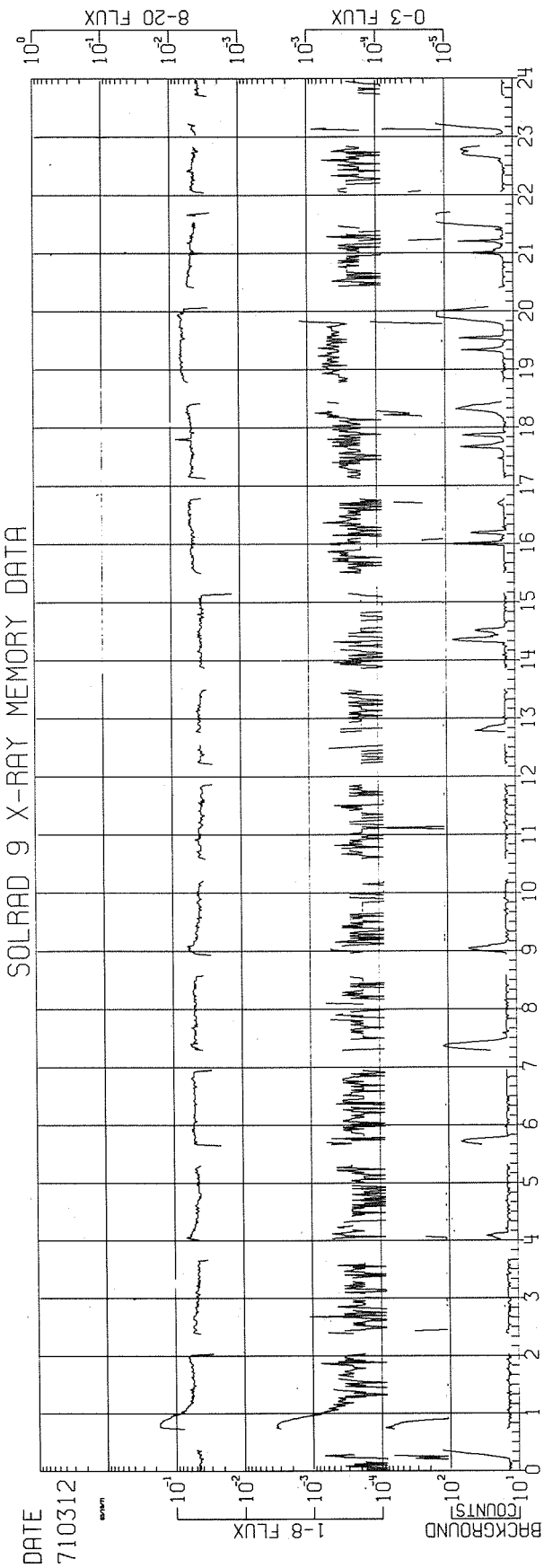
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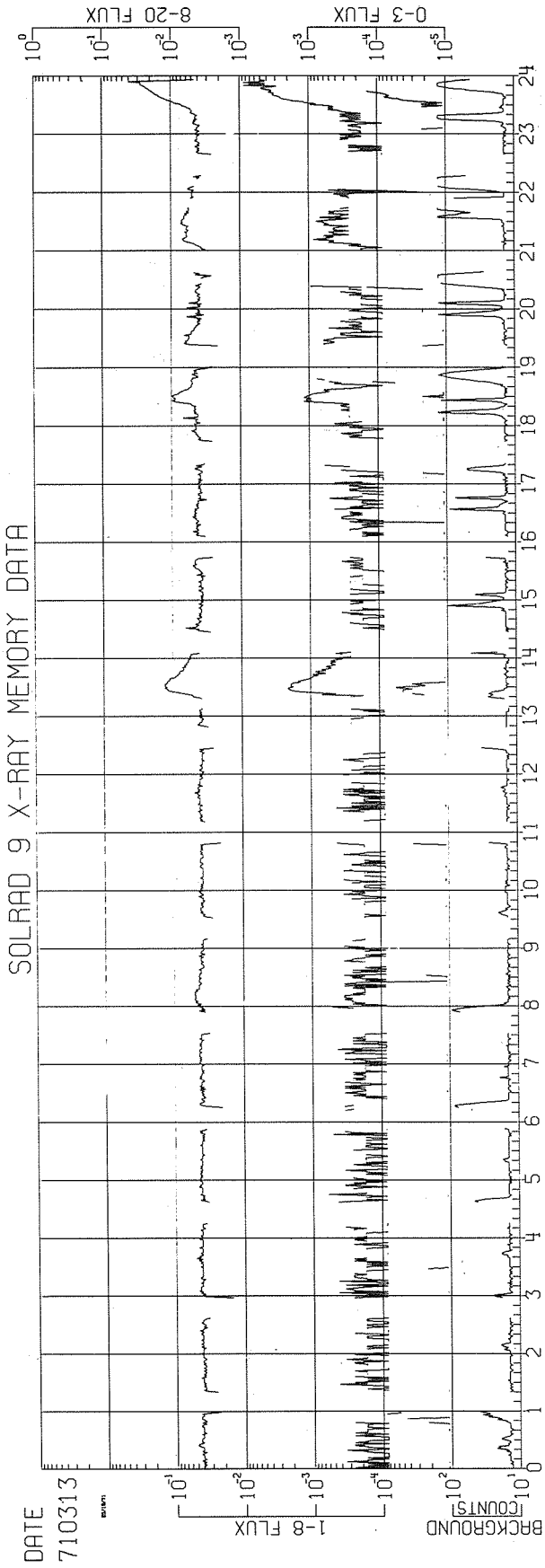
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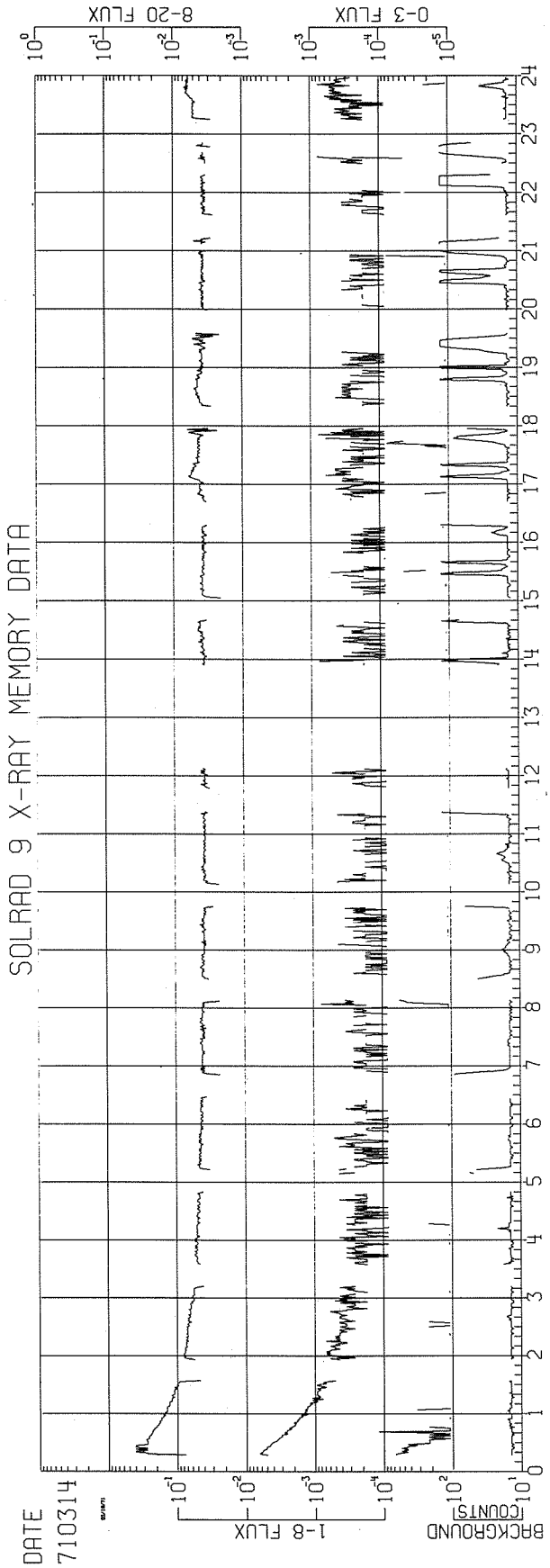
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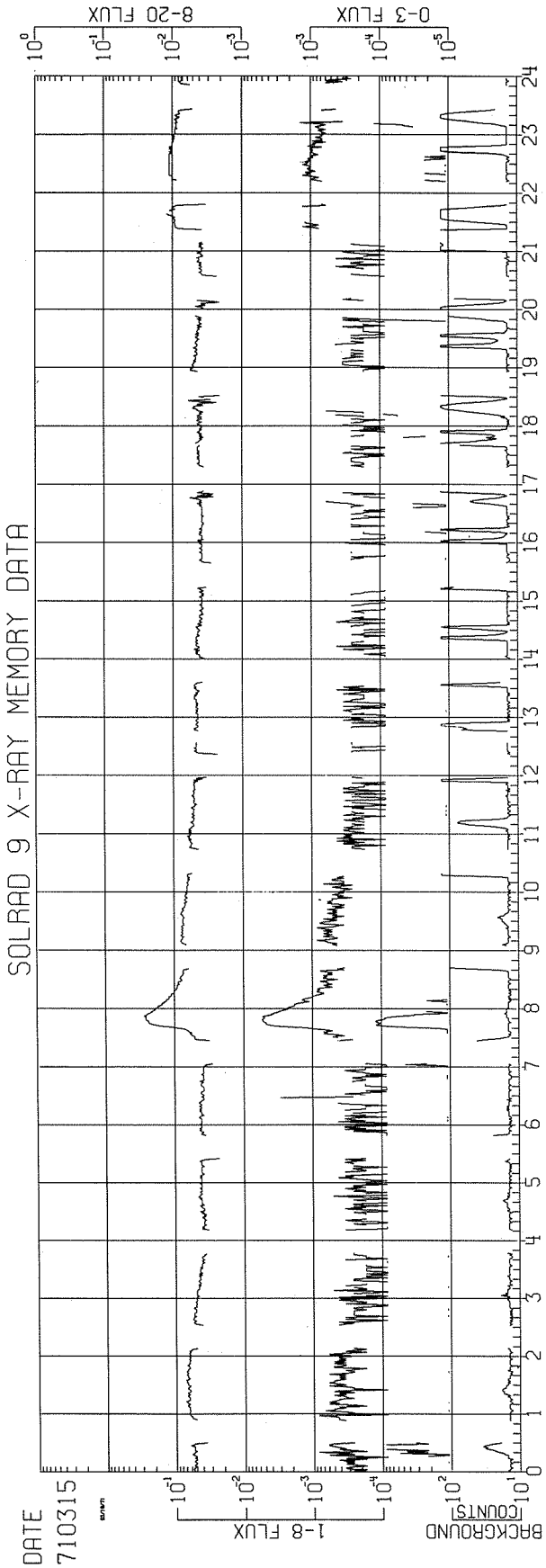
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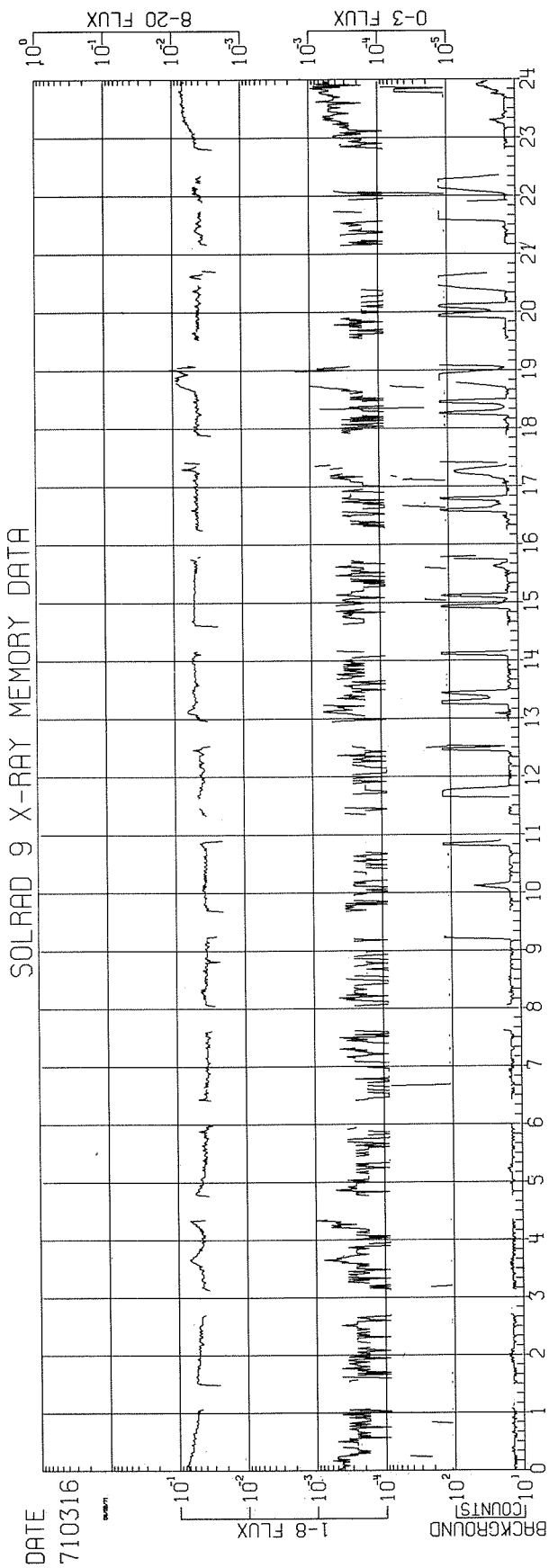
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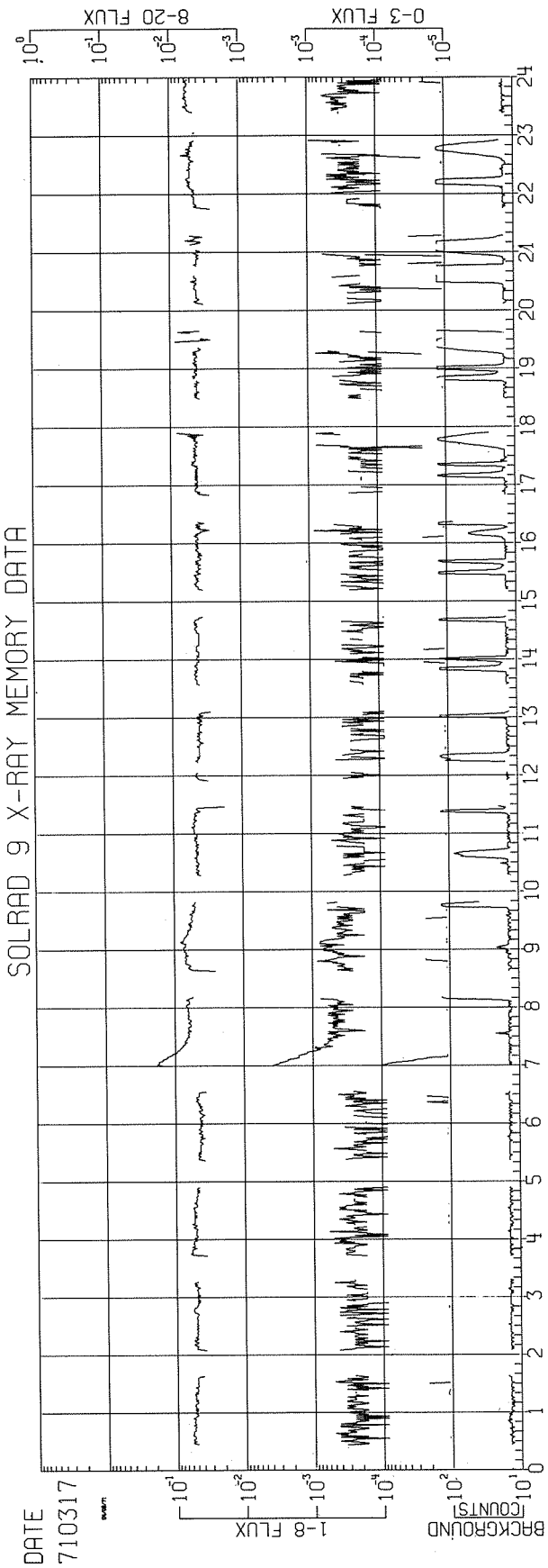
