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(Comprehensive Reports)

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MARCH 1971
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WASHINGTON, D.C.

OCTOBER 1971

S O L A R - G E O P H Y S I C A L D A T A

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published in February 1971.

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SOLAR FLARES

Confirmed

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1971 APR																	
398 TEHR	01	0310	0321	0310	S22	W12	.331	11221	31.2	11	--N	2	C		.36			D 4
399 TEHR	01	0311	0324	0312	N12	E17	.424	11225	2.4	13	--F	2	C		.28			D 4
GRP37401 CRON MANI TEHR	01	0553	0615	0557	S18	W11	.270	11221	31.4	22	-B				.85			3 3 3 4
	01	0551	0613	0554	S17	W11	.259	11221	31.4	22	-B	1	C	0554	.75	.75		
	01	0554	0617	0554	S19	W12	.294	11221	31.3	23	-B	1		0554	1.24	1.30		
	01	0602E	0616	0602	S19	W11	.283	11221	31.4	140	-N	3	C		.55			FD
GRP37402 MANI CRON	01	0830	0843	0832	S19	W12	.294	11221	31.5	13	--N				.47			2 2 2 6
	01	0830	0840	0832	S19	W13	.305	11221	31.4	10	-N	1		0832	.62	.65		
	01	0830	0845	0832	S19	W11	.283	11221	31.5	15	-N	2	C	0832	.32	.32		
403 KHAR	01	1035E	1041		S08	W49	.750	11219	28.8	60	1N		V	1036			2.10	DH 2
12 STATIONS REPORTING GROUP 37405. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37405 MCMA KIEV BOUL CATA ZURI LOCA	01	1300	1422	1322	S20	W12	.306	11221	31.6	82	1N				2.91			6 6 5 9
	01	1255	1352D	1327	S20	W12	.306	11221	31.6	570	-B							
	01	1305	1402	1323	S20	W14	.328	11221	31.5	57	2F		C	1323	5.16	5.60		60 EK
	01	1309E	1431	1321	S20	W13	.316	11221	31.6	820	1N	2	C	1321	2.15	2.28		
	01	1310E	1430D	1317	S21	W11	.308	11221	31.7	800	1B		P	1317	2.20	2.30		216
	01	1316E	1430	1320	S20	W11	.295	11221	31.7	740	1N		P	1320	2.31	2.40		
	01	1323E	1415	1323	S20	W13	.316	11221	31.6	520	1N		V	1323	2.73	2.80		
37405 MCMA MEUD CANR ATHN	01	1300	1416	1317	S19	W12	.294	11221	31.6	76	*-N				1.60			4 3 3 9
	01	1255	1352D	1307	S20	W12	.306	11221	31.6	570	-B		C	1327	1.55	1.60		EK
	01	1300	1343D		S19	W12	.294	11221	31.6	430	1N		C	1313	2.17	2.20		F
	01	1304	1416	1309	S19	W11	.283	11221	31.7	72	-N	2	C	1309	1.08	1.20		
	01	1335E	1335D	1335	S20	W15	.339	11221	31.4		2N	1		1335	6.60	13.40	.34	
37405 WEND LVOV CAPS	01	1350	1429	1351	S18	W14	.306	11221	31.5	39	*2N				10.83			3 2 2 12
	01	1319E	1432D		S17	W14	.296	11221	31.5	730	3N		P		16.50			
	01	1350	1426	1351	S19	W14	.317	11221	31.5	36	2N		P	1351	5.16	5.30		68 BC
	01	1414E	1455		S19	W14	.317	11221	31.5	410	-N	1	S	1414	1.20	1.30		176
GRP37408 LOCK BOUL	01	1635	1643	1638	S18	W19	.371	11221	31.3	8	--F							2 1 0 4
	01	1635	1643	1638	S18	W19	.371	11221	31.3	8	-F		C					
	01	1638	1711	1654	S18	W19	.371	11221	31.3	33	-F	2	V					
GRP37409 BOUL LOCK PALE	01	1726	1745	1732	S19	W19	.379	11221	31.3	19	--F				.37			3 3 2 4
	01	1725	1742	1733	S20	W19	.388	11221	31.3	17	-F	1	C	1733	.11	.12		
	01	1727	1748	1729	S18	W19	.371	11221	31.3	21	-F		C					
	01	1734E	1745D	1734	S20	W18	.375	11221	31.4	110	-N	2	C		.62			F
GRP37410 LOCK BOUL HUAN HUAN PALE	01	1847	1941	1903	S20	W21	.413	11221	31.2	54	--N				.59			4 3 3 4
	01	1845	1910	1850	S19	W21	.406	11221	31.2	25	-F		C					
	01	1846U	1916U	1901U	S19	W20	.392	11221	31.3	300	-N	1	C	1901	.54	.58		
	01	1847	1921D	1900	S20	W22	.426	11221	31.1	340	-N	1	P	1900	.25	.27		E
	01	1906	1912	1909U	S22	W22	.442	11221	31.1	6	-F	1	P	1909	.07	.08		D
	01	1907E	1941D	1907	S20	W20	.401	11221	31.3	340	-N	2	C		.99			DZ
GRP37411 LOCK BOUL PALE HUAN	01	2005	2026	2010	S19	W21	.406	11221	31.3	21	--F				.55			4 3 1 4
	01	2005	2020	2010	S19	W21	.406	11221	31.3	15	-F		C					
	01	2005	2025	2011	S18	W20	.385	11221	31.3	20	-F	2	V					
	01	2006	2034D	2009	S20	W21	.413	11221	31.3	280	-N	2	C		.55			D
	01	2031	2051	2037	S19	W17	.353	11221	31.6	20	-F	1	C	2037	.28	.30		
GRP37413 LOCK BOUL PALE	01	2143	2204	2153	S19	W22	.419	11221	31.3	21	--N				.55			3 3 1 3
	01	2140	2205	2151	S19	W21	.406	11221	31.3	25	-F		C					
	01	2142	2205	2153	S18	W21	.398	11221	31.3	23	-N	1	V					
	01	2146	2203	2156	S19	W23	.432	11221	31.2	17	-N	2	C		.55			D
GRP37417 BOUL LOCK CRON VORO MANI	02	0027	0044	0029	S20	W23	.440	11221	31.3	17	--N				.30			5 5 3 7
	02	0025	0046D	0030	S18	W23	.426	11221	31.3	210	-F	1	V					
	02	0027	0052	0029	S19	W21	.406	11221	31.4	25	-N		C					
	02	0027	0046	0028	S20	W25	.466	11221	31.1	19	-N	2	C	0028	.22	.24		
	02	0028	0038	0029	S21	W24	.460	11221	31.2	10	-F		C	0029	.46	.50		81 D
	02	0028	0038	0030	S20	W24	.453	11221	31.2	10	-N	2		0030	.21	.23		
GRP37419 CRON PALE	02	0210	0238	0218	S20	W24	.453	11221	31.3	28	--N				.48			2 2 2 6
	02	0208	0238	0223U	S20	W24	.453	11221	31.3	30	-N	1	C	0223	.32	.36		
	02	0212	0225D	0213	S20	W24	.453	11221	31.3	130	-N	2	C		.63			FD
GRP37425 CANR CRON HTPR MANI CATA	02	0925	0936	0929	S21	W24	.460	11221	31.6	11	--N				.53			5 5 5 6
	02	0924	0932	0928	S21	W23	.447	11221	31.7	8	-N	2	C	0928	.43	.48		
	02	0925	0938	0928	S20	W24	.453	11221	31.6	13	-N	1	C	0928	.54	.60		
	02	0925	0933	0926	S20	W24	.453	11221	31.6	8	-N		C	0926	.52	.50		E
	02	0925E	0936	0927	S20	W24	.453	11221	31.6	110	-N	2		0927	.41	.50		
	02	0935D	0940D	0935	S23	W23	.463	11221	31.7	50	-N		P	0935	.75	.85		197

SOLAR FLARES
Confirmed
APRIL 1971

OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
1971 APR																		
5 STATIONS REPORTING GROUP 37426. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37426	02	1407	1525	1410	S20	W31	.544	11221	31.3	78	--N			.52			3 3 3 5	
MCMA	02	1407E	1525D	1410	S20	W31	.544	11221	31.3	78D	-N		C	1410	.52	.60	EKL	
BOUL	02	1407U	1430U	1410U	S20	W31	.544	11221	31.3	23D	-N	1	C	1410	.43	.51		
MEUD	02	1413E	1418D		S19	W32	.552	11221	31.2	5D	-F		C	1415	.62	.70	E	
37426	02	1407E	1532	1503	S19	W31	.539	11221	31.3	85	*-N			.43			4 3 1 6	
MCMA	02	1407E	1525D	1502	S20	W31	.544	11221	31.3	78D	-N							
BOUL	02	1447U	1534D	1458	S19	W30	.526	11221	31.4	47D	-N	1	C	1458	.43	.51		
LOCK	02	1505E	1530	1510	S19	W33	.566	11221	31.2	25D	-F		C					
HUAN	02	1520E	1523D	1521U	S19	W32	.552	11221	31.2	3D	-N	1	P	1521	.33	.40	E	
GRP37427	02	1425	1457	1428	N11	E30	.568	11227	4.9	32	--N			.50			3 3 3 6	
CANR	02	1424	1442	1427	N11	E31	.580	11227	4.9	18	-F	2	C	1427	.43	.53		
BOUL	02	1425U	1505U	1428U	N11	E30	.568	11227	4.9	40D	-N	1	C	1428	.54	.65		
MCMA	02	1425	1505	1429	N12	E30	.575	11227	4.9	40	-N		C	1429	.52	.60	EL	
GRP37431	02	1829	1849	1835	S21	W30	.537	11221	31.5	20	--N			.48			3 3 2 3	
LOCK	02	1827	1850	1834	S19	W29	.513	11221	31.6	23	-N		C					
BOUL	02	1830	1848	1836	S21	W30	.537	11221	31.5	18	-N	1	C	1836	.43	.51		
MCMA	02	1831	1841D	1835	S22	W30	.542	11221	31.5	10D	-N		C	1835	.52	.60	EL	
GRP37432	02	1843	1908	1853	N11	E28	.543	11227	4.9	25	--N			.22			3 3 2 3	
LOCK	02	1843	1902	1852	N12	E28	.551	11227	4.9	19	-N		C					
BOUL	02	1844U	1913U	1857U	N10	E28	.536	11227	4.9	29D	-N	1	C	1857	.32	.38		
HUAN	02	1847E	1854D	1851	N11	E27	.531	11227	4.8	7D	-N	1	P	1851	.12	.15	E	
5 STATIONS REPORTING GROUP 37433. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37433	02	1910	1938	1912	S18	W31	.535	11221	31.5	28	-N			1.17			4 4 3 4	
BOUL	02	1904	1940D	1912U	S21	W31	.549	11221	31.5	36D	-N	1	C	1912	1.18	1.43		
HUAN	02	1908	1912D		S18	W31	.535	11221	31.5	4D	-N	2	P	1912	.89	1.05	E	
MCMA	02	1910	1939D	1912	S18	W31	.535	11221	31.5	29D	-B		C	1912	1.44	1.70	DV	
LOCK	02	1910	1938	1912	S16	W31	.527	11221	31.5	28	-N		C				V	
BOUL	02	1910	1936	1912U	S17	W30	.517	11221	31.5	26	-N	1	C	1912	.43	.50	V	
37433	02	1907	1956	1922	S19	W32	.552	11221	31.4	49	*-N			.33			3 3 2 5	
BOUL	02	1904	1940D	1920U	S20	W32	.557	11221	31.4	36D	-N	1	C	1920	.54	.65		
BOUL	02	1910	1936	1921U	S17	W30	.517	11221	31.5	26	-N	1	C	1921	.43	.50		
HUAN	02	1920E	1956	1924	S20	W34	.583	11221	31.3	36D	-N	2	P	1924	.12	.15		
PALE	02	1923E	1941D		S19	W32	.552	11221	31.4	18D	-N	1	C				F	
GRP37434	02	1919	1930	1922	S11	W19	.331	11221	1.4	11	--F			.21			3 3 1 5	
LOCK	02	1917	1930	1920	S11	W19	.331	11221	1.4	13	-F		C					
HUAN	02	1921	1927	1923	S12	W19	.334	11221	1.4	6	-F	2	C	1923	.21	.22	D	
PALE	02	1923E	1933		S11	W19	.331	11221	1.4	10D	-N	1	C				F	
GRP37435	02	2015	2022	2017	S17	W32	.544	11221	31.4	7	--F			.18			2 2 1 3	
LOCK	02	2014	2022	2017	S16	W31	.527	11221	31.5	8	-F		C					
HUAN	02	2015	2017D		S18	W32	.548	11221	31.4	2D	-N	2	P	2017	.18	.21	E	
GRP37436	02	2056	2104	2059	S18	W32	.548	11221	31.5	8	--N			.32			4 4 2 4	
LOCK	02	2055	2106	2058	S16	W31	.527	11221	31.5	11	-B		C					
MCMA	02	2056	2101	2059	S18	W33	.561	11221	31.4	5	-N		C	2059	.36	.40	DH	
HUAN	02	2058E	2105		S18	W33	.561	11221	31.4	7D	-N	2	P	2058	.28	.33	D	
PALE	02	2059E	2100D		S18	W31	.535	11221	31.5	1D	-N	1	C				F	
GRP37437	02	2143	2151	2147	S18	W32	.548	11221	31.5	8	--F			.22			2 2 1 3	
BOUL	02	2143E	2151	2143U	S20	W33	.570	11221	31.4	8D	-N	1	C	2143	.22	.26		
LOCK	02	2143	2320	2150	S16	W31	.527	11221	31.6	97	-F		C				K	
4 STATIONS REPORTING GROUP 37438. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37438	02	2143	2345	2230	S18	W34	.575	11221	31.4	122	-N			2.68			2 2 1 5	
LOCK	02	2143	2320	2230	S18	W32	.548	11221	31.5	97	-F		C				K	
CULG	02	2235E	0010		S17	W36	.598	11221	31.2	95D	1B	P	2235	2.68	3.20		ELZ	
37438	02	2255	2314	2300	S19	W34	.578	11221	31.4	19	*-N			1.24			2 2 1 5	
MANI	02	2254	2317	2256	S19	W33	.566	11221	31.5	23	-N	2		1.24	1.50			
CRON	02	2255	2310	2303	S19	W35	.591	11221	31.3	15	-N	3	V					
GRP37443	03	0636	0649	0638	S19	W38	.630	11221	31.4	13	-N			1.23			5 5 5 6	
CRON	03	0632	0643	0637	S19	W36	.604	11221	31.6	11	-N	2	C	0637	.32	.40		
ATHN	03	0635E	0645	0638	S19	W38	.630	11221	31.4	10D	-N	1		0638	.99	1.98	.67	
ABST	03	0636	0655	0638	S19	W38	.630	11221	31.4	19	1F		C	0638	2.69	3.40	54	
MANI	03	0637	0651		S17	W41	.661	11221	31.2	14	1N	2		0639	1.55	2.10	EJZ	
CATA	03	0640	0650D	0640	S20	W36	.608	11221	31.6	10D	-N		P	0640	.58	.72	178	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1971 APR																	
GRP37446	03	0924	0932	0926	S18	W39	.639	11221	31.5	8	--N			.64			6 6 5 10	
CRON	03	0923	0931	0925	S17	W38	.624	11221	31.5	8	--N	2	C	.32	.42			
ATHN	03	0924E	0928	0927	S19	W40	.654	11221	31.4	40	--N	1		.33	.66	.65		
KHAR	03	0925	0934		S14	W38	.617	11221	31.5	9	--N		V			1.80	D	
ZURI	03	0925	0929	0925	S19	W40	.654	11221	31.4	4	--N		C	.925	1.52	2.00		
ABST	03	0925E	0933	0926	S18	W39	.639	11221	31.5	80	--F		P	.926	.72	.90	55	
CATA	03	0927D	0935D	0927	S20	W37	.621	11221	31.6	80	--N		P	.927	.29	.37	174	
GRP37448	03	1209	1222	1212	S20	W40	.657	11221	31.5	13	--F			.67			2 2 2 5	
TEHR	03	1209	1220	1211	S20	W39	.645	11221	31.6	11	--F	2	C	.36			D	
CAPE	03	1209	1223	1213	S19	W40	.654	11221	31.5	14	--F		C	.98	1.30			
GRP37449	03	1248	1259	1251	S19	W39	.642	11221	31.6	11	--F			.32			2 2 2 6	
TEHR	03	1248	1259	1249	S19	W40	.654	11221	31.5	11	--N	2	C	.28			D	
RAMY	03	1253E	1259	1253	S18	W38	.627	11221	31.7	60	--F	1	C	.36			D	
GRP37451	03	1450	1459	1453	S18	W42	.676	11221	31.5	9	--F			.48			4 4 3 9	
RAMY	03	1450	1455D	1454	S19	W41	.666	11221	31.5	50	--N	1	C	.88			D	
ATHN	03	1450E	1458	1450	S17	W43	.686	11221	31.4	80	--N	1		.50	.99	.68		
BOUL	03	1451	1502	1453	S18	W41	.664	11221	31.5	11	--F	2	V					
HUAN	03	1452E	1457	1453U	S18	W43	.688	11221	31.4	50	--F	1	P	.05	.07		D	
GRP37452	03	1527	1536	1532	S19	W43	.690	11221	31.4	9	--F			.33			2 2 1 5	
LOCK	03	1526	1537	1530	S20	W42	.681	11221	31.5	11	--F		C					
ATHN	03	1528	1534	1534	S18	W43	.688	11221	31.4	6	--F	1		.33	.66	.68		
GRP37456	03	1742	1757	1747	S19	W42	.678	11221	31.6	15	--N			.32			3 3 3 6	
RAMY	03	1739	1758	1745	S19	W41	.666	11221	31.7	19	--N	2	C	.41			D	
PALE	03	1743	1755	1749	S19	W42	.678	11221	31.6	12	--N	2	C	.45			F	
HUAN	03	1743	1748D	1747	S18	W43	.688	11221	31.5	50	--N	1	P	.10	.14		D	
GRP37457	03	1835	1844	1838	S20	W43	.693	11221	31.5	9	--F			.18			2 2 1 4	
HUAN	03	1835	1842	1838	S19	W44	.702	11221	31.5	7	--F	1	C	.18	.24		E	
LOCK	03	1835	1845	1838	S21	W42	.684	11221	31.6	10	--F		C					
458 RAMY	03	1937E	1946	1937	N13	E48	.783	11228	7.4	90	--N	1	C	.21			D 3	
GRP37461	04	0105	0117	0109	S10	W36	.585	11221	1.3	12	--F			.43			2 2 2 4	
PALE	04	0104	0121	0109	S10	W36	.585	11221	1.3	17	--F	2	C	.63			F	
CRON	04	0105	0113	0109	S09	W35	.570	11221	1.4	8	--F	2	C	.22	.26			
GRP37462	04	0110	0138	0115	S19	W46	.725	11221	31.6	28	--N			1.05			4 3 3 4	
PALE	04	0109	0133D	0115	S21	W46	.729	11221	31.6	240	--N	2	C	1.18			F	
CULG	04	0110	0142	0116	S17	W47	.733	11221	31.5	32	1N		C	1.44	2.10			
MANI	04	0110	0126D	0113	S19	W58	.845	11221	30.7	160	--N	2		.31	.54			
CRON	04	0111	0134	0113	S19	W46	.725	11221	31.6	23	--N	2	C	.54	.79			
464 CULG	04	0230	0359	0309	S14	W59	.852	11221	30.7	89	1F		C	1.86	3.60		S 3	
6 STATIONS REPORTING GROUP 37465. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37465	04	0426	0515	0431	S19	W50	.768	11221	31.4	49	--N			1.74			4 4 4 6	
CULG	04	0425	0527	0431	S17	W50	.766	11221	31.4	62	1N		C	2.58	3.70		V	
MANI	04	0427E	0505	0435	S18	W52	.788	11221	31.3	380	1N	1		2.17	3.50			
TEHR	04	0427	0444D	0429	S20	W49	.759	11221	31.5	170	--N	1	C	.55			F	
ATHN	04	0429E	0512	0429	S19	W50	.768	11221	31.4	43D	--N	1		1.65		.76		
37465	04	0429	0514	0446	S19	W50	.768	11221	31.4	45	*--N			1.53			2 2 2 6	
CRON	04	0429	0514	0446U	S19	W48	.747	11221	31.6	45	--N	2	C	.97	1.46			
KODA	04	0438E	0447D		S19	W52	.789	11221	31.3	90	1N		P	2.09	2.10	1.32	E	
GRP37466	04	0739	0843	0747	S18	W54	.807	11221	31.3	64	--N			1.20			7 5 5 8	
CAPE	04	0737	0830	0747	S18	W54	.807	11221	31.3	53	1N		C	1.17	2.10			
ATHN	04	0739E	0903	0740	S18	W52	.788	11221	31.4	840	1N	1		2.31	4.60	.80		
MANI	04	0739	0840	0755	S17	W56	.826	11221	31.1	61	--B	1		1.24	1.75			
MANI	04	0739	0847	0743	S22	W59	.856	11221	30.9	68	--N	2		.21	.40			
CRON	04	0740	0840	0743U	S18	W54	.807	11221	31.3	60	--N	1	C	.86	1.47			
CANR	04	0742E	0804D	0751	S19	W54	.808	11221	31.3	220	--N	2	C	.43	.73			
CATA	04	0820D	0835D	0825	S18	W55	.817	11221	31.2	150	--B		P	.80	1.41		216	
ZURI	04	0852E	0930	0852	S19	W55	.818	11221	31.2	380	--N		P	.59	1.00			
GRP37471	04	1414	1435	(1423)	N03	E48	.753	11230	8.2	21	--F			.52			2 1 1 5	
MCMA	04	1414	1435		N03	E47	.741	11230	8.1	21	--F		C	.52	.80		E	
RAMY	04	1430E	1435D		U N02	E49	.762	11230	8.3	50	--F	2	C				D	
GRP37473	04	1900	1919	1909	N15	E35	.653	11228	7.4	19	--F			.19			2 2 1 3	
LOCK	04	1900	1920	1909	N14	E34	.635	11228	7.3	20	--F		C					
PALE	04	1907E	1918	1908	N15	E35	.653	11228	7.4	110	--F	1	C	.19			F	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLACE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hq	MAX. INT. %		
					LAT.	MER. DIST.													
	1971 APR																		
GRP37474 LOCK PALE	04	2120	2133	2125	N14	E34	.635	11228	7.4	13	--F			.19				2 2 1 4	
	04	2120	2130	2120	N14	E34	.635	11228	7.4	10	-F								
	04	2128E	2135	2129	N14	E34	.635	11228	7.4	7D	-F	2	C	.19				H	
GRP37475 LOCK PALE	04	2134	2150	2140	S21	W59	.856	11221	31.5	16	--F			.36				2 2 1 4	
	04	2134	2150	2140	S20	W58	.846	11221	31.5	16	-F								
	04	2135E	2141D	2139	S21	W59	.856	11221	31.5	6D	-N	2	C	.36					
GRP37480 TEHR MEUD ATHN	05	1036	1054	1040	N15	W41	.718	11225	2.4	18	--N			.41				3 3 3 7	
	05	1035	1055	1039	N15	W40	.707	11225	2.4	20	-N	3	C	.36				D	
	05	1036	1050	1039	N14	W40	.702	11225	2.4	14	-N		C	.36	.50			E	
	05	1040E	1056	1041	N17	W42	.739	11225	2.3	16D	-N	1		.50	.90	.73			
GRP37483 MEUD CANR ATHN MCMA	05	1327	1348	1328	S09	E85	.995	11238	11.9	21	-N			.50				4 3 1 9	
	05	1324	1345	1328	S10	E90	1.000	11238	12.3	21	-N		C						
	05	1325	1325D		S10	E85	.995	11238	11.9		-N		V		1.60				
	05	1327E	1356	1327	S10	E79	.979	11238	11.5	29D	-N	1		.50	.99	.99			
	05	1333	1344		S08	E85	.995	11238	11.9	11	-F		C	1342				AE	
GRP37484 RAMY ATHN	05	1529E	1537	1530	N18	E54	.853	11234	9.7	8	--F			.46				2 2 2 5	
	05	1529E	1536	1529	N17	E54	.850	11234	9.7	7D	-F	3	C	.41				D	
	05	1530E	1537	1530	N18	E54	.853	11234	9.7	7D	-F	1		.50	.99	.84			
485 LOCK	05	1822	1830	1825	N13	W16	.423	11227	4.6	8	--F							3	
486 LOCK	05	2145	2200	2148	S20	W71	.940	11221	31.6	15	--F							2	
GRP37487 CULG MANI CRON	06	0113	0137	0117	N12	W50	.798	11225	2.3	24	-N			1.70				3 3 2 4	
	06	0049	0155D	0119	N14	W49	.795	11225	2.4	66D	1N		P	0119	2.99	4.60			
	06	0112E	0130	0115	N10	W52	.812	11225	2.1	18D	-N	2		.41	.70				
	06	0114	0126		N12	W48	.778	11225	2.5	12	-F		V						
488 CRON	06	0224	0234	0225	S16	W71	.940	11221	31.8	10	--N	2	C	0225	.22			4	
489 CULG	06	0230	0254	0237	S14	E56	.825	11233	10.3	24	1N		C	0237	1.65	2.70		4	
GRP37492 CRON ABST ATHN MANI	06	0603	0617	0609	N15	E71	.959	11239	11.6	14	-F			.39				4 4 4 6	
	06	0602	0616	0605	N14	E68	.942	11239	11.4	14	-N	2	C	0605	.22				
	06	0604	0614	0609	N15	E72	.963	11239	11.7	10	-F		C	0609	.63			45	
	06	0604	0619	0608	N12	E67	.934	11239	11.3	15	-N	1		0608	.50	.99	.94	DG	
	06	0610E	0618D	0614	N18	E75	.977	11239	11.9	8D	-F	2		0614	.21	.51			
	06	0610E	0618D	0614	N18	E75	.977	11239	11.9	8D	-F	2		0614	.21	.51			
11 STATIONS REPORTING GROUP 37495.					0 STATIONS OBSERVING AND NOT REPORTING.														
GRP37495 CATA ATHN CRON CAPS HTPR CANR CAPE ARCE	06	0936	1016	0944	S19	W80	.980	11221	31.4	40	-B			.95				8 8 8 8	
	06	0935	1005D	0940	S23	W78	.973		31.5	30D	-B		P	0940	.58		251		
	06	0935	1055	0941	S18	W80	.980		31.4	80	1B	1		0941	1.65	3.30	.99		
	06	0936	1000D	0945U	S19	W80	.980		31.4	24D	1B	1	C	0945	.97				
	06	0936	1020	0945	S19	W80	.980		31.4	44	-B	3	P	0936	1.00		200		
	06	0937	1007	0943	S18	W78	.973		31.6	30	-B		C	0943	.62			E	
	06	0937E	1016	0945	S19	W80	.980		31.4	39D	1B	2	C	0945	.75				
	06	0938	1020	0946	S18	W82	.986		31.3	42	1B		C	0946	1.25				
	06	0940E	0944D		S19	W81	.983		31.3	4D	-N		P	0944	.78				
37495 TEHR KODA	06	1007	1018	1007	S20	W80	.980	11221	31.4	11	*1N			1.83				2 2 2 8	
	06	1007E	1015D	1007	S20	W78	.973	11221	31.6	8D	1N	2	C	1.00				UF	
	06	1013E	1018D		S19	W82	.986	11221	31.3	5D	1N		P	1014	2.65	2.70		EF	
37495 CAPF MONT	06	0953	1050	1036	S19	W81	.983	11221	31.3	57	*1N			1.65				2 1 1 8	
	06	0953	1050		S19	W81	.983	11221	31.3	57	1N		P	0955	1.65				
	06	1024E	1039D	1036	S20	W80	.980	11221	31.4	15D	1N		C	1036	2.27				
10 STATIONS REPORTING GROUP 37497.					2 STATIONS OBSERVING AND NOT REPORTING.														
GRP37497 BOUL CANR BOUL CAPE MCMA RAMY ATHN CATA HTPR HUAN HUAN	06	1405	1432	1411	N11	W23	.480	11227	4.9	27	--N			.56				9 9 8 12	
	06	1349E	1455	1420	N12	W22	.477	11227	4.9	66D	-B	1	V						
	06	1404	1416	1410	N10	W25	.496	11227	4.7	12	-N	2	C	1410	.32	.37			
	06	1404	1420	1404	N12	W22	.477	11227	4.9	16	-F	1	V						
	06	1405	1440	1411	N12	W23	.489	11227	4.9	35	-N		C	1411	1.03	1.20			
	06	1405	1452	1408	N11	W24	.492	11227	4.8	47	-B		C	1408	.72	.80			
	06	1405E	1430	1405	N11	W23	.480	11227	4.9	25D	-N	2	C		.72			E	
	06	1406E	1436	1416	N11	W22	.468	11227	4.9	30D	-N	1		1416	.66	1.34	.48	D	
	06	1406E	1415D	1407	N09	W23	.462	11227	4.9	9D	-N		P	1407	.46	.52		178	
	06	1406	1415	1410	N11	W23	.480	11227	4.9	9	-F		C	1410	.31	.30		H	
	06	1409E	1425D	1411U	N12	W25	.513	11227	4.7	16D	-N	2	P	1411	.25	.29		D	
	06	1442E	1454D	1446U	N12	W23	.489	11227	4.9	12D	-N	1	P	1446	.35	.40		E	
	37497 HUAN LOCA CATA	06	1414	1440	1427	N11	W21	.456	11227	5.0	26	*-N			.83				3 3 3 12
		06	1413	1425D	1421	N12	W23	.489	11227	4.9	12D	-N	2	P	1421	.21	.23		E
06		1415E	1440D	1430	N12	W19	.443	11227	5.2	25D	1N		S	1430	2.10	2.20			
06	1425E	1435D	1430	N10	W22	.458	11227	5.0	10D	-N		P	1430	.17	.20	186			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
1971 APR																		
GRP37503	06	1743	1804	1747	N13	E36	.651	11234	9.4	21	--N			.49				4 4 2 4
RAMY	06	1742	1743D	1743	N13	E35	.639	11234	9.4	1D	-N	1 C		.36				D
LOCK	06	1743	1800	1748	N12	E36	.645	11234	9.4	17	-F	C						
BOUL	06	1744	1804	1748	N12	E38	.669	11234	9.6	20	-N	1 V						E
MCMA	06	1744	1807	1748	N13	E36	.651	11234	9.4	23	-N	C	1748	.62	.70			
GRP37504	06	1858	1943	1907	N13	W59	.880	11225	2.4	45	-N			.69				3 3 2 3
MCMA	06	1854	1940	1907	N12	W59	.878	11225	2.4	46	-N	C	1907	.72	1.50			EH
BOUL	06	1859U	1930U	1904U	N13	W58	.872	11225	2.4	31D	-N	1 C	1904	.65	1.31			
LOCK	06	1900	1945	1910	N15	W60	.892	11225	2.3	45	-N	C						
GRP37505	06	2045	2058	2049	N11	W27	.529	11227	4.8	13	--F			.41				2 2 1 4
MCMA	06	2044	2056	2047	N11	W27	.529	11227	4.8	12	-F	C	2047	.41	.50			E
LOCK	06	2045	2100	2050	N10	W27	.521	11227	4.8	15	-F	C						
GRP37512	07	0523	0610	0535	S19	W38	.631	11229	4.4	47	-N			1.09				4 3 3 6
CULG	07	0520	0541D	0538	S18	W39	.640	11229	4.3	21D	1N	P	0538	2.17	2.70			U
TEHR	07	0521	0615	0534	S20	W38	.634	11229	4.4	54	-N	2 C		.28				D
ATHN	07	0528	0604	0533	S18	W38	.628	11229	4.4	36	-F	1 C	0533	.83	1.65	.63		
CRON	07	0544	0558	0549	S20	W40	.659	11229	4.2	14	-F	2 V						
GRP37513	07	1155	1214	1202	N12	W68	.940	11225	2.4	19	--F			.30				4 4 4 10
CATA	07	1150E	1215	1205	N09	W67	.930	11225	2.5	25D	-N	P	1205	.29			158	
TEHR	07	1154	1213	1201	N12	W68	.940	11225	2.4	19	-F	3 C		.09				D
RAMY	07	1157	1208D	1200	N13	W68	.941	11225	2.4	11D	-F	3 C		.31				D
MEUD	07	1200	1213	1203	N13	W67	.935	11225	2.5	13	-F	C	1203	.52				
GRP37515	07	1446	1506	1451	N10	W37	.646	11227	4.8	20	-N			.84				8 8 8 10
RAMY	07	1439	1515	1444	N11	W38	.663	11227	4.8	36	-F	3 C		.77				D
MCMA	07	1445	1515	1450	N11	W38	.663	11227	4.8	30	-N	C	1450	.62	.80			E
MONT	07	1445	1455D	1451	N11	W37	.651	11227	4.8	10D	-N	C	1451	2.27				
ZURI	07	1446	1500	1451	N11	W34	.615	11227	5.1	14	-N	C	1451	1.20	1.50			
ATHN	07	1447E	1500	1450	N11	W36	.639	11227	4.9	13D	-N	1 C	1450	.66	1.34	.65		
BOUL	07	1448U	1515U	1450U	N10	W36	.634	11227	4.9	27D	-N	1 C	1450	.43	.56			
CATA	07	1450E	1500D	1455	N08	W38	.649	11227	4.8	10D	-N	P	1455	.34	.46		174	
CAPS	07	1451	1500D		N09	W35	.616	11227	5.0	9D	-F	1 S	1453	.40	.50		145	C
GRP37518	07	1833	1903	1839	N11	W40	.687	11227	4.8	30	-N			.77				2 2 1 3
MCMA	07	1832	1905	1838	N11	W40	.687	11227	4.8	33	-N	C	1838	.77	1.00			E
LOCK	07	1833	1900	1840	N11	W39	.675	11227	4.8	27	-N	C						
519 LOCK	07	1915	1925	1920	N11	W39	.675	11227	4.9	10	--F	C						2
GRP37520	07	2017	2035	2020	N12	W39	.680	11227	4.9	18	--N			.52				2 2 1 4
LOCK	07	2015	2035	2020	N11	W39	.675	11227	4.9	20	-N	C						
MCMA	07	2018	2035	2019	N12	W38	.668	11227	5.0	17	-N	C	2019	.52	.70			EK
GRP37522	07	2320	0020	2342	S17	E33	.559	11233	10.4	60	-N			1.70				5 5 4 5
CULG	07	2320	0040	2346	S16	E32	.542	11233	10.4	80	1N	C	2346	3.51	3.90			
CRON	07	2332E	0015U	2343U	S16	E32	.542	11233	10.4	43D	-N	2 C	2343	1.18	1.43			
MANI	07	2335E	0005	2337	S14	E35	.578	11233	10.6	30D	-N	2 C	2337	.83	1.02			
PALE	07	2337E	0000D	2345	S20	E34	.584	11233	10.5	23D	-N	2 C		1.27				F
LOCK	07	2338E	0020	2340	S17	E32	.546	11233	10.4	42D	-N	C						
GRP37523	07	2358	0013	0002	N11	W40	.687	11227	5.0	15	--F			.31				2 2 1 5
MANI	07	2356E	0010	2358	N11	W40	.687	11227	5.0	14D	-N	2 C	2358	.31	.42			
LOCK	08	0000	0015	0005	N11	W39	.675	11227	5.1	15	-F	C						
	08	0218	0225	NO FLARE PATROL														
526 KODA	08	0325E	0340	0327	S19	W90	.999	11221	1.4	15D	2B	P	0336	3.55		5.36		ABCR 3
GRP37527	08	0523	0537	0526	N10	W47	.761	11227	4.7	14	-N			.64				2 1 1 6
TEHR	08	0523	0537D	0526	N10	W47	.761	11227	4.7	14D	-N	2 C		.64				FD
MANI	08	0526E	0607D	0540	N16	W49	.802	11227	4.6	41D	-N	2 C	0540	1.24	2.00			
GRP37529	08	0709	0736	0713	N11	W48	.774	11227	4.7	27	-N			2.13				4 4 4 12
ABST	08	0709	0749	0712	N11	W48	.774	11227	4.7	40	1F	C	0712	1.80	2.80		54	FKV
WEND	08	0709E	0728		N12	W47	.767	11227	4.8	19D	1N	V		4.13				
ZURI	08	0710	0732	0712	N11	W50	.795	11227	4.5	22	-N	C	0712	1.26	1.90			
ATHN	08	0711E	0733	0714	N11	W47	.764	11227	4.8	22D	-N	1 C	0733	1.32		.77		
GRP37533	08	0856	0910	0901	N12	W50	.798	11227	4.6	14	-N			1.21				5 5 4 11
CRON	08	0850	0905		N12	W50	.798	11227	4.6	15	-N	3 V						
ABST	08	0857	0915	0902	N12	W51	.808	11227	4.5	18	1F	C	0902	1.80	3.00		50	EV
ATHN	08	0857	0911	0859	N12	W49	.788	11227	4.7	14	-N	1 C	0859	.99	1.98	.78		
TEHR	08	0857	0910	0858	N11	W50	.795	11227	4.6	13	-N	3 C		.36				F
ZURI	08	0858	0907	0905	N11	W50	.795	11227	4.6	9	1N	C	0905	1.68	2.70			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
1971 APR																		
539 MCMA	08	2024	2038	2025	N10	W61	.890	11227	4.3	14	--F	C	2025	.21	.50			E 2
GRP37540	08	2114	2238	2122	S15	E21	.382	11233	10.5	84	--F			.77				4 3 1 4
MCMA	08	2110	2203D	2121	S14	E20	.361	11233	10.4	53D	-N	C	2121	.77	.80			E
LOCK	08	2112	2235	2125	S15	E21	.382	11233	10.5	83	-F	C						
BOUL	08	2119	2240	2119	S17	E21	.394	11233	10.5	81	-F	1 V						
PALE	08	2148E	2150D	2148	S14	E21	.376	11233	10.5	2D	-N	1 C		1.08				F
GRP37541	09	0000	0016	0002	N10	W63	.905	11227	4.3	16	-N			.93				3 3 2 5
MANI	09	0000	0031	0002	N12	W62	.901	11227	4.3	31	-N	2	0002	.83	1.62			V
LOCK	09	0000	0008	0002	N11	W62	.899	11227	4.3	8	-B	C						
VORO	09	0001	0009	0002	N08	W66	.923	11227	4.1	8	1F	C	0002	1.02	2.20		100	DHJ
GRP37544	09	1557	1612	1600	N02	E90	1.000	11249	16.4	15	-N			.28				2 2 1 4
RAMY	09	1557	1620D	1559	N02	E90	1.000	11249	16.4	23D	1N	2 C						D
HUAN	09	1558E	1603	1600	N01	E90	1.000	11249	16.4	5D	-N	1 P	1600	.28				
GRP37546	10	0137	0158	0140	S19	E06	.246	11233	10.5	21	--F			.36				2 2 2 5
MANI	10	0137	0159	0139	S20	E06	.262	11233	10.5	22	-N	1	0139	.41	.43			
PALE	10	0140E	0156	0140	S17	E05	.209	11233	10.4	16D	-F	2 C		.31				
GRP37553	10	1441	1455	1445	N06	E85	.997	11249	17.0	14	--N			.15				2 2 1 3
BOUL	10	1441	1455	1443	N06	E83	.994		16.8	14	-N	2 V						
HUAN	10	1442E	1448D	1447U	N05	E87	.999		17.1	6D	-N	1 P	1447	.15				ET
GRP37554	10	2033	2048	2036	N16	E06	.387	11239	11.3	15	--F			.28				2 2 2 4
PALE	10	2030	2058D	2036	N17	E05	.399	11239	11.2	28D	-F	2 C		.45				F
HUAN	10	2035	2038	2036	N15	E06	.372	11239	11.3	3	-F	2 C	2036	.10	.11			D
GRP37555	10	2132	2206	2136	N13	W21	.473	11234	9.3	34	--F	2 C		.45				2 1 1 4
PALE	10	2132	2206	2136	N13	W21	.473	11234	9.3	34	-F	2 C		.45				F
BOUL	10	2159	2219	2202	N15	W20	.483	11234	9.4	20	-N	3 V						
7 STATIONS REPORTING GROUP 37558. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37558	11	0427	0522	0447	S14	W11	.233	11233	10.4	55	1N			3.55				5 5 5 7
CRON	11	0425	0525	0447	S14	W11	.233	11233	10.4	60	1N	2 C	0447	2.04	2.05			
MITK	11	0425	0535	0454	S13	W10	.210	11233	10.4	70	1N	C	0454	4.54	4.80			EU
TACH	11	0427	0600D	0444	S15	W11	.244	11233	10.4	93D	1N	C	0444	4.56	4.69	1.50	69	F
KODA	11	0432	0502	0444	S14	W11	.233	11233	10.4	30	1N	P	0458	4.65	4.60	1.68		KUZ
ATHN	11	0445E	0525	0445	S16	W11	.255	11233	10.4	40D	-N	1	0445	1.98		.25		
37558	11	0425	0523	0434	S15	W10	.231	11233	10.4	58	*-N			2.11				2 2 2 7
MANI	11	0423E	0523D	0435	S15	W10	.231	11233	10.4	60D	1N	1	0435	2.17	2.20			FD
TEHR	11	0427	0522	0433	S14	W10	.220	11233	10.4	55	-N	2 C		2.05				
GRP37559	11	0818	0831	0819	N15	W20	.482	11234	9.8	13	--F			.19				2 2 1 6
TEHR	11	0816	0821D	0818	N14	W20	.471	11234	9.8	5D	-N	2 C		.19				D
CRON	11	0820	0831	0820	N16	W20	.493	11234	9.8	11	-F	V						
GRP37560	11	1504	1532	1510	N20	W25	.584	11234	9.8	28	--F			.36				3 3 2 6
RAMY	11	1500	1530	1509	N19	W25	.574	11234	9.8	30	-F	3 C		.41				D
BOUL	11	1506	1535	1510	N20	W26	.594	11234	9.7	29	-N	1 V						
MCMA	11	1507	1530	1511	N21	W25	.594	11234	9.8	23	-F	C	1511	.31	.40			D
GRP37567	11	2017	2045	2019	S05	E37	.600	11253	14.6	28	--N			.62				2 2 1 4
MCMA	11	2016E	2045		S05	E37	.600	11253	14.6	29D	-N			.62	.80			EH
BOUL	11	2017	2045	2019	S05	E37	.600	11253	14.6	28	-N	1 V						
GRP37569	12	0301	0326	0307	S18	W23	.431	11233	10.4	25	--F			.57				3 3 3 6
TEHR	12	0252	0300	0254	S17	W22	.411	11233	10.5	8	-N	2 C		.36				D
MITK	12	0257	0334	0305	S18	W23	.431	11233	10.4	37	-F	C	0305	.83	.90			
TEHR	12	0301	0325	0307	S19	W22	.425	11233	10.5	24	-N	2 C		.45				D
CRON	12	0304	0320	0310	S17	W23	.424	11233	10.4	16	-F	2 C	0310	.43	.47			
GRP37570	12	0351	0411	0355	S05	E34	.557	11253	14.7	20	--F			.41				2 2 2 6
MITK	12	0350	0413	0355	S05	E34	.557	11253	14.7	23	-F	C	0355	.62	.70			D
TEHR	12	0352	0408	0354	S05	E33	.543	11253	14.6	16	-F	3 C		.19				D
GRP37573	12	1014	1043	1022	S06	E30	.498	11253	14.7	29	-N			.94				6 6 5 7
CANR	12	1012	1040	1020	S05	E30	.498	11253	14.7	28	-N	V	1020		.70			
ABST	12	1014E	1044D	1019	S05	E30	.498	11253	14.7	30D	-F	P	1019	1.08	1.20			EZ
MONT	12	1014	1042	1026	S05	E30	.498	11253	14.7	28	-N	C	1026	1.55				
TEHR	12	1015	1046	1017	S05	E30	.498	11253	14.7	31	-N	3 C		.28				D
CAPS	12	1029	1041		S06	E32	.527	11253	14.8	12	-F	3 V	1031	1.10	1.30		142	
CATA	12	1030E	1035D	1030	S07	E29	.482	11253	14.6	5D	-B	P	1030	.69	.80		209	T