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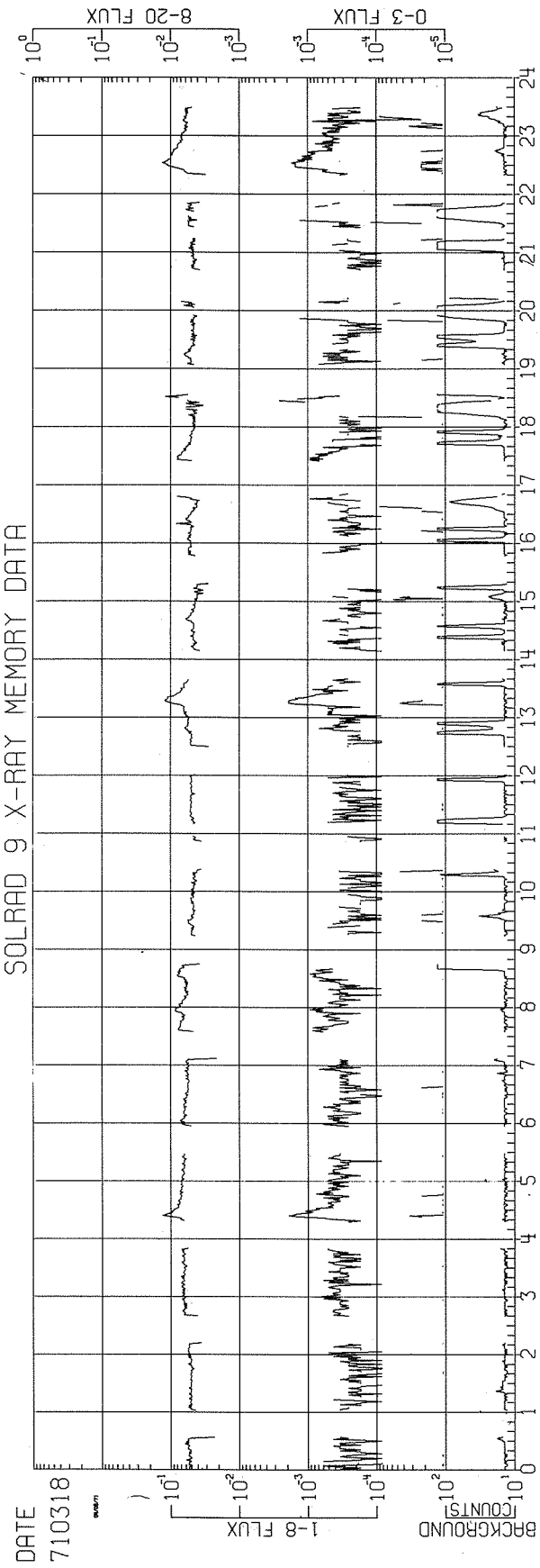
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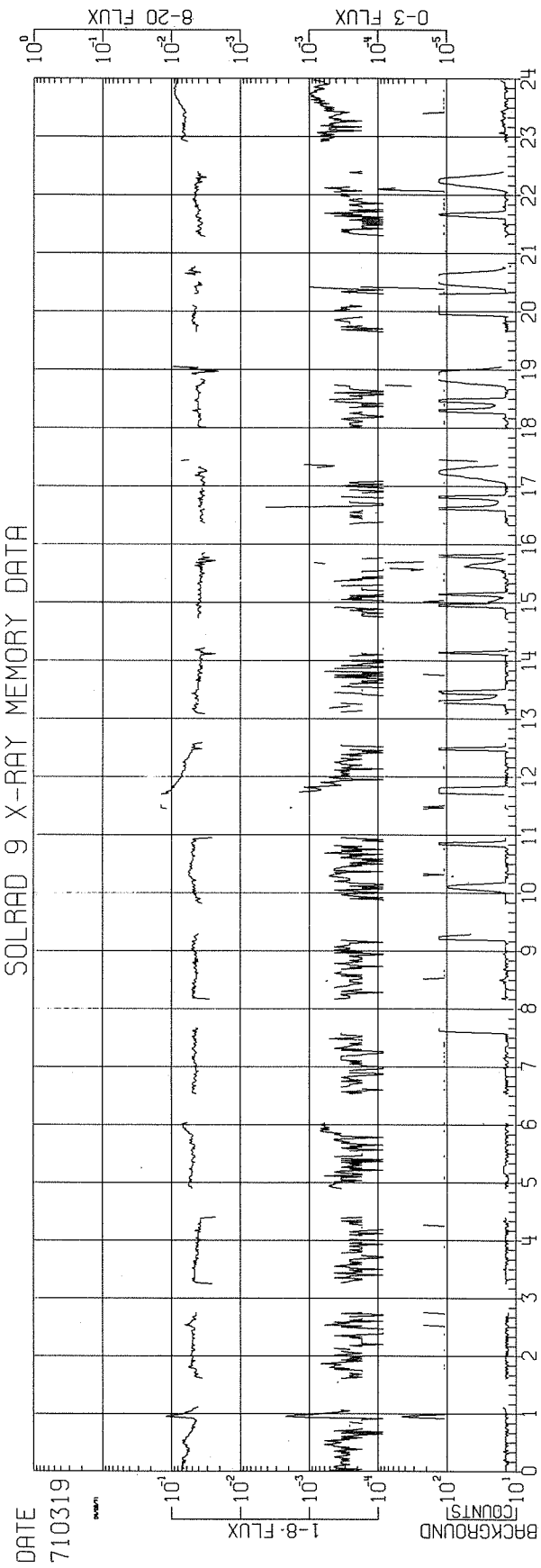
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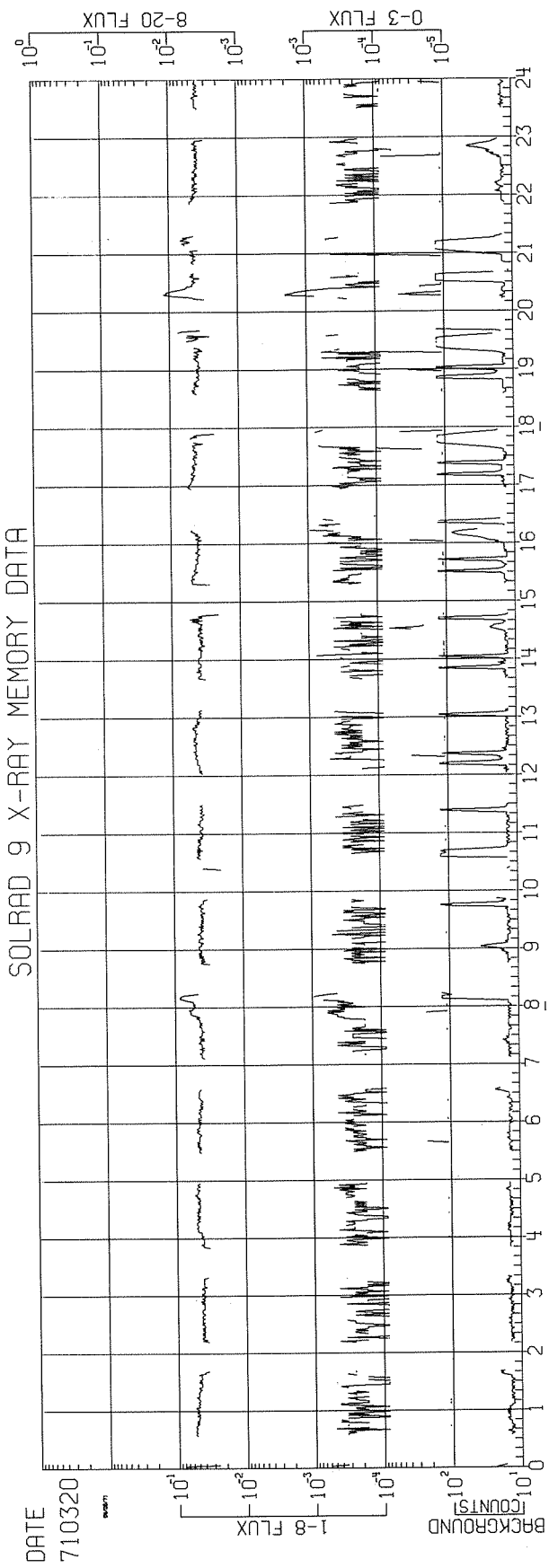
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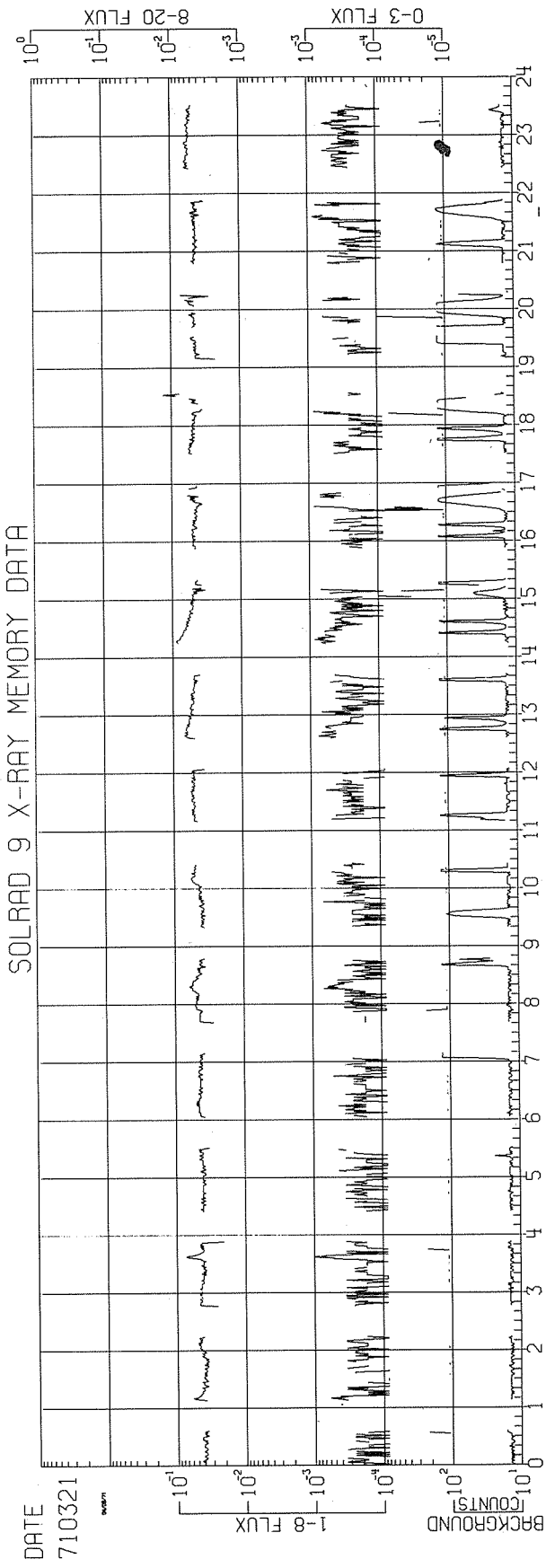
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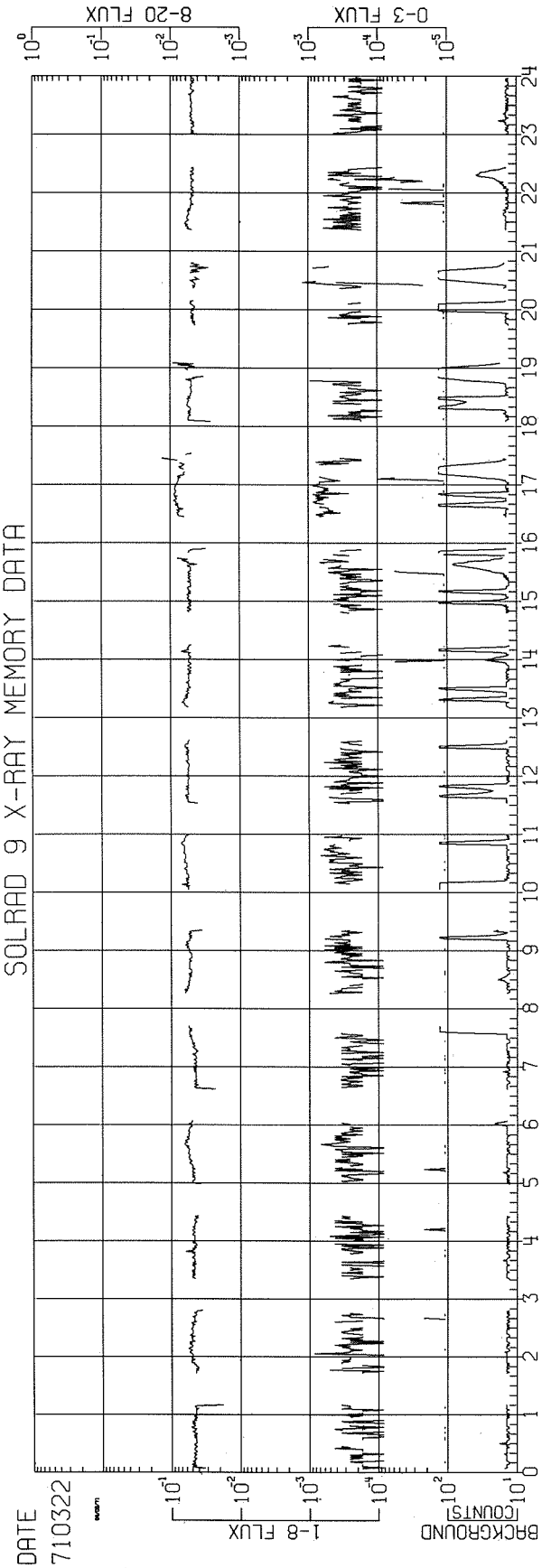
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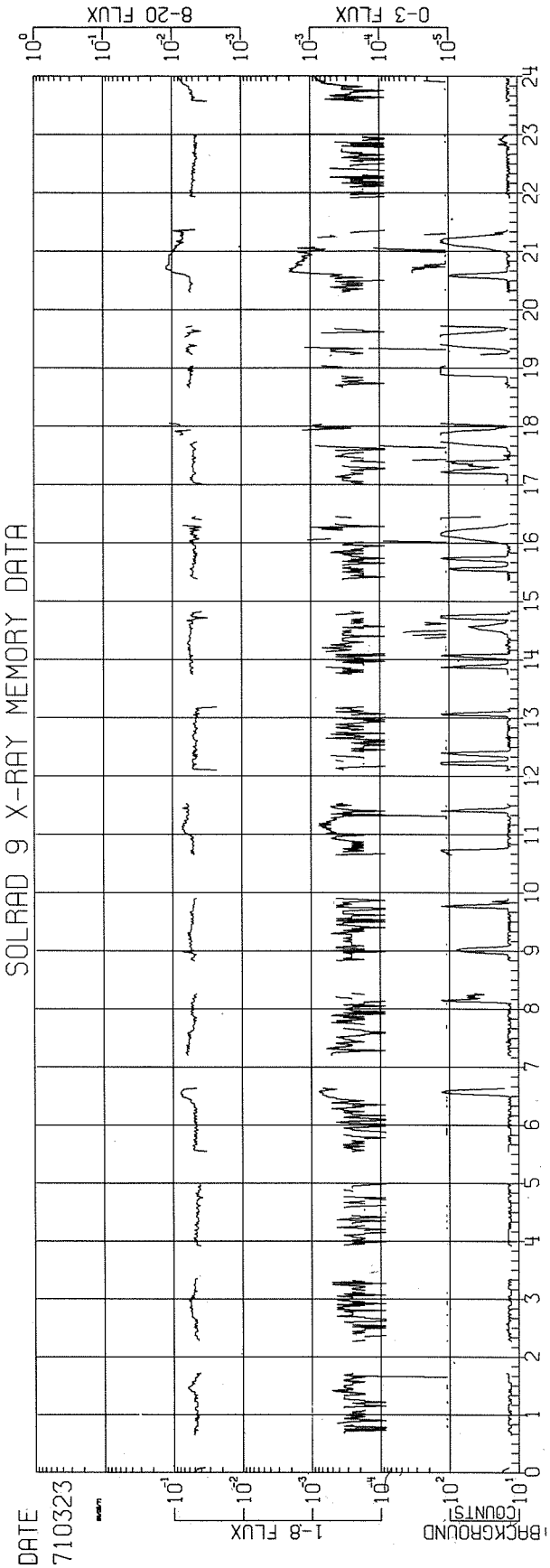
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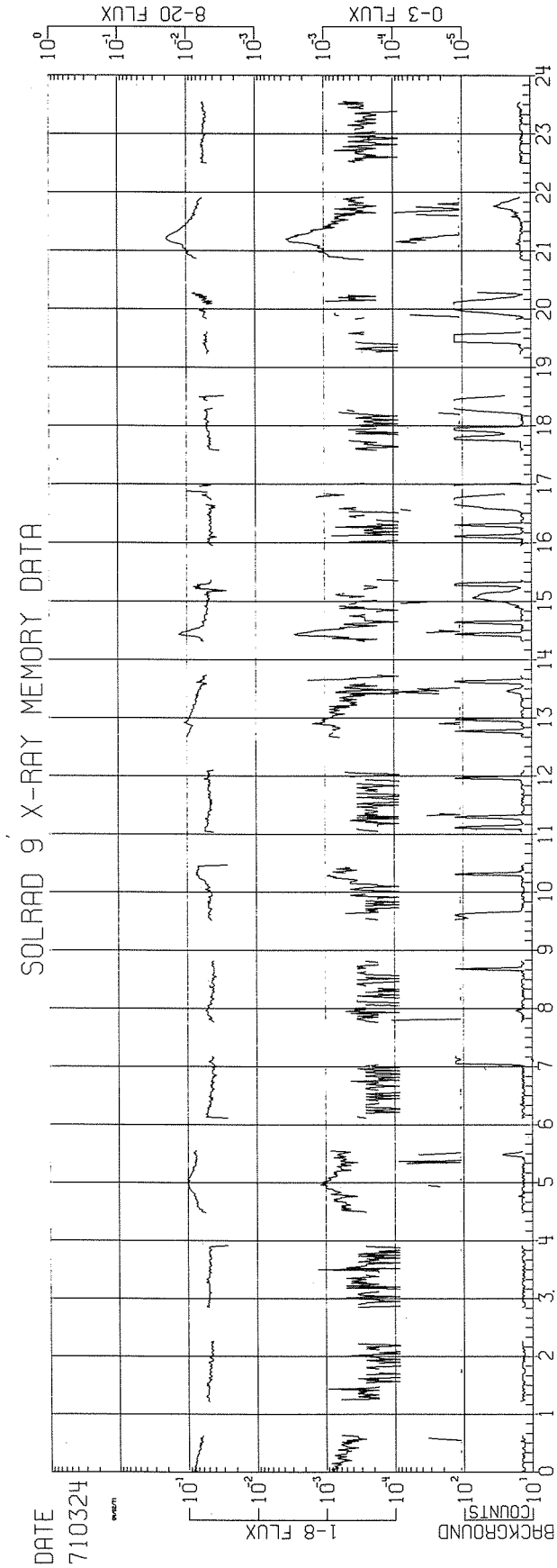
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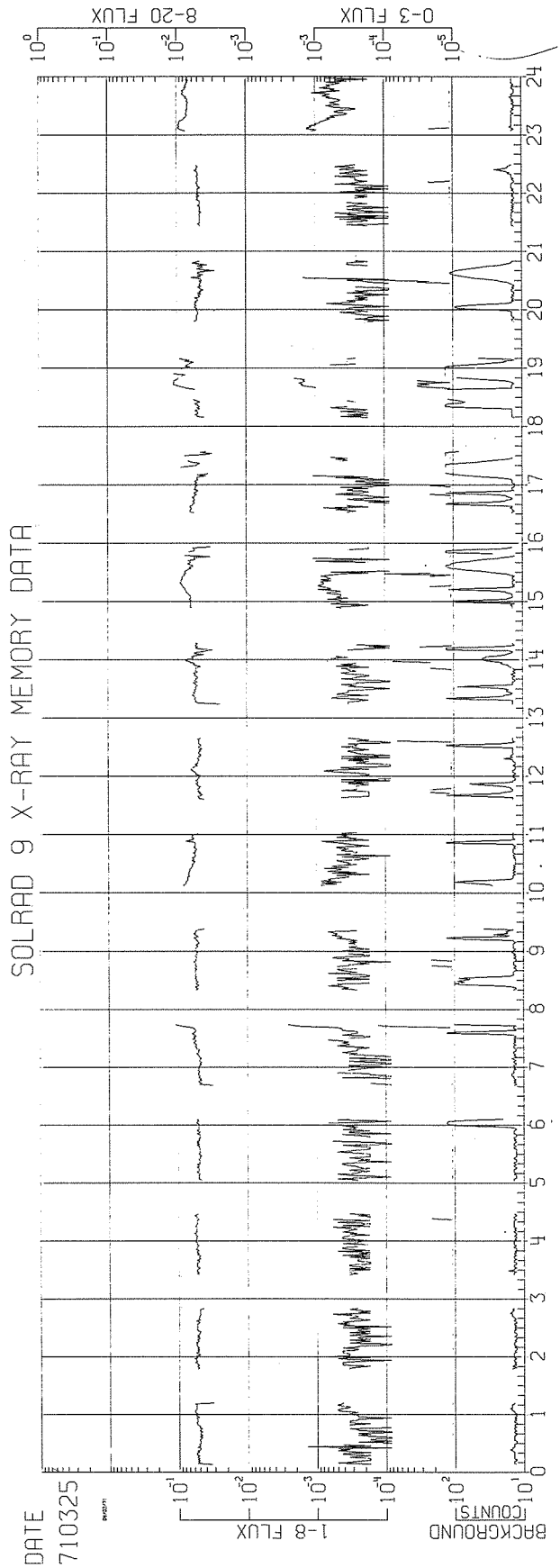
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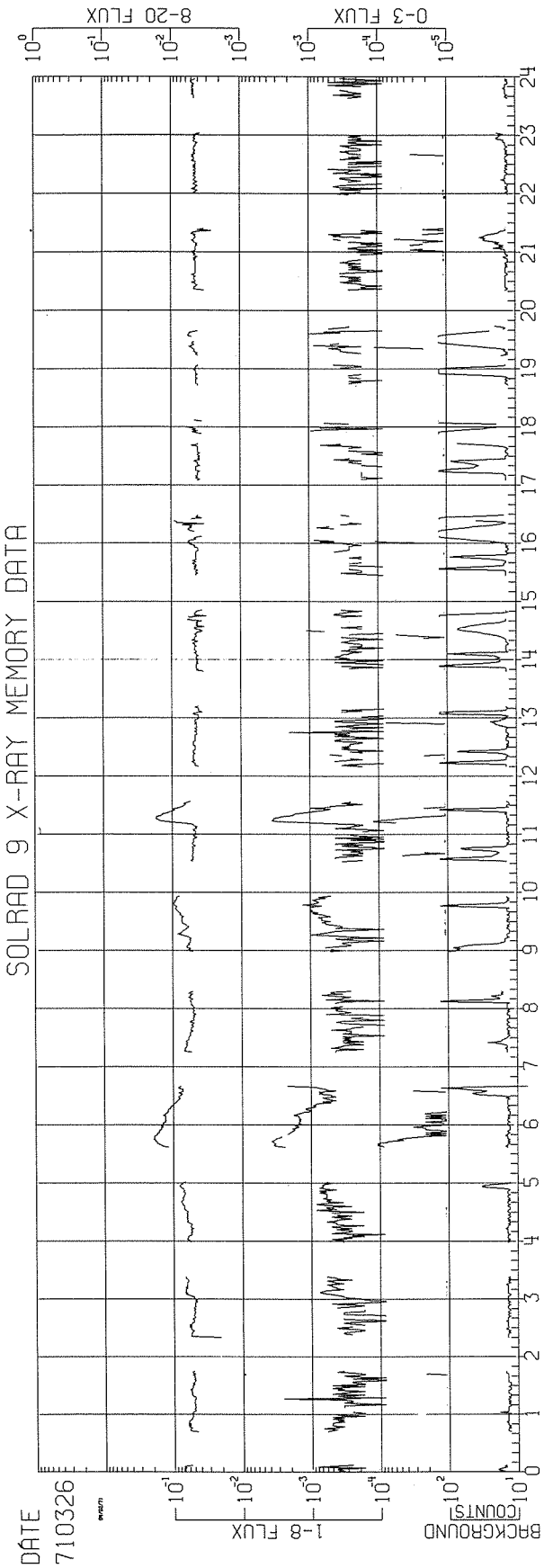
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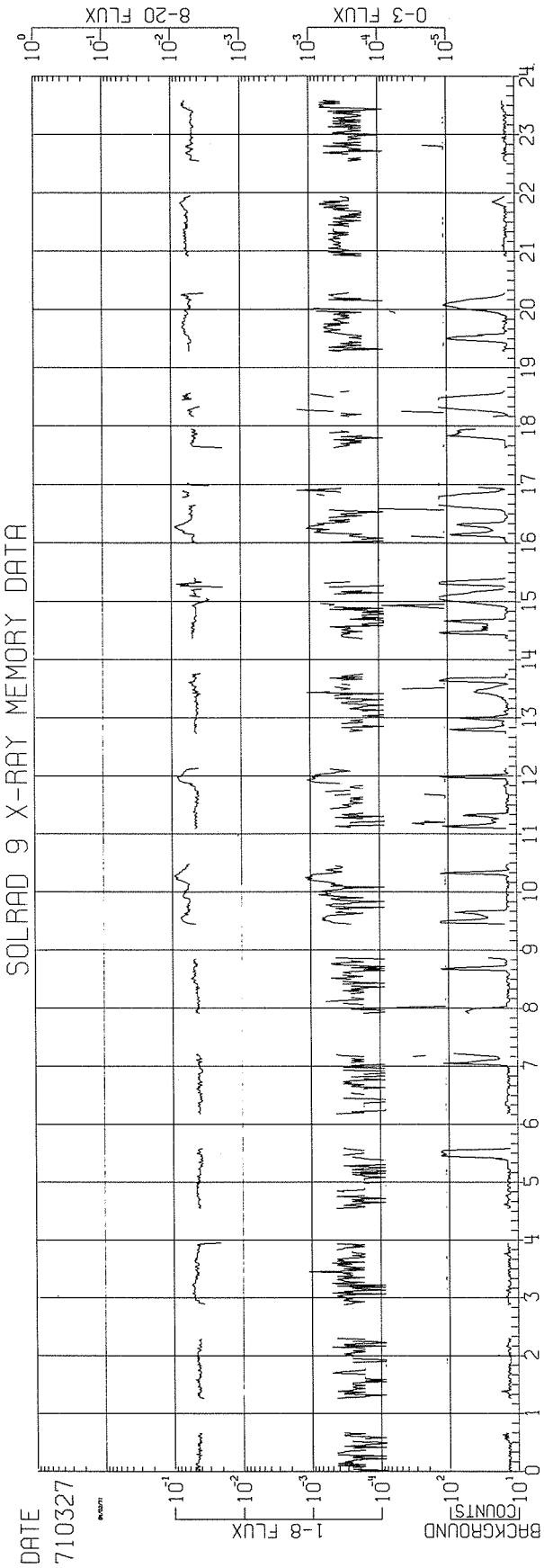