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCARTH BLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _a	MAX. INT. %		
					LAT.	MER. DIST.													
	1971 APR																		
GRP37574	12	1430	1452	1434	S06	E28	.467	11253	14.7	22	-N			1.22			8 7 5 9		
	ATHN	12	1330	1440D	1335	S06	E29	.482	11253	14.7	70D	-N	1	1335	.50	.99	.47	U D	
	RAMY	12	1428E	1453	1432	S06	E26	.436	11253	14.6	25D	-F	2	C	1.13				
	TEHR	12	1428	1433D	1433	S05	E27	.452	11253	14.6	5D	-N	2	C	.28				
	BOUL	12	1430	1500	1436	S05	E27	.452	11253	14.6	30	-N	1	V					
	CAPS	12	1431E	1448		S06	E32	.527	11253	15.0	17D	-F	2	V	1432	.70	.80	152	
	WEND	12	1431E	1453		S07	E27	.452	11253	14.6	22D	1N	P		3.09				
	CANR	12	1432	1446	1434	S05	E30	.498	11253	14.9	14	-N	V	1434		.70			
	CAPE	12	1433E	1439D	1437	S05	E27	.452	11253	14.6	6D	-N	P	1437	.90	1.00			
GRP37579	12	1838	1846	1840	S16	W32	.544	11233	10.4	8	--F			.72			2 2 1 5		
	BOUL	12	1838	1846	1839	S17	W32	.548	11233	10.4	8	-F	1	V				H	
	PALE	12	1840E	1846	1840	S15	W31	.527	11233	10.5	6D	-F	3	C	.72				
GRP37580	12	2017	2024	2018	N02	E56	.834	11250	17.0	7	--F						2 2 0 2		
	LOCK	12	2016	2024	2019	N01	E55	.823	11250	17.0	8	-F		C					
	BOUL	12	2017	2024	2017	N03	E57	.844	11250	17.1	7	-F	1	V					
581 HUAN	12	2032	2038	2035	N02	E55	.824	11250	17.0	6	--F	1	C	2035	.15	.28	D 3		
GRP37585	13	0354	0425	0404	S06	E19	.324	11253	14.6	31	-N			1.37			5 5 5 6		
	PALE	13	0353	0425D	0400	S05	E18	.308	11253	14.5	32D	-N	2	C	.99			F E E	
	TACH	13	0353	0425	0406	S06	E19	.324	11253	14.6	32	1F	C	0406	2.73	2.88	1.35		57
	MITK	13	0355	0433	0404	S06	E19	.324	11253	14.6	38	-B	C	0404	1.86	2.00			
	CRON	13	0356	0425	0402	S07	E19	.324	11253	14.6	29	-N	2	C	0402	.86	.91		
	MANI	13	0358E	0419	0408	S05	E21	.357	11253	14.7	21D	-N	1		0408	.41	.44		
GRP37591	13	0737	0751	0738	S05	E14	.241	11253	14.4	14	--N			.43			4 4 3 13		
	CATA	13	0735	0745	0735	S03	E09	.163	11253	14.0	10	-N		C	0735	.17		.18	160
	HTPR	13	0737	0755	0739	S05	E17	.291	11253	14.6	18	-F		C	0739	.52		.50	
	ZURI	13	0738	0752	0740	S06	E14	.241	11253	14.4	14	-N		C	0740	.59		.60	
	CANR	13	0738	0750		S05	E17	.291	11253	14.6	12	-N		V		.50			
GRP37597	13	0933	0949	0933	S05	E16	.275	11253	14.6	16	--F			.93			7 6 3 12		
	HTPR	13	0929	0947	0932	S05	E16	.275	11253	14.6	18	-F		C	0932	.62		.60	E
	ZURI	13	0930	0950	0932	S05	E14	.241	11253	14.4	20	-N		C	0932	.63		.60	
	MEUD	13	0930	0945	0931	S05	E17	.291	11253	14.7	15	-F		C					
	CATA	13	0930E	0945D	0940	S06	E05	.087	11253	13.8	15D	-N		P	0940	.58		.60	
	MONT	13	0936E	0951	0936	S05	E17	.291	11253	14.7	15D	-N		C	0936	1.55			
	CRON	13	0937	0944		S05	E15	.258	11253	14.5	7	-F		2	V				
	CANR	13	0938	0955		S05	E17	.291	11253	14.7	17	-N		V		.50			
GRP37603	13	1333	1423	1346	N19	E68	.948	11256	18.7	50	1F			1.94			4 4 3 8		
	MEUD	13	1333	1415	1344	N19	E66	.937	11256	18.5	42	1N		C				F	
	CAPS	13	1333	1438		N18	E70	.956	11256	18.8	65	2F		2	V	1342			2.42
	HTPR	13	1337E	1413		N19	E66	.937	11256	18.5	36D	1N		C	1348	1.24			
	RAMY	13	1337E	1427	1348	N19	E69	.953	11256	18.7	50D	1F		3	C	2.17			
GRP37604	13	1340	1401	1343	N12	E68	.939	11257	18.7	21	-N			.57			5 5 2 9		
	RAMY	13	1323E	1408	1344	N14	E71	.957	11257	18.9	45D	-N		3	C	.83		D	
	MEUD	13	1337	1403	1343	N12	E67	.933	11257	18.6	26	-N		C					
	HTPR	13	1339	1405		N12	E67	.933	11257	18.6	26	-N		C	1341	.31			
	WEND	13	1341	1354		N12	E63	.907	11257	18.3	13	-N							
	WEND	13	1342	1352		N09	E70	.947	11257	18.8	10	-F							
	CANR	13	1343	1357	1343	N10	E70	.948	11257	18.8	14	1N		V	1343				3.75
GRP37605	13	1523	1531	1526	N20	E68	.949	11256	18.7	8	--F			.37			3 3 2 10		
	MEUD	13	1521	1530	1525	N20	E67	.944	11256	18.7	9	-F		C				D D	
	RAMY	13	1524	1536D	1528	N20	E70	.958	11256	18.9	12D	-N		2	C	.52			
	HTPR	13	1525	1528	1526	N20	E68	.949	11256	18.7	3	-F		C	1526	.21			
606 BOUL	13	1935	1952	1943	S05	E10	.173	11253	14.6	17	--F	2	V				2		
GRP37609	13	2022	2110	2034	S08	W31	.513	11238	11.5	48	-N			.91			2 2 1 2		
	PALE	13	2021	2052	2031	S09	W33	.543	11238	11.4	31	-N		2	C	.91		FS	
	BOUL	13	2023	2127	2036	S06	W29	.482	11238	11.7	64	-N		2	V				
610 BOUL	13	2049	2103	2051	N20	E70	.958	11256	19.1	14	--F	2	V				2		
611 BOUL	13	2107	2111	2108	S05	W09	.156	11253	13.2	4	--F	2	V				2		
	13	2128	2130	NO FLARE PATROL															
	13	2133	2136	NO FLARE PATROL															
613 BOUL	13	2233	2249	2240	S05	E08	.139	11253	14.5	16	--F	2	V				2		
614 BOUL	13	2240	2300	2242	S05	E37	.600	11250	16.7	20	--F	2	V				2		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %			
					LAT.	MER. DIST.														
	1971 APR																			
GRP37615	14	0120	0152	0134	N18	E66	.935	11256	19.0	32	-N			1.00				2 2 2 6		
	CULG	14	0114	0202	0134	N17	E68	.945	11256	19.2	48	1N	C	0134	1.55	4.10				
	PALE	14	0126	0142	0134	N18	E64	.923	11256	18.9	16	-N	2 C		.45			F		
GRP37621	14	0427	0519	0435	S07	E01	.029	11253	14.3	52	1N			2.20				5 4 4 7		
	CULG	14	0420	0519	0435	S06	E00	.005	11253	14.2	59	2B	C	0435	3.20					
	PALE	14	0426	0439D	0435	S07	E03	.057	11253	14.4	130	-N	1 C		1.80			F		
	TACH	14	0431	0506D	0437	S08	W01	.044	11253	14.1	350	1F	C	0437	3.19	3.10	2.04	48		
	MANI	14	0432	0438D	0433	S05	E01	.021	11253	14.3	60	-N	1	0433	.62	.68		E		
	MITK	14	0456E	0500D	0457	S09	E00	.058	11253	14.2	40	-N	C	0457	.62	.60		D		
GRP37625	14	0810	0817	0812	N05	E32	.555	11249	16.7	7	--F			.35				3 3 2 12		
	HTPR	14	0809	0812	0810	N05	E32	.555	11249	16.7	3	-F	C	0810	.41	.50		E		
	CATA	14	0810E	0825D	0815	N04	E33	.564	11249	16.8	150	-N	P	0815	.29	.35		166		
	MEUD	14	0810	0813	0811	N05	E32	.555	11249	16.7	3	-F	C					E		
GRP37627	14	0930	0959	0942	N19	E60	.899	11256	18.9	29	-N			.84				7 7 5 11		
	ARCE	14	0920E	1000D	N20	E60	.901	11256	18.9	40D	-N	C	0945	.50	1.10					
	CRON	14	0930	0954	0942	N18	E61	.904	11256	19.0	24	-N	2 C	0942	.22					
	CANR	14	0930	1007		N20	E60	.901	11256	18.9	37	1F	V			2.80				
	HTPR	14	0931	0952	0941	N20	E59	.894	11256	18.8	21	-N	C	0941	.52	1.00		E		
	ZURI	14	0932	0956	0944	N17	E58	.880	11256	18.7	24	1F	C	0944	1.74	3.60				
	MEUD	14	0932	0953	0942	N20	E60	.901	11256	18.9	21	-F	C					E		
	CAPS	14	0936	1012		N19	E59	.892	11256	18.8	36	1N	3 V	0945	1.20	2.40		170		
GRP37629	14	0939	0957	0944	N13	E60	.887	11257	18.9	18	--F			.31				4 4 3 11		
	ARCE	14	0935	0956	0950	N15	E60	.891	11257	18.9	21	-F	C	0950	.39	.80				
	CATA	14	0935	1000	0940	N15	E60	.891	11257	18.9	25	-N	C	0940	.34	.82		195		
	CATA	14	0940	1000	0940	N10	E60	.881	11257	18.9	20	-N	C	0940	.17	.40		178		
	HTPR	14	0942	0955	0943	N12	E59	.877	11257	18.8	13	-N	C	0943	.21	.40				
	MEUD	14	0942	0958	0944	N12	E59	.877	11257	18.8	16	-F	C							
GRP37632	14	1106	1127	1110	S21	E62	.882	11255	19.1	21	-N			.57				7 7 5 8		
	HTPR	14	1105	1116	1109	S20	E60	.865	11255	19.0	11	-N	C	1109	.52	1.00		E		
	CANR	14	1105	1140		S20	E61	.873	11255	19.0	35	-N	V			.60				
	CAPE	14	1106	1120	1110	S20	E62	.881	11255	19.1	14	1N	C	1110	.99	2.10				
	ZURI	14	1106	1120	1110	S21	E64	.897	11255	19.3	14	-N	C	1110	.53	1.10				
	MEUD	14	1106	1116	1110	S21	E60	.866	11255	19.0	10	-N	C							
	CAPS	14	1109	1136	1111	S22	E64	.897	11255	19.3	27	-N	3 V	1110	.60	1.20		190		
	CATA	14	1110E	1140	1110	S24	E60	.869	11255	19.0	300	-B	P	1110	.23	.49		209		
GRP37634	14	1357	1417	1406	S20	E60	.865	11255	19.1	20	-N			1.31				11 11 8 12		
	RAMY	14	1352	1425	1403	S18	E60	.864	11255	19.1	33	-N	3 C		.93			F		
	WEND	14	1353	1418		S24	E59	.861	11255	19.0	25	1N	P		4.13					
	MCMA	14	1355	1420	1406	S19	E59	.856	11255	19.0	25	-F	C	1406	.62	1.20		E		
	BOUL	14	1356	1418	1405	S20	E60	.865	11255	19.1	22	-N	1 V							
	CAPS	14	1356	1424	1408	S22	E60	.867	11255	19.1	28	1N	3 V	1407	1.10	2.20		190		
	CANR	14	1356	1420		S19	E61	.873	11255	19.2	24	-N	V			.90				
	ZURI	14	1358	1414	1408	S19	E61	.873	11255	19.2	16	-N	C	1408	.63	1.20				
	CAPE	14	1400	1415	1405	S20	E60	.865	11255	19.1	15	-F	C	1405	.90	1.90				
	HTPR	14	1400	1412	1405	S19	E58	.847	11255	18.9	12	-N	C	1405	.62	1.20		E		
	MEUD	14	1401	1415	1405	S20	E58	.848	11255	18.9	14	-N	C					E		
	MONT	14	1403	1409	1405	S22	E60	.867	11255	19.1	6	-N	C	1405	1.55					
GRP37640	14	1746	1808	1755	N05	E24	.442	11249	16.5	22	--F			.63				2 2 1 5		
	PALE	14	1743	1807	1753	N05	E25	.456	11249	16.6	24	-N	2 C		.63			F		
	BOUL	14	1748	1809	1756	N04	E23	.422	11249	16.5	21	-F	1 V							
GRP37641	14	1754	1811	1756	S21	E58	.849	11255	19.1	17	--N			.48				4 4 2 5		
	PALE	14	1747	1807	1754	S20	E58	.848	11255	19.1	20	-N	2 C		.54			F		
	RAMY	14	1753	1811	1758	S22	E58	.850	11255	19.1	18	-F	2 C		.41			D		
	BOUL	14	1753	1810	1755	S21	E58	.849	11255	19.1	17	-N	1 V							
	CANR	14	1801	1814		S19	E58	.847	11255	19.1	13	-N	V			.90				
GRP37642	14	1802	1820	1808	N19	E53	.846	11256	18.7	18	-F			.63				4 4 2 5		
	RAMY	14	1759	1815D	1804	N18	E52	.834	11256	18.6	160	-F	2 C		.62			F		
	BOUL	14	1800	1830	1812	N20	E53	.849	11256	18.7	30	1F	1 V							
	PALE	14	1802	1815	1809	N19	E53	.846	11256	18.7	13	-N	2 C		.63			F		
	CANR	14	1806	1820		N20	E54	.857	11256	18.8	14	-N	V			1.20				
GRP37644	14	1918	1928	1921	N19	E43	.755	11256	18.0	10	--F			.59				2 2 2 2		
	PALE	14	1917	1930	1920	N18	E43	.750	11256	18.0	13	-N	2 C		.55			F		
	MCMA	14	1918	1926	1921	N19	E42	.745	11256	18.0	8	-F	C	1921	.62	1.00		EH		
GRP37645	14	1936	1954	1942	N19	E43	.755	11256	18.0	18	--F			.54				2 2 2 2		
	PALE	14	1935	1956	1941	N18	E41	.730	11256	17.9	21	-F	2 C		.45			F		
	MCMA	14	1937	1951	1942	N19	E40	.725	11256	17.8	14	-F	C	1942	.62	1.00		E		
	PALE	14	1953E	1958D	1956	N18	E51	.825	11256	18.7	50	-F	2 C		.36					

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _a		MAX. INT. %
					LAT.	MER. DIST.												
	1971 APR																	
GRP37646	14	1942	1959	1946	S22	E56	.833	11255	19.0	17	--F				.54			2 2 2 2
PALE	14	1941	1958	1945	S20	E56	.831	11255	19.0	17	-N	2	C		.81			F
MCMA	14	1943	2000	1947	S23	E56	.835	11255	19.0	17	-F		C	1947	.26	.50		D
GRP37647	14	2017	2036	2021	N19	E39	.715	11256	17.8	19	--F				.59			2 2 2 2
PALE	14	2017E	2036D	2020	N18	E39	.709	11256	17.8	19D	-N	2	C		.55			F
MCMA	14	2017	2035	2021	N19	E39	.715	11256	17.8	18	-F		C	2021	.62	.90		E
GRP37649	14	2123	2151	2130	N04	E23	.422	11249	16.6	28	--N				.80			3 3 2 3
MCMA	14	2123	2158	2136	N03	E23	.416	11249	16.6	35	-N		C	2136	.88	1.00		EL
BOUL	14	2123	2147	2126	N04	E23	.422	11249	16.6	24	-N	2	V					F
PALE	14	2126E	2148	2129	N05	E24	.442	11249	16.7	22D	-N	2	C		.72			F
GRP37652	14	2313	2350	2314	S04	W17	.293	11253	13.7	37	--N				.45			2 1 1 3
PALE	14	2313E	2350D	2314	S04	W17	.293	11253	13.7	37D	-N	2	C		.45			F
MANI	14	2335	2346	2337	S04	W12	.209	11253	14.1	11	-F	1		2337	.21	.21		
GRP37653	14	2328	2346	2331	S20	E55	.821	11255	19.1	18	-N				1.24			4 3 4
MANI	14	2324	2344	2328	S20	E58	.848	11255	19.3	20	-B	1		2328	.72	1.21		
VORO	14	2325	2339	2327	S19	E55	.820	11255	19.1	14	-F		C	2327	.74	1.30	95	EJ
CRON	14	2335	2350		S21	E54	.813	11255	19.0	15	-F	2	V					F
PALE	14	2337E	2350D	2337	S20	E54	.812	11255	19.0	13D	1N	2	C		2.26			F
GRP37654	14	2333	0000	2348	N09	E45	.734	11257	18.4	27	--N				.81			3 2 1 5
MANI	14	2333	2355	2334	N08	E57	.852	11257	19.3	22	-N	1		2334	.31	.54		
CRON	14	2335	2345		N09	E44	.722	11257	18.3	10	-N	2	V					F
PALE	14	2341E	0014	2348	N09	E46	.745	11257	18.4	33D	-N	2	C		.81			F
GRP37655	15	0035	0047	0039	N20	E51	.832	11256	18.8	12	--F				.29			2 2 2 4
PALE	15	0033	0046	0037	N19	E49	.811	11256	18.7	13	-F	2	C		.36			F
MANI	15	0037	0047	0040	N20	E52	.840	11256	18.9	10	-N	1		0040	.21	.36		
GRP37657	15	0234	0257	0238	N04	E23	.421	11249	16.8	23	-N				1.26			5 5 5 6
CRON	15	0233	0246	0239U	N04	E23	.421	11249	16.8	13	-N	1	C	0239	.65	.71		
CULG	15	0234	0316	0238	N04	E24	.436	11249	16.9	42	1N		C	0238	2.68	2.80		
PALE	15	0234	0249	0237	N04	E23	.421	11249	16.8	15	-N	2	C		.81			F
MANI	15	0234	0256	0241	N04	E24	.436	11249	16.9	22	-N	2		0241	1.34	1.49		
TEHR	15	0236E	0238D	0237	N04	E21	.392	11249	16.7	2D	-N	2	C		.83			D
GRP37658	15	0245	0257	0248	S21	E53	.804	11255	19.1	12	--F				.44			2 2 2 6
MANI	15	0240	0255	0243	S20	E53	.803	11255	19.1	15	-N	2		0243	.52	.86		
PALE	15	0250	0259	0253	S22	E52	.796	11255	19.0	9	-F	2	C		.36			F
GRP37661	15	0440	0448	0443	S21	E50	.775	11255	18.9	8	--N				.22			2 2 2 5
MANI	15	0439	0449	0444	S21	E50	.775	11255	18.9	10	-N	2		0444	.31	.48		
TEHR	15	0441	0447	0442	S20	E50	.773	11255	18.9	6	-N	2	C		.13			D
GRP37663	15	0521	0542	0531	S04	W20	.342	11253	13.7	21	--F				.49			2 2 2 6
MANI	15	0516E	0539	0532	S04	W21	.358	11253	13.6	23D	-F	2		0532	.52	.55		
TEHR	15	0526	0544D	0530	S04	W19	.326	11253	13.8	18D	-F	2	C		.45			D
GRP37664	15	0558	0613	0600	N18	E49	.807	11256	18.9	15	-N				.65			3 3 2 8
MANI	15	0552	0610	0559	N19	E48	.802	11256	18.8	18	-N	2		0559	.72	1.16		
TEHR	15	0557	0614	0600	N18	E50	.816	11256	19.0	17	-F	2	C					D
MANI	15	0557	0611	0559	N18	E48	.798	11256	18.8	14	-N	2		0559	.52	.70		
CATA	15	0600	0615	0600	N18	E48	.798	11256	18.9	15	-B		C	0600	.58	.99	219	
GRP37667	15	0641	0658	0647	S05	W21	.357	11253	13.7	17	--N				.32			4 3 2 15
MANI	15	0635	0705	0658	S04	W22	.374	11253	13.6	30	-F	2		0658	.52	.55		
WEND	15	0639	0658		S05	W21	.357	11253	13.7	19	-N							
HTPR	15	0642	0658	0644	S05	W20	.341	11253	13.8	16	-F		C	0644	.31	.30		
ATHN	15	0649E	0658	0649	S05	W22	.373	11253	13.6	9D	-N	1		0649	.33	.66	.37	
GRP37669	15	0808	0816	0810	N19	E46	.783	11256	18.8	8	--F				.42			3 3 3 13
CRON	15	0807	0817	0809	N18	E46	.779	11256	18.8	10	-F	1	C	0809	.43	.69		
MANI	15	0808	0816		N19	E45	.774	11256	18.7	8	-N	1		0812	.31	.49		
MEUD	15	0808	0815	0810	N20	E47	.797	11256	18.9	7	-F		C	0810	.52	.80		E
GRP37673	15	0836	0840	0837	S05	W22	.373	11253	13.7	4	--F				.22			3 3 3 16
TEHR	15	0836	0842	0837	S05	W23	.389	11253	13.6	6	-N	3	C		.13			D
MEUD	15	0836	0838	0836	S04	W22	.374	11253	13.7	2	-F		C	0836	.26	.30		D
HTPR	15	0836	0839	0837	S05	W22	.373	11253	13.7	3	-F		C	0837	.26	.30		D

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1971																	
GRP37675	15	0849	0906	0853	N19	E47	.793	11256	18.9	17	--N			.44			7 7 5 15	
CRON	15	0847	0907		N20	E48	.806		19.0	20	-F	2 V						
ATHN	15	0848E	0908	0850	N18	E47	.788		18.9	20D	-F	1	0850	.50	.99	.77		
HTPR	15	0848	0858	0850	N20	E46	.788		18.8	10	-F	C	0850	.31	.50		E	
CANR	15	0848	0905		N20	E47	.797		18.9	17	-N	V			.80			
MEUD	15	0849	0904	0850	N20	E46	.788		18.8	15	-F	C	0850	.26	.40		D	
ARCE	15	0850E	0900D		N19	E47	.793		18.9	10D	-N	C	0850	.89	1.40		C	
CATA	15	0855	0920D	0900	N19	E46	.783		18.8	25D	-B	P	0900	.23	.38		221	
GRP37678	15	1038	1050	1043	S03	W24	.408	11253	13.6	12	--F		.51				4 4 3 11	
MEUD	15	1038	1050	1043	S03	W24	.408	11253	13.6	12	-F	C	1043	.72	.80		E	
WEND	15	1038	1050		S03	W24	.408	11253	13.6	12	-N							
HTPR	15	1039	1050	1044	S03	W23	.392	11253	13.7	11	-F	C	1044	.62	.70		E	
TEHR	15	1043E	1045D	1043	S03	W25	.424	11253	13.6	2D	-N	3 C		.19			D	
GRP37679	15	1129	1136	1130	S05	W24	.405	11253	13.7	7	--F		.35				3 3 3 13	
HTPR	15	1127	1136	1128	S05	W23	.389	11253	13.8	9	-F	C	1133	.41	.40		DN	
ATHN	15	1130E	1136	1130	S05	W24	.405	11253	13.7	6D	-F	1	1130	.33	.66	.39		
MEUD	15	1130	1136	1132	S04	W24	.406	11253	13.7	6	-F	C	1132	.31	.30		D	
GRP37682	15	1723	1731	1726	S06	W16	.274	11253	14.5	8	--F		.36				5 5 4 7	
PALE	15	1722	1731	1725	S06	W17	.291	11253	14.4	9	-N	2 C		.55			F	
RAMY	15	1723	1733	1726	S05	W16	.275	11253	14.5	10	-F	3 C		.36			D	
LOCK	15	1724	1730	1726	S05	W16	.275	11253	14.5	6	-F	C						
BOUL	15	1724	1731	1726U	S06	W16	.274	11253	14.5	7	-F	1 C	1726	.32	.32		E	
HUAN	15	1724	1730	1726	S06	W17	.291	11253	14.4	6	-N	1 C	1726	.21	.22			
684 PALE	15	1935E	1945D	1935	N19	E38	.705	11256	18.7	10D	--F	2 C		.45			F 3	
GRP37685	15	2030	2040	2031	S05	W19	.324	11253	14.4	10	--F		.36				2 2 1 4	
BOUL	15	2030	2043	2030	S04	W20	.342	11253	14.4	13	-F	2 V						
PALE	15	2031E	2037	2032	S05	W17	.291	11253	14.6	6D	-F	2 C		.36			F	
GRP37687	15	2324	2343	2329	N08	E36	.621	11257	18.7	19	-N		1.16				6 6 3 6	
CULG	15	2317	2337	2329	N07	E36	.617	11257	18.7	20	1N	C	2329	1.96	2.30			
MANI	15	2320	2355D	2328	N08	E37	.634	11257	18.7	35D	-N	2	2328	.72	.94			
LOCK	15	2321	2340	2326	N07	E35	.604	11257	18.6	19	-F	C						
PALE	15	2324	2343	2328	N08	E35	.608	11257	18.6	19	-B	3 C		.81			D	
CRON	15	2329	2329D		N08	E36	.621	11257	18.7		-F	2 V						
BOUL	15	2334	2339	2334	N09	E34	.601	11257	18.5	5	-F	1 V						
GRP37688	16	0014	0031	0016	S05	W21	.357	11253	14.4	17	-N		1.39				5 5 4 5	
CULG	16	0012	0036	0019	S05	W20	.341	11253	14.5	24	1B	C	0019	2.27	2.30		E	
LOCK	16	0013	0024	0015	S05	W21	.357	11253	14.4	11	-N	C						
MANI	16	0014E	0045	0017	S05	W23	.389	11253	14.3	31D	-N	2	0017	1.44	1.57			
PALE	16	0015	0028	0015	S06	W21	.357	11253	14.4	13	-N	2 C		1.18			FH	
CRON	16	0015	0023	0016	S05	W21	.357	11253	14.4	8	-N	2 C	0016	.65	.69			
GRP37694	16	0743	0809	0748	N21	E32	.658	11256	18.7	26	1N		3.03				10 10 8 10	
MONT	16	0741	0816	0745	N21	E32	.658	11256	18.7	35	1B	C	0745	4.13			H	
WEND	16	0741	0812		N19	E33	.653	11256	18.8	31	1N	P		5.16			B	
TEHR	16	0742	0820	0747	N21	E32	.658	11256	18.7	38	1N	3 C		2.27			F	
CRON	16	0742	0810	0746	N21	E32	.658	11256	18.7	28	1N	2 C	0746	1.61	2.12			
MANI	16	0742	0820	0752	N22	E33	.675	11256	18.8	38	1N	2	0752	3.30	4.58			
ZURI	16	0743	0801	0747	N20	E29	.620	11256	18.5	18	1N	C	0747	2.31	3.00			
CANR	16	0743	0744		N20	E30	.630	11256	18.6	1	1N	V			2.20			
CATA	16	0745	0815	0750	N21	E32	.658	11256	18.7	30	1B	C	0750	2.15	2.93		269	
CAPS	16	0745	0812		N19	E33	.653	11256	18.8	27	1B	3 V	0748	3.30	4.30		220	
ONDR	16	0749E	0803		N21	E35	.687	11256	19.0	14D	1N	V	0751			2.90	CH CHJU	
GRP37696	16	0855	0903	0857	N19	E30	.621	11256	18.6	8	--N		.26				4 4 4 9	
MANI	16	0854	0909	0857	N18	E30	.613	11256	18.6	15	-N	2	0857	.41	.52			
MONT	16	0855	0900	0857	N20	E30	.630	11256	18.6	5	-N	C	0857	.21				
CRON	16	0855	0901	0856	N19	E30	.621	11256	18.6	6	-N	1 C	0856	.22	.27			
TEHR	16	0856	0902D	0858	N19	E30	.621	11256	18.6	6D	-N	3 C		.19				
GRP37697	16	1152	1232	1202	N16	E17	.459	11256	17.8	40	--N		.87				10 8 8 13	
MEUD	16	1149	1230		N17	E18	.481	11256	17.8	41	-N	C	1200	.52	.60			
RAMY	16	1150	1218	1154	N17	E18	.481	11256	17.8	28	-F	2 C		.83			D	
MCMA	16	1150	1255	1210	N17	E17	.471	11256	17.8	65	-N	C	1210	.52	.60		E	
HTPR	16	1151	1220	1200	N17	E18	.481	11256	17.8	29	-N	C	1200	.52	.60			
TEHR	16	1151	1156D	1155	N17	E19	.490	11256	17.9	50	-F	1 C		.09				
CATA	16	1155E	1240D	1200	N16	E17	.459	11256	17.8	45D	-N	P	1200	.52	.59		162	
MONT	16	1155	1240	1206	N17	E17	.471	11256	17.8	45	-N	C	1206	1.13				
KHAR	16	1156E	1208D		N16	E17	.459	11256	17.8	120	1F	P	1202	2.27	2.59	1.50	D	
ATHN	16	1200E	1213D	1200	N13	E15	.403	11256	17.6	13D	-N	1	1200	.66	1.34	.42		
ZURI	16	1209E	1219D	1209	N16	E18	.469	11256	17.9	10D	-B	P	1209	1.05	1.20			
ZURI	16	1233E	1239D		N16	E18	.469	11256	17.9	6D	-B							

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Apr 71

SOLAR FLARES

Confirmed

APRIL 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1971 APR																	
GRP37701	17	0615	0631	0618	N19	E11	.450	11256	18.1	16	--F			.97			4 4 4 6	
BUCA	17	0615	0633		N19	E12	.457	11256	18.2	18	-F	C	0619	1.10	1.20			
MANI	17	0615E	0636D	0618	N19	E10	.444	11256	18.0	210	-N	2	0618	.52	.56			
KIEV	17	0615	0625	0618	N18	E12	.443	11256	18.2	10	-F	C	0618	1.75	1.90		55 DIH	
ATHN	17	0616	0630	0618	N19	E10	.444	11256	18.0	14	-N	1	0618	.50	.99	.46		
GRP37702	17	0632	0715	0638	N19	E23	.550	11256	19.0	43	--F			1.36			3 3 3 7	
ATHN	17	0631	0700	0635	N18	E22	.529	11256	18.9	29	-F	1	0635	.99	1.98	.55		
BUCA	17	0633	0730		N18	E25	.560	11256	19.1	57	1F	C	0644	2.21	2.60			
CATA	17	0640E	0655D	0640	N20	E23	.560	11256	19.0	150	-N	P	0640	.87	1.04		174	
GRP37703	17	0912	0928	0918	S05	W03	.053	11250	17.2	16	--F			.27			3 2 2 8	
MANI	17	0912	0928D	0918	S06	W03	.053	11250	17.2	160	-N	2	0918	.31	.31			
ATHN	17	0918E	0928	0918	S04	W02	.043	11250	17.2	100	-F	1	0918	.23	.45	.03		
CATA	17	0925E	0945D	0930	S06	W03	.053	11250	17.2	200	-N	P	0930	.34	.35		186	
GRP37707	17	1304	1332	1311	N18	E20	.510	11256	19.0	28	-F			1.16			6 5 4 10	
ATHN	17	1259E	1347	1306	N15	E22	.499	11256	19.2	480	-N	1	1306	.99	1.98	.49		
RAMY	17	1302	1332	1310	N19	E21	.531	11256	19.1	30	-F	3	C	1.03			D	
CAPE	17	1302	1317	1305	N19	E20	.521	11256	19.0	15	-N	C	1305	.90	1.10			
CAPS	17	1303	1335		N19	E20	.521	11256	19.0	32	-F	1	V	1.70	2.00			
CATA	17	1310E	1340D	1320	N18	E21	.520	11256	19.1	300	-B	P	1320	1.39	1.64		209 Z	
BOUL	17	1313	1330	1313	N18	E18	.491	11256	18.9	17	-F	1	V					
GRP37709	17	1448	1528	1500	N18	E20	.510	11256	19.1	40	-N			1.87			7 7 5 8	
CATA	17	1445E	1505D	1500	N17	E21	.509	11256	19.2	200	-B	P	1500	.80	.94		232	
BOUL	17	1446	1535	1458	N19	E17	.495	11256	18.9	49	-N	1	V					
ATHN	17	1447	1535	1454	N15	E20	.477	11256	19.1	48	-N	1	1454	.99	1.98	.48		
CANR	17	1449	1515		N20	E19	.524	11256	19.0	26	-F	V			.40		D	
RAMY	17	1450E	1531	1501	N18	E21	.520	11256	19.2	410	-F	3	C	1.34				
CAPS	17	1451	1518		N19	E20	.521	11256	19.1	27	1F	1	V	2.60	3.10		140	
LVOV	17	1506	1531	1508	N17	E19	.489	11256	19.1	25	1N	P	1510	3.61	4.10		63 E	
GRP37710	17	1633	1647	1635	N22	E12	.498	11256	18.6	14	--F			.52			2 2 1 5	
BOUL	17	1633	1651	1635	N21	E13	.491	11256	18.7	18	-N	1	V					
RAMY	17	1635E	1642	1635	N22	E11	.493	11256	18.5	70	-F	3	C	.52			D	
712 RAMY	17	2014E	2047D	2016	N21	E12	.484	11256	18.7	330	--F	2	C	1.86			D 1	
713 PALE	17	2053E	2145	2055	N17	W02	.384	11256	17.7	520	--F	2	C	.36			2	
714 PALE	17	2056	2109	2107	N08	E02	.235	11257	18.0	13	--N	2	C	.55			F 2	
715 LOCK	17	2155	2230	2205	N21	E11	.478	11256	18.7	35	-N	C					2	
GRP37716	18	0044	0101	0048	N18	W01	.397	11256	18.0	17	--N			.69			2 2 2 3	
MANI	18	0044	0101	0047	N18	W01	.397	11256	18.0	17	-N	2	0047	.83	.86			
PALE	18	0048E	0100D	0048	N18	W01	.397	11256	18.0	120	-N	2	C	.55			D	
717 PALE	18	0048E	0100D		N02	W23	.409	11249	16.3	120	--F	2	C				Z 3	
718 PALE	18	0213	0224D	0220	N10	E06	.284	11257	18.5	110	--F	1	C	.27			F 3	
GRP37723	18	0716	0732	0717	N18	E09	.423	11256	19.0	16	--F			1.00			4 4 4 12	
TEHR	18	0714	0725	0716	N18	E09	.423	11256	19.0	11	-F	4	C	1.10			F	
BUCA	18	0715	0755		N19	E10	.443	11256	19.1	40	1F	C	0717	2.21	2.40			
ATHN	18	0716	0726	0718	N18	E08	.417	11256	18.9	10	-N	1	C	.17	.33	.40		
HTRP	18	0717	0722	0718	N19	E09	.437	11256	19.0	5	-F	C	0718	.52	.50		E	
ATHN	18	0733	0746	0735	N17	E10	.414	11256	19.1	13	-F	1	0735	.33	.66	.39		
GRP37727	18	0942	0953	0943	N20	E05	.436	11256	18.8	11	--F			.47			3 3 3 9	
ATHN	18	0939E	0955	0939	N19	E05	.421	11256	18.8	160	-F	1	0939	.33	.66	.41		
HTRP	18	0940	0943	0941	N20	E05	.436	11256	18.8	3	-F	C	0941	.52	.50		D	
TEHR	18	0948	1000	0949	N22	E06	.470	11256	18.9	12	-N	3	C	.55			F	
GRP37728	18	1104	1135	1110	N19	E06	.424	11256	18.9	31	-N			2.32			10 9 8 11	
KIEV	18	1100	1130	1107	N18	E07	.413	11256	19.0	30	1F	C	1107	2.58	2.80		50 EI	
TEHR	18	1102	1129	1107	N17	E08	.403	11256	19.1	27	-N	3	C	1.73			SF	
ATHN	18	1103	1134	1108	N18	E08	.417	11256	19.1	31	-N	1	1108	1.16	2.31	.42		
CAPS	18	1104	1128		N18	E04	.402	11256	18.8	24	1N	3	P	2.10	2.30		176 CF	
CAPE	18	1104	1140	1107	N18	E06	.409	11256	18.9	36	-N	C	1107	1.45	1.60		FV	
KHAR	18	1105E	1125		N18	E09	.423	11256	19.1	200	1N	P	1110	3.40	3.74	2.10	EHO	
ZURI	18	1105	1200	1111	N19	E06	.424	11256	18.9	55	1N	C	1111	4.20	4.60			
CANR	18	1105	1140	1106	N21	E03	.447	11256	18.7	35	-N	V	1106		.70			
RAMY	18	1105	1130	1108	N20	E05	.436	11256	18.8	25	-N	2	C	1.96			D	
CATA	18	1125E	1145D	1125	N17	E08	.403	11256	19.1	200	-F	P	1125	.58	.63		144	

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH PAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _z	MAX. INT. %	
					LAT.	MER. DIST.												
	1971 APR																	
GRP37731	18	1238	1245	1240	N21	E03	.447	11256	18.8	7	--N			.27			5 4 2 9	
TEHR	18	1236	1246D	1240	N22	E04	.464	11256	18.8	100	-F	3 C		.19			D	
ONDR	18	1237	1244	1240	N21	E01	.445	11256	18.6	7	-N	V	1240				CDHJ	
HUAN	18	1237E	1244		N21	E04	.449	11256	18.8	70	-N	2 P	1237	.35	.39	2.40	D	
CANR	18	1240	1246	1240	N21	E03	.447	11256	18.8	6	-N	V	1240		.30			
BOUL	18	1243	1305	1250	N20	E04	.433	11256	18.8	22	-F	1 V						
GRP37732	18	1457	1523	1504	S20	E05	.266	11255	19.0	26	-N			1.13			5 5 3 9	
MCMA	18	1430	1530	1506	S20	E05	.266	11255	19.0	60	-N	C	1506	1.34	1.40		FL	
BOUL	18	1453	1520	1503	S20	E04	.261	11255	18.9	27	1N	2 V						
CAPE	18	1454	1512D	1500	S20	E05	.266	11255	19.0	180	-N	P	1500	1.55	1.60			
HUAN	18	1503E	1506D	1505U	S18	E06	.240	11255	19.1	30	-N	2 P	1505	.30	.31		E	
HUAN	18	1503E	1506D	1505U	S24	E06	.334	11255	19.1	30	-N	2 P	1505	.21	.22		E	
CANR	18	1507	1518		S20	E05	.266	11255	19.0	11	1F	V			2.30			
GRP37736	18	1705	1739	1715	N21	W01	.445	11256	18.6	34	1N			1.77			7 7 5 8	
RAMY	18	1651	1715	1656	N22	W02	.461	11256	18.6	24	-F	1 C		.72			D	
PALE	18	1653	1728	1718	N20	W03	.431	11256	18.5	35	-N	2 C		1.90			D	
MCMA	18	1655	1830	1715	N22	W02	.461	11256	18.6	95	1B	C	1715	1.86	2.10		F	
HUAN	18	1702E	1829	1728U	N22	W05	.467	11256	18.3	87D	-N	2 P	1728	.53	.59			
LOCK	18	1707	1745	1717	N21	W02	.445	11256	18.6	38	1F	C						
HUAN	18	1707	1712D	1709	N22	W01	.460	11256	18.6	5D	-N	2 P	1709	.10	.12		D	
RAMY	18	1707	1737	1711	N23	W05	.482	11256	18.3	30	-N	2 C		1.65			F	
ZURI	18	1709	1729	1717	N22	E04	.464	11256	19.0	20	1N	C	1717	3.36	3.80			
BOUL	18	1712	1743	1717	N20	E01	.429	11256	18.8	31	1N	1 V						
HUAN	18	1726E	1753	1732	N24	E03	.493	11256	19.0	27D	-F	2 P	1732	.48	.55		E	
738 LOCK	18	2239	2250	2243	N09	W05	.263	11257	18.6	11	--F	C					1	
GRP37739	18	2315	2331	2317	S07	W30	.498	11250	16.7	16	-N			2.02			3 3 2 3	
LOCK	18	2313	2330	2315	S07	W30	.498	11250	16.7	17	-B	C						
VORO	18	2316	2326	2319	S08	W31	.513	11250	16.6	10	-F	C	2319	.84	1.00	62	EJ	
CULG	18	2316E	2336D		S07	W30	.498	11250	16.7	20D	1B	P	2316	3.20	3.50			
GRP37742	19	0257	0305	0300	N17	W04	.385	11256	18.8	8	--N			.64			5 5 5 7	
CRON	19	0256	0304	0259	N17	W04	.385	11256	18.8	8	-N	2 C	0259	.54	.58			
TEHR	19	0257	0306	0300	N16	W04	.369	11256	18.8	9	-N	3 C		.55			HD	
MANI	19	0258E	0305	0259	N18	W04	.401	11256	18.8	7D	-N	1	0259	.93	.98			
VORO	19	0258	0302	0259	N17	W05	.388	11256	18.7	4	-F	C	0259	.84	.90	115	D	
PALE	19	0300E	0306	0301	N17	W05	.388	11256	18.8	6D	-N	2 C		.36			F	
GRP37743	19	0337	0350	0343	N19	W06	.423	11256	18.7	13	--F			.36			2 2 1 6	
PALE	19	0332	0350	0338	N19	W05	.419	11256	18.8	18	-F	1 C		.36			F	
CRON	19	0341	0350	0347	N18	W06	.407	11256	18.7	9	-F	3 V						
GRP37744	19	0533	0542	0537	N22	W10	.485	11256	18.5	9	-N			1.82			4 4 4 7	
TEHR	19	0529	0543	0536	N22	W08	.476	11256	18.6	14	-N	3 C		.73			D	
CULG	19	0532	0541D	0538	N22	W17	.530	11256	18.0	9D	1N	P	0538	3.30	3.60			
ABST	19	0535E	0543D	0538	N22	W07	.472	11256	18.7	8D	1N	P	0538	1.98	2.20	55	E	
TACH	19	0535	0541	0536	N21	W07	.457	11256	18.7	6	-N	C	0536	1.28	1.45	1.83 64		
GRP37750	19	0755	0804	0756	N18	W09	.422	11256	18.7	9	--N			.38			3 3 3 12	
TEHR	19	0755	0804	0757	N18	W08	.416	11256	18.7	9	-N	3 C		.28			D	
CATA	19	0755E	0800D	0755	N17	W10	.413	11256	18.6	5D	-N	P	0755	.46	.51	193	Z	
HTPR	19	0756	0804	0757	N18	W08	.416	11256	18.7	8	-F	C	0757	.41	.40		E	
GRP37753	19	1131	1146	1135	N18	W09	.422	11256	18.8	15	--N			.80			4 4 4 15	
ZURI	19	1130	1142	1134	N17	W09	.407	11256	18.8	12	-N	C	1134	1.42	1.50			
MCMA	19	1132	1150	1133	N18	W09	.422	11256	18.8	18	-N	C	1133	.46	.50		E	
RAMY	19	1134E	1142	1136	N19	W08	.431	11256	18.9	8D	-F	1 C		.46			D	
CATA	19	1135E	1150D	1135	N18	W10	.427	11256	18.7	15D	-N	P	1135	.87	.96	174		
15 STATIONS REPORTING GROUP 37754.					3 STATIONS OBSERVING AND NOT REPORTING.													
GRP37754	19	1221	1324	1239	S22	W07	.309	11255	19.0	63	1N			3.03			13 12 10 16	
ISTA	19	1210	1240	1233	S18	W10	.275	11255	18.8	30	-N						E	
MCMA	19	1210	1430	1240	S24	W06	.335	11255	19.1	140	1B	C	1240	2.06	2.10		FLSUV	
ZURI	19	1210	1306D	1238	S22	W04	.295	11255	19.2	56D	1B	P	1238	3.78	4.00			
ATHN	19	1213E	1310	1243	S22	W05	.299	11255	19.1	57D	-N	1	1243	2.64	2.58	.29	CDEFHJ	
ONDR	19	1220	1351	1246	S23	W08	.331	11255	18.9	91	2F	V	1246			2.50	FS	
TEHR	19	1222E	1300	1227	S20	W07	.279	11255	19.0	38D	-N	3 C						
MONT	19	1223	1321	1237	S21	W06	.288	11255	19.1	58	2B	C	1237	6.81				
HUAN	19	1226E	1409	1246U	S22	W07	.309	11255	19.0	103D	1N	2 C	1246	2.18	2.30		E	
CAPE	19	1233	1320	1240	S22	W06	.304	11255	19.1	47	-B	C	1240	1.67	1.80		H	
CAPS	19	1235	1313		S20	W06	.273	11255	19.1	38	1B	P	1238	4.00	4.00	204		
CATA	19	1235E	1300D	1238	S22	W07	.309	11255	19.0	25D	1B	P	1238	2.32	2.44	219		
CANR	19	1237U	1329	1242U	S22	W05	.299	11255	19.2	52D	1F	1 C	1242	2.15	2.16		F	
RAMY	19	1239E	1336D	1243	S20	W08	.286	11255	18.9	57D	1N	2 C		2.68				
ZURI	19	1322E	1336D		S22	W04	.295	11255	19.3	14D	1B							

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS				REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
					LAT.	MER. DIST.												
	1971 APR																	
37754	19	1305	1323	1306	S20	W07	.279	11255	19.0	18	*1F			4.52			2 2 2 16	
CAPF	19	1305	1320		S21	W06	.288	11255	19.1	15	1F	P	1314	4.54	4.62			
ABST	19	1306E	1325D	1306	S21	W05	.283	11255	19.2	190	1N	P	1306	4.50	4.70	52	BE	
ABST	19	1306E	1325D	1306	S18	W09	.266	11255	18.9	190	1N	P	1306	4.42	4.60	50	BE	
GRP37755	19	1321	1335	1324	S06	W39	.627	11250	16.6	14	--N			.55			7 7 7 16	
CANR	19	1320	1328	1324U	S07	W38	.613	11250	16.7	8	-N	1 C	1324	.43	.54			
HUAN	19	1320	1338	1325U	S06	W39	.627	11250	16.6	18	-N	2 P	1325	.35	.45		E	
CAPE	19	1321	1332	1324	S05	W39	.627	11250	16.6	11	-F	C	1324	.90	1.10			
MONT	19	1321	1336	1323	S05	W39	.627	11250	16.6	15	-N	C	1323	.72				
MCMA	19	1321	1345	1324	S07	W39	.627	11250	16.6	24	-B	C	1324	.52	.70		E	
ATHN	19	1323E	1326	1323	S05	W40	.641	11250	16.6	3D	-N	1	1323	.33	.66	.64		
CATA	19	1325E	1340D	1325	S07	W39	.627	11250	16.6	15D	-N	P	1325	.58	.75	178		
GRP37757	19	1507	1516	1510	N22	W12	.496	11256	18.7	9	--N			.66			4 4 4 10	
HUAN	19	1507	1515	1510U	N22	W13	.502	11256	18.7	8	-N	2 P	1510	.28	.32		E	
MCMA	19	1507	1514	1511	N21	W13	.488	11256	18.7	7	-N	C	1511	.52	.60		E	
ZURI	19	1508	1516	1510	N23	W09	.494	11256	19.0	8	-N	C	1510	1.32	1.50			
ATHN	19	1510E	1519	1510	N21	W12	.482	11256	18.7	9D	-N	1	1510	.50	.99	.48		
GRP37760	19	1710	1722	1712	S08	W37	.600	11250	16.9	12	--N			.44			4 4 3 5	
RAMY	19	1709	1722	1713	S08	W35	.572	11250	17.1	13	-N	2 C		.67			D	
LOCK	19	1710	1722	1712	S07	W37	.599	11250	16.9	12	-N	C					V	
HUAN	19	1710	1720	1712U	S07	W38	.613	11250	16.9	10	-N	2 P	1712	.25	.31		E	
MCMA	19	1711	1725	1712	S08	W38	.613	11250	16.9	14	-B	C	1712	.41	.50		E	
GRP37761	19	1830	1841	1832	N21	W13	.488	11256	18.8	11	--N			.51			4 4 3 4	
RAMY	19	1829	1845	1832	N21	W13	.488	11256	18.8	16	-F	2 C		.41			D	
LOCK	19	1830	1842	1832	N22	W13	.502	11256	18.8	12	-N	C						
HUAN	19	1830	1840	1833	N21	W13	.488	11256	18.8	10	-N	1 C	1833	.40	.46		E	
MCMA	19	1831	1838	1832	N20	W13	.475	11256	18.8	7	-N	C	1832	.72	.80		E	
GRP37762	19	1903	1921	1905	N22	W15	.515	11256	18.7	18	--F			.34			2 2 2 4	
RAMY	19	1902	1930	1904	N22	W14	.508	11256	18.7	28	-F	2 C		.46			D	
HUAN	19	1903	1911	1906U	N22	W15	.515	11256	18.7	8	-F	1 P	1906	.21	.24		D	
GRP37763	19	2130	2151	2135	S10	E57	.835	11265	24.2	21	-N			.92			3 3 3 3	
PALE	19	2123E	2157	2132	S10	E57	.835	11265	24.2	34D	-N	1 C		1.18			F	
RAMY	19	2126	2148D	2137	S11	E57	.835	11265	24.2	22D	-B	1 C		1.03			F	
VORO	19	2140	2147		S09	E58	.844	11265	24.3	7	-F	C	2141	.56	1.00	77	EJ	
	19	2148	2155	NO FLARE PATROL														
GRP37764	19	2211	2231	2222	S06	W43	.679	11250	16.7	20	--N			.64			3 3 2 3	
MANI	19	2202E	2233	2223	S05	W40	.641	11250	16.9	31D	-N	1	2223	.62	.81			
VORO	19	2219	2229	2221	S08	W45	.704	11250	16.6	10	-F	C	2221	.65	.90	86	EJ	
PALE	19	2220E	2222D		U	S06	.704	11250	16.6	2D	-N	1 C						
765 MANI	19	2230E	2237	2233	N20	W16	.497	11256	18.7	7D	--N	1	2233	.31	.35		1	
	19	2238	2301	NO FLARE PATROL														
6 STATIONS REPORTING GROUP 37766. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37766	20	0055	0156	0107	N20	W17	.504	11256	18.8	61	-N			1.81			4 4 4 7	
PALE	20	0054E	0132D	0058	N20	W17	.504	11256	18.8	38D	-F	2 C		.91			F	
MANI	20	0055	0157	0105	N19	W17	.491	11256	18.8	62	-B	1	0105	1.34	1.55			
VORO	20	0056	0155	0112	N21	W18	.524	11256	18.7	59	1F	C	0112	2.96	3.40	124	EJ	
CRON	20	0105U	0130D	0113	N20	W16	.496	11256	18.8	25D	1B	2 C	0113	2.04	2.32			
37766	20	0104	0223	0120	N22	W16	.521	11256	18.8	79	*1F			5.21			2 2 2 5	
SIBE	20	0103E	0150D		N22	W16	.521	11256	18.8	47D	2F	C		7.43	8.20	51		
MITK	20	0105	0223	0120	N21	W16	.508	11256	18.8	78	1N	C	0120	2.99	3.50		E	
GRP37767	20	0408	0452	0426	S12	E54	.806	11265	24.2	44	1N			2.46			5 5 5 6	
ABST	20	0401	0455	0422	S12	E55	.816	11265	24.3	54	2N	C	0422	3.60	6.00	59	FZ	
TEHR	20	0405	0447	0421	S11	E55	.816	11265	24.3	42	-N	3 C		.73			D	
CULG	20	0410E	0507	0425	S12	E54	.806	11265	24.2	57D	2N	P	0425	3.92	6.40			
CRON	20	0414	0443	0427	S13	E53	.797	11265	24.2	29	-N	2 C	0427	.75	1.26			
KODA	20	0434E	0448	0434	S12	E55	.816	11265	24.3	14D	1N	V	0436	3.30	3.30	1.52		

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1971 APR																	
GRP37769	20	0513	0612	0522	N20	W20	.529	11256	18.7	59	2B		5.80				10 8 7 10	
CULG	20	0410	05560	0427	N20	W18	.512	11256	18.8	1060	3N		17.33	20.10				
TEHR	20	0511	0609	0519	N20	W20	.529	11256	18.7	58	1B	4 C	2.73				F	
CRON	20	0514	0550	0520	N20	W20	.529	11256	18.7	36	1B	2 C	0520	3.76	4.43			
ABST	20	0514	0700	0519	N21	W20	.541	11256	18.7	106	2B	C	0519	9.00	10.80	94	FJZ	
KODA	20	0515E	05350	0519	N20	W19	.521	11256	18.8	200	2B	C	0524	8.46	8.50	3.84	FIK	
MANI	20	0517E	0618	0524	N21	W18	.524	11256	18.9	610	1B	2 C	0524	8.25	10.00			
ONDR	20	0524E	0632		N20	W19	.521	11256	18.8	680	3B	V	0529			4.10	CFJ	
CATA	20	0527E	06100	0527	N20	W20	.529	11256	18.7	430	1B	P	0527	3.48	4.10	380		
ATHN	20	0529E	06150	0529	N18	W21	.517	11256	18.7	460	2N	1 C	0529	4.95	9.48	.53		
CAPS	20	0556E	0617		N20	W21	.539	11256	18.7	210	1F	P	0606	3.00	3.60	150	B	
GRP37771	20	0858	0933	0910	N20	W21	.539	11256	18.8	35	1N		1.79				12 10 8 12	
TEHR	20	0855	0931	0904	N20	W21	.539	11256	18.8	36	-B	3 C		.64			D	
ARCE	20	0856	0950	0910	N19	W24	.557	11256	18.6	54	1N	C	0910	2.90	3.40		F	
MONT	20	0856	0943	0911	N21	W20	.541	11256	18.9	47	1N	C	0911	2.58				
HTPR	20	0856	0923	0907	N20	W21	.539	11256	18.8	27	-N	C	0907	1.24	1.40		E	
CAPE	20	0857	0930	0909	N20	W21	.539	11256	18.8	33	-N	C	0909	1.08	1.30			
MEUD	20	0857	0935	0909	N20	W21	.539	11256	18.8	38	1B	C	0909	1.86	2.20		E	
ONDR	20	0900E	0926		N20	W21	.539	11256	18.8	260	2N	V	0905			2.40	CFJ	
CRON	20	0900	0936	0909	N19	W21	.528	11256	18.8	36	-N	3 V						
CAPS	20	0901	0932		N19	W20	.518	11256	18.9	31	-N	V	0903	1.20	1.40	170	CE	
CANR	20	0905	0906		N21	W35	.684	11256	17.8	1	-N	1 V	0906		.80			
KHAR	20	0908E	0926		N20	W23	.557	11256	18.7	180	1N	P	0912	2.84	3.45	2.40	EO	
CATA	20	0915E	0940	0920	N20	W23	.557	11256	18.7	250	-B	P	0920	.98	1.17	219		
GRP37773	20	1212	1244	1215	S03	W50	.765	11250	16.8	32	-N		.71				9 8 7 13	
CATA	20	1210E	12200	1215	S06	W50	.763	11250	16.8	100	-B	P	1215	.75	1.20	214	Z	
TEHR	20	1210	1218	1214	S02	W51	.777	11250	16.7	8	-N	3 C		.55			F	
RAMY	20	1211	1248	1215	S04	W50	.764	11250	16.8	37	-F	2 C		.62			D	
CAPS	20	1212	1251		S02	W45	.707	11250	17.1	39	-N	3 V	1214	.80	1.10		E	
ONDR	20	1214	12470		S03	W51	.776	11250	16.7	330	1F	V	1222			2.10	C	
MONT	20	1214	1226	1216	S01	W50	.767	11250	16.8	12	-N	C	1216	1.55				
TEHR	20	1219	1255	1220	S03	W51	.776	11250	16.7	36	-N	3 C		.36			D	
MCMA	20	1221E	1300		S06	W52	.785	11250	16.6	390	-N	C	1221	.52	.90		E	
HTPR	20	1222E	1240		S03	W50	.765	11250	16.8	180	-F	C	1222	.21	.30		D	
MEUD	20	1227E	12270		S04	W50	.764	11250	16.8		-F	C	1227	.21	.30		D	
GRP37774	20	1321	1331	1322	N20	W21	.539	11256	19.0	10	-N		1.01				7 7 7 11	
MCMA	20	1240E	1331	1321	N21	W22	.559	11256	18.9	510	-N	C	1321	.77	.80		E	
RAMY	20	1319E	1338	1322	N21	W22	.559	11256	18.9	190	-N	2 C		.83			O	
TEHR	20	1320	1328	1320	N20	W21	.539	11256	19.0	8	-N	3 C		.28			D	
MONT	20	1320	1327	1323	N21	W22	.559	11256	18.9	7	-N	C	1323	2.27				
HTPR	20	1321E	1328		N20	W22	.548	11256	18.9	70	-F	C	1321	.52	.60		E	
MEUD	20	1322	1330		N20	W20	.529	11256	19.1	8	-N	C	1323	.93	1.10		E	
CAPS	20	1323	1332		N20	W21	.539	11256	19.0	9	-N	3 V	1325	1.50	1.80	189		
GRP37779	20	1520	1529	1522	S07	W53	.796	11250	16.7	9	--N		.33				4 4 4 8	
RAMY	20	1518	1535	1522	S08	W50	.763	11250	16.9	17	-F	1 C		.41			D	
HUAN	20	1519	15230		S07	W55	.816	11250	16.5	40	-N	2 P	1523	.12	.21		D	
MCMA	20	1520	1527	1522	S06	W53	.796	11250	16.7	7	-N	C	1522	.26	.40		D	
MONT	20	1521	1525	1522	S07	W53	.796	11250	16.7	4	-N	C	1522	.52				
GRP37781	20	1630	1639	1633	N21	W24	.577	11256	18.9	9	--F		.35				3 3 3 5	
HUAN	20	1629	1639	1630U	N22	W26	.605	11256	18.7	10	-N	2 P	1630	.23	.28			
MCMA	20	1630	1639	1634	N21	W25	.586	11256	18.8	9	-F	C	1634	.31	.40		E	
RAMY	20	1631	16360	1635	N20	W22	.548	11256	19.0	50	-F	1 C		.52			D	
3 STATIONS REPORTING GROUP 37782.					1 STATIONS OBSERVING					AND NOT REPORTING.								
GRP37782	20	1631	1715	1640	S23	W21	.453	11255	19.1	44	-N		1.17				3 3 3 4	
RAMY	20	1630	17000	1635	S22	W20	.432	11255	19.2	300	-F	1 C		1.86			F	
HUAN	20	1631	16530	1645	S23	W20	.442	11255	19.2	220	-N	2 P	1645	.30	.34		D	
MCMA	20	1632	1715	1640	S23	W22	.465	11255	19.0	43	-N	C	1640	1.34	1.40		E	
782 HUAN	20	1631	1652	1637	S19	W35	.599	11255	18.1	21	*-N	2 C	1637	.21	.23		4	
GRP37783	20	1924	2141	1946	S06	W50	.763	11250	17.1	137	1B		1.86				4 3 2 4	
MCMA	20	1919	21270	1947	S08	W50	.763	11250	17.1	1280	1B	C	1947	2.32	3.60		FHLUZ	
RAMY	20	1919	21150	1930	S08	W46	.716	11250	17.4	1160	1N	1 C		2.89			FS	
HUAN	20	1921	21550	1944	S06	W47	.729	11250	17.3	1540	-B	2 P	1944	.94	1.37		E	
HUAN	20	1923	2101	1945	S06	W53	.796	11250	16.8	98	-B	2 C	1945	.45	.73		D	
BOUL	20	1930	1955		S03	W50	.765	11250	17.1	25	1N	1 V						
GRP37788	21	0149	0203	0157	S07	W59	.854	11250	16.7	14	--F		.32				2 2 2 5	
MANI	21	0145E	0206	0159	S07	W58	.845	11250	16.7	210	-N	2 C	0159	.52	.92			
CRON	21	0152	0159	0155	S06	W59	.854	11250	16.7	7	-F	2 C	0155	.11	.20			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
GRP37789	21	0222	0246	0230	S08	W60	.863	11250	16.6	24	-N			.61				2 2 2 7
MANI	21	0216	0246	0230	S08	W62	.880	11250	16.4	30	-N	2	0230	.93	1.77			D
TEHR	21	0228	0245	0230	S07	W58	.845	11250	16.8	17	-N	3		.28				
8 STATIONS REPORTING GROUP 37791. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37791	21	0605	0631	0611	N18	W45	.767	11256	17.9	26	--N			.54				6 6 6 10
MANI	21	0551E	0637	0604	N18	W46	.776	11256	17.8	460	-N	2	0604	1.03	1.61			
ATHN	21	0600	0620	0611	N18	W46	.776	11256	17.8	20	-N	1	0611	.33	.66	.77		
TEHR	21	0603	0633	0610	N18	W45	.767	11256	17.9	30	-N	3	C	.28				D
CRON	21	0607	0623	0612	N18	W44	.757	11256	18.0	16	-F	1	C	.22	.33			
CATA	21	0610E	0635D	0610	N16	W46	.768	11256	17.8	250	-B		P	.29	.45		209	
BUCA	21	0615	0636		N18	W42	.737	11256	18.1	21	-N		P	0619	1.10	1.60		
37791	21	0600	0627	(0622)	N18	W48	.795	11256	17.7	27	*-N							2 2 0 11
CAPS	21	0600E	0629		N16	W48	.788	11256	17.6	290	-N	3	V					E
ONDR	21	0621E	0625		N19	W47	.790	11256	17.7	40	-N		V			2.30		CDJ
GRP37794	21	0813	0831	0818	N19	W47	.790	11256	17.8	18	-F			.61				3 3 2 15
ABST	21	0808E	0830D	0821	N18	W47	.786	11256	17.8	220	-F		P	0821	.90	1.50		49
MEUD	21	0815	0817	0815	N19	W47	.790	11256	17.8	2	-F		C	0815	.31	.50		
ONDR	21	0815	0847		N19	W48	.799	11256	17.7	32	1N		V	0816			2.30	CHJ
37794	21	0826	0848	0829	N19	W47	.790	11256	17.8	22	*-F			.40				2 2 2 14
MEUD	21	0826	0845	0830	N19	W47	.790		17.8	19	-F		C	0830	.52	.80		
TEHR	21	0828E	0850	0828	N18	W46	.776		17.9	220	-N	2	C		.28			D
GRP37796	21	0902	0920	0905	N18	W47	.786	11256	17.9	18	-N			.57				6 6 5 14
MEUD	21	0857	0925	0905	N19	W47	.790	11256	17.8	28	-F		C	0905	.41	.60		
MONT	21	0858	0921	0907	N19	W47	.790	11256	17.8	23	-N		C	0907	1.13			
TEHR	21	0900	0920	0902	N18	W47	.786	11256	17.9	20	-N	2	C		.19			D
ONDR	21	0903E	0923		N19	W48	.799	11256	17.8	200	1N		V	0908			2.40	CHJ
ATHN	21	0906E	0911	0907	N18	W47	.786	11256	17.9	50	-N	1		0907	.33	.66	.78	
CAPS	21	0907	0918		N16	W48	.788	11256	17.8	11	-N		V	0908	.80	1.30		164
GRP37799	21	1113	1131	1116	N20	W35	.677	11256	18.8	18	--N			.35				5 5 5 13
CANR	21	1110	1125	1115	N24	W32	.678	11256	19.1	15	-N	2	C	1115	.43	.59		
RANY	21	1112	1133	1114	N20	W36	.687	11256	18.8	21	-F	3	C		.41			D
MONT	21	1115	1126	1116	N19	W35	.670	11256	18.8	11	-N		C	1116	.52			
CATA	21	1115E	1145D	1120	N17	W39	.700	11256	18.5	300	-N		P	1120	.23	.32		174
ATHN	21	1115E	1125	1115	N20	W34	.667	11256	18.9	100	-F	1		1115	.17	.33	.66	
GRP37800	21	1116	1139	1119	N18	W48	.795	11256	17.9	23	-N			1.25				12 12 12 13
CANR	21	1114	1133	1119	N18	W47	.786	11256	17.9	19	-N	2	C	1119	.86	1.40		
TEHR	21	1114	1129	1118	N18	W47	.786	11256	17.9	15	-N	2	C		.45			D
RANY	21	1114	1145	1119	N18	W48	.795	11256	17.9	31	-N	3	C		.93			D
CATA	21	1115E	1145D	1120	N19	W50	.817	11256	17.7	300	-B		P	1120	.75	1.25		266
ATHN	21	1115E	1139	1117	N17	W51	.819	11256	17.6	240	-N	1		1117	.83	1.65	.81	
KIEV	21	1116	1140	1120	N20	W50	.821	11256	17.7	24	1N		C	1120	1.55	2.70		60
CAPE	21	1116	1135	1119	N19	W48	.799	11256	17.9	19	-N		C	1119	.81	1.30		
MONT	21	1116	1140	1118	N19	W48	.799	11256	17.9	24	-B		C	1118	1.55			
WEND	21	1116	1136		N19	W47	.790	11256	17.9	20	1N		V		3.09			
KHAR	21	1117E	1142D		N19	W48	.799	11256	17.9	250	1N		P	1123	2.27	3.95	2.90	DO
ZURI	21	1117	1137	1121	N17	W48	.791	11256	17.9	20	-N		C	1121	1.16	1.90		
CAPS	21	1118	1145		N16	W48	.788	11256	17.9	27	-N		V	1120	.80	1.30		170
GRP37802	21	1341	1353	1343	N19	W36	.680	11256	18.9	12	--N			.40				5 5 5 11
MCMA	21	1339	1353	1343	N17	W39	.700	11256	18.6	14	-N		C	1343	.31	.40		E
RANY	21	1340E	1350	1340	N21	W35	.684	11256	18.9	100	-F	2	C		.52			D
LOCA	21	1340	1352	1343	N20	W33	.656	11256	19.1	12	-N		V	1343	.53	.60		
ATHN	21	1341	1357	1344	N21	W37	.704	11256	18.8	16	-F	1		1344	.33	.66	.70	
CANR	21	1343	1353	1344	N18	W38	.695	11256	18.7	10	-N	2	C	1344	.32	.45		
GRP37804	21	1429	1434	1429	N20	W37	.697	11256	18.8	5	--N			.22				3 3 2 13
MCMA	21	1428	1434	1429	N19	W38	.701	11256	18.8	6	-F		C	1429	.26	.30		D
BOUL	21	1429	1434	1429	N21	W35	.684	11256	19.0	5	-N	1	V					
CATA	21	1430E	1435	1430	N20	W38	.707	11256	18.8	50	-N		P	1430	.17	.25		186
GRP37805	21	1517	1544	1530	N17	W50	.810	11256	17.9	27	--F			.48				5 4 3 9
BOUL	21	1516	1537	1527	N17	W49	.801	11256	18.0	21	-N	1	V					
ATHN	21	1517E	1547	1525	N17	W50	.810	11256	17.9	300	-F	1		1525	.50	.99	.81	
RANY	21	1518	1547	1525	N18	W50	.814	11256	17.9	29	-F	2	C		.52			D
MCMA	21	1523E	1546D		N17	W52	.828	11256	17.7	230	-N		P	1524	.41	.70		E
HUAN	21	1542E	1549	1543U	N18	W53	.840	11256	17.7	70	-N	2	P	1543	.33	.58		D
GRP37807	21	1908	1937	1912	N18	W54	.849	11256	17.7	29	--N			.45				2 2 1 3
LOCK	21	1907	1950	1912	N19	W54	.851	11256	17.7	43	-N		C					
PALE	21	1909	1923	1912	N17	W54	.846	11256	17.7	14	-N	2	C		.45			F