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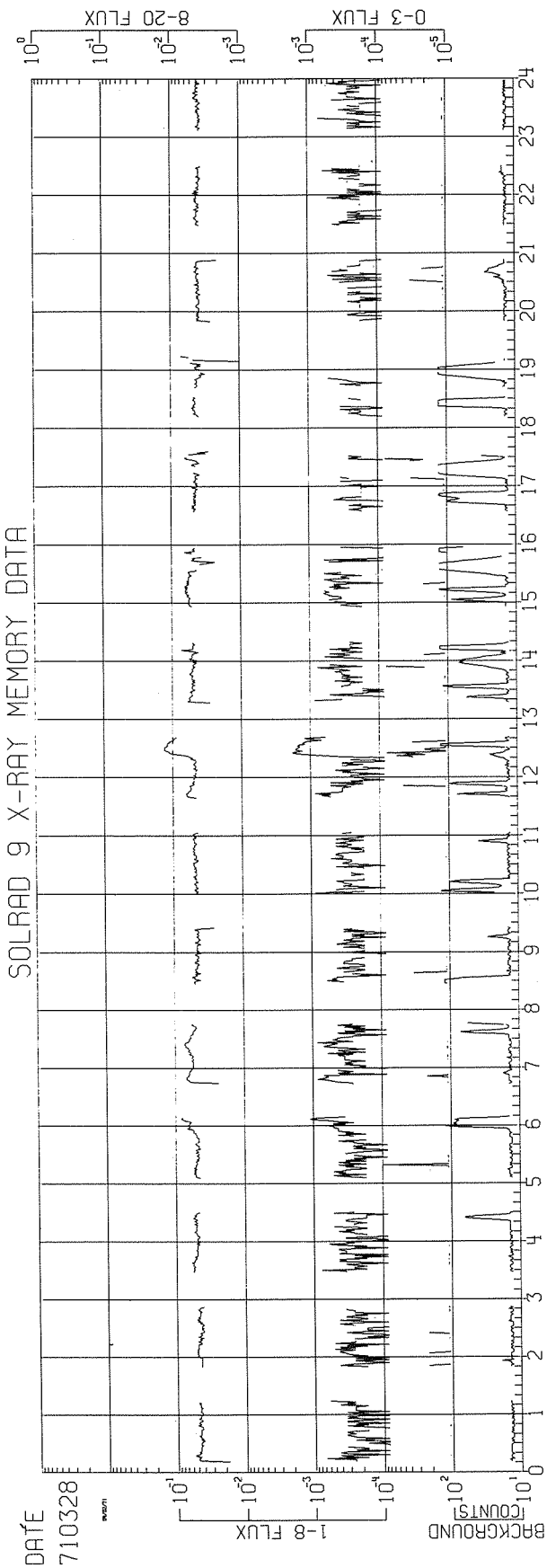
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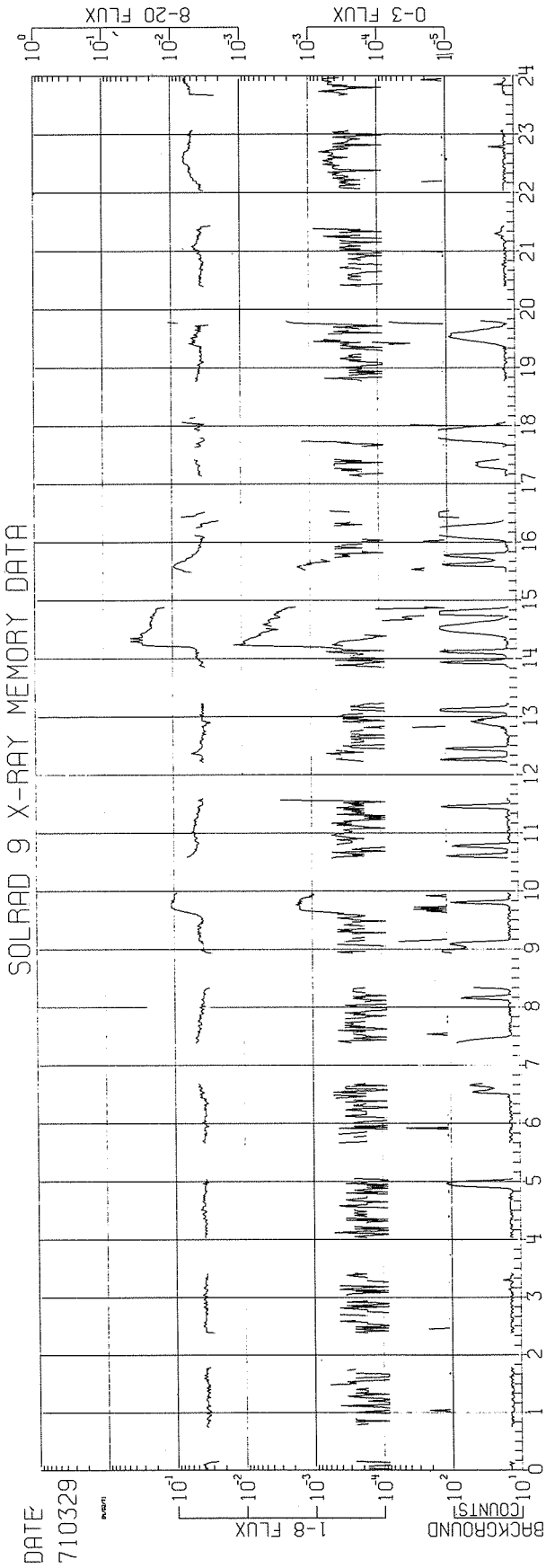
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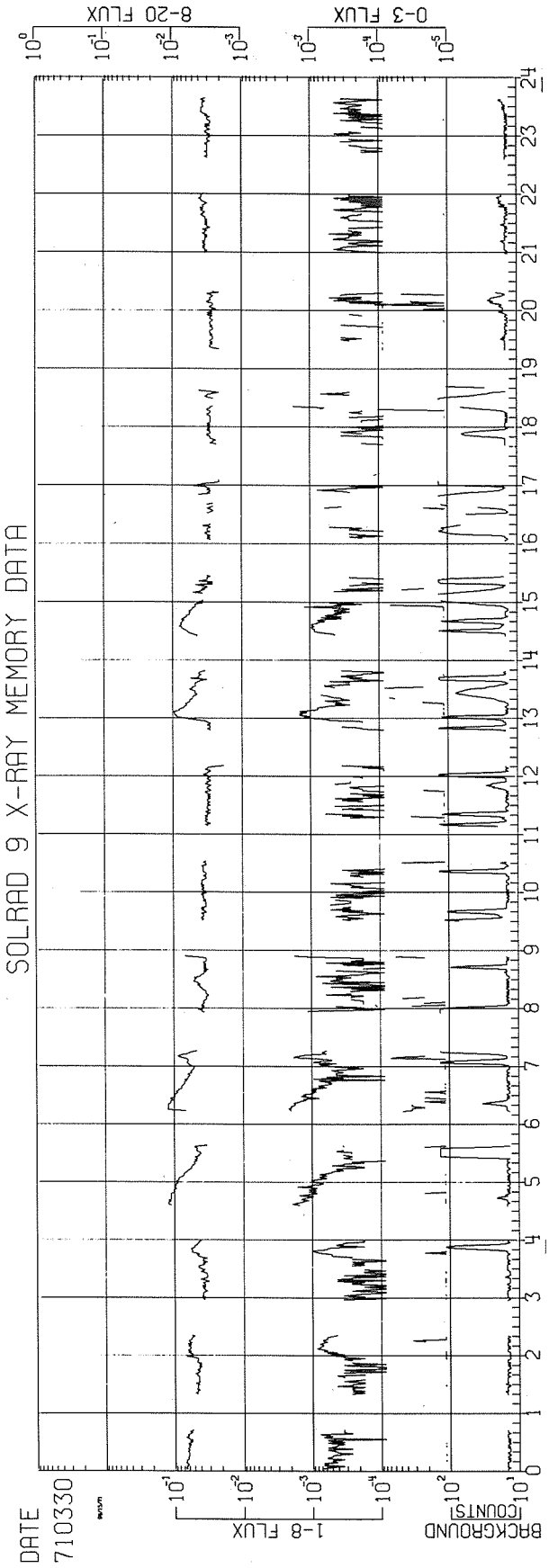
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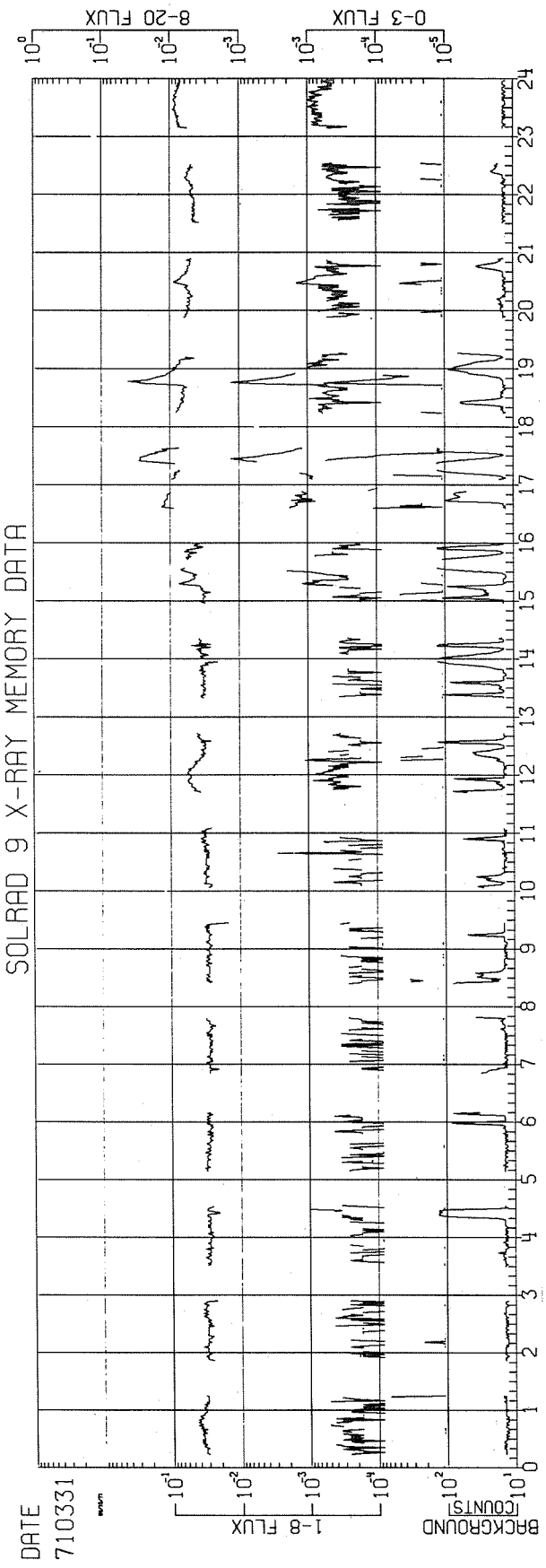
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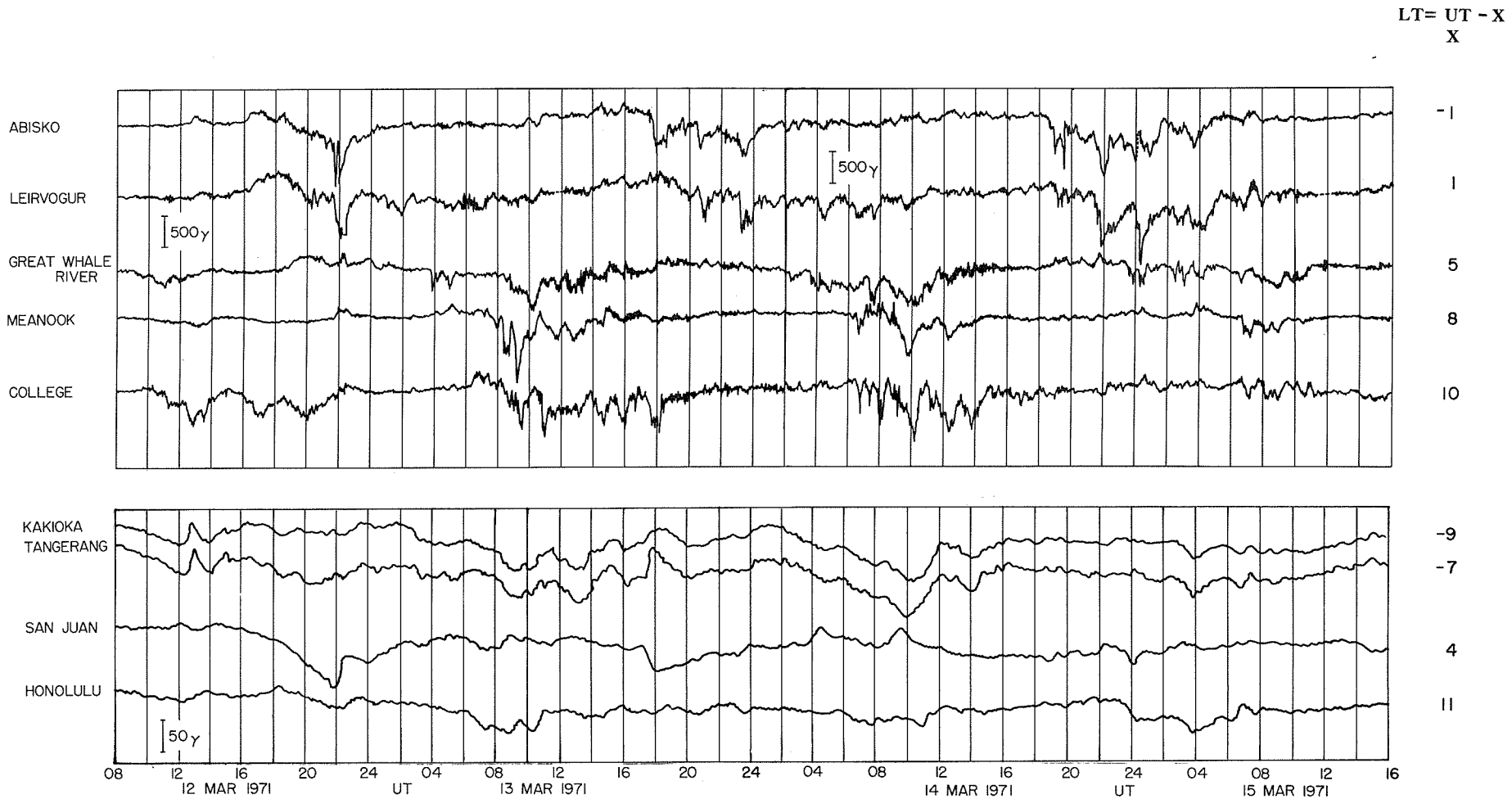
MAGNETOGRAMS OF GEOMAGNETIC STORMS