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1971 APR	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H ₀	MAX. INT. %	
					LAT.	MER. DIST.												
GRP37809 HUAN LOCK	21	2013	2048	2019	N18	W56	.865	11256	17.6	35	--N			.25				2 1 1 4
	21	2013	2048D	2019	N18	W56	.865	11256	17.6	35D	-N	1 P	2019	.25	.47			D
	21	2037	2053	2043	N19	W54	.851	11256	17.8	16	-F							
812 PALE	21	2132	2151	2141	S08	W69	.931	11250	16.7	19	--F	2 C		.36				3
813 PALE	21	2155	2202	2158	N16	W47	.778	11257	18.4	7	--F	2 C		.27				F 2
GRP37818 ABST ATHN CRON	22	0515	0524	0518	N21	W45	.780	11256	18.8	9	--F			.66				3 3 2 5
	22	0514	0526	0518	N23	W46	.798	11256	18.8	12	-F	C	0518	.81	1.40		50	E
	22	0515E	0525	0516	N21	W44	.770	11256	18.9	10D	-F	1	0516	.50	.99	.77		
	22	0517	0522	0520	N20	W45	.775	11256	18.8	5	-N	3 V						
GRP37821 CANR CATA CAPE ABST ONDR ATHN TEHR MONT CAPS ARCE	22	0943	0959	0947	N18	W61	.902	11256	17.8	16	-N			.77				10 9 8 13
	22	0940	0950	0942	N17	W60	.893	11256	17.9	10	-N	2 C	0942	.32	.71			
	22	0940E	0945D	0941	N18	W61	.902	11256	17.8	5D	-B	P	0941	.52	1.19		224	
	22	0941	1000	0943	N18	W60	.895	11256	17.9	19	-N	C	0943	.72	1.60			
	22	0941	1000	0944	N19	W61	.904	11256	17.8	19	1F	C	0944	1.08	2.50		53	EJZ
	22	0942E	0954		N20	W61	.906	11256	17.8	12D	1N	V	0944			2.80		CJR
	22	0943E	1003	0943	N20	W62	.912	11256	17.8	20D	-B	1	0943	.50	.99	.91		D
	22	0945E	0957D	0945	N15	W70	.952	11256	17.2	12D	-N	1 C		.28				
	22	0946	1006	0955	N20	W59	.892	11256	18.0	20	-N	C	0955	2.27				
	22	0946	1003D		N18	W55	.856	11256	18.3	17D	-N	3 V	0949	.50	.90		170	H
	22	0949E	1004D	0950	N17	W50	.810	11256	18.7	15D	-F	C	0950	.29	.50			
GRP37823 ATHN RAMY ONDR	22	1237	1253	1242	N19	W64	.923	11256	17.7	16	-F			.52				3 2 1 9
	22	1237E	1254	1241	N18	W75	.976	11256	16.9	17D	-N	1	1241	.50	.99	.94		D
	22	1238	1254	1242	N18	W62	.909	11256	17.9	16	-F	2 C		.52				CDJR
	22	1241E	1252		N20	W66	.936	11256	17.6	11D	-N	V	1242			2.00		
GRP37825 ATHN RAMY ONDR	22	1413	1446	1416	N19	W64	.923	11256	17.8	33	-N			.73				3 3 2 7
	22	1411	1448	1418	N19	W65	.929	11256	17.7	37	-N	1	1418	.83	1.65	.91		D
	22	1413	1437	1414	N18	W63	.915	11256	17.9	24	-F	2 C		.62				CHJKU
	22	1416	1454		N20	W64	.925	11256	17.8	38	1N	V	1426			2.80		
GRP37826 ONDR RAMY LOCK MCMA PALE	22	1654	1706	1659	N19	W65	.929	11256	17.8	12	-N			.53				5 5 3 5
	22	1653	1702D	1658	N20	W65	.931	11256	17.8	9D	1N	V	1658			2.30		CJ
	22	1654	1710	1657	N19	W65	.929	11256	17.8	16	-N	3 C		.72				D
	22	1654	1705	1656	N19	W65	.929	11256	17.8	11	-N	C						
	22	1655	1702	1656	N17	W65	.926	11256	17.8	7	-B	C	1656	.41	1.20			E
	22	1707E	1710	1707	N18	W67	.939	11256	17.7	3D	-N	2 C		.45				F
GRP37827 MCMA HUAN PALE	22	1825E	1844	1831	N17	W65	.926	11256	17.9	19	--F			.41				3 2 2 5
	22	1800E	1930D		N17	W65	.926	11256	17.9	90D	-N	C	1815	.26	.80			D
	22	1825E	1835	1830U	N17	W66	.932	11256	17.8	10D	-F	1 P	1830	.18				D
	22	1831E	1853D	1832	N17	W64	.920	11256	18.0	22D	-N	2 C		.63				
GRP37832 LOCK PALE MCMA	22	2201	2215	2206	N18	W68	.945	11256	17.8	14	--F			.38				3 3 2 4
	22	2200	2213	2205	N19	W67	.941	11256	17.9	13	-F	C						
	22	2202	2216	2207	N18	W67	.939	11256	17.9	14	-N	2 C		.55				F
	22	2202	2204D		N17	W70	.954	11256	17.7	2D	-F	C	2204	.21	.80			E
GRP37837 ATHN CAPE ABST MANI BUCA CRON	23	0723	0738	0727	N19	W72	.965	11256	17.9	15	-N			.72				6 5 5 8
	23	0718	0746	0725	N19	W72	.965	11256	17.9	28	-N	1		.50	.99	.91		
	23	0723	0730	0725	N19	W78	.986	11256	17.5	7	-N	C	0725	.90	3.10			
	23	0724E	0733D	0724	N17	W74	.971	11256	17.8	9D	1F	P	0724	.90				DZ
	23	0724E	0736	0726	N20	W68	.947	11256	18.2	12D	-N	1		.62	1.33			
	23	0725	0745		N19	W70	.956	11256	18.1	20	-N	C	0725	.66				
GRP37842 RAMY ATHN CATA CANR ZURI	23	0731	0741	0736	N18	W70	.955	11256	18.1	10	-N	3 V						
	23	1103	1159	1110	S12	E11	.224	11265	24.3	56	-N			.98				5 4 4 6
	23	1100	1148	1104	S12	E10	.210	11265	24.2	48	-N	1 C		1.13				F
	23	1103E	1210	1114	S11	E12	.231	11265	24.4	67D	-N	1	1114	1.98		.23		
	23	1105E	1110D	1105	S12	E11	.224	11265	24.3	5D	-F	P	1105	.58	.59		145	
	23	1105	1144D	1115	S13	E11	.234	11265	24.3	39D	-N	2 C	1115	.22	.22			
GRP37844 RAMY CANR	23	1156E	1202D	1156	S12	E06	.160	11265	23.9	6D	1N	P	1156	2.31	2.30			
	23	1345	1356		N21	W73	.971	11256	18.1	11	--F							2 2 0 5
	23	1345	1356		N20	W73	.970	11256	18.1	11	-F	1 C						D
	23	1347	1353		N22	W72	.967	11256	18.2	6	-N	2 V						
	23	2026	2042	2035	N20	W86	.999	11256	17.4	16	-N			.96				3 3 1 3
	23	2025	2044	2034	N20	W79	.989	11256	17.9	19	-N	C						
GRP37849 LOCK MCMA HUAN	23	2026	2040	2035	N20	W89	1.000	11256	17.2	14	-N	C	2035					D
	23	2035E	2037D		N21	W89	1.000	11256	17.2	2D	1N	2 P	2035	.96				
GRP37852 CULG TEHR	24	0456	0541	0508	N17	W85	.998	11256	17.8	45	-B			1.04				2 2 2 5
	24	0454	0538	0509	N19	W89	1.000		17.5	44	1B	C	0509	1.44				Z
	24	0457	0543	0506	N15	W80	.989		18.2	46	-N	3 C		.64				F

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hq	MAX. INT. %	
					LAT.	MER. DIST.												
	1971 APR																	
GRP37853	24	0720	0753	0734	N20	W80	.991	11256	18.3	33	--N			.18				3 3 3 4
TEHR	24	0710	0803	0733	N20	W83	.996	11256	18.1	53	-N	2 C		.09				D
CANR	24	0721U	0748	0732	N19	W80	.991	11256	18.3	270	-N	2 C	0732	.22				
CRON	24	0729	0748	0737	N21	W76	.981	11256	18.6	19	-N	2 C	0737	.22				
858 RAMY	24	1522	1550	1530	S28	W80	.981	11255	18.6	28	--F	1 C						D 3
859 RAMY	24	1619	1725	1623	S22	W70	.938	11255	19.4	66	--F	1 C		.52				D 3
861 RAMY	24	1636	1712	1645	S11	E40	.644	11274	27.7	36	--F	1 C		.72				D 3
GRP37863	24	1742	1812	1751	N18	W85	.998	11256	18.4	30	--F							2 2 0 4
LOCK	24	1740	1810	1750	N18	W80	.990	11256	18.7	30	-N	C						
RAMY	24	1743	1814	1752	N18	W90	1.000	11256	18.0	31	-F	1 C						D
GRP37867	24	2138	2210	2144	S12	E25	.434	11274	26.8	32	--F			.62				2 1 1 3
RAMY	24	2138	2210	2144	S12	E25	.434	11274	26.8	32	-F	1 C		.62				D
LOCK	24	2140D	2215	2155	S11	E24	.415	11274	26.7	350	-F	C						
GRP37871	25	0528	0557	0545	S11	E21	.370	11274	26.8	29	--N			.50				3 3 3 5
ATHN	25	0528	0603	0546	S10	E19	.335	11274	26.7	35	-N	1	0546	.66	1.34	.35		
MANI	25	0537E	0549	0545	S11	E20	.354	11274	26.7	120	-N	1	0545	.21	.22			
CATA	25	0540E	0600	0545	S11	E19	.339	11274	26.7	200	-N	P	0545	.63	.68		178	
ATHN	25	0600	0612	0604	S13	E30	.511	11274	27.5	12	-F	1	0604	.17	.33	.52		
GRP37874	25	0730	0841	0828	S11	E20	.354	11274	26.8	71	--F			.11				3 2 1 8
ISTA	25	0730	0840		S12	E21	.374	11274	26.9	70	-F							
CRON	25	0824U	0842	0828	S10	E19	.335	11274	26.8	180	-F	2 C	0828	.11	.11			
CATA	25	0830E	0850D	0840	S10	E19	.335	11274	26.8	200	-N	P	0840	.29	.31		182	T
GRP37877	25	1137	1156	1143	S12	E17	.314	11274	26.8	19	-N			1.00				6 6 5 6
RAMY	25	1136	1154D	1143	S11	E17	.308	11274	26.8	180	-N	2 C		1.13				D
CANR	25	1137	1154	1142	S12	E16	.299	11274	26.7	17	-N	2 C	1142	.54	.54			
HTPR	25	1138	1155	1142	S11	E17	.308	11274	26.8	17	-N	C	1142	.52	.50			E
CATA	25	1140E	1200	1141	S12	E17	.314	11274	26.8	200	-B	P	1141	1.16	1.22		234	
TEHR	25	1143E	1157		S11	E18	.324	11274	26.8	140	-N	3 C						F
ATHN	25	1145E	1155	1147	S15	E15	.308	11274	26.6	100	-N	1	1147	1.65	3.29	.31		
	25	1920	1934															NO FLARE PATROL
	25	1940	1954															NO FLARE PATROL
	25	2013	2022															NO FLARE PATROL
	25	2023	2056															NO FLARE PATROL
	25	2106	2205															NO FLARE PATROL
GRP37881	26	0238	0302	0242	N07	E24	.448	11279	27.9	24	-N			2.08				2 2 2 7
KODA	26	0238E	0257	0238	N07	E24	.448	11279	27.9	190	1N	V	0243	3.61	3.60	1.64		CE
TEHR	26	0242E	0306	0245	N07	E23	.434	11279	27.8	240	-N	1 C		.55				F
GRP37883	26	0728	0743	0731	N06	E20	.385	11279	27.8	15	--N			.72				7 7 5 10
CATA	26	0725	0750	0730	N07	E20	.393	11279	27.8	25	-N	C	0730	1.16	1.27		197	TZ
BUCA	26	0725	0749		N06	E20	.385	11279	27.8	24	-F	C	0733	1.10	1.10			
HTPR	26	0726	0736	0729	N07	E20	.393	11279	27.8	10	-F	C	0729	.83	.90			E
ATHN	26	0728E	0733	0730	N05	E20	.378	11279	27.8	50	-N	1	0730	.33	.66	.38		D
TEHR	26	0730	0742	0733	N07	E21	.407	11279	27.9	12	-N	4 C		.19				B
ISTA	26	0730	0745		N06	E21	.399	11279	27.9	15	-F							
CANR	26	0731	0745		N05	E20	.378	11279	27.8	14	-N	1 V			.50			
GRP37886	26	1135	1144	1139	N07	E18	.365	11279	27.8	9	--N			.78				6 6 6 9
ZURI	26	1114	1148	1134	N05	E18	.349	11279	27.8	34	-N	C	1134	1.34	1.40			
HTPR	26	1132	1139	1133	N07	E17	.352	11279	27.8	7	-F	C	1133	.52	.50			E
ATHN	26	1133E	1143	1134	N07	E15	.325	11279	27.6	100	-N	1	1134	.33	.66	.33		D
TEHR	26	1135	1145	1138	N07	E18	.365	11279	27.8	10	-N	4 C		.28				
CAPS	26	1136	1146		N06	E24	.442	11279	28.3	10	-N	2 V	1138	.70	.80		170	EZ
ABST	26	1137	1144	1139	N07	E17	.352	11279	27.8	7	-F	C	1139	1.53	1.60			
GRP37890	26	1508	1521	1511	S05	E60	.864	11281	1.1	13	--F			.24				4 4 4 5
CATA	26	1505E	1520	1510	S07	E62	.880	11281	1.3	150	-N	P	1510	.23	.51		178	
HUAN	26	1509	1518	1514U	S05	E63	.889	11281	1.4	9	-N	2 P	1514	.18	.37			D
RAMY	26	1509	1524D	1511	S04	E55	.817	11281	30.8	150	-F	3 C		.31				D
ATHN	26	1510E	1515D	1510	S05	E61	.873	11281	1.2	50	-F	1	1510	.23	.45	.86		
894 MCMA	26	2041E	2055D	2044	N07	E16	.338	11279	28.1	140	--N	P	2044	.31	.30			DH 2
895 CULG	26	2329	0014	2353	S16	E51	.780	11281	30.8	45	1N	C	2353	2.48	2.40			3

SOLAR FLARES
Confirmed
APRIL 1971

OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1971 APR																	
GRP37898	27	0525	0607	0533	N06	E12	.275	11279	28.1	42	-N			1.02				5 5 5 7
CULG	27	0510	0557D		N06	E15	.315	11279	28.3	47D	1N	P	0541	2.27	2.30			S
ATHN	27	0520E	0546	0530	N05	E14	.292	11279	28.3	26D	-N	1	0530	.50	.99	.30		
CATA	27	0525E	0600D	0530	N06	E14	.301	11279	28.3	35D	-N	P	0530	.58	.61		170	
TEHR	27	0526	0630	0538	N06	E04	.196	11279	27.5	64	-F	4	C	.91				FS
MITK	27	0528	0620	0535	N06	E14	.301	11279	28.3	52	-F	C	0535	.83	.90			E
GRP37899	27	1132	1139	1134	N07	E02	.204	11279	27.6	7	--N			.33				3 3 3 5
CANR	27	1131	1137	1134	N08	E03	.224	11279	27.7	6	-N	2	C	.54	.54			
TEHR	27	1132	1143	1134	N07	E02	.204	11279	27.6	11	-N	4	C	.28				DH
ATHN	27	1133	1138	1134	N07	E01	.201	11279	27.6	5	-F	1	1134	.17	.33	.22		
GRP37907	27	2113	2152	2125	N08	W02	.220	11279	27.7	39	--F			.57				3 3 1 3
BOUL	27	2108	2153	2125	N08	W02	.220	11279	27.7	45	-F	1	V					
LOCK	27	2118	2150	2122	N08	W02	.220	11279	27.7	32	-F		C					
RAMY	27	2123E	2142D	2129	N08	W02	.220	11279	27.7	19D	-F	2	C	.57				D
GRP37908	27	2340	2358	2344	N07	W05	.218	11279	27.6	18	--N			.41				2 2 1 3
LOCK	27	2340	2358	2345	N09	W05	.250	11279	27.6	18	-N		C					
MANI	27	2340E	2357	2343	N04	W05	.172	11279	27.6	17D	-N	1	2343	.41	.42			
GRP37910	28	0300	0315	0304	N08	W07	.247	11279	27.6	15	--N			.34				2 2 2 4
GRON	28	0300	0315	0302	N07	W07	.232	11279	27.6	15	-N	2	C	.32	.32			
TEHR	28	0306E	0309D	0306	N09	W07	.262	11279	27.6	3D	-N	2	C	.36				D
GRP37915	28	1309	1334	1313	S12	W12	.243	11274	27.6	25	--F			.61				3 3 2 7
BOUL	28	1308	1337	1314	S12	W13	.257	11274	27.6	29	-F	1	V					
RAMY	28	1309	1334	1312	S12	W11	.229	11274	27.7	25	-F	2	C	.72				D
ATHN	28	1312E	1330	1313	S12	W13	.257	11274	27.6	18D	-F	1	1313	.50	.99	.27		
GRP37918	28	1513	1525	1515	N09	W16	.356	11279	27.4	12	--N			.43				3 3 3 9
RAMY	28	1511	1524	1513	N10	W16	.367	11279	27.4	13	-F	2	C	.62				D
CATA	28	1515	1525	1515	N07	W16	.337	11279	27.4	10	-N		C	.34	.37		155	
ATHN	28	1516E	1525	1517	N09	W16	.356	11279	27.4	9D	-N	1	1517	.33	.66	.36		
	28	2032	2042		NO FLARE PATROL													
	28	2214	2215		NO FLARE PATROL													
	29	0158	0205		NO FLARE PATROL													
	29	0211	0244		NO FLARE PATROL													
GRP37928	29	1131	1153	1132	S16	E73	.954	11289	5.0	22	--F			.37				4 3 2 9
RAMY	29	1127	1159	1131	S16	E75	.963	11289	5.1	32	-F	2	C	.41				D
ATHN	29	1128E	1200	1132	S16	E70	.937	11289	4.7	32D	-F	1	1132	.33	.66	.94		
WEND	29	1132	1150		S17	E73	.954	11289	5.0	18	-N							
CANR	29	1138	1142		S16	E75	.963	11289	5.1	4	-F	3	V		.50			
GRP37929	29	1259	1322	1304	S16	E73	.954	11289	5.0	23	-N			.59				5 5 3 9
ATHN	29	1243E	1322	1256	S16	E70	.937	11289	4.8	39D	-N	1	1256	.66	1.34	.94		
ONDR	29	1258E	1314		S15	E72	.948	11289	4.9	16D	1N		V	1303		2.70		CGHJR
ZURI	29	1259	1327	1303	S16	E75	.963	11289	5.2	28	-N		C	1303	.53			
CANR	29	1301	1301D		S16	E74	.958	11289	5.1		-N	2	V		.80			
CATA	29	1305E	1325D	1305	S17	E73	.954	11289	5.0	20D	-N		P	1305	.58		174	
GRP37932	29	1600	1609	1604	S16	E71	.943	11289	5.0	9	--F			.52				2 2 2 7
RAMY	29	1558	1606D	1602	S16	E72	.948	11289	5.1	8D	-N	2	C	.72				D
MEUD	29	1602	1609	1605	S16	E69	.931	11289	4.8	7	-F		C	1605	.31			D
GRP37933	29	1613	1630	1621	S16	E72	.948	11289	5.1	17	-N			.96				6 6 5 7
WEND	29	1605E	1633D		S17	E70	.937	11289	4.9	28D	1F		V	3.09				
HUAN	29	1612	1632	1622U	S15	E73	.954	11289	5.1	20	-N	1	P	1622	.35			D
ZURI	29	1617	1626	1619	S16	E75	.963	11289	5.3	9	-N		C	1619	.53			
MEUD	29	1619	1625	1621	S15	E69	.931	11289	4.9	6	-N		C	1621	.41			AD
CATA	29	1620E	1630D	1620	S16	E71	.943	11289	5.0	10D	-N		P	1620	.40		174	
ONDR	29	1621E	1633		S15	E71	.943	11289	5.0	12D	-F		V	1622		1.80		CGJ
GRP37934	29	1746	1801	1752	S15	E71	.943	11289	5.1	15	--F			.41				5 5 2 5
HUAN	29	1742	1808	1751U	S15	E72	.948	11289	5.1	26	-N	1	P	1751	.45			D
RAMY	29	1745	1758D	1750	S15	E71	.943	11289	5.1	13D	-F	1	C					D
LOCK	29	1747	1800	1752	S15	E71	.943	11289	5.1	13	-F		C					
BOUL	29	1749	1800	1751	S15	E71	.943	11289	5.1	11	-F	1	V					
PALE	29	1754E	1758	1754	S14	E68	.925	11289	4.8	4D	-N	2	C	.36				F

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SOLAR FLARES

Confirmed

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OBSERV- ATORY	OBSERVED UT				LOCATION				DURA- TION — MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH FLAGE REGION			CMP DAY	COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha		MAX. INT. %
					LAT.	MER. DIST.													
1971 APR																			
GRP37939 MCMA MEUD ATHN CATA	30	1229	1237	1231	N19	E36	.674	11286	3.2	8	--N			.37					4 4 4 10
	30	1227	1242	1228	N20	E34	.660	11286	3.1	15	-N		C	1228	.46	.60			E
	30	1227	12330		N18	E36	.668	11286	3.2	60	-F		C	1228	.52	.70			
	30	1230E	1235	1232	N18	E39	.700	11286	3.4	50	-N	1		1232	.17	.33	.68		
	30	1230	1235	1230	N19	E36	.674	11286	3.2	5	-N		C	1230	.34	.47		162	
943 PALE	30	2158	2206D	2201	N19	E29	.600	11286	3.1	80	--F	1	C		.36				F 3

"Remarks":

A = Eruptive prominence, base at $>90^\circ$.
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 = Flare 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 $H\alpha$ 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 $H\alpha$ emission.
Y = Onset of a system of loop-type prominences.
Z = Major sunspot umbra covered by flare.

Note:

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

In the importance column "---" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity 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
710401	58.85	24.0	710411	66.51	24.0	710420	277.21	24.0
710402	45.13	24.0	710412	12.52	24.0	710421	13.89	24.0
710403	7.98	24.0	710413	35.85	23.9	710422	8.85	24.0
710404	47.66	24.0	710414	55.53	24.0	710423	12.67	24.0
710405	1.32	24.0	710415	17.71	24.0	710424	5.71	24.0
710406	37.70	24.0	710416	58.65	24.0	710425	5.48	21.9
710407	28.38	24.0	710417	28.94	24.0	710426	55.29	24.0
710408	100.35	23.9	710418	73.22	24.0	710427	5.49	24.0
710409	4.98	24.0	710419	70.40	23.5	710428	0.00	23.8
When no Flare Index is given, it is 0 for that day.						710429	6.78	23.3

SOLAR FLARES

Unconfirmed

APRIL 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1971 APR	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
400 MANI	01	0349	0400D	0350	S19	W09	.263	11221	31.5	11D	-N	1	0350	.31	.32			5
404 CATA	01	1205E	1225D	1210	S11	W02	.085	11221	1.4	20D	-N	P	1210	.75	.76		166	7
406 CATA	01	1505	1510	1505	S22	W17	.383	11221	31.4	5	-N	C	1505	.14	.16		164	9
407 LOCK	01	1605	1612	1608	S18	W19	.371	11221	31.2	7	-F	C						6
412 HUAN	01	2031E	2035	2032U	N12	E08	.345	11225	2.5	40	-F	1 P	2032	.05	.05			D 4
414 PALE	01	2248	2310	2255	N23	W28	.647	11223	30.9	22	-N	2 C		.45				FH 6
GRP37415	01	2323	2333	2326	S19	E31	.539	11229	4.3	10	-F			.36				2 2 1 7
CRON	01	2320	2333	2325	S19	E32	.552	11229	4.4	13	-N	3 V						
PALE	01	2326	2331D	2327	S19	E29	.512	11229	4.2	50	-F	2 C		.36				
GRP37416	01	2338	0002	2343	S19	W22	.419	11221	31.3	24	-F							2 2 0 6
BOUL	01	2336	2353	2343	S18	W22	.412	11221	31.3	17	-F	1 V						
LOCK	01	2340	0010	2343	S19	W21	.406	11221	31.4	30	-F	C						
GRP37418	02	0040	0052	0041	S20	W25	.466	11221	31.2	12	-F			.46				2 1 1 9
VORO	02	0040	0047	0041	S20	W24	.453	11221	31.2	7	-F	C	0041	.46	.50		78	DHJ
PALE	02	0049E	0057		S20	W25	.466	11221	31.2	80	-N	1 C						F
420 MANI	02	0312E	0356	0351	S19	E20	.393	11229	3.6	44D	-N	2	0351	1.03	1.12			5
421 MANI	02	0426	0515D	0443	S19	E20	.393	11229	3.7	49D	-N	2	0443	.83	.90			4
422 MANI	02	0642	0651D	0649	S19	W26	.473	11221	31.3	90	-N	2	0649	.93	.94			4
423 MANI	02	0712E	0749	0748	S19	W28	.499	11221	31.2	37D	-N	2	0748	1.34	1.55			5
424 MANI	02	0855	0902	0858	S18	W30	.521	11221	31.1	7	-N	2	0858	.21	.24			8
428 BOUL	02	1630	1640	1635	S19	W28	.499	11221	31.6	10	-F	2 V						4
429 BOUL	02	1708	1717	1713	S19	W29	.513	11221	31.5	9	-F	1 V						6
430 BOUL	02	1758	1810	1801	S09	W19	.325	11221	1.3	12	-F	1 V						5
439 LOCK	03	0018	0030	0021	S20	W32	.557	11221	31.6	12	-F	C						4
440 TEHR	03	0323	0336	0324	S20	W34	.583	11221	31.6	13	-N	2 C		.28				D 5
441 MANI	03	0421E	0426	0423	S19	W37	.617	11221	31.4	50	-N	2	0423	.21	.30			4
442 TEHR	03	0450	0503	0452	S18	W36	.601	11221	31.5	13	-N	2 C		.13				D 4
GRP37444	03	0719	0727	0724	S19	W40	.654	11221	31.3	8	-N			.48				2 2 2 6
MANI	03	0719	0725D	0724	S18	W42	.676	11221	31.2	60	-N	2	0724	.62	.85			
ATHN	03	0722E	0727	0723	S19	W38	.630	11221	31.5	50	-N	1	0723	.33	.66	.67		
445 ABST	03	0812	0900D	0818	S20	W41	.669	11221	31.3	48D	1F	P	0818	1.79	2.40		47	EJZ 7
GRP37447	03	1059	1110	(1059)	S19	W39	.642	11221	31.5	11	-F			.23				2 2 1 8
CATA	03	1055D	1105D	1055	S20	W38	.633	11221	31.6	10D	-N	P	1055	.23	.30		172	
KHAR	03	1103	1110		S18	W40	.652	11221	31.5	7	1F	V	1103			1.80		E
450 TEHR	03	1356	1401D	1358	S16	E08	.214	11229	4.2	50	-N	1 C		.13				HD 7
453 RAMY	03	1543	1554D	1546	N09	W08	.299	11225	3.1	11D	-F	1 C		.31				D 5
454 LOCK	03	1708	1715	1711	S14	W42	.669	11221	31.6	7	-F	C						4
455 HUAN	03	1723E	1727D	1726	S15	W37	.606	11221	31.9	40	-F	1 P	1726	.12	.16			D 5
459 HUAN	03	1944	2005	1953	S20	W44	.704	11221	31.5	21	-N	1 C	1953	.10	.15			D 4
460 MANI	03	2338	0011	2340	S18	W51	.777	11221	31.2	33	-N	1	2340	.41	.64			6
463 PALE	04	0110	0115D	0115	N12	E42	.715	11228	7.2	50	-F	2 C		.19				H 4
467 ATHN	04	1017	1041	1022	S09	E90	1.000	11238	11.2	24	-N	1	1022			1.00		2
468 ATHN	04	1112	1128	1117	N12	E69	.946	11234	9.6	16	-F	1	1117	.66	1.34	.96		4
469 ATHN	04	1155E	1210	1155	N12	E04	.322	11227	4.8	150	-F	1	1155	.17	.33	.31		5
470 ATHN	04	1235E	1324	1235	S18	W57	.836	11221	31.2	49D	-F	1	1235	1.16		.81		5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
	1971 APR																	
472 CANR	04	1705	1711		S21	W58	.847	11221	31.4	6	-N	V			.40			4
476 MANI	05	0602	0618	0605	S16	W63	.886	11221	31.5	16	-F	2	0605	.21	.40			7
477 MANI	05	0620	0622D	0622	S17	W70	.934	11221	31.0	2D	-F	2	0622	.21	.40			8
478 ATHN	05	0921E	0940	0924	S17	W60	.862	11221	31.9	19D	-F	1	0924	.33	.66	.85		8
479 ATHN	05	0955	1015	0959	S17	W60	.862	11221	31.9	20	-F	1	0959	.17	.33	.85		7
481 TEHR	05	1146	1203	1148	S16	E67	.915	11233	10.5	17	-F	3	C	.19				D 8
GRP37482	05	1243	1318	1254	S18	W62	.878	11221	31.9	35	-F			.41				2 2 2 8
MCMA	05	1243	1313	1254	S19	W62	.879	11221	31.9	30	-N	C	1254	.31	.60			DL
ATHN	05	1253E	1323	1253	S16	W62	.878	11221	31.9	30D	-F	1	1253	.50	.99	.89		
490 TEHR	06	0444E	0452	0444	S18	W69	.928	11221	1.0	8D	-F	1	C	.19				D 7
491 ABST	06	0527	0540D	0529	N11	W17	.409	11227	5.0	13D	-F		P 0529	.90	1.00		47	DJ 6
GRP37493	06	0604	0615	0610	N12	W19	.443	11227	4.8	11	-F			.19				2 2 2 6
ATHN	06	0604	0614	0607	N13	W17	.432	11227	5.0	10	-F	3	0607	.17	.33	.40		
MANI	06	0608E	0615	0612	N10	W20	.434	11227	4.8	7D	-F	2	0612	.21	.23			
494 ATHN	06	0813E	0830	0813	N12	W19	.443	11227	4.9	17D	-F	3	0813	.50	.99	.44		9
GRP37496	06	1330E	1338	1333	N12	W23	.489	11227	4.8	8	-N			.45				2 2 2 6
ATHN	06	1330E	1335	1332	N11	W22	.468	11227	4.9	5D	-N	1	1332	.33	.66	.48		
HUAN	06	1331E	1341D	1333	N12	W23	.489	11227	4.8	10D	-N	1	P 1333	.56	.63			E
498 HUAN	06	1413	1417	1415U	N10	E66	.925	11239	11.5	4	-F	2	P 1415	.07				D 10
499 ATHN	06	1416	1425	1418	S10	W66	.909	11221	1.6	9	-N	1	1418	.33	.66	.92		10
500 LOCK	06	1530E	1600	1542	N10	W24	.483	11227	4.8	30D	-F		C					10
501 HUAN	06	1645	1654	1648	N12	W24	.501	11227	4.9	9	-F	1	C 1648	.15	.18			E 8
502 HUAN	06	1713	1725D	1716	N11	W25	.504	11227	4.8	12D	-N	1	P 1716	.10	.12			D 5
506 BOUL	06	2047	2100	2047	N26	W12	.564	11227	6.0	13	-F	2	V					4
507 HUAN	06	2150	2157	2154U	N12	W28	.549	11227	4.8	7	-F	2	P 2154	.12	.15			D 3
508 MANI	07	0144	0205	0146	N11	W29	.553	11227	4.9	21	-N	2	0146	.31	.37			4
509 CULG	07	0234	0303	0246	S18	W80	.980	11221	1.1	29	1F		C 0246	.72				7
510 CULG	07	0511	0541D	0525	N16	E33	.636	11234	9.7	30D	1N		P 0525	2.58	2.70			FUS 6
GRP37511	07	0517	0531	0523	N19	E08	.445	11228	7.8	14	-F			.13				2 2 2 6
TEHR	07	0515	0530	0524	N19	E08	.445	11228	7.8	15	-F	3	C	.09				SD
ATHN	07	0519	0531	0521	N19	E08	.445	11228	7.8	12	-F	1	0521	.17	.33	.45		
514 RAMY	07	1405	1422	1408	N11	W38	.663	11227	4.7	17	-F	3	C	.36				D 9
516 RAMY	07	1520	1531	1523	N13	W40	.696	11227	4.6	11	-F	3	C	.46				D 11
517 LOCK	07	1717	1735	1725	N17	E28	.589	11234	9.8	18	-F		C					5
521 MANI	07	2257	2305	2300	N11	W42	.710	11227	4.8	8	-N	2	2300	.21	.31			3
524 BOUL	08	0002U	0011U	0002U	N10	W61	.890	11236	3.4	9D	-N	1	C 0002	.32	.71			6
525 MANI	08	0040E	0046	0043	N11	W40	.686	11227	5.0	6D	-N	2	0043	.31	.42			4
4 STATIONS REPORTING GROUP 37528. 3 STATIONS OBSERVING AND NOT REPORTING.																		
GRP37528	08	0541	0631	0543	N18	E22	.537	11234	9.9	50	-N			.68				2 2 2 7
MANI	08	0540E	0637D	0542	N18	E23	.547	11234	10.0	57D	-N	2	0542	.52	.61			
ATHN	08	0541	0625	0543	N17	E20	.506	11234	9.7	44	-N	1	0543	.83	1.65	.49		
37528	08	0548	0608	0600	N18	E22	.537	11234	9.9	20	*-F			.59				2 2 2 7
TEHR	08	0548	0608D	0556	N17	E21	.516	11234	9.8	20D	-N	3	C	.28				D
ABST	08	0604E	0607D	0604	N18	E23	.547	11234	10.0	3D	-F		P 0604	.90	1.10		51	BDJ
530 ATHN	08	0711	0720	0713	N16	E19	.485	11234	9.7	9	-F	1	0713	.33	.66	.47		12

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hg	MAX. INT. %	
	1971 APR																	
GRP37531	08	0754	0804	0755	N12	W49	.788	11227	4.7	10	-N			.48				2 2 2 12
ATHN	08	0754	0804	0755	N12	W49	.788	11227	4.7	10	-N	1	0755	.50	.99	.78		
TEHR	08	0754E	0804	0754	N11	W49	.785	11227	4.7	10D	-N	3 C		.45				F
532 ATHN	08	0831E	0837	0831	N12	W47	.767	11227	4.8	6D	-F	1	0831	.33	.66	.76		11
534 TEHR	08	1001	1008	1003	N11	W50	.795	11227	4.7	7	-N	3 C		.19				D 9
535 ATHN	08	1015	1040	1016	N10	W46	.750	11227	5.0	25	-N	1	1016	.33	.66	.74		9
536 RAMY	08	1143E	1201		U S12	E78	.974	11246	14.3	18D	-F	2 C						D 10
GRP37537	08	1215	1234	1217	N10	W52	.812	11227	4.6	19	-F			.35				2 2 2 12
RAMY	08	1215	1234	1217	N10	W51	.802	11227	4.7	19	-F	2 C		.41				D
TEHR	08	1215	1233	1217	N10	W52	.812	11227	4.6	18	-N	3 C		.28				D
GRP37538	08	1337	1347	1340	N10	W50	.792	11227	4.8	10	-F			.19				2 2 1 8
RAMY	08	1336	1344		U N10	W49	.782	11227	4.9	8	-F	1 C						D
TEHR	08	1337	1350	1340	N10	W50	.792	11227	4.8	13	-F	3 C		.19				D
542 MANI	09	0036	0055	0037	N12	W55	.844	11227	4.9	19	-N	1	0037	.26	.45			7
543 MANI	09	0312	0316	0314	N17	E07	.408	11234	9.7	4	-N	2	0314	.21	.22			5
545 MANI	10	0032	0042	0038	S12	W02	.110	11233	9.9	10	-N	1	0038	.31	.31			3
547 MANI	10	0200	0211	0202	S09	E30	.498	11238	12.3	11	-N	1	0202	.21	.24			3
548 PALE	10	0342E	0353	0343	N17	W04	.396	11234	9.9	11D	-F	1 C		1.03				F 5
549 MANI	10	0514	0530	0522	N18	W08	.427	11234	9.6	16	-N	1	0522	.41	.42			3
550 MANI	10	0720E	0741		S16	E55	.817	11246	14.4	21D	-F	1	0725	.52	.87			5
551 RAMY	10	1200	1210	1204	N05	E76	.973	11249	16.2	10	-F	2 C						D 5
552 RAMY	10	1317	1345		U N04	E88	1.000	11250	17.2	28	-N	2 C						D 4
556 MANI	11	0312E	0320	0314	S16	W24	.432	11233	9.3	8D	-N	1	0314	.41	.45			8
557 TEHR	11	0419	0430	0421	N09	W88	1.000	11227	4.6	11	-N	2 C		.09				D 7
GRP37561	11	1607	1627	1609	S05	E40	.640	11253	14.7	20	-F			.31				2 2 1 6
RAMY	11	1602	1619	1605	S05	E40	.640	11253	14.7	17	-N	3 C		.31				D
BOUL	11	1611	1635	1613	S05	E40	.640	11253	14.7	24	-F	1 V						
562 RAMY	11	1637	1646	1639	N03	E65	.910	11249	16.6	9	-N	3 C		.26				D 6
563 BOUL	11	1647	1705	1649	N03	E69	.937	11249	16.9	18	-F	1 V						5
564 BOUL	11	1734	1744		N20	W27	.603	11234	9.7	10	-F	1 V						5
565 PALE	11	1802	1807	1804	N06	E68	.933	11249	16.9	5	-F	1 C		.45				6
566 BOUL	11	1804	1808	1806	N07	E77	.978	11257	17.5	4	-F	1 V						6
568 MANI	11	2303E	2323	2305	S04	E37	.600	11253	14.7	20D	-N	2	2305	.31	.39			5
571 TEHR	12	0538	0559	0543	N06	E62	.891	11249	16.9	21	-N	3 C		.13				D 7
572 ABST	12	0555E	0610	0555	S05	E33	.543	11253	14.7	15D	-F	P	0555	.90	1.10			BDZ 10
575 BOUL	12	1436	1445	1437	S01	W18	.319	11238	11.3	9	-F	1 V						9
576 RAMY	12	1451	1506	1454	N06	E59	.867	11249	17.0	15	-F	2 C		.41				D 9
577 LOCK	12	1650	1656	1652	S16	W30	.517	11233	10.5	6	-F	C						5
578 BOUL	12	1813	1824	1814	S17	W32	.548	11233	10.4	11	-F	1 V						5
582 MANI	13	0001	0012	0004	S05	E20	.341	11253	14.5	11	-F	1	0004	.31	.33			5
583 MANI	13	0135E	0152	0137	S05	E22	.373	11253	14.7	17D	-F	1	0137	.31	.33			5
584 MANI	13	0302	0308	0305	S05	E22	.373	11253	14.8	6	-N	1	0305	.21	.22			6
586 MANI	13	0445	0505	0449	S05	E18	.308	11253	14.5	20	-N	1	0449	.31	.32			5
587 MITK	13	0602	0608		S18	E77	.970	11255	19.0	6	-F	C	0602	.52				D 7

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMT PLAGE REGION	CMP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
	1971 APR																	
588 MITK	13	0636	0643	0638	S18	E76	.966	11255	19.0	7	-F	C	0638	.52				D 9
589 HTPR	13	0653	0700	0656	S18	E74	.956	11255	18.8	7	-F	C	0656	.21				DT 10
590 CATA	13	0725	0735	0725	S15	E75	.962	11255	18.9	10	-N	C	0725	.14			174	12
592 ATHN	13	0738E	0757	0740	S06	W15	.258	11238	12.2	190	-N	1	0740	.50	.99	.29		12
GRP37593	13	0743	0752	0744	S18	E78	.974	11255	19.2	9	-N			.45				2 2 2 12
ATHN	13	0738E	0748D	0739	S19	E78	.974	11255	19.2	100	-N	1	0739	.17	.33	.95		
MONT	13	0747	0752	0749	S17	E77	.970	11255	19.1	5	-N	C	0749	.72				
GRP37594	13	0806	0930	0912	S04	E06	.109	11253	13.8	84	-N			1.05				2 1 1 11
ZURI	13	0806	0930	0912	S04	E06	.109	11253	13.8	84	-N	C	0912	1.05	1.10			
CATA	13	0835E	0910D	0900	S04	E06	.109	11253	13.8	350	-F	P	0900	.29	.29		141	
595 ARCE	13	0832E	0835D		N17	E72	.964	11256	18.8	30	-N	P	0832	.20				D 13
596 WEND	13	0843	0852		N02	E47	.738	11250	16.9	9	-F							12
GRP37598	13	1019	1040	1021	N04	E44	.707	11249	16.7	21	-F			.41				2 2 1 12
HTPR	13	1018	1040	1021	N05	E43	.698	11249	16.7	22	-F	C	1021	.41	.60			
CANR	13	1020	1020D		N03	E45	.717	11249	16.8		-F	V			.40			
599 WEND	13	1219	1239		N17	E75	.976	11256	19.1	20	-F							13
600 RAMY	13	1224	1239	1231	N15	W37	.671	11248	10.7	15	-F	3 C		.41				D 13
601 WEND	13	1227	1240		S07	E15	.258	11253	14.6	13	-F							13
602 RAMY	13	1313	1320	1314	S03	E05	.099	11253	13.9	7	-F	3 C		.31				D 12
607 BOUL	13	2005	2028	2010	S05	E10	.173	11253	14.6	23	-N	2 V						2
608 BOUL	13	2014	2021	2016	N20	E70	.958	11256	19.1	7	-N	2 V						2
612 BOUL	13	2205	2220	2213	S02	W02	.075	11253	13.8	15	-N	2 V						2
616 MANI	14	0140	0148	0142	S05	W04	.071	11253	13.8	8	-N	1	0142	.21	.21			6
617 MANI	14	0218	0225	0221	S05	W05	.088	11253	13.7	7	-N	1	0221	.31	.31			7
618 MANI	14	0257	0259D	0259	S05	W05	.088	11253	13.7	20	-B	1	0259	.31	.31			8
619 MANI	14	0343E	0349D	0343	N03	E30	.518	11249	16.4	60	-N	1	0343	.41	.49			6
620 CULG	14	0343	0417	0349	N07	E56	.842	11257	18.4	34	1N	C	0349	2.17	4.20			6
622 TACH	14	0550	0600	0552	N07	E57	.851	11257	18.5	10	-N	C	0552	.45	.87	60	D	6
623 CATA	14	0645E	0700D	0650	S06	E39	.626	11250	17.2	150	-N	P	0650	.29	.38	155		10
624 HTPR	14	0740	0745	0742	N05	E34	.582	11249	16.9	5	-F	C	0742	.31	.40			9
626 HTPR	14	0815	0818	0816	S05	E04	.071	11253	14.6	3	-F	C	0816	.31	.30			13
628 HTPR	14	0934	0948	0937	N05	E33	.568	11249	16.9	14	-F	C	0937	.26	.30			11
630 ARCE	14	0950	1000D	0956	S19	E61	.873	11255	19.0	100	-F	C	0956	.26	.50			11
631 CANR	14	1002	1013	1005	S20	E61	.873	11255	19.0	11	-N	V	1005		.50			10
633 WEND	14	1335	1347		N08	E58	.861	11257	18.9	12	-F							13
635 CATA	14	1552E	1557D	1552	N17	E58	.880	11256	19.0	50	-N	P	1552	.17	.37	158		12
636 BOUL	14	1617	1627	1620	N22	E68	.951	11256	19.8	10	-F	2 V						9
637 BOUL	14	1618	1624	1621	N11	E46	.752	11257	18.1	6	-F	2 V						9
GRP37638	14	1712	1736	1715	S05	W03	.054	11253	14.5	24	-F			.36				2 2 1 7
PALE	14	1710	1732	1712	S05	W03	.054	11253	14.5	22	-N	1 C		.36				F
BOUL	14	1713	1740	1718	S05	W02	.037	11253	14.6	27	-F	2 V						
639 BOUL	14	1718	1724	1718	N18	E41	.730	11256	17.8	6	-F	2 V						7
GRP37643	14	1814	1831	1816	S06	W03	.052	11253	14.5	17	-F			.36				2 2 1 6
PALE	14	1813	1826	1815	S06	W03	.052	11253	14.5	13	-N	2 C		.36				F
BOUL	14	1814	1835	1816	S05	W02	.037	11253	14.6	21	-F	1 V						

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OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
	1971 APR																	
648 BOUL	14	2113	2126		N19	E40	.725	11256	17.9	13	-N	2	V					3
650 PALE	14	2129	2158	2133	S04	W15	.260	11253	13.8	29	-N	2	C	.45				FH 4
651 BOUL	14	2158	2203	2159	N18	E41	.730	11256	18.0	5	-N	1	V					4
656 MANI	15	0156E	0217D	0203	S05	W13	.224	11253	14.1	21D	-F	1		0203	.31	.32		3
659 TEHR	15	0351	0403	0353	N09	E42	.699	11257	18.3	12	-N	3	C	.23				D 6
660 MANI	15	0417	0436	0423	N20	E52	.840	11256	19.1	19	-F	2		0423	.62	1.03		5
662 MANI	15	0507	0542	0517	S05	W51	.775	11238	11.4	35	-N	2		0517	.62	.97		6
GRP37665	15	0604	0629	0605	S04	W20	.342	11253	13.8	25	-F				.75			2 2 2 8
CAPS	15	0603	0643		S03	W18	.311	11253	13.9	40	-F	3	V	0603	1.20	1.30		
CATA	15	0605	0615	0605	S05	W22	.373	11253	13.6	10	-N		C	0605	.29	.31	147 182	T
666 MANI	15	0615	0638	0624	S16	W65	.902	11233	10.4	23	-N	2		0624	.62	1.22		12
668 MANI	15	0733	0748	0736	S04	W20	.342	11253	13.8	15	-N	1		0736	.52	.54		12
670 MANI	15	0822	0830		N18	E52	.834	11256	19.2	8	-N	1		0826	.62	1.09		13
671 MANI	15	0822	0834	0826	N10	E47	.759	11257	18.9	12	-N	1		0826	.41	.63		13
672 MANI	15	0825	0830		N18	W21	.521	11252	13.8	5	-N	1		0826	.31	.37		13
674 WEND	15	0847	0913		N15	E48	.786	11257	19.0	26	-N							15
676 WEND	15	0906	0941		S05	W22	.373	11253	13.7	35	-N							13
GRP37677	15	0952	0959	0953	N20	E46	.788	11256	18.9	7	-F				.29			2 2 2 13
HTPR	15	0951	1000	0953	N20	E46	.788	11256	18.9	9	-F		C	0953	.31	.50		D
MEUD	15	0952	0957	0952	N20	E46	.788	11256	18.9	5	-F		C	0952	.26	.40		D
680 RAMY	15	1305E	1319	1307	S05	W25	.421	11253	13.7	14D	-F	2	C		.41			D 16
681 ATHN	15	1459E	1504	1459	S06	E21	.357	11250	17.2	5D	-F	1		1459	.33	.66	.36	12
683 PALE	15	1812E	1818D	1812	N16	E37	.676	11257	18.5	6D	-N	3	C		.08			5
686 PALE	15	2106	2117	2109	N18	E36	.678	11256	18.6	11	-F	3	C		.45			F 5
689 PALE	16	0224	0240	0230	N17	E22	.520	11256	17.8	16	-F	2	C		.36			5
GRP37690	16	0258	0306	0259	N33	E02	.624	11256	16.3	8	-N				.25			2 2 2 7
MANI	16	0257E	0304D	0258	N33	E02	.624	11256	16.3	7D	-N	2		0258	.31	.40		
TEHR	16	0258	0306	0300	N33	E02	.624	11256	16.3	8	-N	3	C		.19			D
691 MANI	16	0522	0543	0527	S07	W26	.437	11253	14.3	21	-N	2		0527	.41	.46		6
692 MANI	16	0555	0612	0556	N19	E31	.632	11256	18.6	17	-N	2		0556	.41	.54		8
693 TEHR	16	0659	0712	0705	N19	E33	.653	11256	18.8	13	-N	3	C		.09			D 9
GRP37695	16	0745	0804	0753	S16	E23	.420	11255	18.0	19	-N				.41			2 1 1 9
MANI	16	0745	0804	0753	S16	E23	.420	11255	18.0	19	-N	2		0753	.41	.45		
TEHR	16	0746	0759	0749	S17	E33	.563	11255	18.8	13	-F	2	C		.28			D
698 ATHN	16	1601E	1618	1602	N29	E30	.707	11256	18.9	17D	-F	1		1602	.50	.99	.71	9
699 HUAN	16	1721E	1728	1725	N08	E22	.435	11257	18.4	7D	-F	1	P	1725	.15	.17		D 5
700 CRON	17	0324	0342		S03	W49	.754	11253	13.5	18	-F	2	V					3
704 ATHN	17	1102E	1114	1104	S04	W06	.107	11250	17.0	12D	-F	1		1104	.17	.33	.09	9
705 ATHN	17	1216E	1230	1218	N08	E16	.356	11257	18.7	14D	-F	1		1218	.17	.33	.29	8
GRP37706	17	1225E	1234	1226	S07	W44	.692	11253	14.2	9	-F				.17			2 2 2 8
ATHN	17	1225E	1234	1227	S08	W45	.704	11253	14.1	9D	-F	1		1227	.17	.33	.69	
CATA	17	1225E	1230D	1225	S06	W43	.679	11253	14.3	5D	-N		P	1225	.17	.24	174	
708 ATHN	17	1318E	1340	1318	N18	E03	.401	11256	17.8	22D	-F	1		1318	.33	.66	.38	10
711 HUAN	17	1847	1854	1850U	N18	E16	.474	11256	19.0	7	-F	1	P	1850	.10	.12		E 4
719 ATHN	18	0509	0529	0512	N18	W02	.398	11256	18.1	20	-N	1		0512	.50	.99	.39	4

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
720 TEHR	1971 APR 18	0532	0606	0536	N07	W06	.238	11257	17.8	34	-N	2	C		.55				F	5
721 ATHN	18	0534E	0554	0534	N17	W06	.393	11256	17.8	200	-N	1		0534	.50	.99	.39			6
722 ATHN	18	0608E	0617	0609	S12	E80	.982	11265	24.3	90	-N	1		0609	.33	.66	.98			8
GRP37724	18	0737	0748	0740	S11	E81	.985	11265	24.4	11	-F				.18				2 2 2 12	
ATHN	18	0735	0750	0739	S12	E80	.982	11265	24.3	15	-F	1		0739	.17	.33	.98			
TEHR	18	0738	0745	0740	S10	E81	.986	11265	24.4	7	-N	3	C		.19				D	
725 ATHN	18	0753	0803	0756	S03	W55	.818	11253	14.2	10	-F	1		0756	.33	.66	.78			13
726 TEHR	18	0833	0842	0835	N23	E06	.484	11256	18.8	9	-F	3	C		.28				D	12
729 TEHR	18	1216	1232	1218	N24	E04	.495	11256	18.8	16	-N	4	C		.45				D	9
730 TEHR	18	1222	1246D	1234	S12	E76	.967	11265	24.2	240	-N	3	C		.28				D	8
733 HUAN	18	1522	1533D	1530	N21	E02	.445	11256	18.8	110	-N	1	P	1530	.15	.17			E	8
734 ONDR	18	1534E	1540		N05	W32	.553	11249	16.2	60	1F		V	1536			2.00		CJ	8
GRP37735	18	1607	1635	1611	N21	W01	.445	11256	18.6	28	-F				.85				2 2 2 9	
HUAN	18	1606	1617D	1611	N21	W01	.445	11256	18.6	11	-N	2	P	1611	.45	.50			E	
MCMA	18	1607	1635	1610	N20	E00	.429	11256	18.7	28	-F		C	1610	1.24	1.30			FL	
737 PALE	18	1759	1848	1819	S03	W57	.838	11253	14.5	49	-F	2	C		.27					6
740 LOCK	18	2340	2346	2342	N18	W03	.400	11256	18.8	6	-F		C							4
741 PALE	18	2342	2353D		U N09	W07	.275	11257	18.5	110	-N	1	C						F	5
745 MANI	19	0607E	0615	0608	S06	W30	.498	11250	17.0	80	-F	1		0608	.41	.48				8
746 ATHN	19	0607E	0623	0609	N12	E18	.421	11268	20.6	160	-N	1		0609	.17	.33	.42			7
747 TEHR	19	0611	0645	0629	S04	W65	.905	11253	14.4	34	-F	3	C		.36				D	7
GRP37748	19	0619	0631	0625	N23	W06	.483	11256	18.8	12	-F				.35				2 2 2 7	
TEHR	19	0619	0632	0624	N23	W07	.487	11256	18.7	13	-N	3	C		.36				D	
ATHN	19	0625E	0630	0625	N23	W05	.481	11256	18.9	50	-F	1		0625	.33	.66	.54			
749 TEHR	19	0659	0733	0706	S02	W20	.346	11257	17.8	34	-F	3	C		1.37				F	11
751 ATHN	19	0812E	0827	0814	N22	W70	.960	11267	14.1	150	-F	1		0814	.17	.33	.97			15
752 MANI	19	0915	0937	0918	N14	E26	.533	11268	21.3	22	-F	2		0918	.21	.24				16
756 MONT	19	1401	1406	1402	S06	W37	.599	11250	16.8	5	-N		C	1402	.72					13
758 ATHN	19	1519	1527	1524	S13	E65	.902	11265	24.5	8	-N	1		1524	.17	.33	.91			11
GRP37759	19	1554E	1609	1558	S08	W36	.586	11250	17.0	15	-F				.30				2 2 2 12	
RAMY	19	1554E	1609D	1554	S08	W35	.572	11250	17.0	150	-F	2	C		.41				D	
HUAN	19	1600E	1609	1601U	S07	W37	.599	11250	16.9	90	-F	1	P	1601	.18	.22			E	
768 ATHN	20	0410E	0445	0415	S22	E82	.987	11274	26.3	350	-N	1		0415	1.32	2.60	.78			6
770 TEHR	20	0634	0643	0636	N09	W25	.480	11257	18.4	9	-F	2	C		.28				D	13
772 TEHR	20	1132	1145	1134	S04	W51	.775	11250	16.7	13	-F	3	C		.23					13
GRP37775	20	1426	1434	1428	N20	W22	.548	11256	19.0	8	-N				.39				2 2 2 9	
TEHR	20	1425	1436	1428	N20	W22	.548	11256	19.0	11	-N	4	C		.36				D	
MEUD	20	1426	1432	1428	N20	W21	.539	11256	19.0	6	-N		C	1428	.41	.50			E	
776 MEUD	20	1449	1455	1450	N07	W37	.628	11257	17.8	6	-F		C	1450	.31	.40			E	9
777 CAPS	20	1450	1459		S08	W48	.740	11250	17.0	9	-F	3	V							9
778 MEUD	20	1456	1459	1457	N20	W21	.539	11256	19.0	3	-F		C	1457	.52	.60			E	8
780 RAMY	20	1521	1628	1522	S11	E47	.729	11265	24.2	67	-F	1	C		.52				FD	8
784 MANI	20	2200E	2330	2202	N10	W35	.616	11257	18.3	900	-N	2		2202	.83	1.05				4
GRP37785	20	2202	2334	2206	S06	W56	.826	11250	16.7	92	-N				.83				2 1 1 5	
MANI	20	2202	2334	2206	S06	W56	.826	11250	16.7	92	-N	2		2206	.83	1.40				
BOUL	20	2300	2319	2302	S02	W56	.829	11250	16.8	19	-F	1	V							

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1971 APR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMT PLAGE REGION	CMP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hq	MAX. INT. %	
786 MANI	20	2348	0002	2351	N18	W44	.757	11256	17.7	14	-N 2	2351	.52	.79			3
787 MANI	21	0030	0047	0032	S07	W58	.845	11250	16.7	17	-N 2	0032	.83	1.45			5
790 MANI	21	0342E	0359	0351	S08	W60	.863	11250	16.7	170	-N 2	0351	.41	.71			6
792 MANI	21	0626E	0637	0628	S10	W20	.349	11272	19.8	110	-N 2	0628	.21	.22			11
793 TEHR	21	0653	0658	0655	S05	W61	.872	11250	16.7	5	-F 3 C		.28				D 14
795 MEUD	21	0855	0901	0857	N20	W34	.667	11256	18.8	6	-F C	0857	.41	.50			E 14
GRP37797	21	1006	1021	1009	N19	W36	.680	11256	18.7	15	-N		.71				2 2 2 11
CATA	21	1005E	1015D	1010	N18	W37	.685	11256	18.6	100	-N	P 1010	.29	.40		182	
MONT	21	1007	1021	1008	N19	W35	.670	11256	18.8	14	-N	C 1008	1.13				
798 MONT	21	1033	1041	1035	N19	W35	.670	11256	18.8	8	-N	C 1035	1.13				8
GRP37801	21	1250	1308	1254	S03	W65	.905	11250	16.7	18	-F		.40				2 2 2 11
RAMY	21	1247	1309	1252	S03	W65	.905	11250	16.7	22	-F 2 C		.62				D
ATHN	21	1253	1307	1255	S02	W64	.898	11250	16.7	14	-F 1	1255	.17	.33	.90		
803 ZURI	21	1416	1434	1421	N18	W62	.909	11256	16.9	18	-N	C 1421	.86				11
806 PALE	21	1856	1906	1858	S06	W65	.904	11250	16.9	10	-F 2 C		.27				4
808 PALE	21	1946E	1950		U S06	W65	.904	11250	16.9	40	-F 2 C						5
810 BOUL	21	2049	2050	2050	S10	E30	.502	11265	24.1	1	-F 1 V						3
811 PALE	21	2055E	2101	2055	S12	E30	.506	11265	24.1	60	-N 2 C		.36				F 4
814 LOCK	21	2250	2305	2255	N19	W54	.851	11256	17.9	15	-F	C					6
815 MANI	21	2254	2307	2257	N10	W55	.837	11257	17.8	13	-B 2	2257	.83	1.45			6
816 MANI	21	2303	2308	2305	S12	E28	.477	11265	24.1	5	-N 2	2305	.21	.24			5
817 PALE	22	0044	0048D	0047	S12	E29	.492	11265	24.2	40	-N 2 C		.36				F 6
819 ABST	22	0632E	0640D	0634	N19	W61	.904	11256	17.7	80	-F	P 0634	.81	1.90		47	DJZ 8
GRP37820	22	0929	0942	0932	S09	W38	.614	11272	19.5	13	-F		.43				2 2 2 15
ATHN	22	0929	0942	0932	S08	W37	.600	11272	19.6	13	-F 1	0932	.50	.99	.59		
ARCE	22	0935E	0935D		S10	W38	.615	11272	19.5		-F	C 0935	.35	.50			
822 RAMY	22	1111	1119	1113	N21	W46	.789	11256	19.0	8	-F 2 C		.46				D 9
GRP37824	22	1312	1335	1314	N18	W75	.976	11256	16.9	23	-N		.66				2 1 1 7
ATHN	22	1312E	1335	1314	N18	W75	.976	11256	16.9	23D	-N 1	1314	.66	1.34	.94		
RAMY	22	1312	1333	1316	N18	W62	.909	11256	17.9	21	-F 2 C		.88				D
828 PALE	22	1900	1902D		U S10	E58	.845	11274	27.1	20	-N 2 C						5
829 PALE	22	1941E	1957D	1945	S20	E62	.883	11274	27.5	160	-F 2 C		.27				5
830 PALE	22	2140	2153	2146	S12	E19	.342	11265	24.3	13	-N 2 C		.45				F 5
831 PALE	22	2147	2157	2150	S10	E57	.835	11274	27.2	10	-N 2 C		.27				5
833 PALE	22	2309	2321	2313	S10	E56	.826	11274	27.2	12	-F 2 C		.36				6
834 PALE	23	0110	0118D	0111	S12	W42	.670	11272	19.9	80	-F 2 C		.17				5
835 PALE	23	0110	0118D	0113	N18	W67	.939	11256	18.0	80	-N 2 C		.45				F 5
836 MANI	23	0357E	0403	0359	N20	W65	.931	11256	18.3	60	-N 1	0359	.52	1.09			5
838 CANR	23	0858	0903	0859	N19	W75	.976	11256	17.7	5	-N 1 V	0859		.30			9
839 ATHN	23	0910E	0925	0912	N05	W69	.937	11257	18.2	150	-F 1	0912	.17	.33	.93		7
840 ATHN	23	0956E	1009	0959	N21	W76	.981	11256	17.7	130	-F 1	0959	.33	.66	.98		5
841 CATA	23	1100E	1110D	1105	N04	W70	.943	11257	18.2	100	-N	P 1105	.17			178	5
843 ATHN	23	1207E	1245	1210	S13	E42	.672	11274	26.7	380	-F 1	1210	.33	.66	.66		7
845 RAMY	23	1355	1431	1400	S11	E42	.669	11274	26.7	36	-F 1 C		.62				FS 5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
	1971 APR																	
846 ATHN	23	1505E	1516	1509	S12	E40	.645	11274	26.6	110	-F	1	1509	.17	.33	.65		3
847 LOCK	23	1820	1835	1827	N04	W75	.968	11257	18.1	15	-F							5
848 HUAN	23	1904	1917	1911U	S12	E39	.632	11274	26.7	13	-F	2 P	1911	.18	.23			D 4
*GRP37850	23	2244	2302	2249	N20	W84	.998	11256	17.6	18	-N			.62				3 2 1 4
CULG	23	2243	2306	2249	N20	W87	1.000	11256	17.4	23	1N	C	2249	.62				
LOCK	23	2245	2258	2248	N19	W80	.991	11256	17.9	13	-N	C						
MANI	23	2247	2305	2250	N20	W70	.957	11256	18.7	18	-B	2	2250	.52	1.17			
851 MANI	23	2258	2318	2301	S09	E39	.628	11274	26.9	20	-N	2	2301	.31	.39			3
854 ISTA	24	0730	0815		S11	E34	.562	11274	26.9	45	-F							5
855 ISTA	24	0739	0750		N08	W88	1.000	11257	17.7	11	-B							D 5
856 CANR	24	1250	1250D		N21	W85	.999	11256	18.2		-N	2 V			.30			2
857 CATA	24	1500E	1510D	1500	S06	E90	1.000	11281	1.4	10D	-F	P	1500	.17			141	4
860 BOUL	24	1621	1630	1623	N12	W57	.858	11268	20.4	9	-N	2 V						4
862 LOCK	24	1705	1725	1713	S06	E82	.989	11281	30.9	20	-F	C						4
864 LOCK	24	1900	1915	1906	S06	E82	.989	11281	30.9	15	-F	C						5
865 LOCK	24	1920	1940	1930	S11	E26	.446	11274	26.8	20	-F	C						5
866 LOCK	24	1925	1950	1933	S06	E82	.989	11281	1.0	25	-F	C						4
GRP37868	24	2340	2351	2343	S12	E24	.419	11274	26.8	11	-F			.21				2 2 1 6
CRON	24	2338	2347	2342	S13	E24	.423	11274	26.8	9	-F	2 V						
MANI	24	2341	2355	2343	S11	E23	.400	11274	26.7	14	-F	2	2343	.21	.22			
869 MANI	24	2340	2347	2343	S14	E36	.596	11274	27.7	7	-F	2	2343	.31	.38			5
870 ABST	25	0426	0442D	0430	S11	E35	.576	11274	27.8	16D	1F	P	0430	2.70	3.20			EJ 5
872 ATHN	25	0619	0631	0623	S12	E30	.508	11274	27.5	12	-F	1	0623	.17	.33	.51		6
873 ATHN	25	0619	0634	0623	S10	E20	.350	11274	26.8	15	-F	1	0623	.17	.33	.35		6
GRP37875	25	0730	0840	0828	S12	E29	.493	11274	27.5	70	-F			.11				2 2 1 8
ISTA	25	0730	0840	0828	S12	E29	.493	11274	27.5	70	-F							
CRON	25	0824U	0840	0828	S12	E29	.493	11274	27.5	16D	-F	2 C	0828	.11	.12			
876 ABST	25	0832E	0852D	0838	N05	E35	.592	11279	28.0	20D	-F	P	0838	.90	1.10			D 7
GRP37878	25	1426E	1458	1433	N05	E32	.551	11279	28.0	32	-F			1.44				2 1 1 6
ABST	25	1426E	1458D	1433	N05	E32	.551	11279	28.0	32D	-F	P	1433	1.44	1.70			EJ
CATA	25	1450E	1520D	1505	N07	E31	.546	11279	27.9	30D	-N	P	1505	.69	.83		170	I
879 RAMY	25	1817E	1823D		U	S05	E77	.973	11281	1.5	6D	-N	2 C					D 3
880 PALE	26	0207E	0224	0210	N06	E25	.456	11279	28.0	17D	-F	1 C		.36				F 4
882 TEHR	26	0704	0711	0706	S14	E85	.995	11284	2.7	7	-F	3 C		.09				D 7
884 ZURI	26	0911E	0926	0916	N05	E19	.363	11279	27.8	15D	-N	P	0916	1.47	1.60			9
885 CATA	26	0945	1025D	1010	N06	E19	.371	11279	27.8	40D	-N	P	1010	1.39	1.51		186	TZ 8
887 ZURI	26	1230E	1338D	1238	N05	E19	.363	11279	27.9	68D	-N	P	1238	.67	.70			9
888 ATHN	26	1405E	1422D	1405	N05	E16	.320	11279	27.8	17D	-N	1	1405	.17	.33	.31		6
889 HUAN	26	1446E	1510	1451U	N06	E18	.357	11279	28.0	24D	-N	2 P	1451	.15	.17			D 7
GRP37891	26	1549	1559	1553	S05	E62	.881	11281	1.3	10	-F			.31				2 2 2 6
HUAN	26	1547	1600	1553U	S05	E63	.889	11281	1.4	13	-N	2 P	1553	.30	.61			D
HTPR	26	1551	1558	1553	S05	E60	.864	11281	1.2	7	-F	C	1553	.31	.60			D
892 HUAN	26	1555	1603	1602U	N06	E17	.343	11279	27.9	8	-N	2 P	1602	.25	.26			D 6
893 MCMA	26	1929E	2028		N07	E16	.338	11279	28.0	59D	-N	C	1930	.52	.60			DH 4
896 MANI	27	0116	0123	0120	S14	W39	.637	11265	24.1	7	-N	2	0120	.31	.39			6

* Should be in confirmed flare list

SOLAR FLARES
Unconfirmed

APRIL 1971

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1971 APR	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
897 SIBE	27	0304E	0305	0304	N07	W03	.207	11283	26.9	1D	-F	P	0304	1.49	1.50		53	E 8
900 BOUL	27	1627	1645	1636	N19	E82	.994	11286	3.8	18	-F	1 V						4
GRP37901	27	1654	1715	1703	N07	E01	.201	11279	27.8	21	-N			.25				2 2 1 5
HUAN	27	1648	1720	1703U	N06	E01	.184	11279	27.8	32	-N	1 P	1703	.25	.25			E
BOUL	27	1700	1709	1702	N08	E00	.218	11279	27.7	9	-N	1 V						
902 RAMY	27	1832	1838D	1835	N08	W02	.220	11279	27.6	6D	-F	2 C		.36				D 4
903 BOUL	27	1917	1922	1919	N08	W01	.218	11279	27.7	5	-F	1 V						4
904 BOUL	27	1953	2012	1958	S09	W14	.252	11274	26.8	19	-F	1 V						5
905 BOUL	27	2011	2050	2028	N01	W08	.169	11279	27.2	39	-F	1 V						3
906 BOUL	27	2021	2028	2023	N07	E00	.201	11279	27.8	7	-F	1 V						3
909 MANI	28	0214E	0232D	0221	N07	W03	.206	11279	27.9	18D	-N	1	0221	.21	.21			3
911 MANI	28	0325	0330D	0325	N07	W03	.206	11279	27.9	5D	-N	1	0325	.72	.73			6
912 TEHR	28	0446	0455	0447	S01	E53	.799	11287	2.2	9	-F	2 C		.09				D 4
913 MANI	28	0756	0802	0757	S11	W21	.371	11274	26.8	6	-N	1	0757	.41	.44			8
914 ATHN	28	0958	1012	1000	N08	W08	.256	11279	27.8	14	-N	1	1000	.17	.33	.26		9
GRP37916	28	1344	1351	1345	N07	W14	.310	11279	27.5	7	-F			.33				2 2 1 8
ATHN	28	1344E	1350	1344	N06	W15	.314	11279	27.4	6D	-F	1	1344	.33	.66	.33		
BOUL	28	1344	1352	1345	N08	W12	.297	11279	27.7	8	-F	1 V						
917 ATHN	28	1410	1419	1411	N06	W06	.209	11279	28.1	9	-F	1	1411	.17	.33	.72		9
919 BOUL	28	1701	1710	1704	S07	W27	.454	11274	26.7	9	-F	1 V						3
920 BOUL	28	2137	2150	2140	N08	W11	.286	11279	28.1	13	-F	1 V						3
921 BOUL	28	2140	2150	2147	S13	E85	.995	11289	5.3	10	-F	1 V						3
922 ATHN	29	0648	0657	0649	S11	W24	.417	11274	27.5	9	-F	1	0649	.17	.33	.43		6
923 ATHN	29	0655E	0715	0655	S10	W38	.617	11274	26.4	20D	-F	1	0655	.17	.33	.64		5
924 CRON	29	0734	0743		S18	E77	.972	11289	5.1	9	-F	3 V						7
925 WEND	29	0839	0850		S04	E23	.390	11281	1.1	11	-N							9
926 WEND	29	0844	0854		S17	E76	.967	11289	5.1	10	-N							8
GRP37927	29	1007	1023	1008	S17	E72	.948	11289	4.8	16	-N			.10				2 1 1 9
ATHN	29	1007E	1021	1008	S16	E70	.937	11289	4.7	14D	-N	1	1008	.10	.20	.94		
WEND	29	1016	1024		S17	E74	.958	11289	5.0	8	-N							
930 ATHN	29	1359	1421	1402	S16	E70	.937	11289	4.8	22	-F	1	1402	.17	.33	.94		7
GRP37931	29	1507	1536	1512	S16	E69	.931	11289	4.8	29	-N			.17				2 1 1 10
ATHN	29	1507	1536D	1512	S16	E69	.931	11289	4.8	29D	-N	1	1512	.17	.33	.93		
RAMY	29	1521	1543	1527	S15	E71	.943	11289	5.0	22	-F	2 C		.52				D
935 ATHN	30	0548	0603	0550	N20	E42	.742	11286	3.4	15	-F	1	0550	.17	.33	.74		6
936 ATHN	30	0630E	0638	0630	N20	E42	.742	11286	3.4	8D	-F	1	0630	.17	.33	.74		6
937 ATHN	30	0928E	0941	0936	S12	E17	.317	11281	1.7	13D	-F	1	0930	.17	.33	.30		12
GRP37938	30	0930E	0958	0938	N19	E36	.674	11286	3.1	28	-N			.25				2 2 2 11
CATA	30	0930E	0945D	0935	N19	E37	.685	11286	3.2	15D	-N		0935	.17	.24		166	
ATHN	30	0939E	0958	0940	N18	E35	.657	11286	3.0	19D	-N	1	0940	.33	.66	.69		
940 RAMY	30	1239	1248	1242	S15	E55	.820	11289	4.7	9	-F	2 C		.26				D 10
941 BOUL	30	1427	1441	1431	N07	W41	.675	11279	27.5	14	-F	2 V						10
942 BOUL	30	1933	1941	1933	S15	E59	.857	11289	5.2	8	-F	1 V						3

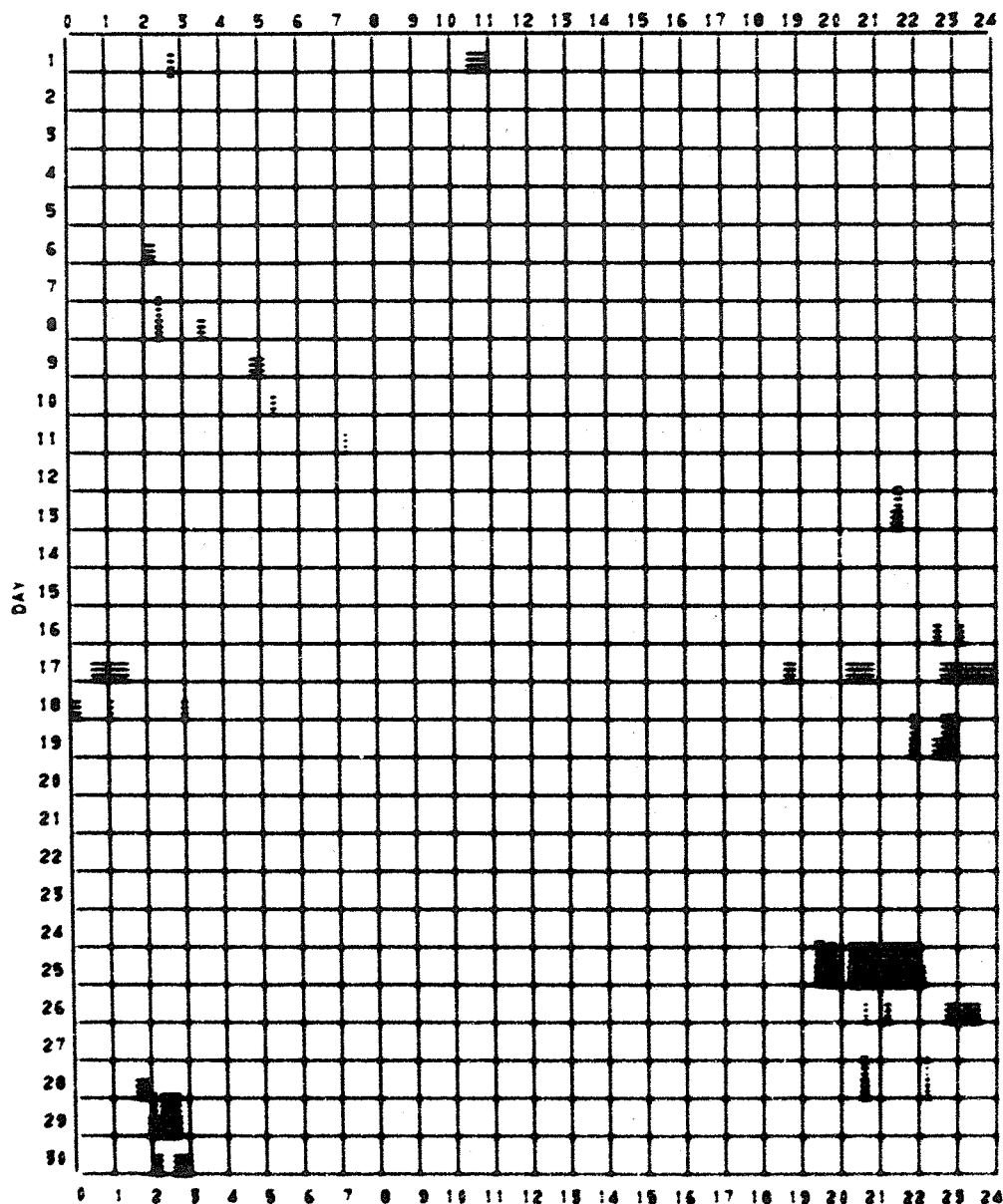
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Apr 71