12-15 MARCH 1971



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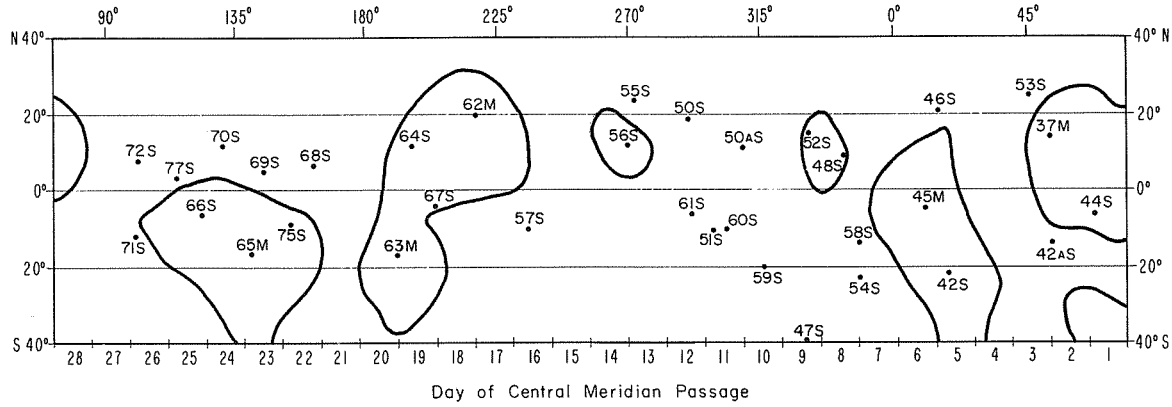
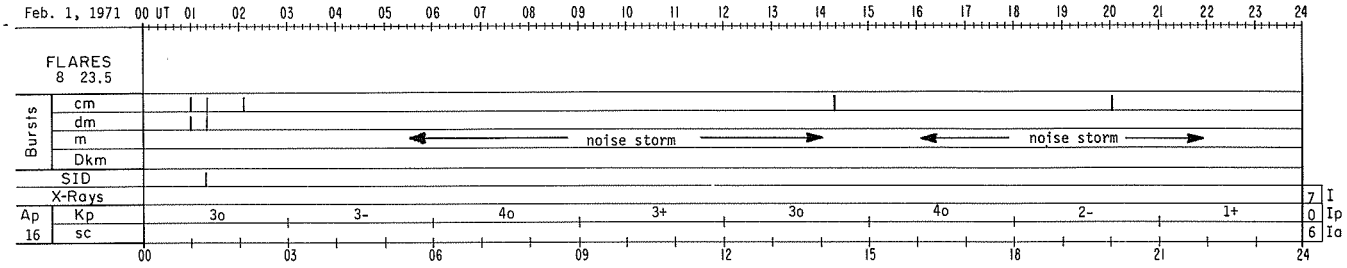
For explanations of the data contained herein see "Descriptive Text" published in February 1971.

ABBREVIATED CALENDAR RECORD

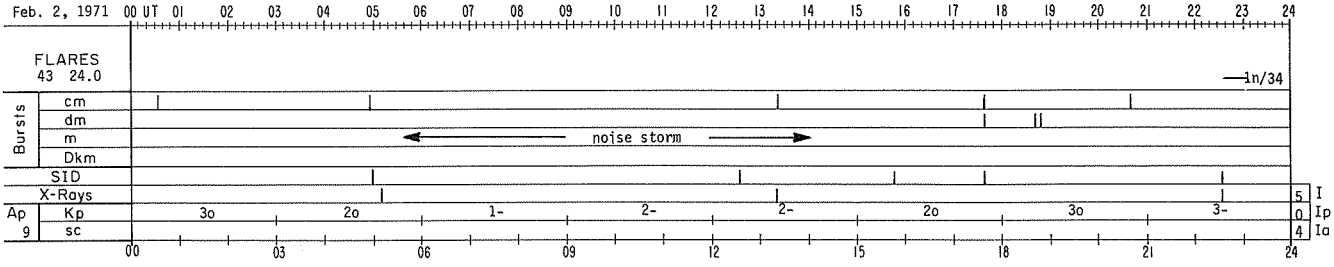
FEBRUARY 1971





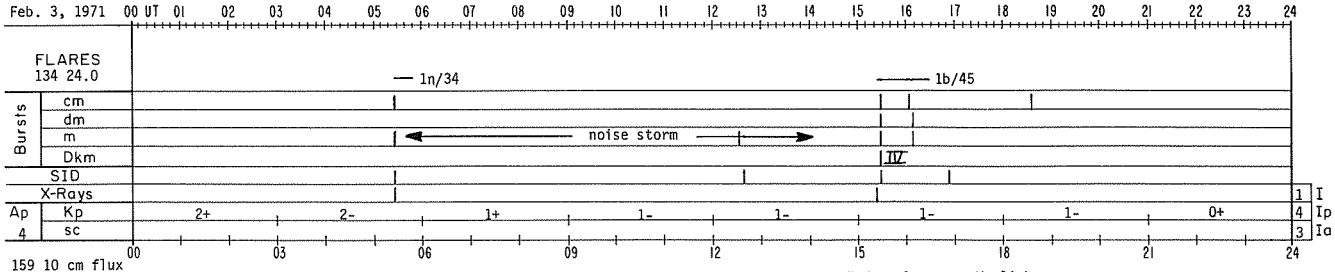
170 10 cm flux
77 Rz
CMP 11144 S07 (4)

No coronal data 7 days earlier on E. limb, br. green corona 7 days later on NW and SW limb.



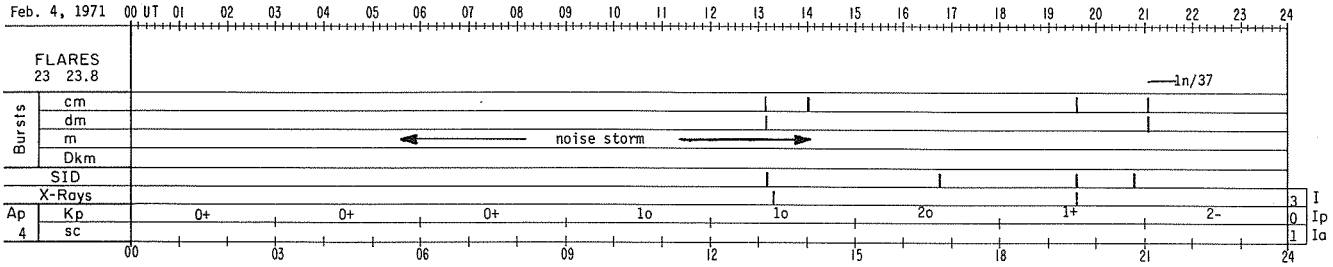
165 10 cm flux
78 Rz

No coronal data 7 days earlier on E. limb, very br. green corona 7 days later on NW limb and moderately br. green corona 7 days later on SW limb.



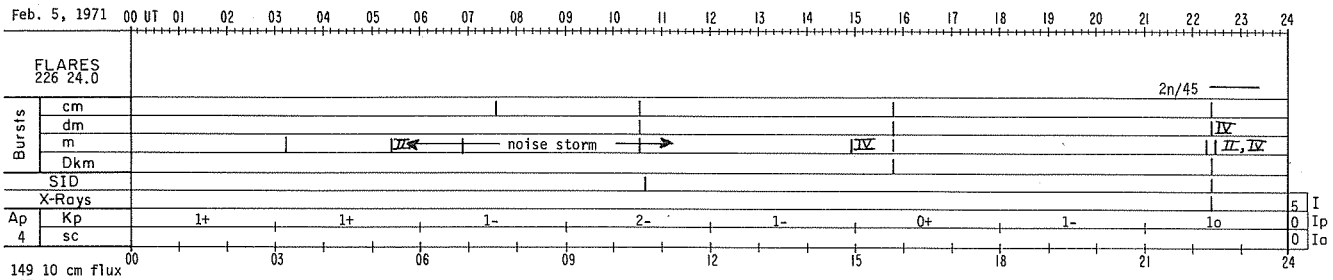
159 10 cm flux
68 Rz
CMP 11137 N13 (1,4&5) 18304 N07 (βγ)5
(18310) N23 (αp)2
(11142A) S14 (18321) S15 (αf)1
(11153) N25 18315 N24 (αp)1

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



153 10 cm flux
80 Rz

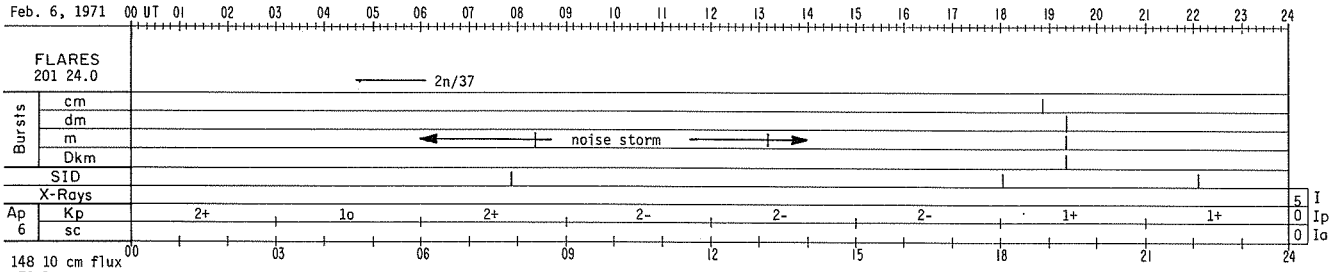
One of five most magnetically quiet days; moderately br. green corona 7 days earlier on NE limb and 7 days later on NW limb.



149 10 cm flux
65 Rz
CMP 11142 S22 (2)

18312 S20 (αp)1
(18314) S17
(18316) S26 (αp)1
(18322) S22 (αf)2

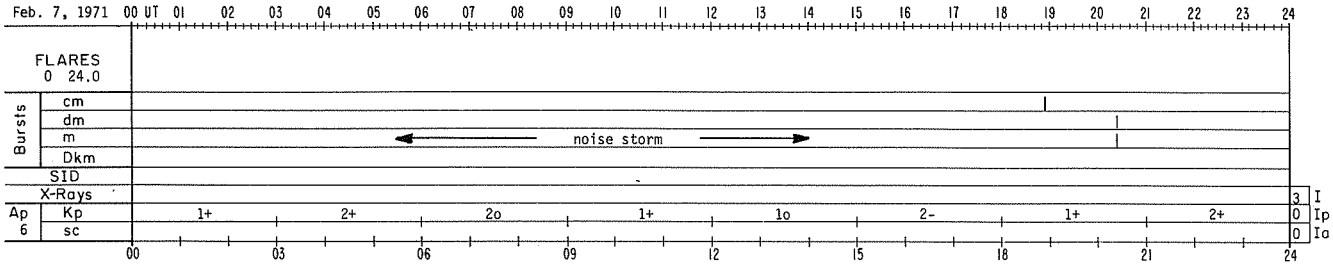
One of five most magnetically quiet days; moderately br. green corona 7 days later on NW limb.



148 10 cm flux
73 Rz
CMP 11146 N21 (4)
11145 S06 (2)

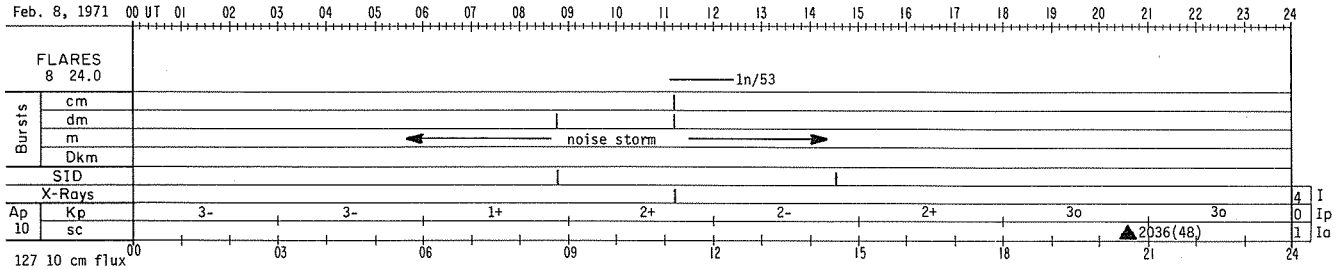
18313 S06 (αp)6

One of ten most magnetically quiet days; moderately br. green corona 7 days earlier on NE and SE limb and 7 days later on NW and SW limb.



137 10 cm flux
75 Rz

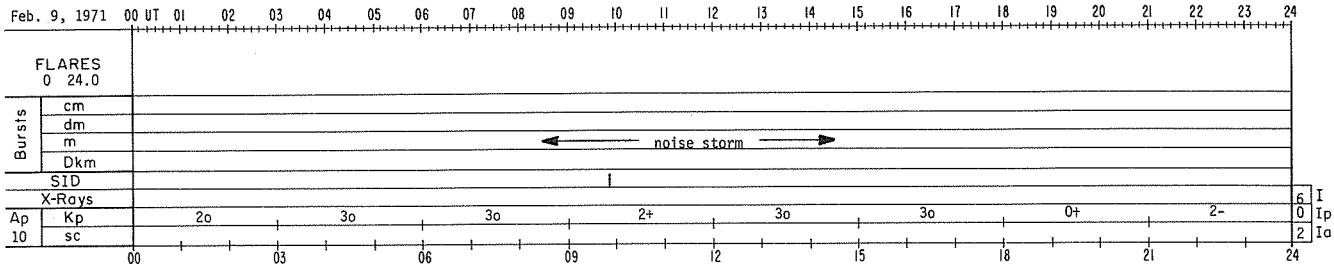
One of ten most magnetically quiet days; no coronal data 7 days earlier on E. limb, moderately br. green corona 7 days later on NW limb.



127 10 cm flux
60 Rz
CMP (11154) S23
(11158) S14
11148 N09

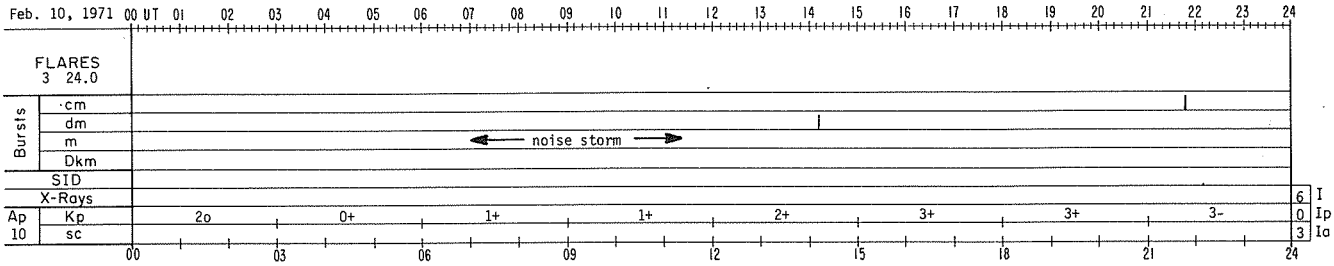
(18323) S23 (β)2 CMP Feb. 7
(18326) S14 CMP Feb. 7
18318 N09 (β)2

No coronal data 7 days later on W. limb.