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

APRIL 1971

HOURLY-UT



Observatories included in total patrol:

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

APRIL 1971

APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION MINUTES	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT		PEAK	MEAN		
1	9400 TYKW	5	0032	0032.5	4	24.0	6.0		
	8800 MANI	4	0032.3	0032.5	9.7	29.1	11.6		
	4995 MANI	4	0032.1	0032.5	2.1	11.9	4.8		
	3750 TYKW	5	0200	0207	15	2.0	1.0		
	3750 TYKW	5	0220	0250	90	3.0	2.0		
	9400 TYKW	5	0230	0250	50	4.0	2.0		
	9400 TYKW	5	0325	0326	25	5.0	2.0		
	9400 TYKW	5	0551	0555	60	6.0	2.0		
	4995 MANI	2	0551	0551.4	1.7	7.3	2.4		
	3750 TYKW	45	0551	0552.4	2	6.0	3.0		
	2695 CRON	3	0551	0552	1.5			1	
	2695 MANI	4	0551.2	0551.4	1.8	38.8	15.5		
	2000 TYKW	45	0551	0551.6	5	28.0	6.0		
	1420 CRON	3	0551.5	0552	2			1	
	1415 MANI	4	0551.1	0551.7	1.7	31.0	10.3		
	1000 TYKW	45	0551	0551.6	2	19.0	10.0		
	200 HIRA	45	0551	0551.5	2	190.0	15.0		
	100 HIRA	45	0551	0551.5	1	130.0	50.0		
	606 MANI	4	0552.4	0552.5	.5	18.8	5.0		
	3750 TYKW	29	0553		60	3.0	2.0		
	245 SGMR	6	1205.4	1206.9	3.5	7.2	3.0		
	237 TRST	45	1205.4	1206.8	3.4	15.0	5.0		
	2700 PENN	45	1242.8	1333.4		83.8			
	960 PENN	45	1243.7	1328		424.0			
	7000 SAOP	23	1245	1326.4	87.5	26.1			
	7000 SAOP	22	1245		87.5	17.0			
	2800 OTTA	21	1245	1325	170	11.8	5.9		
	260 ONDR	45	1250	1319.5	80	85.0			
	240 KIEL	48	1250	1324	70	220.0	35.0		
	245 SGMR	7	1251	1324.4	144	165.0	20.0		
	234 POTS	45	1251 U	1324 U	93 U	150.0	35.0		
	113 POTS	45	1251 U	1324 U	117 U	85.0	15.0		
	606 SGMR	21	1252.8	1326	108.7	23.7	11.9		
	225 HARS	45	1252	1324	60	130.0	30.0		
	930 BORD	45	1253	1323.5	71	605.0	75.0		
	237 TRST	47	1253.3	1318.8	64	480.0			
	1415 SGMR	23	1255.7	1325.5	111.1	22.2	8.0		
	408 SANM	41	1255	1332.9	41.6	165.0	33.5		
	1490 BERL	46	1256	1323.5	85	270.0			
	4995 SGMR	20	1258	1326.5	70.6	13.8	6.9		
	8800 SGMR	20	1300.5	1310.4	37.5	7.6	3.8		
	1420 KIEL	45	1300	1332	63	1000.0	140.0		
	420 KIEL	48	1300	1333	50	300.0	50.0		
	184 BOUL	48	1300 E	1325 U	182 D			3	
	2695 SGMR	23	1301.6	1328.5	82.2	8.8	3.5		
	10700 PENN	40	1306.7		60				
	1420 CANR	40	1306	1324.5	57.5			2	
	9400 HUAN	40	1307.9	1317.7	15.8	11.1	4.0		
	2800 OTTA	40	1307	1336.5	35	43.0			
	1415 SGMR	46	1308	1328.9	28.6	405.0	50.0		
	606 SGMR	46	1308	1324.2	61.7	1030.0	54.0		
	1420 BOUL	40	1309 E	1325	32 D			2	
	808 ONDR	45	1310		30				
	536 ONDR	45	1310		60	240.0			
	9500 BERL	20	1312 U	1323.5	25 U	6.1	2.6		
	2695 SGMR	40	1318.5	1333.3	20.5	41.6	7.1		
	234 POTS	45	1318.8	1318.8	.4	175.0	35.0		
	2695 CANR	40	1319	1334	19			1	
	2695 BOUL	40	1320 E	1337.5	18.5D			1	
	7000 SAOP	8	1326.1	1326.4	.7	9.1	4.5		
	18 MCMA	6	1332	1335	4			1	
	408 SANM	29	1336.6		33.4		6.0		
	408 SANM	45	1343.2	1344.2	1.8	165.0	39.0		
	1420 BOUL	40	1346	1349.5	18.5			1	
	930 BORD	29	1404	1404	28	10.0	4.0		
	9400 HUAN	20	1409.6	1414.4	9.9	5.6	3.5		
	930 BORD	5	1442	1442.4	1	8.0	1.0		
	930 BORD	5	1456	1456.3	1	19.0	1.0		
	184 BOUL	6	1637	1638	3			3	
	9400 HUAN	1	1707.4	1708.6	2.4	7.4	3.7		
	7000 SAOP	3	1723	1723.6	1.6	11.3	9.4		
	7000 SAOP	29	1724.6		5.6				
	15400 SGMR	1	1727.9	1728.4	2.2	7.2	3.6		
	10700 PENN	20	1727.6	1728.5	17.2	14.4	7.2		
	9400 HUAN	3	1727.1	1728.3	2.1	16.7	7.7		
	8800 SGMR	3	1727.3	1728.5	4.1	15.2	6.0		
	4995 SGMR	3	1727.7	1728.4	8.3	11.5	4.4		
	2700 PENN	20	1728.1	1728.5	14.9	2.2	1.1		
	2695 SGMR	1	1728.3	1728.5	2.8	1.3	.7		
	9400 HUAN	29	1729.2	1729.2	11.6	7.4	7.0		
	9400 HUAN	22	1745.6	1748.3	15.7	9.3	1.9		
	2800 OTTA	20	1840	1905	70	2.2	1.0		
	10700 PENN	20	1847.6	1858.4	36.5	12.0	6.3		
	8800 SGMR	1	1848.3	1848.6	2.2	5.6	2.8		
	7000 SAOP	23	1848.5	1857	27.4	28.2			
	4995 SGMR	1	1848.3	1848.6	2.3	4.6	2.3		
	2700 PENN	20	1848.2	1856.9	20.8	6.7	2.9		
	1415 SGMR	1	1848.7	1848.7	1.7	3.5	1.7		
	15400 SGMR	3	1856.3	1856.8	2.4	14.4	5.8		
	10700 PENN	3	1856.2	1856.9	1.6	19.2	7.3		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

APRIL 1971

APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
1	9400 HUAN	3	1856	1856.7	1.8	31.5	14.8	2	
	8800 SGMR	3	1856.2	1856.8	9	28.0	10.7		
	7000 SAOP	3	1856.6	1857	1	21.5	10.2		
	7000 SAOP	22	1856.6		27.4	11.3			
	4995 SGMR	3	1856	1856.8	20.7	15.2	6.2		
	960 PENN	45	1856.2	1856.8	.8	22.6	5.8		
	9400 HUAN	29	1857.8	1857.8	9.4	7.4	4.5		
	960 PENN	45	1903.6	1908.2	6.4	29.0	2.3		
	7000 SAOP	22	1918.8		41.2	5.6			
	2700 PENN	8	1957.9	1957.9	.3	54.7			
	960 PENN	45	2000	2000.9	12.8	7.1	1.3		
	8800 SGMR	20	2004.8	2007.1	10.5	8.4	4.2		
	2800 OTTA	24	2004		3	2.1			
	2700 PENN	20	2004.5	2007.8	65.5	4.5	2.2		
	4995 SGMR	20	2005.1	2006	10.5	4.6	2.3		
	2695 SGMR	20	2005.4	2006.8	10.9	3.0	1.5		
	2700 PENN	41	2008.1	2008.2	1.3	340.0			
	9400 HUAN	40	2050.4	2109	32.9	5.6	2.8		
	960 PENN	3	2058.8	2059.2	.6	15.5	1.5		
	2700 PENN	8	2059	2059	.2	6.7			
	184 BOUL	43	2117		218 D				
	3750 TYKW	45	0205	0209	55	4.0	2.0		
	9400 TYKW	45	0207	0220	50	7.0	3.0		
	260 ONDR	45	0914	0915.5	2.5	50.0			
	260 ONDR	45	0938.5	0940	10	40.0			
	100 GORK	44	1000		57		5.0		
	245 SGMR	44	1029 E		756 D				
	100 GORK	44	1154		66		10.0		
	184 BOUL	44	1241 E		734 D				
	2800 OTTA	20	1445	1455	25	2.2	1.1		
	184 BOUL	6	1759	1800	5				
	2700 PENN	1	1830.6	1833.1	9	4.4	1.4		
	960 PENN	1	1832.8	1833	.5	2.2	0.5		
	184 BOUL	6	1832	1833	4				
	18 MCMA	6	1916	1919	5				
	18 BOUL	6	1916	1919	5				
	2700 PENN	8	1956.6	1956.6	.1	10.8			
	2800 OTTA	20	2045	2240	285	10.4	5.2		
	9400 TYKW	45	2230	2300	140	13.0	5.0		
	3750 TYKW	5	2240	2300	140	4.0	2.0		
3	3750 TYKW	5	0636	0636.2	3	7.0	2.0	2	
	100 GORK	6	0807.1	0807.6	.7	40.0	15.0		
	536 ONDR	5	1106		1.5	55.0			
	184 BOUL	44	1258 E		718 D				
	9400 HUAN	20	1413.1	1413.3	6.2	7.4	1.7		
	9400 HUAN	40	1428.3	1441.7	25.5	7.4	3.4		
	536 ONDR	5	1433.5	1433.5	1.5	80.0			
	536 ONDR	5	1506.5	1506.5	1.5	100.0			
	184 BOUL	6	1555	1556	5				
	9400 HUAN	20	1632.4	1635.3	7.1	7.4	2.8		
	2800 OTTA	20	1650	1725	110	2.2	1.1		
	9400 HUAN	22	1718.9	1727.7	17.7	5.6	3.4		
	9400 HUAN	20	1741.4	1747.5	13.7	9.3	3.4		
	9400 HUAN	20	1914.8	1915.4	12	9.3	4.6		
	245 SGMR	6	1935	1937.1	4.5	4.8	1.2		
4	1490 BERL	22	0735	0735.4	15	3.0	1.7	2	
	100 GORK	44	0753		82		10.0		
	536 ONDR	5	1459.5	1459.5	.5	12.0			
	9400 HUAN	20	1500.4	1503.2	6.4	7.6	1.7		
	9400 HUAN	20	1630.9	1632	7.3	9.5	4.9		
5	184 BOUL	6	2123	2124	4			2	
	100 GORK	44	0930		60		10.0		
	245 SGMR	44	1801		308 D				
6	1420 BOUL	41	2146	2146.5	3.5			2	
	100 GORK	44	0806		33		5.0		
7	237 TRST	42	0837.7	0840.6	31	45.0			
	100 GORK	6	0853.6	0853.7	.4	20.0	10.0		
	950 GORK	4	0913.5	0916.4	4.7	29.0	3.7		
	930 BORD	41	0913	0916.4	5	36.0	3.0		
	650 GORK	4	0913.5	0914.4	4.5	36.0	5.0		
	1490 BERL	22	0914	0916.5	5	2.7	0.8		
	113 POTS	45	0914.5	0914.5	1.9	550.0	20.0		
	100 GORK	41	0914.5	0914.6	3.1	60.0			
	23 POTS	45	0914.5	0914.7	3.5	15000.0	5000.0		
	536 ONDR	45	0930	0939	51	85.0			
	37000 SLOU	3	0932.5	0945.5	37.5	463.0			
	240 KIEL	48	0932	0941	68	50.0	5.0		
	8800 MANI	47	0936.2	0943.9	23.8D	2300.0	680.0U		
	4995 MANI	47	0936.2	0943.9	23.8D	3300.0	1320.0U		
	2950 GORK	21	0936.5		83.5D				
	2695 MANI	47	0936.7	0946	23.3D	750.0	360.0U		
	1490 BERL	46	0936	0947.3	330	320.0	330.0		
	1415 MANI	46	0936.3	0946.2	23.7D	340.0	94.0U		
	950 GORK	20	0936.4	1003	84 D	65.0			
	930 BORD	45	0936	0943.5	39	3135.0	165.0		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

APRIL 1971

APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	650 GORK	21	0936.3	0934.4	40.9	14.0	7.0	2	SUNSET
	650 GORK	46	0936.9	0939.3	8.1	64.0			
	650 GORK		0936.9	0943.2		17.0			
	606 MANI	22	0936.3	0946.4	23.7D	32.5	12.5U		
	1420 KIEL	45	0937	0947	68	600.0	80.0		
	1420 CANR	45	0937	0948.5	43				
	420 KIEL	48	0937	1002	68	15.0	5.0		
	225 HARS	45	0937	0941	40	20.0	5.0		
	2695 CROK	3	0938.5	0948.5	27.5D				
	19000 SLOU	47	0939.8	0944.2	30	549.0			
	9500 BERL	46	0939	0944	330 U	880.0			
	9400 ONDR	45	0939		51				
	9400 SLOU	47	0939	0943.5	51	1180.0			
	9100 GORK	3	0939	0944.2	11	1650.0	970.0		
	4995 CANR	21	0939.5	0944.5	56				
	2950 GORK	45	0939	0948.6	30.8	259.0			
	2950 GORK		0939	1002.5		93.3			
	2695 CANR	45	0939.5	0949.5	60.5				
	950 GORK	46	0939	0942.1	6.3	417.0			
	950 GORK		0939	0943.2		3110.0			
	808 ONDR	45	0939		51				
	113 POTS	45	0939 U	0945 U	42 U	350.0	6.0		
	100 GORK	41	0939.5	0940.2	28.7	60.0			
	100 GORK		0939.5	0943.6		1300.0			
	100 GORK		0939.5	0949.9		600.0			
	4995 CROK	3	0940	0954	25 D				
	1420 CROK	45	0940.5	0948	20.5D				
	650 GORK	2	0951	0952.3	2.7	7.6			
	9100 GORK	29	0951	0951	60	1250.0	138.0		
	930 BORD	29	1015	1015	24	15.0	4.0		
	9400 HUAN	20	1243.7	1249.5	13.6	7.4	3.6		
	9400 HUAN	20	1311.1	1312.3	16.1	5.7	3.5		
	9400 HUAN	22	1404	1425.1	41.2	9.6	3.2		
	2800 OTTA	20	1405		205	2.8	2.0		
	2800 OTTA	20	1850	1910	100	2.4	1.2		
	184 BOUL	6	1852	1853	4				
	9400 HUAN	20	1912.6	1916.9	11.6	9.6	2.8		
	2695 BOUL	40	2019.5	2020.5	2.5				
	2695 BOUL	40	2041	2041	6.5				
	2695 BOUL	40	2041	2043	6.5				
	9400 HUAN	22	2043.9	2045.3	13.4	7.6	2.6		
	2695 BOUL	45	2050.5	2051.5	1.5				
	2695 BOUL	40	2124	2130.5	7				
	2695 BOUL	40	2218.5	2220	8.5				
	2695 BOUL	40	2249.5	2251.5	9.5				
7	100 HIRA	6	0034.5	0035.3	2	90.0	40.0	2	
	260 ONDR	41	0930	1321	280	60.0D			
	184 BOUL	44	1247 E		733 D				
	536 ONDR	5	0940.5	0940.5	1	65.0			
	260 ONDR	5	0941	0941	.5	60.0			
	18 MCMA	6	1515	1519	6				
	18 MCMA	41	1603	1605	5				
	2800 OTTA	24	2005		55	2.2			
	9400 HUAN	20	2034	2036.4	10.7	5.7	2.3		
	184 BOUL	6	2158	2200	4				
8	2695 PENT	20	2300	2340	150	5.6	2.6	3	
	3750 TYKW	5	0325	0341	70	5.0	2.0		
	100 HIRA	6	0516	0516.8	1	50.0	20.0		
	3750 TYKW	5	0520	0550	130	4.0	2.0		
	237 TRST	45	0628.9	0629.2	.5	100.0	50.0		
	536 ONDR	5	0807	0807	.5	60.0			
	260 ONDR	41	0807	1432.5	415	35.0			
	245 SGMR	44	1019 E		773 D				
	184 BOUL	44	1247 E		733 D				
	9400 HUAN	20	1332.3	1333.2	7	9.4	4.0		
9	184 BOUL	41	1435	1454	60			3	
	408 SANM	45	1507.2	1508	5.2	61.0	8.0		
	184 BOUL	6	1823	1825	4				
	408 SANM	45	1901	1906.4	6.5	43.0	6.5		
	408 SANM	3	1928.5	1929	1	48.0	15.5		
	184 BOUL	6	1930	1934	6				
	184 BOUL	41	2051	2055	11				
	2800 OTTA	24	2100		30	2.0			
	606 MANI	3	0001.4	0001.6	.5	16.2	5.4		
	260 ONDR	41	0640	0702	40	40.0			
	245 SGMR	44	1018 E		776 D			3	
	536 ONDR	5	1121	1121	1	60.0			
	260 ONDR	45	1121	1121	3	70.0			
	536 ONDR	5	1206.5	1206.5	1	65.0			
	184 BOUL	44	1234 E		748 D				
	9400 HUAN	20	1301.5	1306.7	10.7	7.5	3.4		
	184 BOUL	41	1535	1618	69				
	606 SGMR	40	1557.8	1615.6	19.2	25.5	3.3		
	245 SGMR	6	1557.6	1616.8	19.6	21.6	5.8		
	1415 SGMR	40	1613	1614	4	7.2	1.8		
	408 SANM	3	1820.4	1820.6	.8	30.5	10.0	2	
	2695 BOUL	45	1925.5	1927.5	2				

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

APRIL 1971

APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
10	2695 BOUL	41	1942.5	1943.5	1.5			1	
	9400 HUAN	20	2116.3	2118.6	14.8	13.1	5.3	3	
	184 BOUL	6	2215	2216	3			3	
	184 BOUL	6	2227	2230	4			3	
	200 GORK	44	0515 E		153		5.0		
	100 GORK	44	0517 E		193 D		5.0		
	260 ONDR	41	0700	0728.5	480	60.0			
	100 GORK	41	0752.1	0752.9	7.4	50.0			
	100 GORK		0752.1	0758.9		50.0			
	100 GORK	41	0812	0812.7	2.4	45.0			
	100 GORK		0812	0813.9		50.0			
	650 GORK	1	0829.7	0829.9	.6	1.6	0.8		
	100 GORK	44	0830 E		141 D		20.0		
	245 SGMR	44	1016 E		779 D				
	950 GORK	1	1029.6	1030	.8	2.4	1.2		
	930 BORD	45	1031	1031.2	2	67.0	2.0		
	950 GORK	4	1032.5	1032.7	1.2	42.3	23.8		
	650 GORK	46	1032.2	1032.5	1.3	44.0	21.0		
	650 GORK		1032.2	1033.2		2.2	1.1		
	408 TRST	42	1032.2	1032.3	4.1	125.0D			
	237 TRST	45	1032	1032.3	.5	5.0	30.0		
	184 BOUL	44	1231 E		752 D			3	
	9400 HUAN	20	1258.3	1309.3	15.5	9.2	4.4		
	930 BORD	40	1310	1318.6	14	6.0	3.0		
	9400 HUAN	20	1332.3	1335.5	8.3	9.2	5.1		
	18 MCMA	6	1405	1406	2			1	
	18 MCMA	6	1424	1428	5			2	
	408 SANM	3	1542.4	1542.8	.8	210.0D	70.5		
	9400 HUAN	40	1636.1	1647.1	29.8	9.2	3.9		
	9400 HUAN	40	1805.9	1806.2	32.6	11.1	5.2		
11	9400 TYKW	5	0014.6	0014.9	1	8.0	2.0		
	3750 TYKW	5	0014.7	0014.9	1	2.0	1.0		
	9400 TYKW	5	0430	0451	80	6.0	3.0		
	3750 TYKW	5	0430	0451	50	5.0	2.0		
	950 GORK	21	0435	0449	18	8.5			
	650 GORK	22	0436.6	0448.9	15.8	6.0			
	1000 TYKW	45	0439	0440.7	13	22.0	5.0		
	950 GORK	4	0439	0441.2	3.6	36.5	12.6		
	200 GORK	44	0630		270 D		5.0		
	245 SGMR	44	1015 E		780 D				
	184 BOUL	44	1230 E		753 D			3	
	240 KIEL	44	1640 E	1640		500.0	5.0		
	237 TRST	45	0905.4	0905.9	1	160.0	40.0		
	234 POTS	45	0905.8	0905.9	.2	150.0	25.0		
	930 BORD	41	0908	0909	2	6.0	2.0		
	9400 HUAN	20	1317.7	1321	10	7.5	1.5		
	930 BORD	40	1458	1503	24	18.0	3.0		
	18 BOUL	6	1638	1641	5			1	
	18 MCMA	6	1640	1642	3			1	
	184 BOUL	6	1649	1650	3			3	
	606 SGMR	22	1650	1704	60.2	34.3	10.0		
	9400 HUAN	32	1722.4	1734.5	24.6	18.7	9.7		
	606 SGMR	22	1755.3	1810.8	24.4	7.9	1.5		
	18 MCMA	41	1805	1812	8			1	
	18 BOUL	42	1805	1807	53			1	
	9400 HUAN	22	1810.9	1822	13.3	11.2	1.7		
	184 BOUL	6	1810	1812	6			3	
	18 MCMA	42	1821	1823	79			1	
	9400 HUAN	20	1847.3	1850.3	13.5	11.2	3.5		
	184 BOUL	41	2144	2150	32			3	
	606 SGMR	2	2148.4	2148.7	.8	7.3	2.0		
	200 HIRA	45	2148.5	2148.9	1	480.0	120.0		
12	100 GORK	44	0400 E		24		5.0		
	200 GORK	44	0500		240		5.0		
	100 GORK	44	0506		84		5.0		
	260 ONDR	41	0630	1127.5	510	50.0			
	200 GORK	44	1006		174 D		5.0		
	245 SGMR	44	1013 E		784 D				
	100 GORK	44	1030		150		5.0		
	184 BOUL	44	1227 E		758 D			3	
	240 KIEL	44	1555 E	1555		150.0	5.0		
	950 GORK	20	1019.6	1024.5	5.6	2.0	1.0		
	650 GORK	21	1020.2	1021.7	9.4	1.1	0.6		
	650 GORK	1	1024	1024.4	.7	4.5	2.2		
	200 GORK	41	1043.2	1043.3	4.3	180.0			
	200 GORK		1043.2	1046.8		180.0			
	100 GORK	41	1046.3	1048.2	3.4	60.0			
	100 GORK	6	1110.5	1110.7	.6	60.0	30.0		
	100 GORK	41	1148.7	1148.8	5.9	60.0			
	100 GORK		1148.7	1152.5		50.0			
	2800 OTTA	20	1425	1435	120	2.6	1.3		
	9400 HUAN	40	1427.7	1444.5	28.1	7.6	3.0		
	2700 PENN	1	1430.4	1432	7.3	5.2	0.8		
	9400 HUAN	40	1813.1	1833.4	39.6	11.4	3.0		
	1415 SGMR	2	1834.2	1834.3	.5	4.5	1.5		
	606 SGMR	3	1834.1	1834.3	.4	15.4	5.0		
	9400 HUAN	20	1931.3	1935.5	6.9	7.6	2.5		

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APRIL 1971

APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS			
			UT	UT	MINUTES	PEAK	MEAN					
13	408 SANM	3	1937.5	1937.8	1.1	65.5	22.0	3				
	9400 HUAN	20	1947.6	1949.2	10.5	9.5	5.5					
	184 BOUL	41	2026	2201	119							
	2700 PENN	24	2133.6	2150.6		7.8						
	960 PENN	41	2211.2	2217	6	56.5						
	606 MANI	1	0311.1	0311.3	.6	9.0	2.6					
	200 GORK	44	0409 E		207		20.0					
	100 GORK	44	0409 E		264		10.0					
	260 ONDR	41	0640	0845	520	45.0						
	2950 GORK	21	0733	0939	231	18.8	9.4					
	200 GORK	44	0736		105		5.0					
	100 GORK	44	0833		204		5.0					
	245 SGMR	44	1011 E		787 D							
	184 BOUL	44	1227 E		751 D							
	184 BOUL	41	2020	2105	131			3				
	2950 GORK	1	0930.1	0931.4	2	6.6	3.3	3				
	536 ONDR	5	1016.5	1016.5	1	65.0						
	7000 SAOP	8	1249.3	1249.7	.9	2.3	1.1					
	2800 OTTA	20	1325	1350	245	5.2	2.6					
	606 SGMR	41	1353.7	1358.8	17.4	14.2	1.0					
	930 BORD	5	1526	1526.3	1	9.0	1.0					
	930 BORD	41	1651	1653	3	106.0	2.0					
	408 SANM	45	1847.2	1847.8	2.8	56.0	8.0					
	245 SGMR	6	1852.9	1854.1	3.3	13.3	4.5					
	1415 SGMR	1	1853.8	1854	1.2	5.8	2.9					
	606 SGMR	1	1853.9	1854	1.3	3.5	1.8					
	2700 PENN	40	2110.7		9.3							
	960 PENN	1	2113.5	2113.8	.5	8.5	1.2					
	10700 PENN	40	2115		4							
	960 PENN	45	2115.6	2116	.5	7.3	1.7					
	2695 BOUL	45	2124	2124.5	1.5			1				
14	100 GORK	44	0420 E		520 D		150.0	3				
	200 GORK	44	0421 E		529 D		5.0					
	245 SGMR	44	1009 E		790 D							
	184 BOUL	44	1226 E		762 D							
	100 HIRA		2000	2330	400	70.0	30.0					
	950 GORK	1	0624.6	0624.8	.6	11.0	9.2					
	650 GORK	1	0624.6	0624.9	.4	2.8						
	408 TRST	41	1139.5	1139.8	1	115.0						
	2800 OTTA	20	1330		95	2.6	1.3					
	18 MCMA	6	1350	1351	3			1				
	18 BOUL	41	1352	1354	6			1				
	930 BORD	5	1550	1550.2	1	14.0	1.0					
	930 BORD	5	1637	1637.2	1	30.0	1.0					
	2800 OTTA	22	1705	1815	150	2.6	1.3					
	184 BOUL	41	1726	1756	108			3				
	9400 HUAN	22	1744.7	1757.2	39.9	7.4	4.1					
	2800 OTTA	23	1935	2025	150	5.2	2.6					
	1415 SGMR	22	2015.8	2032.5	31.5	18.0	8.0					
	606 SGMR	22	2016.3	2033.1	25.9	14.2	7.0					
	960 PENN	45	2017.1	2033.3	51.2	17.3	2.3					
	2800 OTTA	40	2049	2050.2	7	57.0						
	2700 PENN	45	2049.1	2050.5	10.2	85.7	5.9					
	2800 OTTA	21	2120	2138	45	5.0	2.5					
	2800 OTTA	1	2135	2135.5	2.5	3.4	1.7					
	2695 PENT	21	2230	2340	140	3.8	1.9					
	2695 BOUL	40	2250	2251.5	2.5			2				
	2695 PENT	1	2324	2325	2	2.4	1.2					
	15	3750 TYKW	5	0234	0237	25	3.0	2.0			3	
		3750 TYKW	5	0350	0350.8	10	2.0	1.0				
		100 GORK	44	0406 E		234 D		20.0				
		200 GORK	44	0603		396 D		5.0				
200 GORK		41	0619.5	0620.8	4.7	150.0						
100 GORK		44	0800 E		275 D		110.0					
245 SGMR		44	1008 E		792 D							
184 BOUL		44	1224 E		349 D							
536 ONDR		5	1010	1010.5	1	75.0						
2950 GORK		20	1046.6E	1051	12.7E	8.0	4.0					
234 POTS		41	1057.8	1057.9	19.4	175.0	1.0					
930 BORD		45	1102	1102.2	1	6.0	2.0					
260 ONDR		41	1110	1110.5	420	45.0						
930 BORD		5	1128	1128.2	1	7.0	1.0					
2800 OTTA		20	1135	1445	340	7.0	3.8					
245 SGMR		6	1430.4	1431.4	2	24.4	10.0					
1415 SGMR		1	1432.1	1432.2	.2	1.6	1.0					
606 SGMR		1	1432.1	1432.2	.7	5.7	2.8					
410 SGMR		1	1432	1432.2	1	4.8	2.4					
930 BORD		5	1611	1611.2	1	24.0	1.0					
930 BORD		5	1639	1639.2	1	15.0	1.0					
930 BORD		45	1645	1645.1	1	22.0	2.0					
930 BORD		45	1719	1719.3	1	9.0	2.0					
1415 SGMR		1	1924	1924.1	1	3.5	.7					
606 SGMR		3	1924.1	1924.2	1.5	15.8	3.2					
2700 PENN		41	2156.3	2156.3	.6	95.4						
2695 PENT		20	2220	2420	230	3.0	1.5					
184 BOUL		44	2235 E		162 D			3				
16		3750 TYKW	5	0014	0015.4	2	12.0	4.0				

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APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
16	9400 TYKW	5	0015	0015.4	1	6.0	2.0		
	3750 TYKW	29	0016		25	3.0	2.0		
	100 GORK	44	0418 E		522 D		15.0		
	200 GORK	44	0424		81		5.0		
	245 SGMR	44	1006 E		796 D				
	184 BOUL	44	1220 E		592 D			3	
	3750 TYKW	45	0741	0744.1	6	36.0	13.0		
	2695 CRON	1	0741.5	0744	5			1	
	9400 TYKW	5	0742	0747	16	7.0	4.0		
	4995 CANR	3	0742.5	0744	5.5			1	
	4995 MANI	3	0742.5	0743.8	6.4	25.2	11.2		
	2950 GORK	3	0742.8	0744.3	3.2	47.0	17.6		
	2695 CANR	3	0742.5	0745	6.5			1	
	2695 MANI	3	0742.5	0744	4.8	35.5	7.5		
	1415 MANI	3	0742.5	0743.9	5.5	12.1	4.5		
	9500 BERL	20	0743.5	0745	36.5	6.5	4.9		
	8800 MANI	3	0743.5	0746.5	5.4	25.0	9.4		
	2000 TYKW	5	0743	0744.1	4	26.0	7.0		
	9100 GORK	20	0744	0745.1	10.8	11.0	5.4		
	1490 BERL	3	0744.1E	0744.1	3	7.6	3.6		
	3750 TYKW	29	0747		13 D	6.0	4.0		
	536 ONDR	45	0750	0751	2.5	105.0			
	808 ONDR	5	0751	0751	3.5				
	930 BORD	41	0824	0827.6	4	9.0	2.0		
	930 BORD	41	0850	0851	5	10.0	2.0		
	113 POTS	45	0903.8	0903.8	.2	150.0	40.0		
	200 GORK	6	1013.6	1014.1	1.2	200.0			
	225 HARS	5	1046.5	1047	1.5	45.0	20.0		
	930 BORD	41	1107	1107.8	3	13.0	2.0		
	1490 BERL	22	1149	1150.6	31	10.0	1.5		
	1490 BERL		1149	1201.5		2.9	1.5		
	1490 BERL		1149	1210.6		5.3	1.5		
	950 GORK	4	1149.3	1150.8	9.2	10.5			
	650 GORK	23	1149.1		11.2	4.3	2.0		
	650 GORK	3	1150	1150.5	1.4	8.0	4.0		
	950 GORK	29	1152.5	1155	6.3	2.0	1.8		
	650 GORK	1	1156.2	1156.8	1.2	5.4	2.7		
	260 ONDR	5	1359	1359	1	70.0D			
	9400 HUAN	22	1449.3	1449.5	11.2	16.5	3.5		
	9400 HUAN	20	1519	1519.1	7.3	12.8	1.6		
	9400 HUAN	22	1541.2	1541.5	5.2	11.0	4.6		
	9400 HUAN	20	1611.2	1614.2	5.3	7.3	1.6		
	9400 HUAN	20	1632	1633.2	7.3	11.0	5.8		
	2800 OTTA	20	1640	1725	220	3.4	1.7		
	9400 HUAN	20	1727.3	1728.9	4.2	9.1	3.2		
	9400 HUAN	22	1733.5	1734.2	4.4	12.8	7.3		
	9400 HUAN	42	1817.3	1825.3	36.1	14.6	1.1		
	9400 HUAN	22	1925.4	1930.7	18.3	11.0	4.0		
	2695 BOUL	41	2055.5	2056	5			1	
	2695 BOUL	40	2121.5	2122	2.5			1	
	2695 BOUL	40	2121.5	2124	2.5				
	2695 BOUL	45	2200.5	2201	1.5			1	
	2695 PENT	24	2205		105	4.6			
17	100 HIRA	45	0003.5	0005.2	1.5	300.0	80.0		
	100 GORK	44	0406 E		99 D		5.0		
	100 GORK	41	0418	0418.4	2.5	40.0			
	100 GORK		0418	0419.7		40.0			
	200 GORK	44	0530		210		5.0		
	650 GORK	23	0533 E	0915	315 D	60.0	10.0		
	950 GORK	22	0539.7	0610.3	71.3	9.8	8.4		
	100 GORK	44	0545 E		306 D		80.0		
	260 ONDR	44	0640	0914.5	500	90.0			
	200 GORK	44	0900		111 D		10.0		
	245 SGMR	44	1005 E		797 D				
	100 GORK	41	0757	0757.5	2.1	90.0			
	100 GORK		0757	0758.3		140.0			
	200 GORK	6	0758.1	0759.2	1.9	90.0	45.0		
	930 BORD	40	0800	0829	60	8.0	3.0		
	606 MANI	40	0908.9	0915	9.4	130.0	55.0		
	536 ONDR	45	0908	0914.5	10	235.0			
	408 TRST	41	0908.1	0915.1	8.5	370.0			
	260 ONDR	45	0908	0914.5	12	90.0			
	950 GORK	21	0909.3	0925	33.5	15.6	8.9		
	930 BORD	45	0910	0914.8	33	48.0	7.0		
	1415 MANI	2	0911.8	0914.8	5.1	9.4	3.1		
	950 GORK	4	0913.7	0915.3	4.9	47.0	13.7		
	650 GORK	46	0913.7	0914.1	4.3	53.0			
	650 GORK		0913.7	0915.5		80.0			
	650 GORK		0913.7	0917.1		63.0			
	650 GORK		0913.7	0917.8		39.0			
	930 BORD	40	0946	1014	37	6.0	3.0		
	2950 GORK	3	0957	0959.2	3.3	9.3	4.3		
	234 POTS	41	1027.3	1028.7	2	250.0	8.0		
	200 GORK	41	1039	1039.5	2.3	200.0			
	234 POTS	45	1058.2	1058.4	.4	200.0	30.0		
	2800 OTTA	20	1235	1305	120	4.4	2.2		
	9400 HUAN	20	1402.3	1408.6	19	11.4	5.6		
	2800 OTTA	20	1440	1515	80	3.2	1.6		
	18 MCMA	41	1443	1445	5			1	

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APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
18	9400 HUAN	20	1450.5	1454.8	22.7	9.5	5.6	1	
	930 BORD	40	1600	1618	33	6.0	3.0		
	9400 HUAN	20	1642.2	1645.1	18.3	9.5	3.9		
	9400 HUAN	22	1826.1	1836.5	16.9	9.5	4.7	3	
	18 MCMA	42	1847	1849	7				
	2800 OTTA	22	1850	2030	170	5.2	2.6		
	408 SANM	3	1932.8	1933.3	.9	78.0	26.0	3	
	2800 OTTA	20	2155	2200	20	2.6	1.3		
	184 BOUL	44	2220 E		167 D				
	200 GORK	44	0409 E		67		5.0	2	
	100 GORK	44	0409 E		66		5.0		
	100 GORK	44	0545		51		5.0		
	260 ONDR	44		0746.5	230	60.0		2	
	200 GORK	44	0730		204 D		20.0		
	184 BOUL	44		1218 E	779 D				
	1490 BERL	3	1102.5	1104.3	17.5	6.6	2.4	1	
	2800 OTTA	20	1235	1240	25	2.6	1.2		
	18 MCMA	6	1336	1337	3				
	18 MCMA	6	1346	1347	2			1	
	18 MCMA	6	1404	1405	2			1	
	18 MCMA	6	1421	1424	5			1	
	18 MCMA	41	1434	1435	5			1	
	2800 OTTA	21	1450	1715	250	6.0	3.0	1	
	7000 SAOP	3	1530.2	1530.6	1.3	5.7	2.3		
	2800 OTTA	20	1605	1608	25	5.0	2.4		
	2800 OTTA	1	1706.5	1707.1	3	4.0	2.0	1	
	2695 SGMR	2	1706.4	1707.2	2.1	5.5	1.8		
	408 SANM	45	1843.2	1843.8	1.2	62.0	8.0		
	408 SANM	45	1856.6	1858	2.3	162.0	15.5	1	
	9400 HUAN	20	1905.7	1905.9	13.4	13.1	6.7		
	408 SANM	45	1910.8	1911.5	4.2	51.0	8.0		
	2800 OTTA	20	1930	1945	25	2.6	1.3	1	
	9400 HUAN	22	1934.9	1942.4	18.4	11.2	5.2		
	2800 OTTA	21	2230	2400	150	3.8	1.9		
	2800 OTTA	1	2237	2238	5	4.2	1.8	1	
	3750 TYKW	5	2314	2314.8	3	5.0	2.0		
	2695 PENT	1	2314	2315	4	6.8	3.0		
	2000 TYKW	5	2314	2314.8	2	8.0	4.0	1	
	1000 TYKW	5	2314	2314.9	2	8.0	3.0		
	1420 CRON	40	0355	0412.5	22.5				
	9400 TYKW	5	0456	0456.8	2	6.0	2.0	1	
	650 GORK	1	0456	0457.2	3.7	7.0	2.5		
	9400 TYKW	5	0535	0536	3	3.0	2.0		
	3750 TYKW	5	0535	0535.9	2	10.0	3.0	1	
	2950 GORK	3	0535.8	0536.4	1.1	13.7	6.8		
	650 GORK	1	0537.2	0537.6	.8	1.6	0.8		
	950 GORK	1	0556.5	0557.2	1.2	2.4	1.9	1	
	930 BORD	5	0731	0731.6	1	10.0	2.0		
	260 ONDR	45	1046.5	1047	55	110.0			
	2800 OTTA	1	1130	1134	8	3.4	1.7	1	
	2800 OTTA	21	1200	1325	330	8.6	4.3		
	245 SGMR	6	1222.5	1223.4	4.8	26.8	3.0		
	237 TRST	42	1222.8	1223.4	1.7	180.0		1	
	200 GORK	41	1222.9	1223.3	1.5	30.0			
	100 GORK	41	1222.8	1223.4	3.8	90.0			
	100 GORK	2	1223	1224.6		190.0		1	
	606 SGMR	2	1223	1224.2	3.4	1.4	.3		
	408 TRST	5	1223	1223.2	.4	55.0	15.0		
	113 POTS	41	1223.3	1224.4	3	500.0	15.0	1	
	23 POTS	41	1223.2	1224.5	3.2	10000.0	500.0		
	1490 BERL	21	1229	1237.3	63	3.6	1.1		
	9500 BERL	20	1239	1321	73	5.6	4.3	1	
	245 SGMR	6	1320.4	1328.9	14.8	16.1	5.0		
	237 TRST	47	1320.5	1322.8	11	45.0			
	1415 SGMR	22	1321.4	1322.3	13.9	5.9	1.0	1	
	1490 BERL	46	1322.5	1323.4	2	6.9			
	606 SGMR	22	1322.3	1322.9	10.6	2.2	.4		
	240 KIEL	5	1326	1329	8	30.0	5.0	1	
	18 MCMA	42	1354	1358	28				
	245 SGMR	43	1400		565 D				
	9400 HUAN	20	1406.8	1410.7	9.8	9.2	3.4	1	
	9400 HUAN	20	1445.2	1446.9	7	11.1	4.4		
	2800 OTTA	1	1507	1508	5	4.0	2.0		
	2695 SGMR	22	1507.4	1508.1	19.6	5.6	1.0	1	
	18 MCMA	41	1518	1523	8				
	9400 HUAN	20	1539.4	1544.2	13.5	9.2	4.7		
	2695 SGMR	1	1551.4	1551.5	1.8	4.2	2.1	1	
	4995 SGMR	3	1710.7	1711.3	3.7	17.2	7.0		
	2700 PENN	3	1710.8	1711.4	2	10.1	3.0		
	930 BORD	5	1710	1711.5	3	14.0	3.0	1	
	606 SGMR	4	1710.8	1711.3	2.3	63.4	25.0		
	410 SGMR	4	1710.8	1711.3	1.8	284.0	99.0		
	408 SANM	45	1710	1710.8	1.6	235.0D		1	
	8800 SGMR	1	1711.2	1711.3	.9	5.4	2.7		
	2800 OTTA	2	1711	1711.3	2	4.0	2.0		
	2695 SGMR	1	1711.1	1711.4	1.7	5.4	2.7	1	
	1415 SGMR	1	1711.3	1711.6	1.7	3.7	1.8		
	960 PENN	1	1711	1711.5	2	6.8	1.1		

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APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
20	18 MCMA	6	1809	1811	3			1	
	245 SGMR	6	1828.9	1829.4	2.4	11.0	3.9		
	1415 SGMR	1	1829.3	1829.4	.7	6.2	3.0		
	606 SGMR	3	1829.2	1829.4	.9	14.4	5.8		
	410 SGMR	1	1829.3	1829.4	.3	3.6	1.8		
	15400 SGMR	3	1830.5	1831.2	2.7	117.0	41.0		
	10700 PENN	3	1830.5	1831.1	4.5	106.0	13.7		
	9400 HUAN	3	1830.3	1830.9	1.3	85.0	37.0		
	9400 SLOU	4	1830	1831	2	69.0			
	8800 SGMR	3	1830.2	1831.1	5.1	75.0	26.2		
	4995 SGMR	1	1830.8	1831.1	1.5	5.4	2.7		
	2800 OTTA	20	1830	1920	165	5.8	2.9		
	9400 HUAN	29	1831.6	1831.6	6.6	12.9	4.1		
	9400 HUAN	20	1842.8	1846.7	9.1	12.9	6.3		
	2700 PENN	45	1941.2	1941.8	5	8.2	2.3		
	2700 PENN	40	1959.1		2 D				
	960 PENN	45	1959.7	1959.8	.8	24.7	5.3		
	9400 HUAN	22	2028.3	2024.6	15.1	7.4	4.1		
	9400 HUAN	20	2054.2	2059.3	6.5	7.4	4.1		
	2700 PENN	3	2124.9	2130.1	11.4	12.7	3.2		
	960 PENN	45	2126.5	2131.3	7.4	6.1	1.7		
	2800 OTTA	2	2128	2130	5	7.2	3.2		
	1415 SGMR	1	2128	2130.1	6	3.7	1.8		
	606 SGMR	1	2128	2129.5	5.9	5.8	2.8		
	2700 PENN	1	2218.5	2220.2	8.6	5.8	2.8		
	2800 OTTA	2	2219	2221	6	4.8	2.0		
	9400 TYKW	5		0010	30	6.0	3.0		
	3750 TYKW	5		0003	30	3.0	2.0		
	9400 TYKW	5	0052		100	38.0D	14.0U		
	3750 TYKW	5	0052	0112	90	12.0	5.0		
	8800 MANI	3	0107.2	0112.5	11.1	25.7	9.6		
	4995 MANI	20	0107.2	0114.3	22.6	13.6	5.4		
	100 GORK	41	0455	0455.1	1	65.0			
	100 GORK		0455	0455.6		45.0			
	3750 TYKW	45	0509	0518.6	16	485.0	65.0		
	9400 TYKW	47	0512	0518.6	9	1380.0	235.0		
	2950 GORK	21	0512.4	0548.7	85.5	21.0	10.0		
	4995 CRON	45	0513.5	0518.5	14.5				
	2950 GORK	45	0513.7	0514.3	10.5	59.0		2	
	2950 GORK		0513.7	0518.5		550.0			
	2000 TYKW	5	0513	0518.8	11	135.0	35.0		
	2695 CRON	28	0514	0519	9.5			2	
	9100 GORK	46	0515.6	0517.2	36.4	392.0			
	9100 GORK		0515.6	0518.7		1360.0			
	1415 MANI	3	0515.8	0518.4	5.2	55.0	13.8		
	8800 MANI	47	0516.2	0518.6	4.8	1030.0	370.0		
	4995 MANI	47	0516.2	0518.6	4.8	1170.0	440.0		
	2695 MANI	3	0516.2	0518.6	4.8	245.0	69.0		
	1000 TYKW	5	0516	0518.3	7	28.0	8.0		
	950 GORK	3	0516.1	0518.5	12.7	27.6	13.3		
	1420 CRON	3	0517	0519	6.5			2	
	650 GORK	1	0517	0519	4.6	3.0	1.5		
	240 KIEL	44	0520	0520		170.0	25.0		
	950 GORK	29	0519.9	0519.9	8.6	.3	2.9		
	9100 GORK	29	0520	0520.4	32	76.0	18.0		
	9400 TYKW	29	0521		60	90.0	30.0		
	8800 MANI	29	0521	0521	16.3	64.0	16.1		
	4995 MANI	29	0521	0521	24	52.0	57.0		
	2000 TYKW	29	0524		45	6.0	3.0		
	3750 TYKW	29	0525		85	20.0	9.0		
	260 ONDR	41	0640	0648	360	45.0			
	100 HIRA	6	0716.8	0717	.7	110.0	30.0		
	100 GORK	6	0716.7	0716.8	.7	120.0			
	536 ONDR	5	0855	0855	1	55.0			
	536 ONDR	5	1035	1035	.5	70.0			
	1490 BERL	22	1132.2	1133	1.8	2.4	0.8		
	113 POTS	5	1132.6	1132.6	.1	150.0	50.0		
	9500 BERL	1	1133	1133		2.6			
	2800 OTTA	21	1205	1223	115	7.4	3.7		
	2950 GORK	20	1210.8	1218.4	32.8	13.8	6.9		
	7000 SAOP		1211.4		7.5				
	2700 PENN	3	1213.3	1219.9	8.6	117.0	17.6		
	2695 SGMR	3	1213.4	1219.9	13.7	79.0	18.0		
	960 PENN	3	1214.9	1219.9	11.9	37.5	5.0		
	4995 SGMR	3	1215.1	1219.7	11	120.0	25.0		
	10700 PENN	3	1216.4	1219.8	4.5	86.0	15.4		
	9500 BERL	3	1217	1219.5	4.5	68.0	31.0		
	8800 SGMR	4	1217.8	1219.7	6.7	82.0	20.0		
	2800 OTTA	3	1217	1219.8	6	77.0	15.0		
	1490 BERL	3	1217.5	1219.7	8.5	56.0	24.0		
	9400 HUAN	3	1218.7	1219.5	2.4	77.6	29.0		
	7000 SAOP	3	1218.7	1219.7	4.4	92.7	19.2		
	1415 SGMR	4	1218.6	1219.8	7.2	44.1	10.0		
	536 ONDR	45	1218	1220	8.5	80.0			
	410 SGMR	6	1218.2	1218.6	10.9	81.0	20.0		
	245 SGMR	6	1218.5	1219.4	3.5	320.0	100.0		
	225 HARS	45	1218.5	1219	1.5	120.0	40.0		
	15400 SGMR	3	1219	1219.6	1.8	40.0	15.0		
	9400 ONDR	45	1219.5	1220	9				

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APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS	
			UT	UT	MINUTES	PEAK	MEAN			
20	9100 GORK	3	1219.2	1219.7	1.8	100.0	23.0	1		
	4995 CANR	3	1219.5	1220.5	2.5					
	2950 GORK	3	1219	1219.9	2.7	135.0	36.0	2		
	2695 CANR	3	1219.5	1220.5	2.5					
	1420 KIEL	6	1219	1220	2	80.0	40.0	2		
	950 GORK	3	1219.1	1220	7.1	87.0	35.0			
	930 BORD	45	1219	1219.8	7	67.0	8.0	2		
	808 ONDR	45	1219.5	1220	7.5					
	650 GORK	3	1219	1220.1	4.6	32.0	9.0	2		
	606 SGMR	4	1219.1	1219.8	6.5	31.7	8.0			
	420 KIEL	5	1219	1220	2	90.0	50.0	2		
	408 TRST	45	1219	1220	2.1	500.0	100.0			
	260 ONDR	45	1219	1220	2	130.0		2		
	240 KIEL	5	1219	1220	2	900.0	100.0			
	237 TRST	45	1219	1219.5	1.5	1100.0	200.0	2		
	234 POTS	45	1219.2	1219.6	.7	500.0	25.0			
	200 GORK	6	1219.3	1219.7	.7	80.0	25.0	2		
	100 GORK	6	1219.8	1219.9	.3	10.0	5.0			
	1420 CANR	3	1220	1221	2.5			2		
	10700 PENN	29	1220.9	1220.9	30.8	10.7	5.4			
	2700 PENN	29	1221.9	1221.9	24.9	10.2	4.1	2		
	960 PENN	1	1517.9	1521.6	8.2	9.2	0.8			
	2700 PENN	20	1518.2	1521.9	10.3	5.9	3.0	2		
	606 SGMR	41	1520.9	1521.5	5	23.8	4.0			
	245 SGMR	6	1520.9	1521.9	2	80.0	30.0	2		
	4995 SGMR	1	1521.6	1521.8	.7	3.9	1.0			
	2800 OTTA	20	1521.3	1521.8	2	3.2	1.2	2		
	2695 SGMR	2	1521.5	1521.8	.8	3.8	1.0			
	930 BORD	45	1521	1521.5	1	14.0	2.0	2		
	410 SGMR	6	1521	1521.9	4.4	142.0	25.0			
	237 TRST	41	1521.4	1521.9	.5	75.0		2		
	1415 SGMR	1	1522	1522.2	1.4	1.5	.4			
	2695 BOUL	45	1752.5	1753.5	3			1		
	2695 BOUL	45	1752.5	1754.5	3					
	2695 BOUL	45	1831.5	1832	1.5			1		
	2800 OTTA	21	1900	2005	245	17.0	7.0			
	2695 BOUL	3	1905	1906	2			1		
	960 PENN	45	1912.2	1945.3	48	118.0	12.2			
	9400 HUAN	24	1914.3	2021.4U	195.7U	37.7	23.6	1		
	2700 PENN	45	1915.3	1940.8	41.2	150.0	39.0			
	606 SGMR	22	1915.8	1945.6	72.5	53.0	12.2	1		
	410 SGMR	6	1915.2	1945	55.8	121.0	48.0			
	408 SANM	45	1915	1944.5	40	115.0	20.5	1		
	245 SGMR	6	1915.1	1932.7	111.9	40.0	16.0			
	4995 SGMR	20	1916.2	1945.5	86.8U	35.7	15.3	1		
	8800 SGMR	20	1917.3	1945.5	85.7U	18.9	8.1			
	2695 SGMR	21	1917.3	1928.5	85.7U	9.5	5.6	1		
	7000 SAOP	22	1918		70 D	17.0				
	10700 PENN	20	1919.2	1951.6	160	25.0	12.0	3		
	18 MCMA	42	1919	1936	29					
	18 BOUL	42	1919	1940	35			3		
	15400 SGMR	20	1920.7	1959.8	82.2	20.4	8.2			
	1415 SGMR	23	1920.1	1936.9	83.4	37.5	11.4	2		
	184 BOUL	41	1922	1937	39					
	2800 OTTA	4	1924	1945.2	40	45.0	14.0	2		
	1420 BOUL	40	1925	1940	38					
	9400 HUAN	25	1927.8	1930.3	11.6	18.0	10.6	2		
	2695 SGMR	40	1928.5	1940.8	22.4	100.0	28.0			
	2695 BOUL	40	1930.5	1941.5	21.5			2		
	1415 SGMR	46	1936.9	1942.1	13.6	435.0	84.0			
	9400 HUAN	25	1944.1	1954	25.2	12.6	4.3	2		
	2700 PENN	29	1956.5	1956.5	107	29.4	15.6			
	960 PENN	29	2000.2	2000.2		3.3		1		
	960 PENN	41	2014.4	2022.2	8.5	7.7				
	2695 BOUL	41	2327	2328	3			1		
	2695 BOUL	4	2334	2335	1.5					
21	950 GORK	1	0613.4	0614.2	1.4	6.0	3.0			
	100 HIRA	45	0619.6	0620.3	1.7	460.0	200.0			
	100 GORK	6	0619.9		1.6	150.0				1
	3750 TYKW	5	0643.5	0644.3	4	3.0	1.0			
	200 HIRA	6	0643.5	0643.5	1	90.0	20.0			1
	100 HIRA	45	0644	0644.3	1.5	350.0	60.0			
	9500 BERL	20	1110	1116.6	35	8.4	5.5			1
	4995 SGMR	45	1114.1	1117	5.4	11.0	4.2			
	2695 SGMR	45	1114.7	1117	6.4	14.6	6.0			1
	650 GORK	3	1114	1117.3	13.6	14.0	5.3			
	9100 GORK	20	1115.7	1117.5	9.1	9.9	5.9			1
	2800 OTTA	3	1115.5	1117	2.5	19.0	9.5			
	1490 BERL	3	1115.2	1117.1	5.8	31.0	13.0			1
	1420 KIEL	6	1115	1117	4	30.0	15.0			
	1415 SGMR	3	1115.6	1117.1	9.5	24.0	9.7			1
	950 GORK	4	1115.6	1117.6	8.5	34.4	24.0			
	930 BORD	45	1115	1117.5	6	26.0	7.0			1
	606 SGMR	3	1115.6	1117.2	5.9	11.3	4.4			
	410 SGMR	6	1115.5	1115.7	7.2	7.9	3.2			1
	408 TRST	41	1115.5	1117	5.5	15.0				
	260 ONDR	45	1115.5	1115.5	2	70.0				1
	245 SGMR	6	1115.4	1116.4	13.6	11.2	4.4			
	240 KIEL	5	1115	1116	8	30.0	15.0			

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

APRIL 1971

APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
22	237 TRST	41	1115.4	1118.3	7.4	30.0		1	
	8800 SGMR	1	1116.2	1117.2	1.8	5.4	2.1		
	2950 GORK	3	1116.2	1117.1	4.8	25.0			
	1420 CANR	3	1116.5	1117.5	2				
	808 ONDR	45	1116.5	1117.5	3			1	
	200 GORK	41	1116	1116.9	6.5	55.0			
	200 GORK		1116	1121.6		60.0			
	113 POTS	41	1116.5	1125.2	10.7	5500.0	300.0		
	100 GORK	41	1116.3	1117.2	9.2	180.0		1	
	100 GORK		1116.3	1123.2		10000.0			
	2695 CANR	3	1117	1118	2.5				
	2950 GORK	29	1118	1119.2	2.9	4.8			
	2800 OTTA	29	1118		6	5.6	2.8	1	
	950 GORK	29	1118	1118	5.5	10.0	3.6		
	650 GORK	29	1119.8	1119.8	4.9	3.0	1.8		
	237 TRST	5	1224.7	1224.7	.1	50.0	15.0		
	2800 OTTA	20	1230	1250	100	3.2	1.6	1	
	237 TRST	5	1249.5	1249.5	.1	50.0	20.0		
	408 SANM	45	1301.2	1302.4	2.2	30.0	7.0		
	408 SANM	3	1530.8	1531.2	1.6	17.0	6.0		
	930 BORD	5	1712	1712.2	1	12.0	1.0	1	
	7000 SAOP	22	1726.2		30.8	11.3			
	2700 PENN	1	1738.1	1738.4	1.9	3.4	1.4		
	9400 HUAN	2	1849	1849.3	2.9	9.1	4.3		
	408 SANM	42	1955	2000.5	6	13.0	20.5	1	
	410 SGMR	6	2024	2024.2	.8	23.7	4.7		
	245 SGMR	6	2024	2027.6	4	100.1	20.0		
	200 HIRA	6	2024	2024.3	.8	200.0	90.0		
	100 HIRA	6	2024	2024.3	1	190.0	60.0	1	
	200 HIRA	6	2027.5	2027.5	.5	140.0	60.0		
	100 HIRA	45	2027.5	2027.8	.7	300.0	100.0		
	200 HIRA	45	2257.5	2257.5	.5	1000.0	400.0		
	100 HIRA	6	2257.5	2257.8	.7	120.0	40.0	1	
	9500 BERL	20	0941	0942	39	5.5	4.2		
	9100 GORK	1	0941.3	0942.3	2.7	8.8	5.3		
	2950 GORK	41	0941.5	0942.4	5.5	11.0		1	
	2950 GORK		0941.5	0945.5		7.5			
	1490 BERL	22	0941.5	0942.3		3.0			
	1490 BERL		0941.5	0945.2		1.4			
	9100 GORK	1	0945	0945.4	1	5.8	2.6	1	
	536 ONDR	5	1215.5	1215.5	1	55.0			
	260 ONDR	45	1224.5	1228.5	5	90.0			
	9400 HUAN	20	1404.6	1415.3	15.9	9.5	6.8		
	2800 OTTA	20	1420	1530	140	2.8	1.4	1	
	9400 HUAN	20	1428.5	1429.2	10.9	7.6	2.3		
	9400 HUAN	20	1444.1	1446.3	5.6	9.5	4.8		
	9400 HUAN	22	1452.4	1453.1	8.2	11.4	4.2		
	7000 SAOP	32	1649.2		5.8	2.2		1	
	15400 SGMR	3	1655.6	1656.3	2.4	42.0	8.4		
	9400 HUAN	3	1655.2	1655.9	3.1	55.0	20.9		
	9400 SLOU	4	1655	1656.2	4.5	33.0			
	7000 SAOP	45	1655	1656.6	5	63.1	20.3	1	
	7000 SAOP	3	1655	1656.6	1.5U	63.1			
	2800 OTTA	3	1655.7	1656.5	4.3	45.0	15.0		
	1420 KIEL	6	1655	1657	5	25.0	15.0		
	930 BORD	45	1655	1658.5	8	48.0	6.0	1	
	245 SGMR	48	1655.7	1656.4	2.3	570.0	115.0		
	240 KIEL	5	1655	1657	3	7000.0	4000.0		
	237 TRST	42	1655.7	1656.4	2.2	4900.0			
	225 HARS	45	1655.5	1656.5	2	100.0	50.0	1	
	19000 SLOU	3	1656	1656.5	1.5	27.0			
	7000 SAOP	3	1656.6U	1656.8	3.5U	51.8			
	4995 CANR	3	1656	1657	3				
	2695 CANR	3	1656.5	1657.5	3.5			1	
	1415 SGMR	3	1656.2	1657	3.8	19.1	3.8		
	606 SGMR	40	1656.2	1658.5	7	19.6	3.9		
	420 KIEL	5	1656	1656	4	25.0	15.0		
	410 SGMR	6	1656	1656.4	2	15.8U	3.2U	1	
	420 KIEL	5	1656	1656	4	25.0	15.0		
	1420 CANR	3	1657	1658	3				
	2800 OTTA	29	1700		80	2.6	2.0		
	9400 HUAN	22	1730.9	1732.4	17.2	11.4	4.8	1	
	9400 HUAN	20	1754.5	1755.2	6.9	13.3	6.2		
	9400 HUAN	20	1814.1	1815.8	8.8	7.6	3.7		
	9400 HUAN	20	1833.1	1834.7	5.3	7.6	2.9		
	9400 HUAN	20	1840.2	1840.4	5.1	11.4	5.3	1	
	9400 HUAN	20	1852.4	1852.7	6.3	9.5	4.1		
	9400 HUAN	20	1918.2	1919.4	6.4	9.5	0.9		
	9400 HUAN	20	1942.9	1944.2	6.8	11.4	5.9		
	10700 PENN	40	2124		66			1	
	2800 OTTA	21	2200	2210	145	2.6	1.8		
	2700 PENN	40	2200		40 D				
	960 PENN	40	2200		15 D				
	9400 TYKW	45	2201	2203.4	11	21.0	8.0	1	
	2800 OTTA	1	2202.5	2203	2	4.4	2.2		
	2000 TYKW	45	2202.5	2206.8	5	6.0	2.0		
	1415 SGMR	2	2202.6	2202.8	4.9	7.8	1.6		
	410 SGMR	6	2202.8	2203.5	1.8	7.2	1.3	1	
	1000 TYKW	45	2203.5	2203.8	4	18.0	2.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

APRIL 1971

APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
23	245 SGMR	6	2203.2	2204.9	3	18.5	3.7		
	2800 OTTA	2	2205.5	2206	2.5	3.8	2.0		
	606 SGMR	4	2205.8	2205.9	.5	13.7	2.7		
	606 MANI	3	0129.6	0130.8	3.1	12.9	4.8		
	200 HIRA	6	0254	0254.2	1	80.0	20.0		
	237 TRST	45	0709.3	0709.9	.7	35.0	10.0		
	200 HIRA	6	0709.5	0710	1	70.0	20.0		
	200 GORK	41	0709.4	0709.9	.8	80.0			
	100 HIRA	6	0709.5	0709.8	1	190.0	50.0		
	100 GORK	6	0709.4		1.2	300.0			
	9400 TYKW	5	0724	0726.5	6	24.0	6.0		
	3750 TYKW	5	0724	0726.5	5	6.0	2.0		
	9100 GORK	4	0725.6	0726.6	4.4	31.0			
	2950 GORK	1	0725.2	0726.8	2.8	6.2	2.6		
	237 TRST	5	0823.2	0823.3	.1	40.0	10.0		
	237 TRST	41	0856.6	0857.2	1.2	90.0			
	225 HARS	45	0856.5	0857	1.5	35.0	15.0		
	200 HIRA	6	0856.5	0857	2	130.0	10.0		
	237 TRST	5	0916.3	0916.3	.1	40.0	15.0		
	237 TRST	41	0931.4	0931.5	.3	20.0			
	1490 BERL	20	1107	1110.6	13	4.7			
	408 TRST	41	1109.9	1110	.5	15.0			
	237 TRST	41	1109.9	1110	.4	28.0			
	260 ONDR	45	1122	1123	4	80.0			
	237 TRST	41	1122.3	1122.6	2	190.0			
	200 GORK	6	1122.5	1122.8	.5	100.0	50.0		
	100 GORK	6	1122.7	1122.7	.2	100.0	50.0		
	2800 OTTA	20	1200	1515	460	5.2	3.0		
	237 TRST	45	1404.9	1405.1	.6	310.0	100.0		
	225 HARS	5	1404.5	1405	1	35.0	15.0		
	234 POTS	45	1405.1	1405.3	.4	150.0	25.0		
	237 TRST	42	1448	1448.4	2.3	110.0			
	9400 HUAN	20	1534.8	1538.4	23.8	9.1	2.3		
	7000 SAOP	20	1643.7		40.2	8.9			
	3750 TYKW	5	2245	2247.5	85	5.0	2.0		
	9400 TYKW	5	2247	2252	75	10.0	4.0		
24	2700 PENN	8	1133.9	1134	.1	198.0		3	
	9400 HUAN	20	1310.3	1311.1	7.4	7.8	3.0		
	184 BOUL	43	1406		671 D				
	2800 OTTA	20	1425	1705	260	3.8	1.9		
	408 SANM	45	1645.4	1646	1	52.0	17.5		
	245 SGMR	43	1819.5		310.5D				
	410 SGMR	43	1905.5		264.5D				
	100 GORK	44	0411		49		5.0		
	2950 GORK	1	0422	0423.2	1.1	8.6	4.3		
	650 GORK	2	0422.9	0423.1	2.9	4.0	1.3		
25	950 GORK	1	0423	0423.2	2.9	4.6		2 3	
	9100 GORK	1	0440.9	0441.3	2.8	22.0	10.0		
	650 GORK	1	0538	0538.5	5.7	2.1	1.3		
	1490 BERL	20	1141 E	1141		1.2			
	2800 OTTA	20	1145	1150	225	2.2	1.1		
	184 BOUL	44	1207 E	0126	799 D				
	184 BOUL	41	1414	1443	49				
	9400 HUAN	20	1813	1813.9	10.2	9.3	3.3		
	2800 OTTA	1	1814.3	1814.7	1	2.4	1.2		
	2700 PENN	1	1814.4	1814.6	2.6	4.1	1.0		
	960 PENN	8	1814.4	1814.4	.4	26.2			
	9400 HUAN	20	1825.8	1826.1	7.5	9.3	4.5		
	9400 HUAN	20	1837.7	1839.2	10.9	5.6	3.3		
	4995 SGMR	1	1852.9	1853.3	.7	1.1	.5		
	2800 OTTA	1	1852.9	1853	1	3.4	1.7		
	2700 PENN	1	1852.9	1853.1	5.1	8.4	3.4		
	2695 SGMR	1	1852.9	1853.3	4.8	4.1	1.4		
	1415 SGMR	1	1853.1	1853.5	9.5	1.8	.5		
26	200 GORK	44	0400 E		540 D		5.0	1	
	184 BOUL	44	1207 E		793 D				
	500 HIRA	6	0530.1	0531	1	110.0	70.0		
	536 ONDR	5	1111	1111	1.5	70.0			
	260 ONDR	5	1111	1111	.5	75.0			
	536 ONDR	5	1430.5	1430.5	2	80.0			
	18 MCMA	42	1601	1603	29				
	9400 HUAN	20	1652	1652.5	6.5	13.0	3.7		
	18 MCMA	41	1728	1732	7				
	18 BOUL	41	1728	1732	13				
	9400 HUAN	20	1734.4	1735.8	6	7.5	3.5		
	18 BOUL	42	1754	1757	9				
	18 MCMA	41	1756	1757	5				
	184 BOUL	41	1939	1944	14				
	184 BOUL	41	1953	2001	17				
	184 BOUL	41	2028	2034	10				
27	100 GORK	44	0534		119		5.0	2	
	100 GORK	6	0710.1	0710.5	.7	450.0	200.0		
	260 ONDR	5	1043		.5	70.0			
	536 ONDR	5	1141.5	1141.5	.5	75.0			
	184 BOUL	44	1208 E		794 D				

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

APRIL 1971

APR 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION MINUTES	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT		PEAK	MEAN		
28	930 BORD	41	1303	1305.5	3	10.0	2.0		
	536 ONDR	5	1342.5	1342.5	4.5	80.0			
	9400 HUAN	20	1428.8	1429.2	4.9	7.4	2.1		
	9400 HUAN	22	1437.8	1438.7	5.9	9.2	4.1		
	9400 HUAN	21	1524	1524.8	7.4	12.9	4.3		
	9400 HUAN	20	1626.4	1626.6	7.2	14.8	5.7		
	9400 HUAN	20	1642.2	1643.2	5	9.2	3.7		
	9400 HUAN	20	1649.1	1652.9	8.1	7.4	2.4		
	3750 TYKW	5	2340.5	2341.3	2.5	3.0	1.0		
	2000 TYKW	5	2340.5	2341.3	2	2.0	1.0		
	1000 TYKW	5	2341	2341.3	1	5.0	1.0		
	3750 TYKW	5	0300	0300.7	2	6.0	2.0		
	2000 TYKW	5	0300	0300.7	3	3.0	1.0		
	3750 TYKW	29	0302		30	2.0	1.0		
	100 GORK	41	0608	0609.7	2.8	60.0			
	9400 HUAN	20	1313.7	1314.3	4.7	11.2	5.6		
	9400 HUAN	22	2016	2016.4	15.4	11.2	4.9		
	9400 HUAN	22	2102	2107.6	10.8	9.3	2.2		
	245 SGMR	6	1329.6	1329.7	.4	60.0	12.0		
	237 TRST	45	1329.7	1329.8	.2	200.0	50.0		
	234 POTS	45	1329.7	1329.8	.2	300.0	75.0		
	113 POTS	45	1329.7	1329.8	.2	600.0	120.0		
	23 POTS	45	1329.8	1329.9	.6	5000.0	500.0		
	536 ONDR	5	1343	1343	1	65.0			
	9400 TYKW	5	0042.5	0043.1	2.5	11.0	3.0		
	9400 TYKW	5	0323	0323.1	4	16.0	2.0		
	200 HIRA	6	0349.5	0349.5	1	140.0	30.0		
	2700 PENN	8	1518.7	1518.8	.2	4.3			
	960 PENN	8	1518.8	1518.8	.1	2.2			
	9400 HUAN	20	1557.5	1601.5	33.9	7.0	5.2		
	9400 HUAN	20	1820.3	1823	9	9.3	4.2		

Observatories:

BERL = Berlin-Adlershof	CRON = Carnarvon	KIEL = Kiel	OTTA = Ottawa ARO	SGMR = Sagamore Hill
BERN = Berne	GORK = Gorky		PENN = Penn. State Univ.	TOKO = Tokyo
BORD = Bordeaux	HARS = Harestua		PENT = Penticton	TRST = Trieste
BOUL = Boulder	HIRA = Hiraiso	MANI = Manila	POTS = Potsdam	TYKW = Toyokawa
CANR = Canary Islands	HUAN = Huancayo	MCMA = McMath-Hulbert	SANM = San Miguel	UCCL = Uccle
		ONDR = Ondrejov	SLOU = Slough	

Explanation of Type Code:

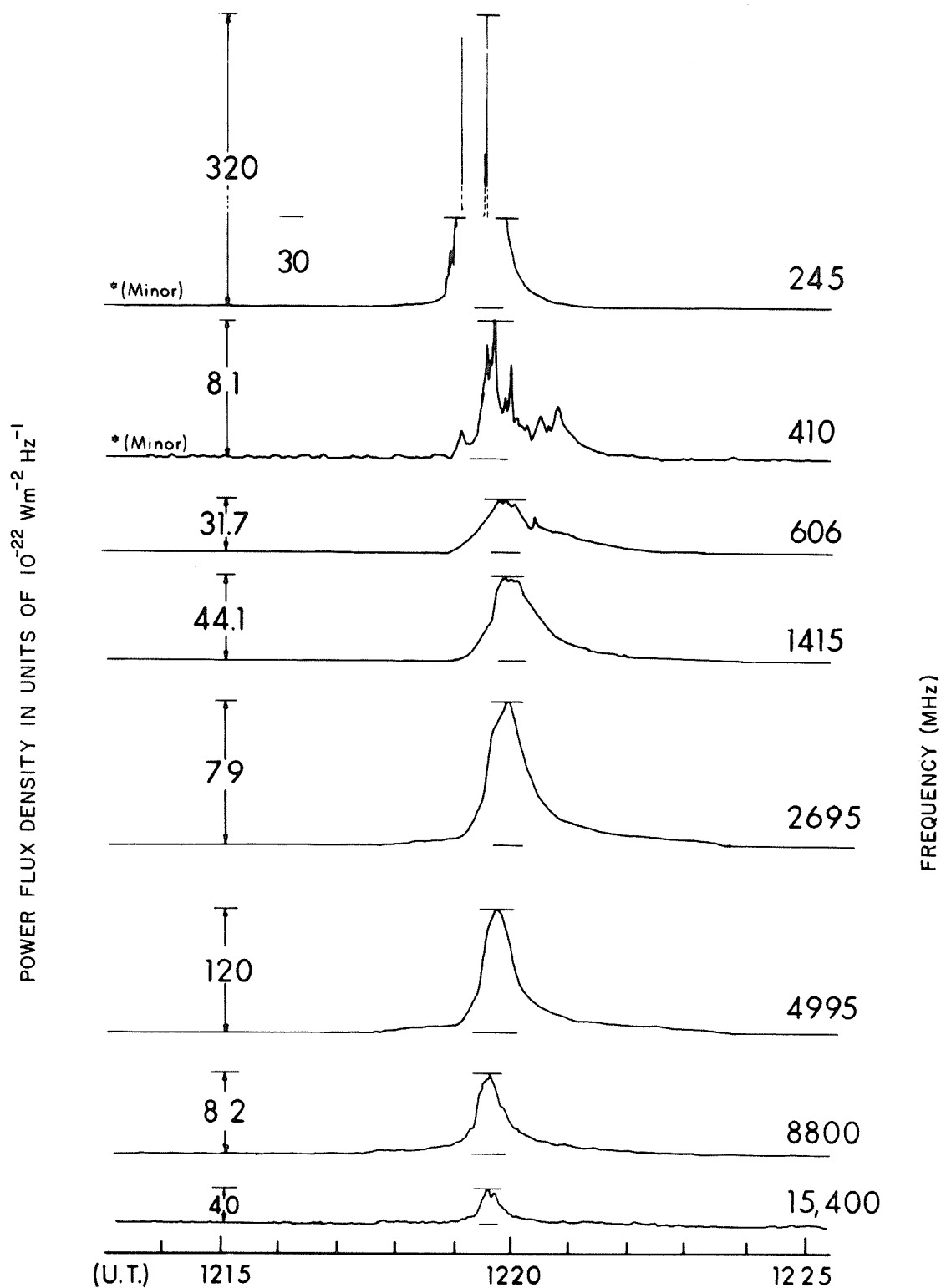
1 Simple 1	6 Minor	22 Simple 3F	27 Rise and Fall	32 Absorption	44 Noise Storm in Progress
2 Simple 1F	7 Minor +	23 Simple 3AF	28 Precursor	40 Fluctuation	45 Complex
3 Simple 2	8 Spike	24 Rise	29 Post Burst Increase	41 Group of Bursts	46 Complex F
4 Simple 2F	20 Simple 3	25 Rise A	30 Post Burst Increase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

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 ($10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$), 2 = 100-1000 fu and 3 = >1000 fu.