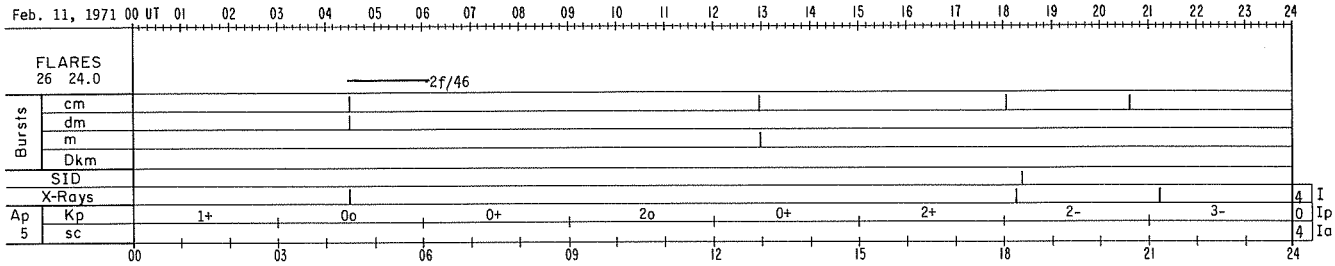
114 10 cm flux
37 Rz
CMP 11152 N15 18320 N15 (βf)3
11147 S40 (18319) S37 (αp)2

Moderately br. green corona 7 days earlier on NE limb, no coronal data 7 days later on W. limb.



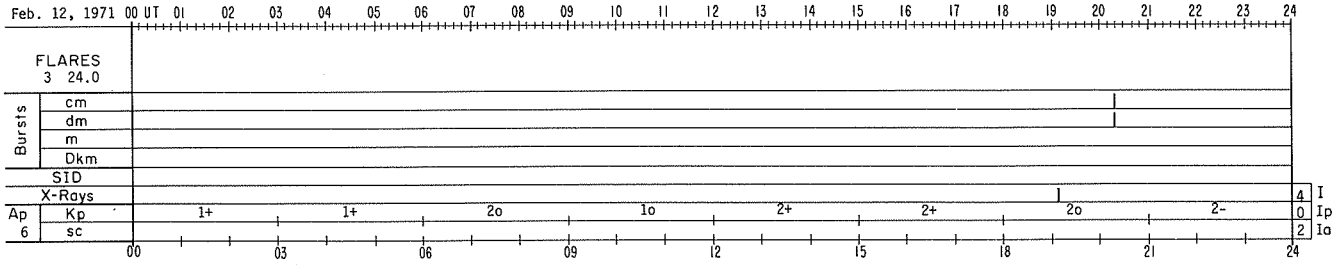
112 10 cm flux
37 Rz
CMP (11159) S20

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



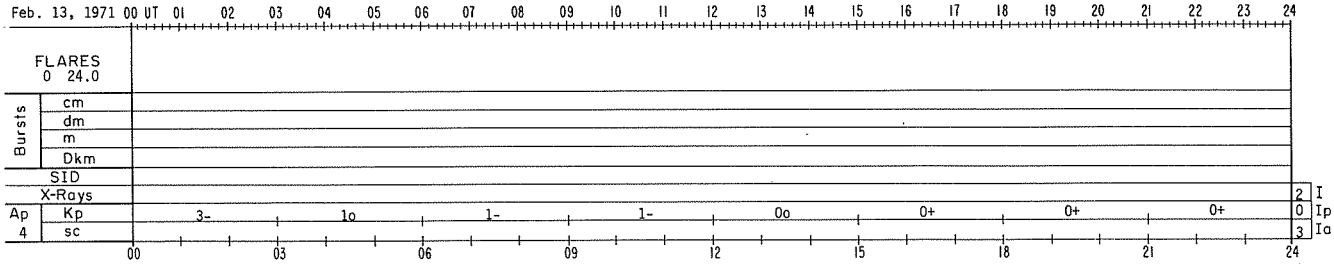
113 10 cm flux
62 Rz
CMP (11150A) N11
11160 S10 18324 S10 (αp)3
(11151) S10

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



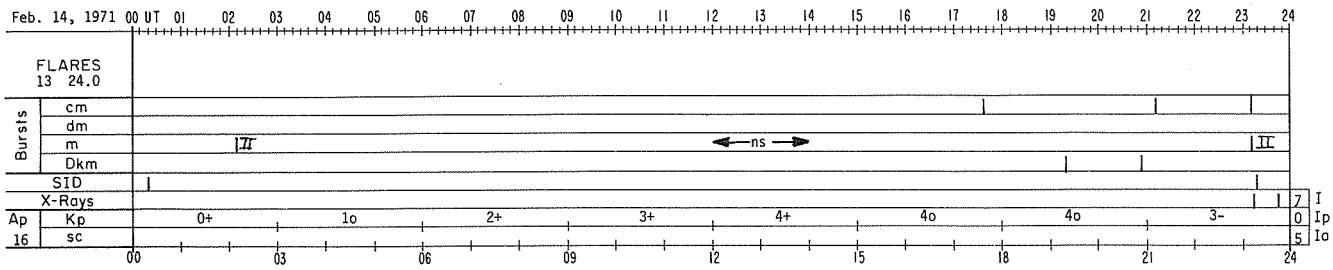
114 10 cm flux
50 Rz
CMP (11161) S06
11150 N19 (3) 18317 N19 (αf)3

One of ten most magnetically quiet days; moderately br. green corona 7 days earlier on NE limb, no coronal data 7 days later on W. limb.



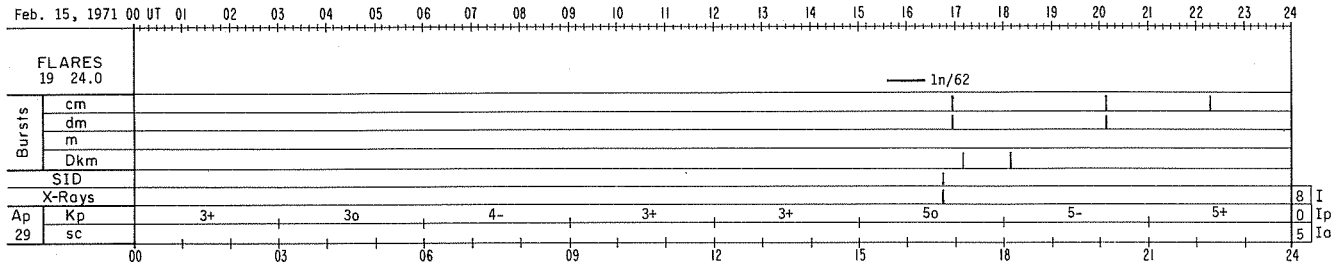
116 10 cm flux
63 Rz
CMP (11155) N23 (3)

One of five most magnetically quiet days, extremely quiet after 1500; moderately br. green corona 7 days earlier on NE limb, no coronal data 7 days later on W. limb.



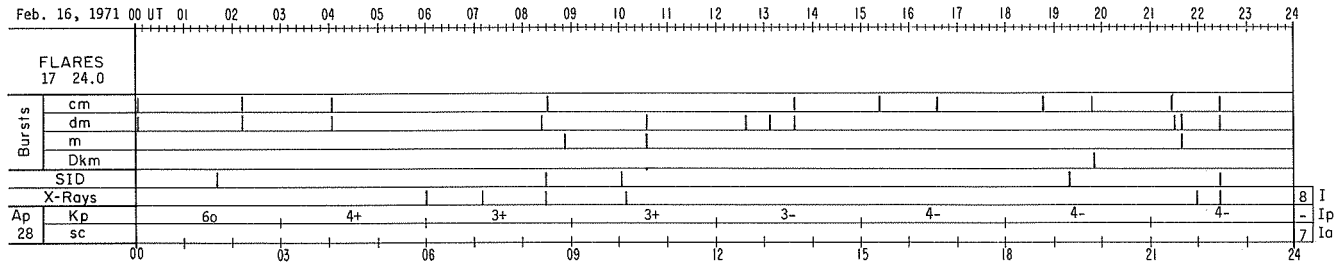
118 10 cm flux
60 Rz
CMP 11156 N12 (4&1) 18329 N14 (β)2
(18330) N06 CMP Feb. 13

One of five most magnetically disturbed days with slight to moderate activity after 0900; auroral glow over W. Europe, low on horizon, visible at ϕ = 59° 1950; no coronal data 7 days earlier on E. limb.



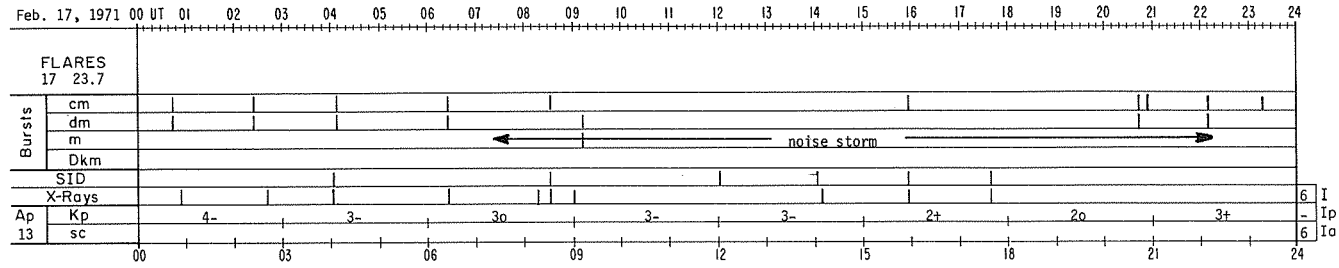
120 10 cm flux
69 Rz

One of five most magnetically disturbed days, beginning with slight activity and increasing to moderate activity after 1500; aurora overhead over USSR at ϕ = 57° 2200-0600, homogeneous auroral arcs, bases overhead over W. Europe at ϕ = 65° and 68° 2200, becoming rayed band, base overhead at ϕ = 66° about 2230, later changing to bright rayed arc and lasting until at least 0150; moderately br. green corona 7 days earlier on NE and SE limb and 7 days later on NW limb.



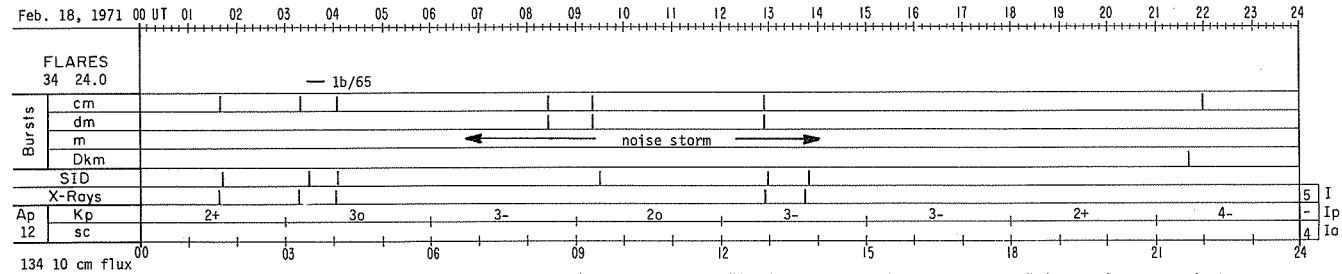
133 10 cm flux
66 Rz
CMP 11157 S10 (3)

One of five most magnetically disturbed days, with activity moderate at beginning but decreasing to slight-to-moderate; aurora overhead over USSR at ϕ = 57° 0000-0600 and 1800-0400, bright rayed auroral arc overhead over W. Europe at ϕ = 66°, lasting until at least 0150; br. green corona 7 days earlier on NE limb, moderately br. green corona 7 days earlier on SE limb and 7 days later on NW limb.



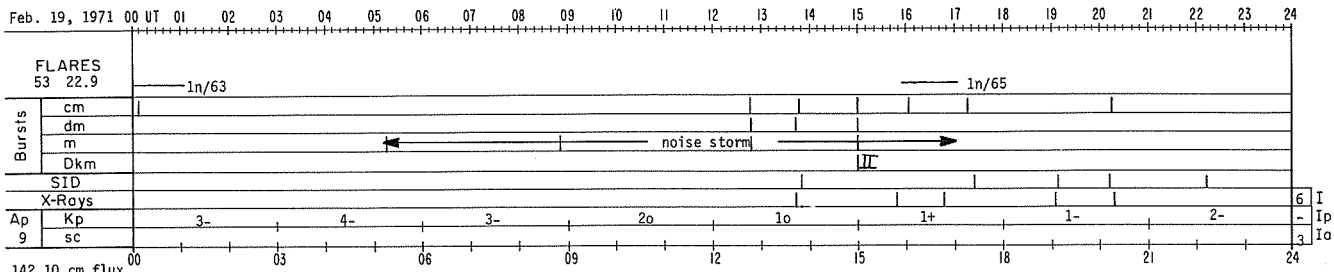
136 10 cm flux
62 Rz

Aurora overhead over USSR at ϕ = 57° 0000-0400 and ϕ = 48° 2100-2400; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



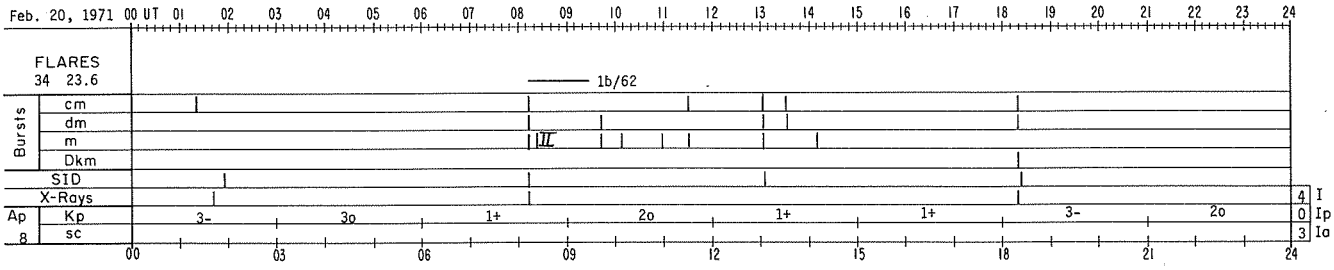
134 10 cm flux
68 Rz
CMP 11162 N20 (2) 18325 N17 (αp)4 CMP Feb. 17
18327 N20 (αp)5
(18334) N21 (βp)4 CMP Feb. 16

Aurora overhead over USSR at ϕ = 57° 0000-0400; very br. green corona 7 days earlier on NE limb, br. green corona 7 days later on NW and SW limb, moderately br. green corona 7 days earlier on SE limb.



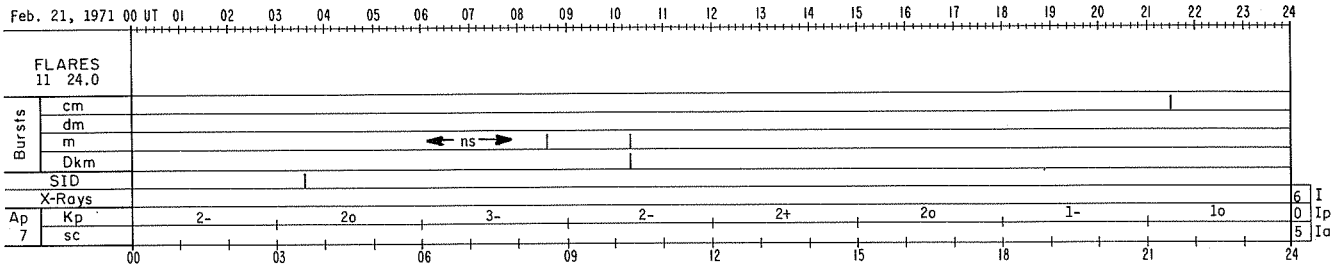
142 10 cm flux
87 Rz
CMP (11167) S04
11164 N12 (3) 18336 N10 (β)1

Aurora overhead over USSR at ϕ = 59° 0000-0300, auroral glow over W. Europe on horizon visible to ϕ = 59° 0350; br. green corona 7 days earlier on NE limb and 7 days later on NW limb, moderately br. green corona 7 days earlier on SE limb and 7 days later on SW limb.



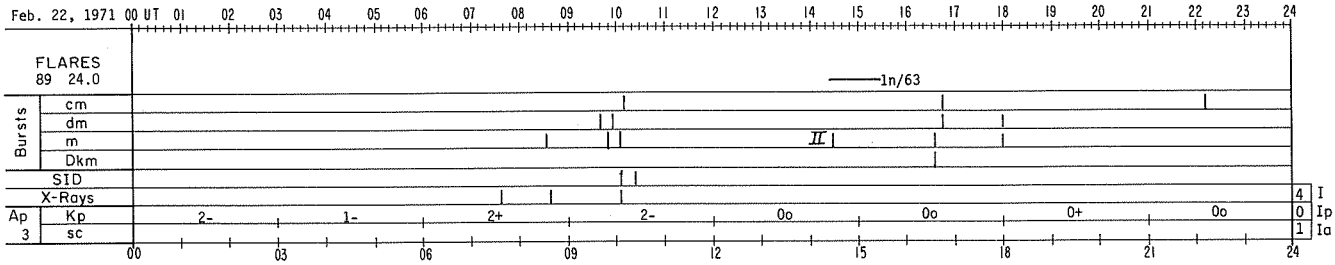
139 10 cm flux
91 Rz
CMP 11163 S17 (3) 18328 S13 (αp)5 CMP Feb. 19
18331 S13 (αp)3
(18337) S11 (β)1 CMP Feb. 21

Br. green corona 7 days earlier on NE and SE limb, no coronal data 7 days later on W. limb.



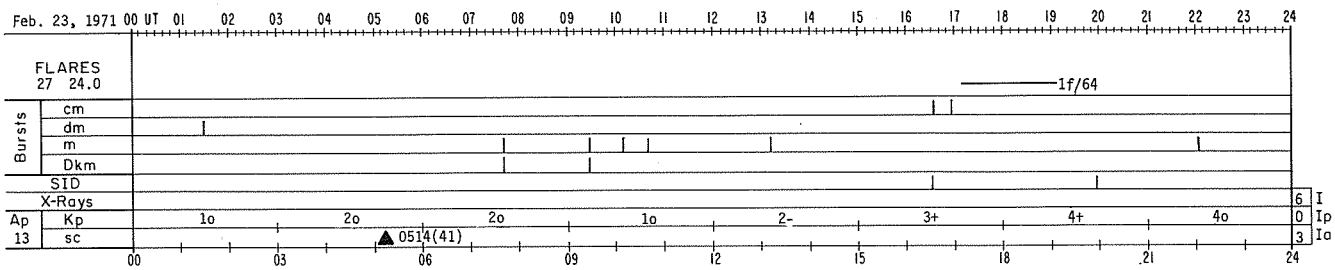
139 10 cm flux
91 Rz

Moderately br. green corona 7 days earlier on NE and SE limb, no coronal data 7 days later on W. limb.



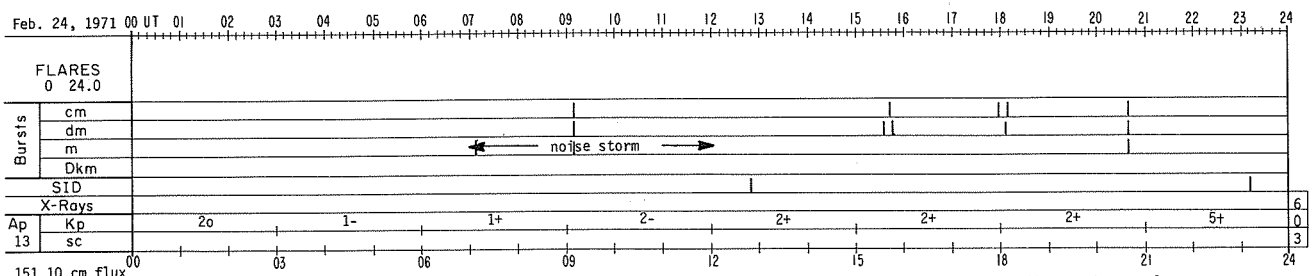
147 10 cm flux
100 Rz
CMP (11168) N07 (18341) N06 (αp)1
(11175) S08

One of five most magnetically quiet days, extremely quiet from 1500; no coronal data 7 days earlier on E. limb, br. green corona 7 days later on SW limb.



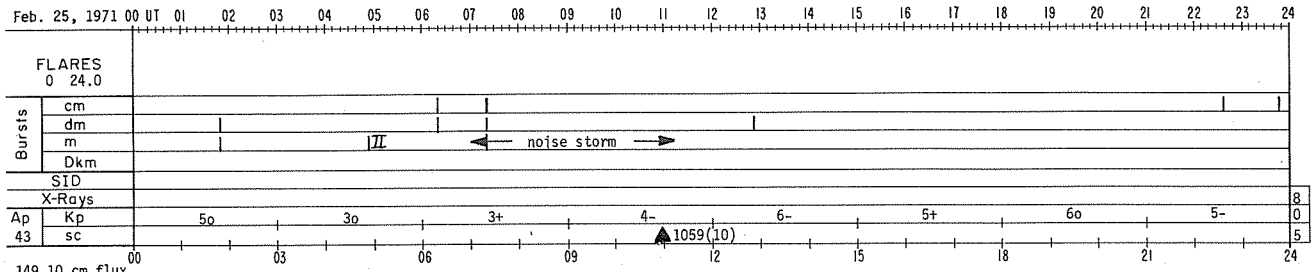
146 10 cm flux
87 Rz
CMP (11169) N05 (18339) N06 (β)3
11165 S16 18332 S18 (β)4

Auroral glow on horizon over W. Europe visible to ϕ = 59° 2050-2300; no coronal data 7 days earlier on E. limb, moderately br. green corona 7 days later on NW and SW limb.



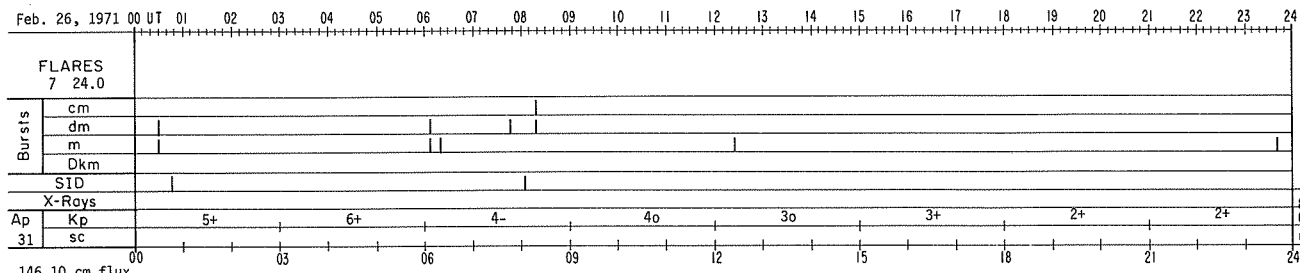
151 10 cm flux
98 Rz
CMP 11170 N12

Aurora overhead over USSR at ϕ = 57° 0000-0400, ϕ = 56° 0200, ϕ = 59° 0500-0700 and 2200-0200, rayed auroral band over W. Europe, base overhead at ϕ = 67° 2250 with rays overhead at ϕ = 63°, moves southward to base overhead at ϕ = 65° by 0050, visible to ϕ = 58°; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



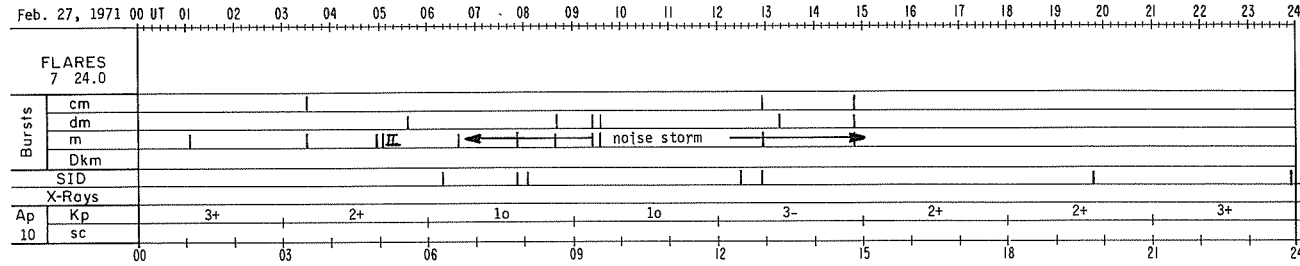
149 10 cm flux
93 Rz
CMP 11166 S06 18333 S09 (βp)6
(11177) N03 (18345) N01 (β)4

One of five most magnetically disturbed days with moderately severe storm after the sc at 1059; aurora overhead over USSR at ϕ = 59° 0000-0200, 0300-0500, ϕ = 55° 0300, ϕ = 49° 1800-0400, rayed auroral band over W. Europe with base overhead at ϕ = 65° by 0050, visible to ϕ = 58°, homogeneous and striated auroral arc, sometimes rayed, base overhead at ϕ = 64° 1800 and 2000, moving northward to ϕ = 65° by 2000, visible to ϕ = 58° and later concealed by cloud; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



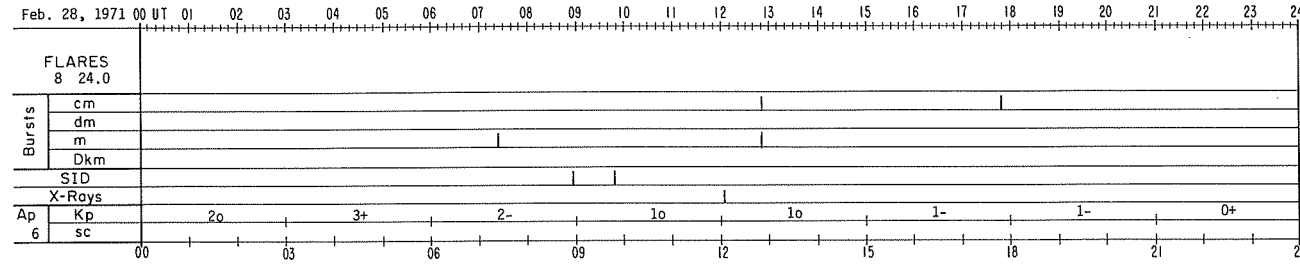
146 10 cm flux
69 Rz
CMP 11172 N08 (3)
11171 S12 (2) 18335 S10 (αp)5
(18342) S04 (αf)2
(18344) S13 (αp)1

One of five most magnetically disturbed days with moderate activity to 1200; aurora overhead over USSR at ϕ = 49° 0000-0400 and at ϕ = 54° 2000-0400; no coronal data 7 days earlier on E. limb.



143 10 cm flux
66 Rz

Aurora overhead over USSR at ϕ = 54° 0000-0400; moderately br. green corona 7 days earlier on NE and SE limb, no coronal data 7 days later on W. limb.



139 10 cm flux
71 Rz

One of ten most magnetically quiet days.

REGIONAL FLARE INDEX

FEBRUARY 1971

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
11137	N13	71/02/03.0	71/01/27	71/02/06	255.60	23.24	10
11153	N25	71/02/03.5	71/02/05	71/02/08	29.00	7.25	5
11146	N20	71/02/06.1	71/02/11	71/02/11	24.85	24.85	1
11145	S 5	71/02/06.3	71/02/03	71/02/10	331.87	41.48	7
11152	N15	71/02/09.4	71/02/12	71/02/14	8.52	2.84	4
11156	N13	71/02/14.0	71/02/15	71/02/18	26.30	6.57	4
11162	N20	71/02/18.0	71/02/11	71/02/22	90.53	7.54	10
11164	N12	71/02/19.6	71/02/17	71/02/23	22.15	3.16	3
11163	S17	71/02/19.9	71/02/14	71/02/27	150.28	10.73	8
11165	S16	71/02/23.8	71/02/16	71/03/01	74.74	5.34	23
11173	N 4	71/02/28.7	71/02/22	71/03/08	34.55	2.30	12

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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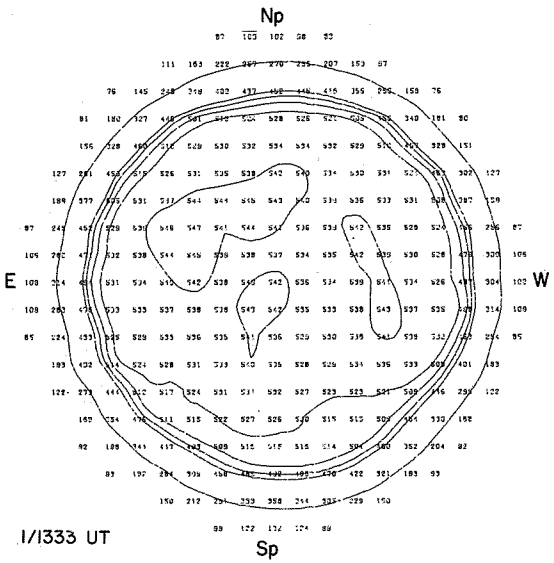
For explanations of the data contained herein see "Descriptive Text" published in February 1971.

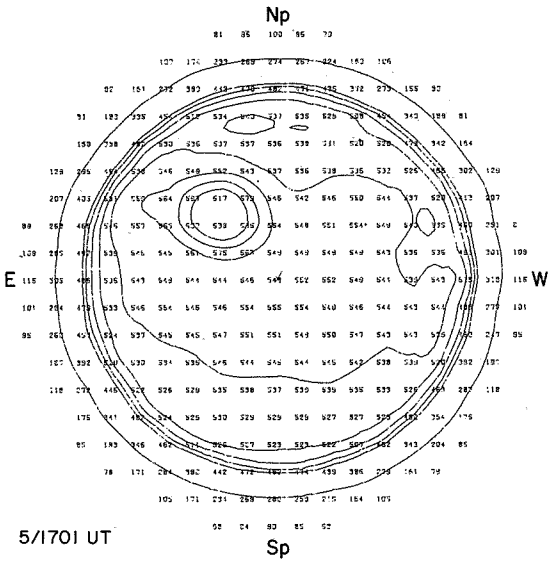
8.6 mm SPECTROHELIOGRAMS

MAY 1971

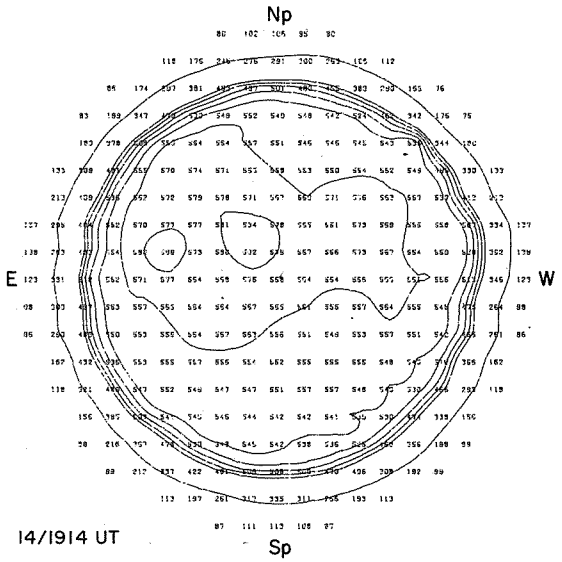
Prospect Hill



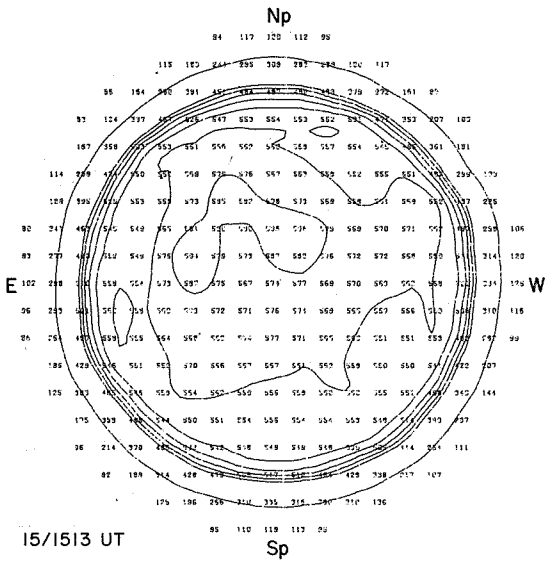
1/1333 UT



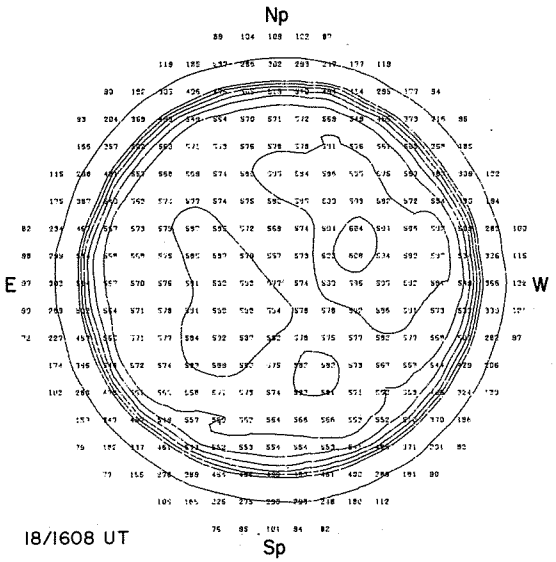
5/1701 UT



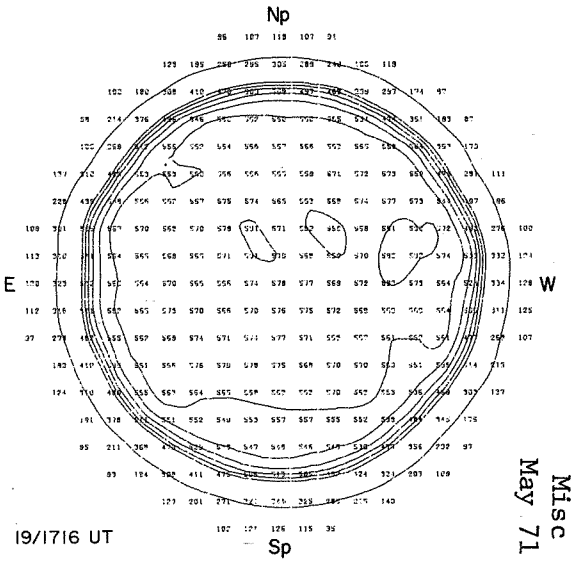
14/1914 UT



15/1513 UT



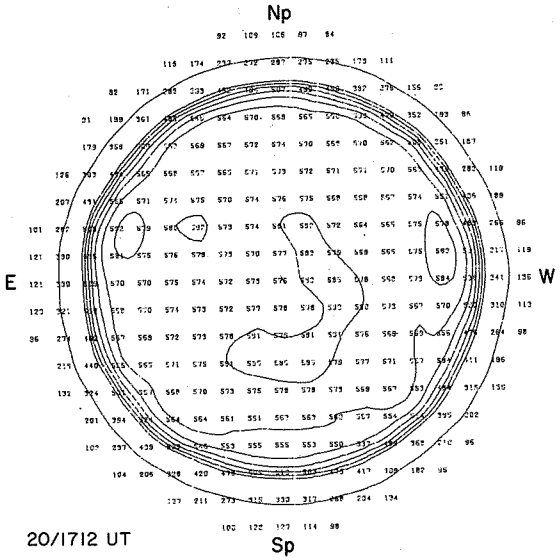
18/1608 UT



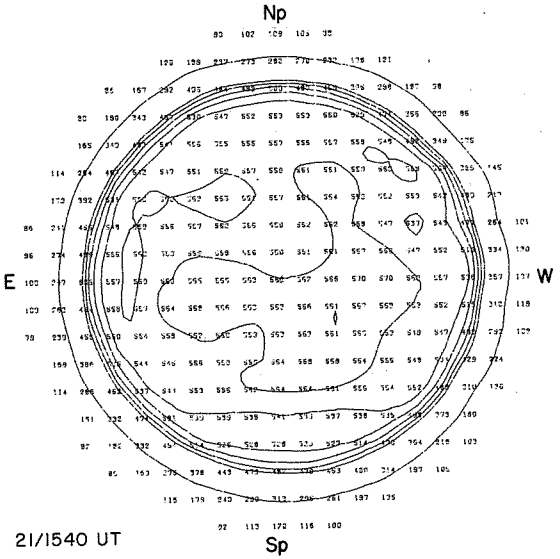
19/1716 UT

8.6 mm SPECTROHELIOGRAMS
MAY 1971

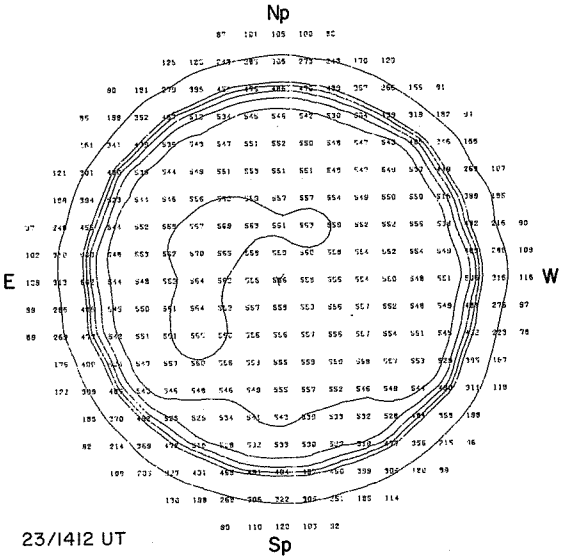
Prospect Hill



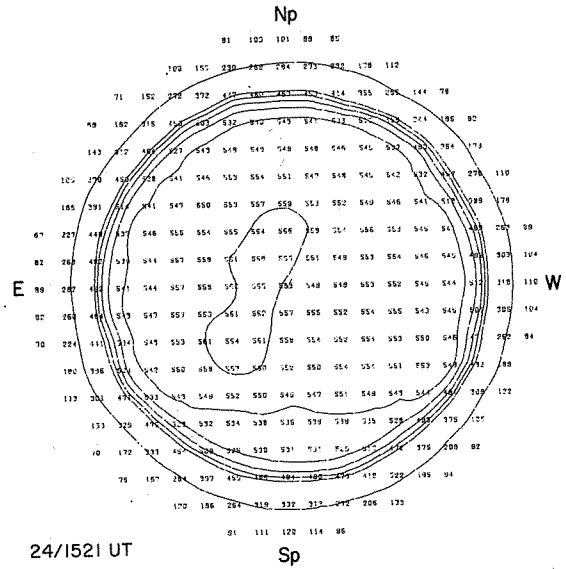
20/1712 UT



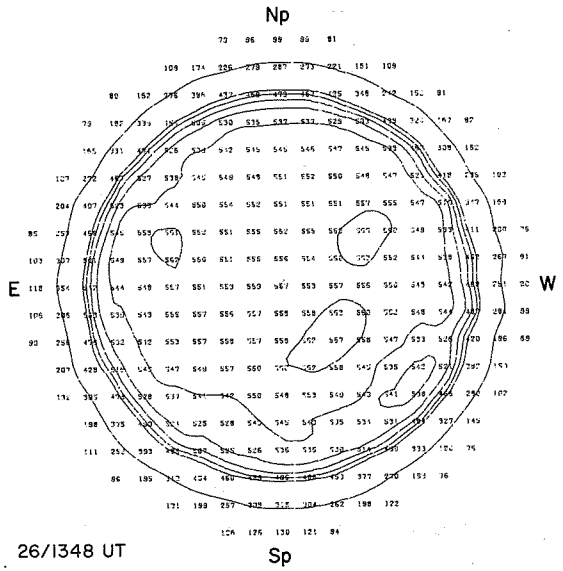
21/1540 UT



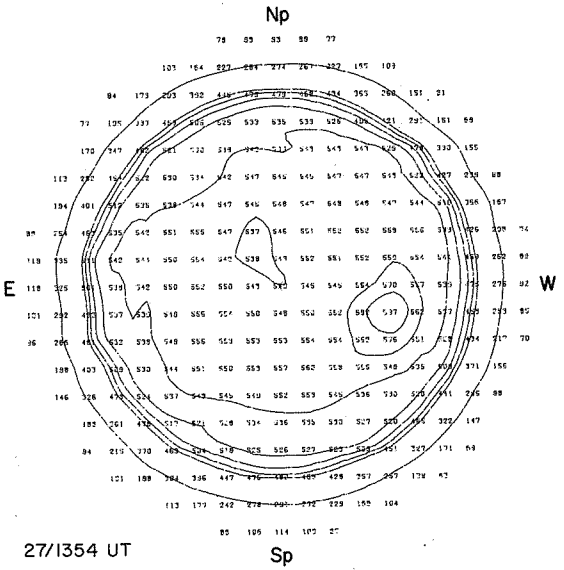
23/1412 UT



24/1521 UT



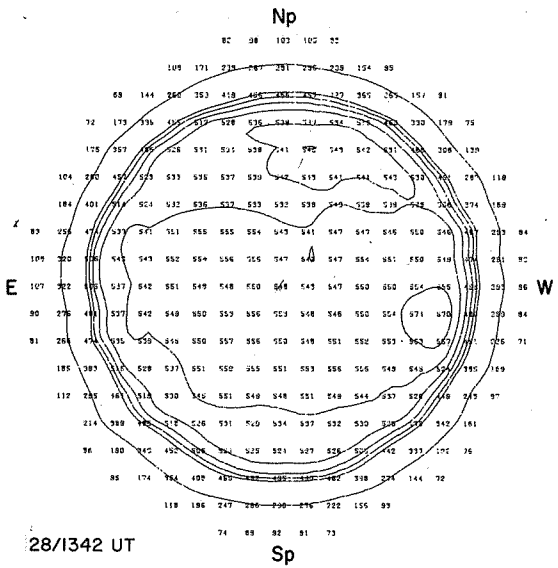
26/1348 UT



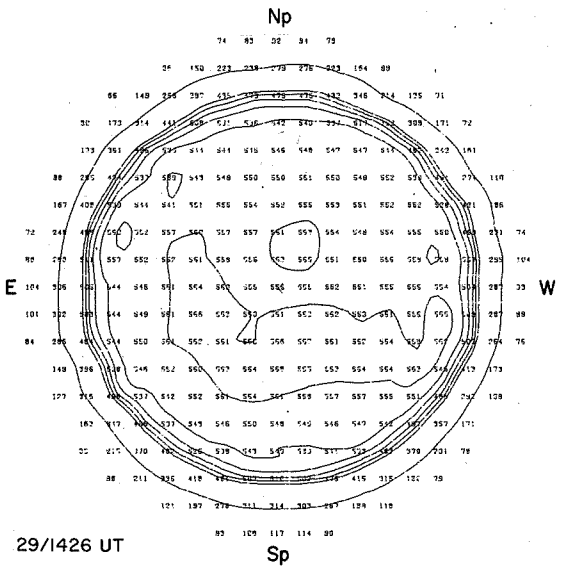
27/1354 UT

8.6 mm SPECTROHELIOGRAMS
MAY 1971

Prospect Hill



28/1342 UT



29/1426 UT

Publication Notice

WORLD DATA CENTER A - UPPER ATMOSPHERE GEOPHYSICS REPORT UAG

(Prepared by World Data Center A, Upper Atmosphere Geophysics, NOAA, Boulder, Colorado)

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Upper Atmosphere Geophysics Report UAG-1, "IQSY Night Airglow Data" by L. L. Smith, F. E. Roach and J. M. McKennan of Aeronomy Laboratory, ESSA Research Laboratories, July 1968, single copy price $1.75. [Catalog No. C52.16/2:1]

Upper Atmosphere Geophysics Report UAG-2, "A Reevaluation of Solar Flares, 1964-1966" by Helen W. Dodson and E. Ruth Hedeman of McMath-Hulbert Observatory, The University of Michigan, August 1968, single copy price 30 cents. [Catalog No. C52.16/2:2]

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