Note: Daily flux and burst flux values observed at AFCRL Sagamore Hill for the period 1 November 1970 to 31 August 1971 inclusive should be multiplied by the following correction factors: 1.14 for 8800 MHz and 0.845 for 4995 MHz.

SELECTED SOLAR NOISE BURST

20 APRIL 1971



SIMPLE 2 AND 2F RADIO BURST OBSERVED 20 APRIL, 1971 AT SAGAMORE HILL
RADIO OBSERVATORY HAMILTON, MASS.

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

APRIL 1971

University of Iowa

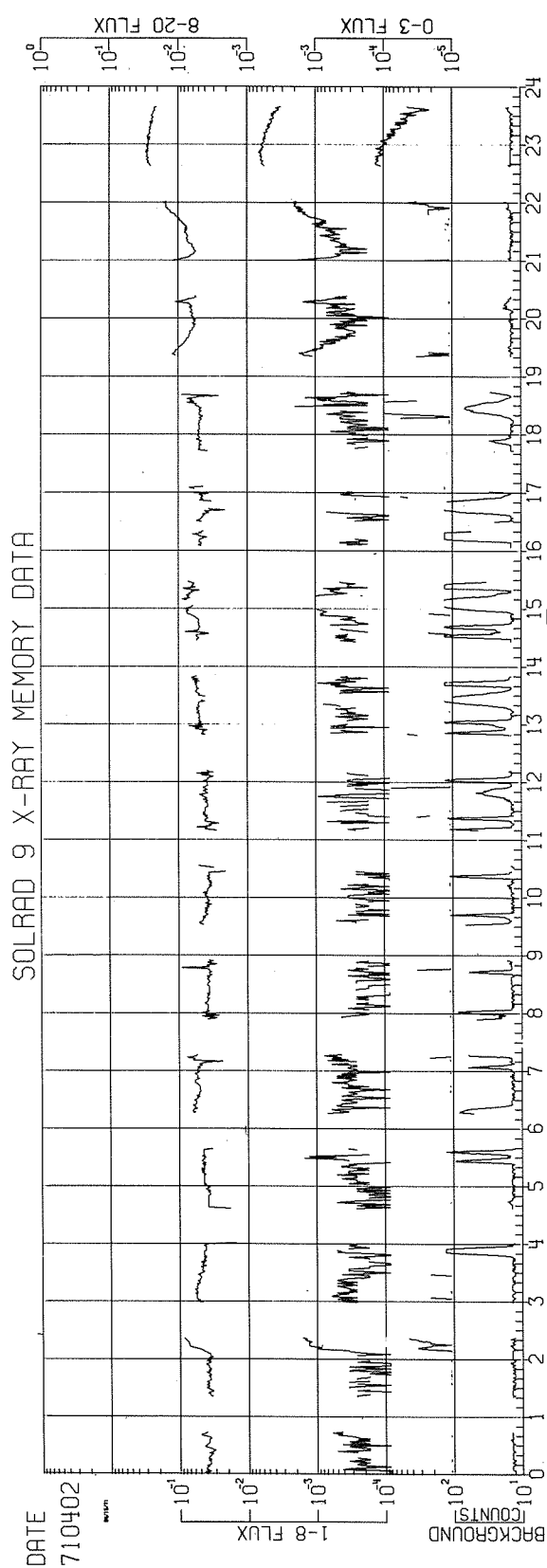
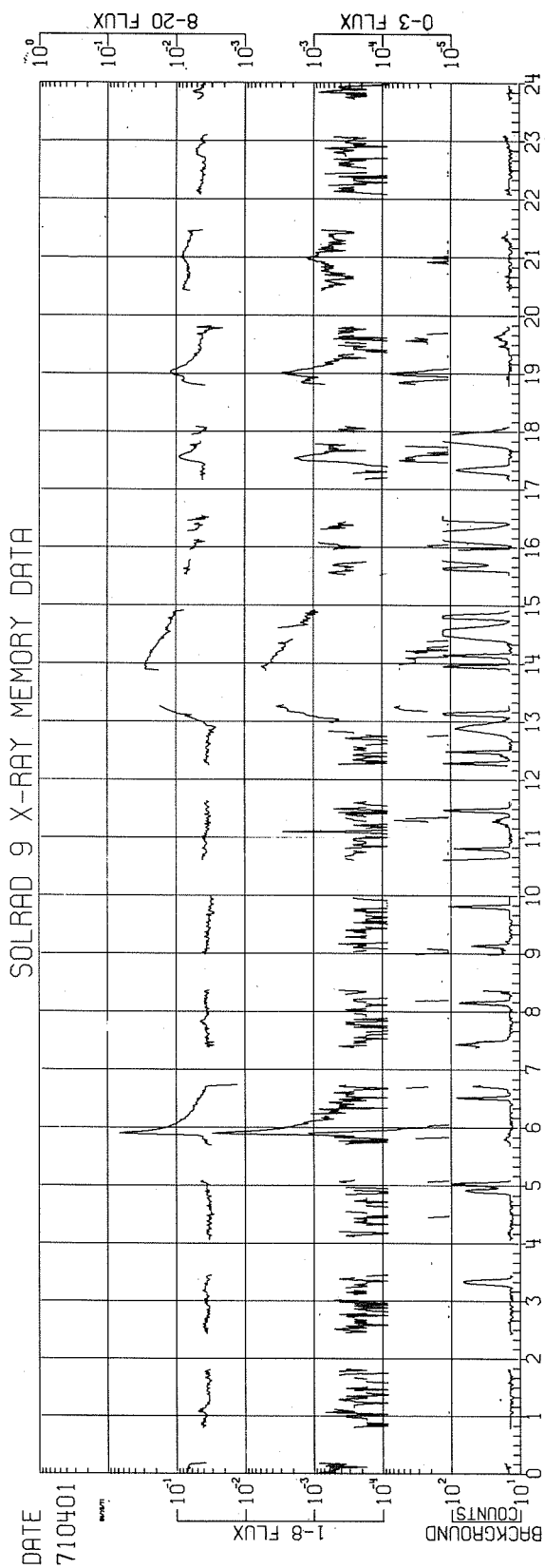
Date 1971	Onset U.T.	Maximum U.T.	Peak-Ratio to Quiet Sun	Remarks and Values of Maximum Flux F(2-12 Å) in erg (cm ² sec) ⁻¹
1 April	0551 1258	0553 1343	30 10	Rapid rise, rapid decline Slow rise, slow decline Particle emitting flare
2 April	0206 2112	0227 2255	4- 7	Slow rise, slow decline
3 April	0922	0926	4	
4 April	0426 0734	0434 0755	4- 9	Rapid rise, slow decline
5 April	0346	0351	4	
6 April	0218 0933 1853	0228 0955 1908	4- 35 4	0.027 Particle emitting flare
7 April	1414	1428	4-	
8 April	0326	0345	4	
11 April	0431	0449	4-	
13 April	1313	1349	4	
14 April	2246	2355	4-	
16 April	0741	0746	8	
20 April	0058 < 0414 0510 0857 1927	0117 0423 0524 0911 1945	16 5 75 6 11	0.027 Onset not observed 0.127 Particle emitting flare

Notes:

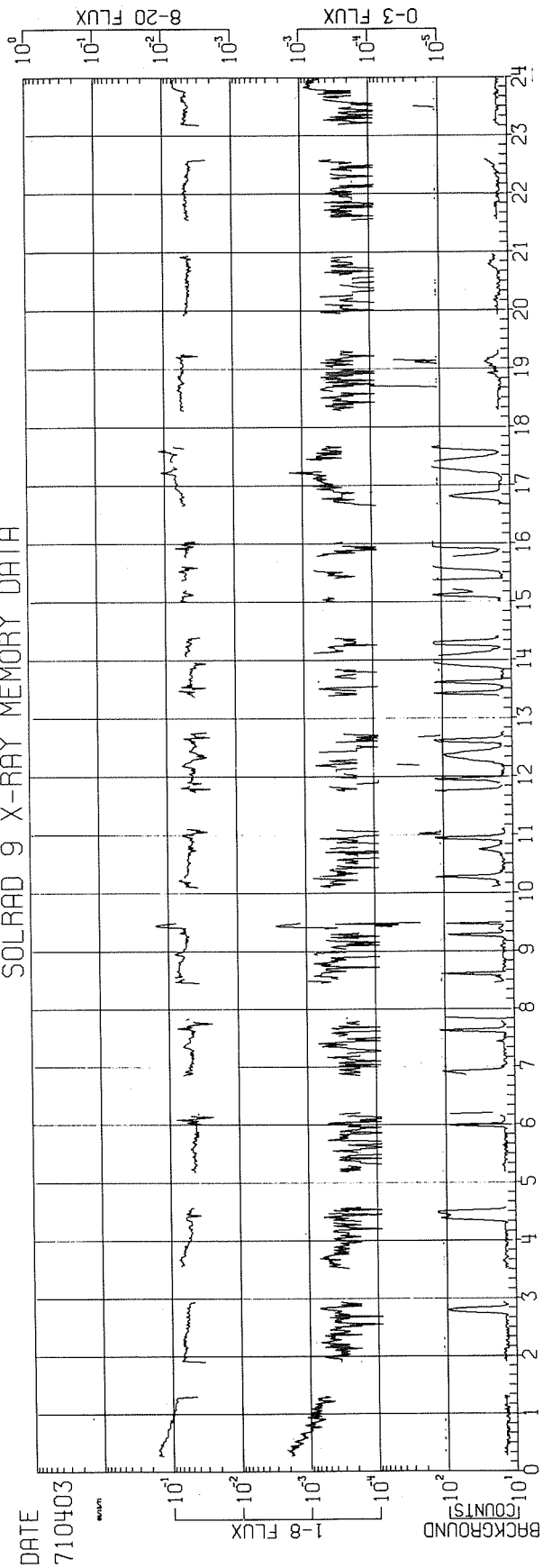
- (1) Coverage 1 - 20 April 95%
21 - 30 April 42%
- (2) Quiet sun (background) intensity varies from 0.0004 to 0.0018 erg (cm² sec)⁻¹ during the month.

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

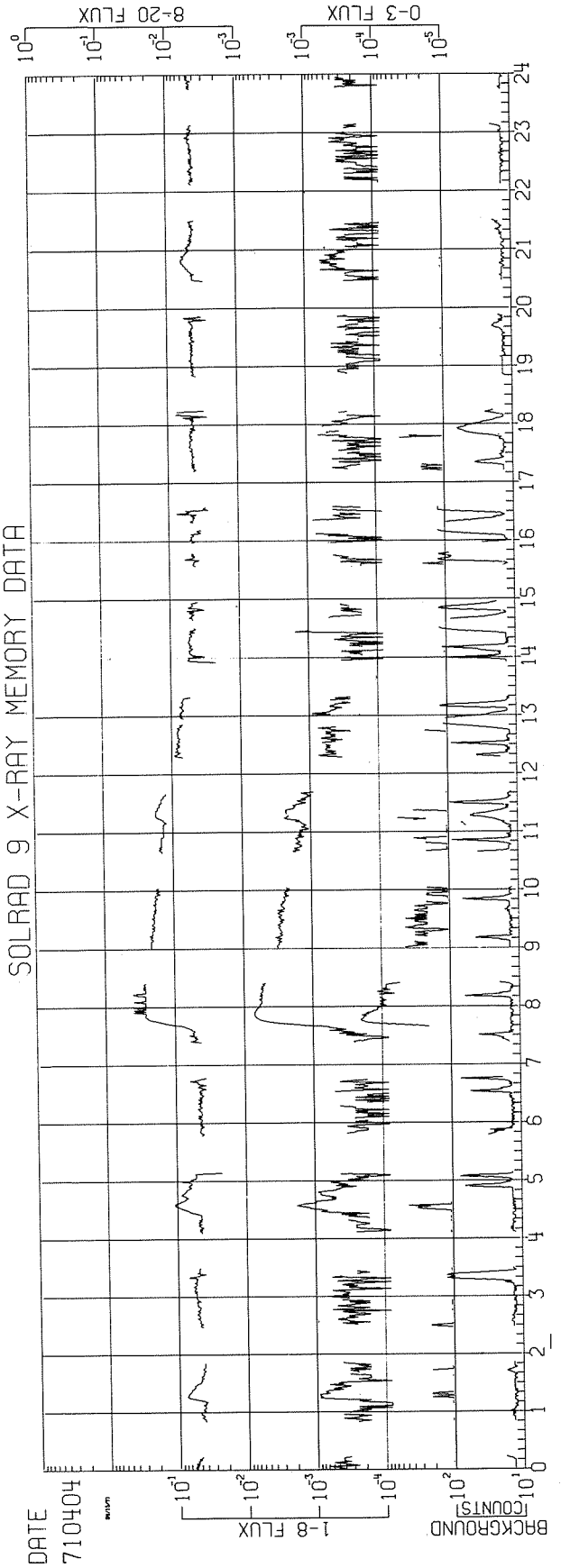
APRIL 1971



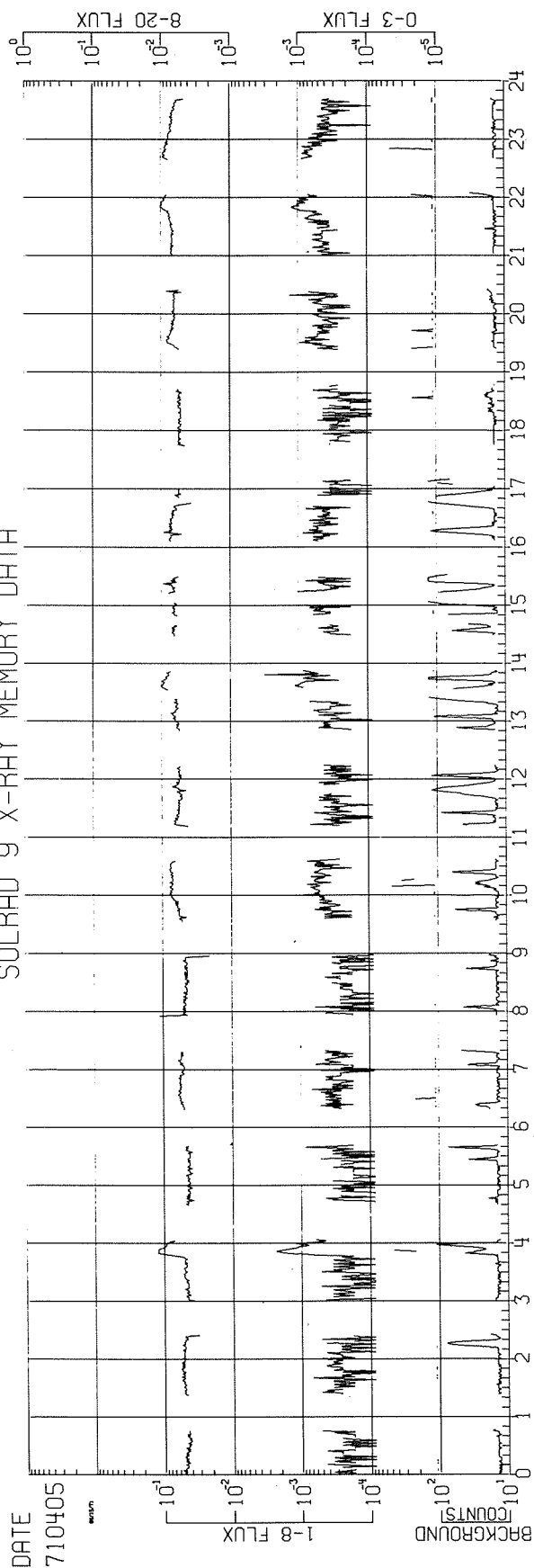
SOLRAD 9 X-RAY MEMORY DATA



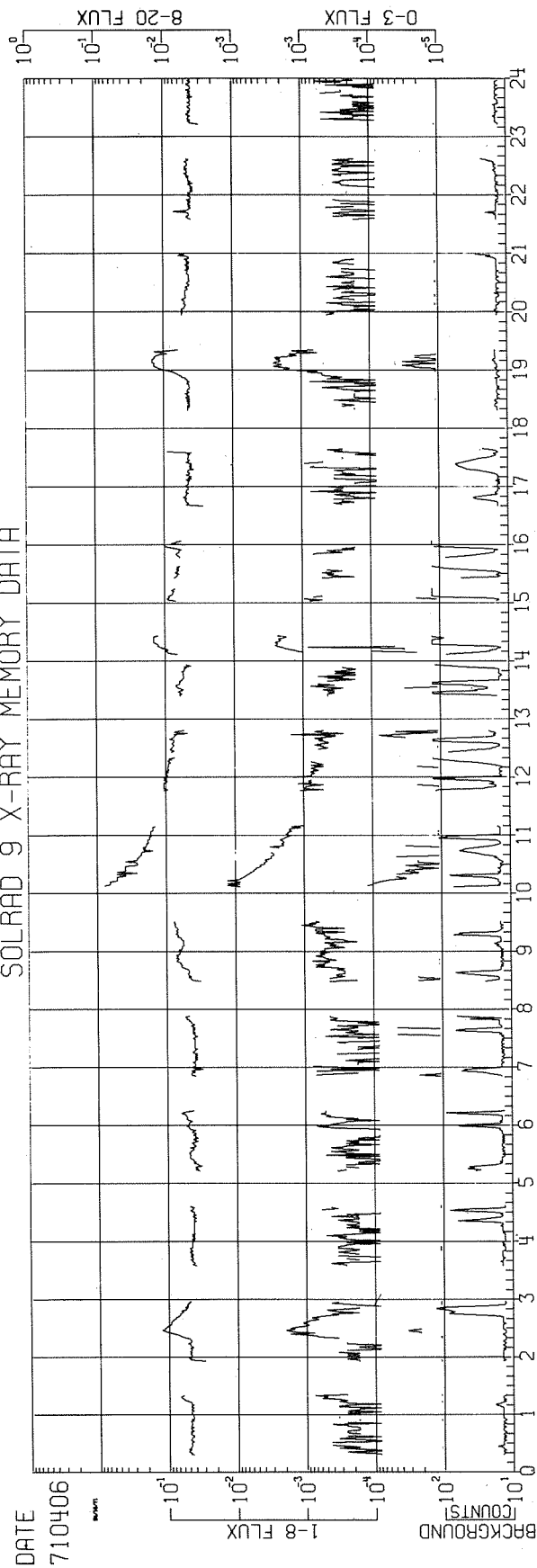
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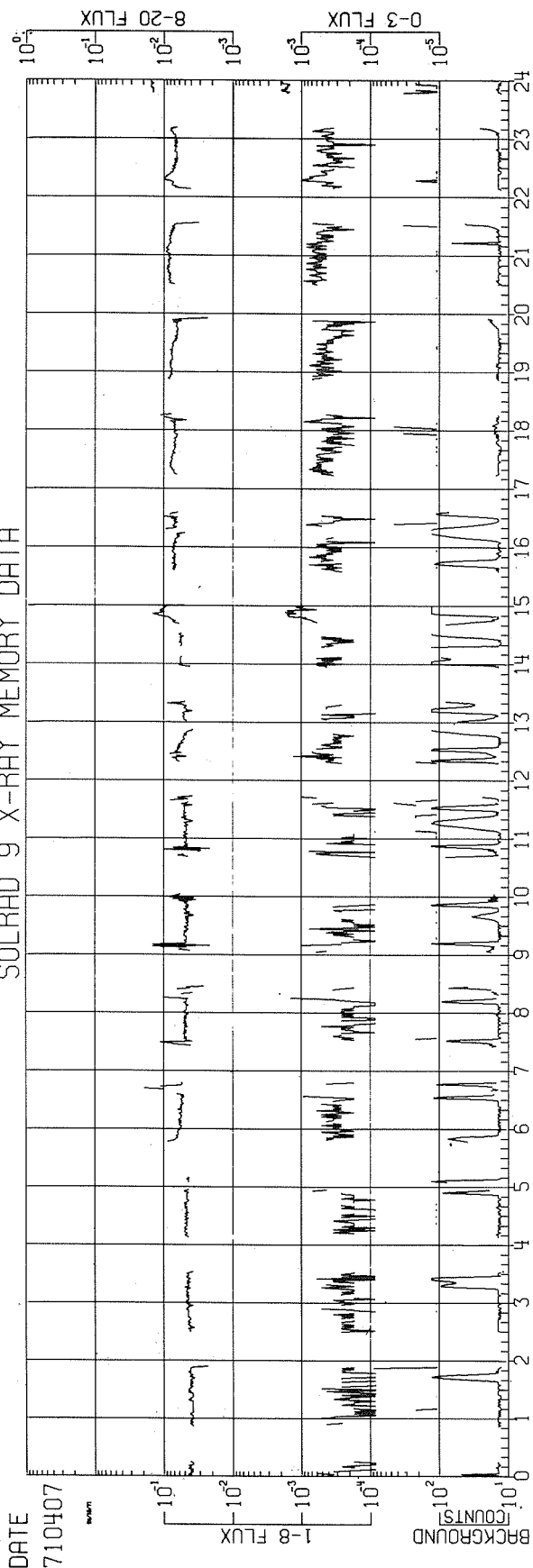
SOLRAD 9 X-RAY MEMORY DATA



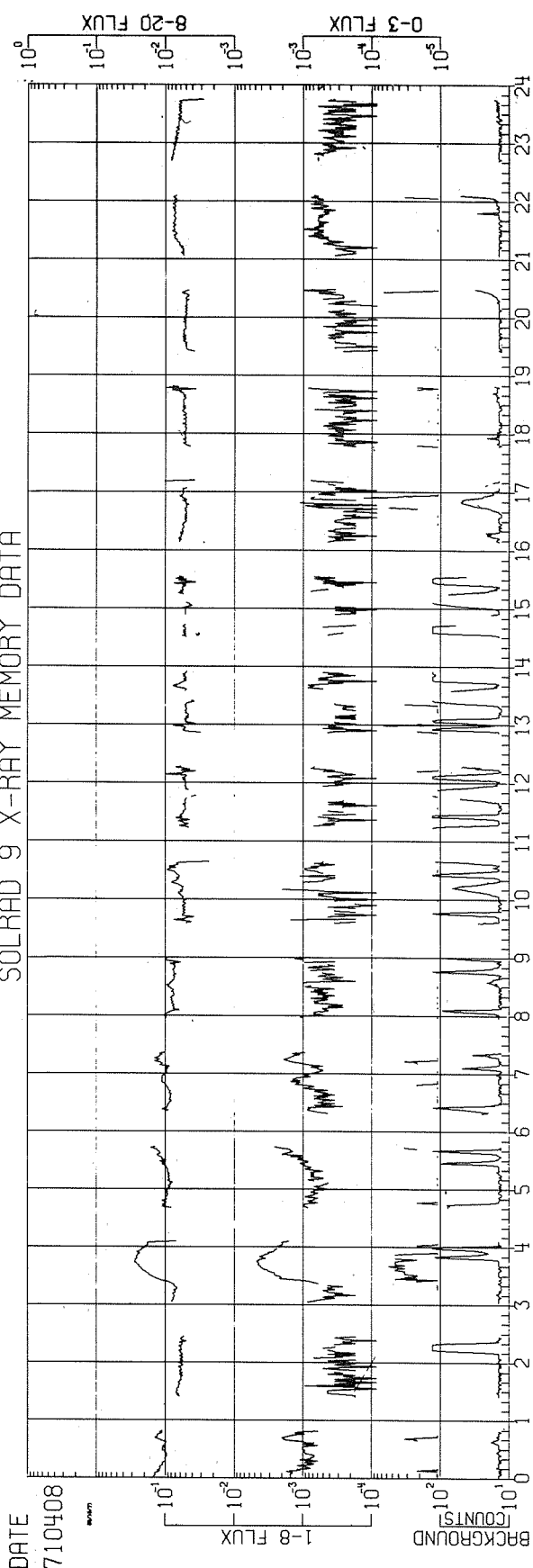
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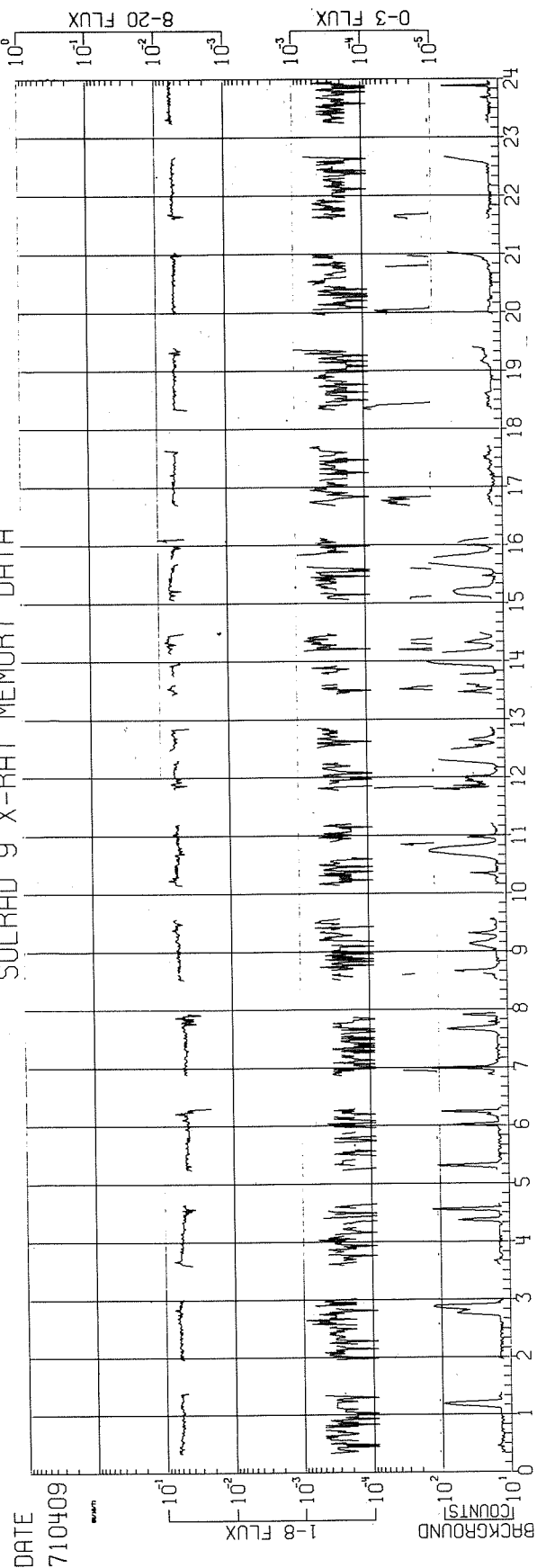
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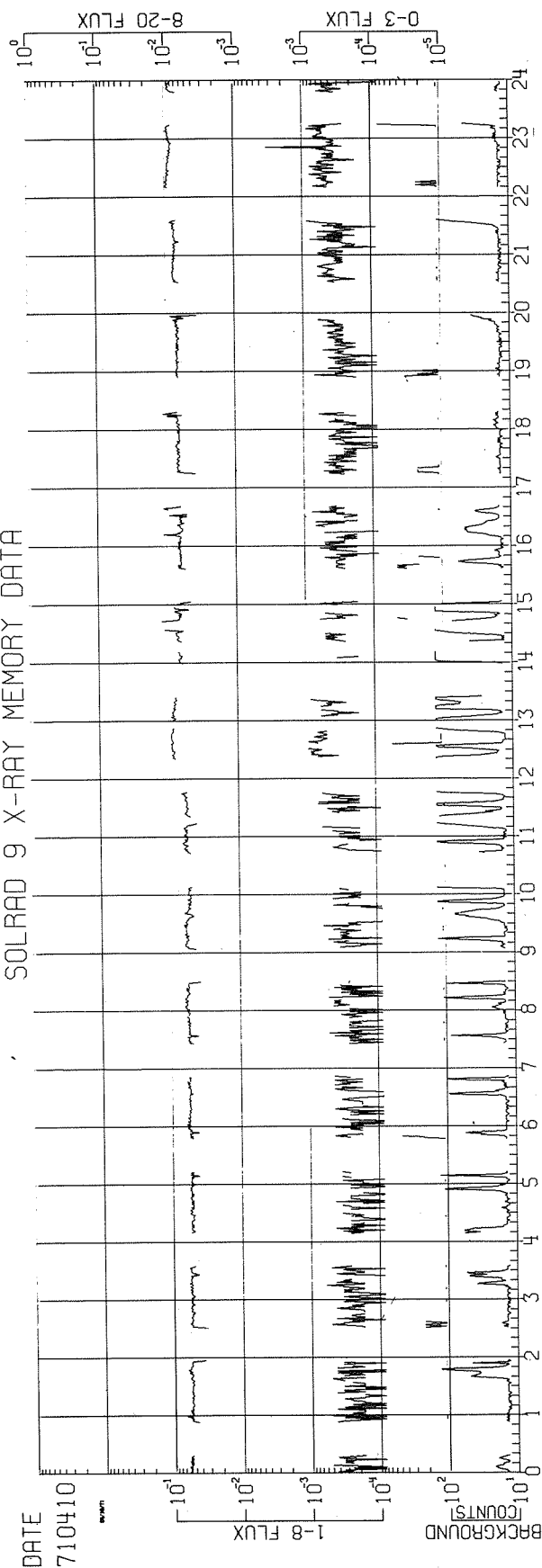
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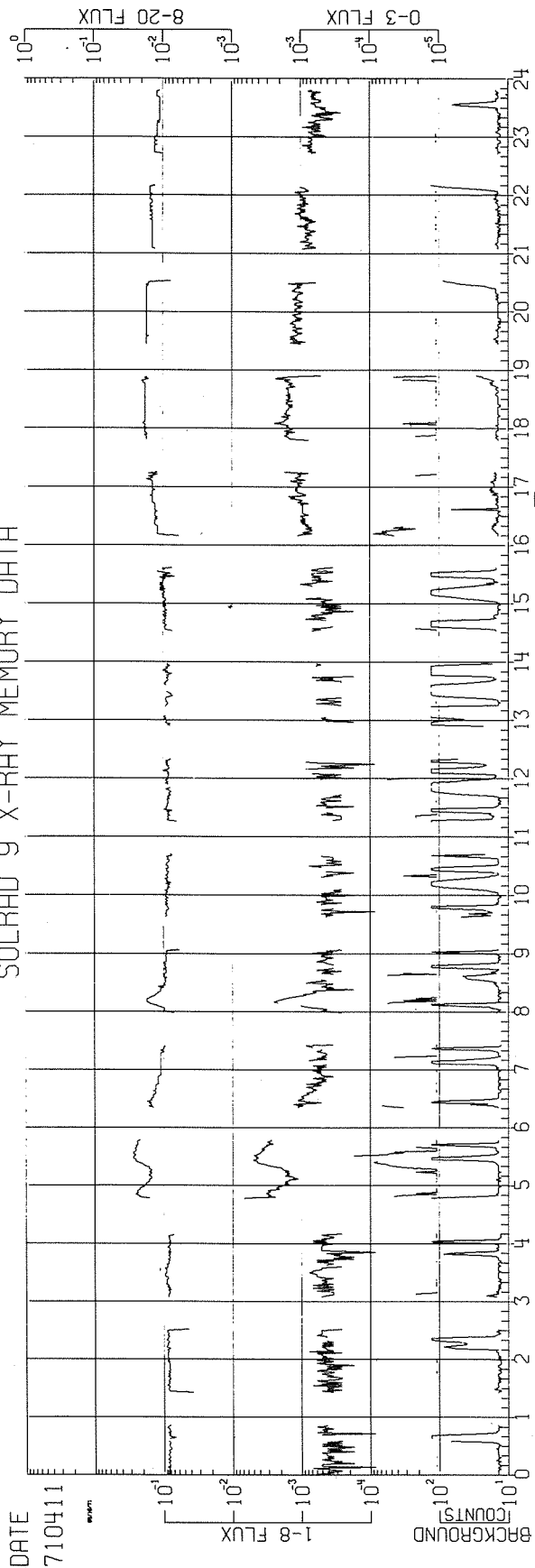
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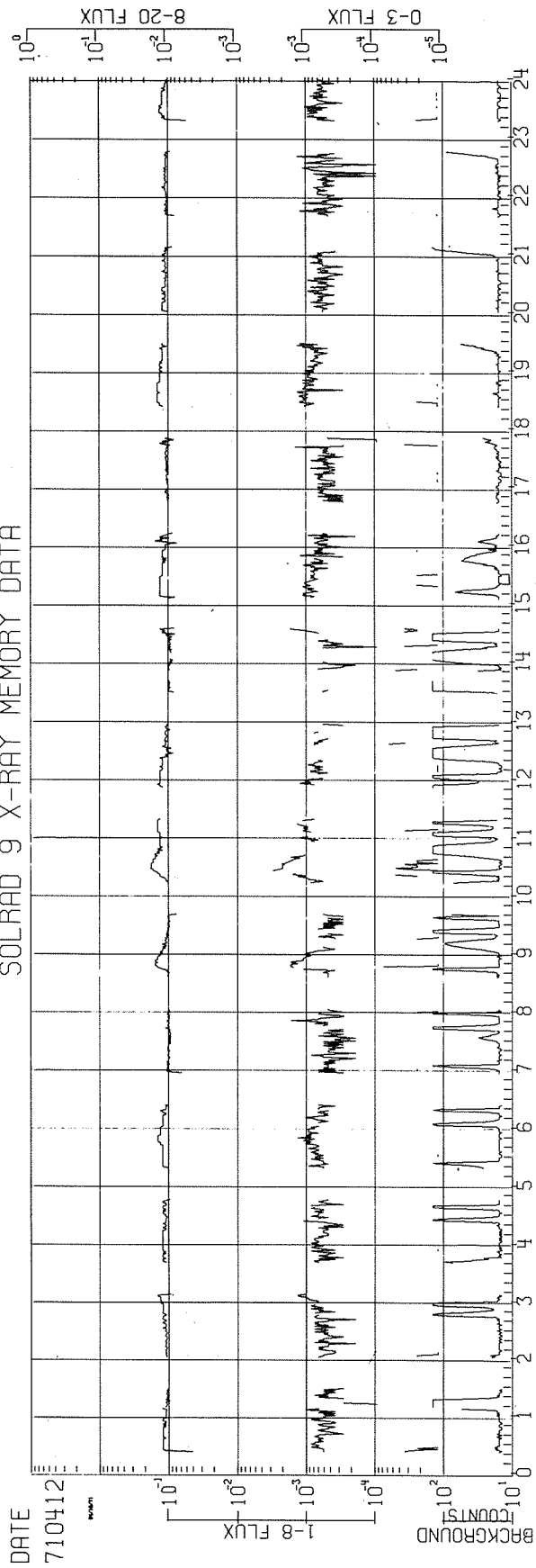
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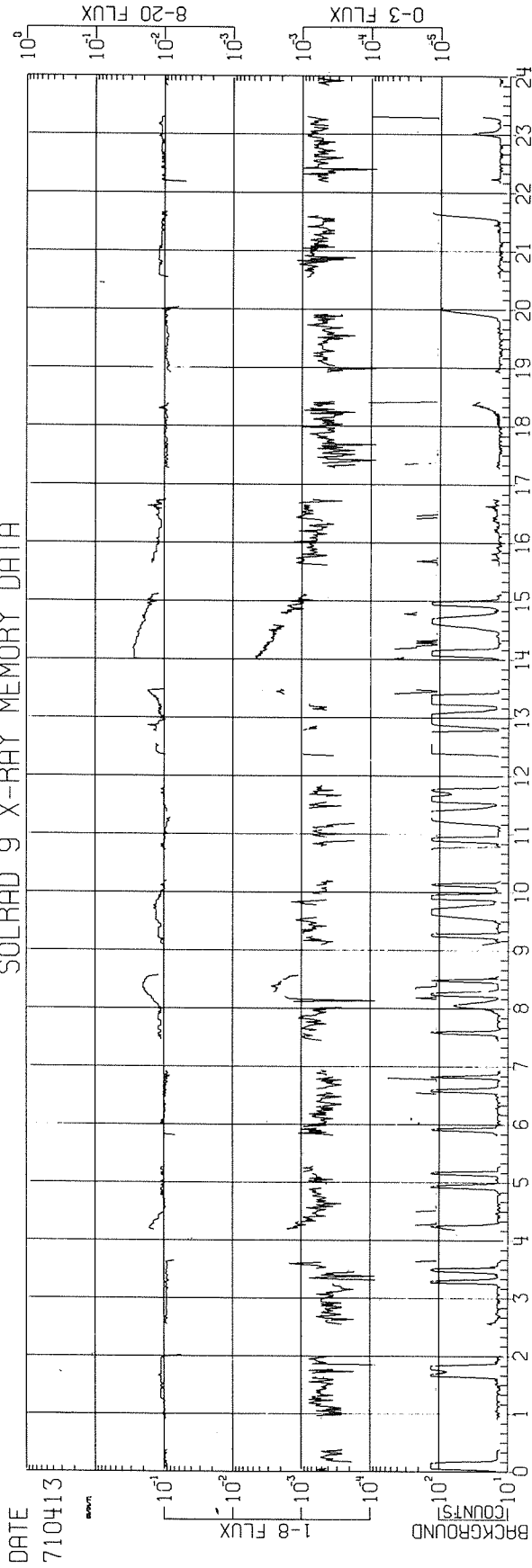
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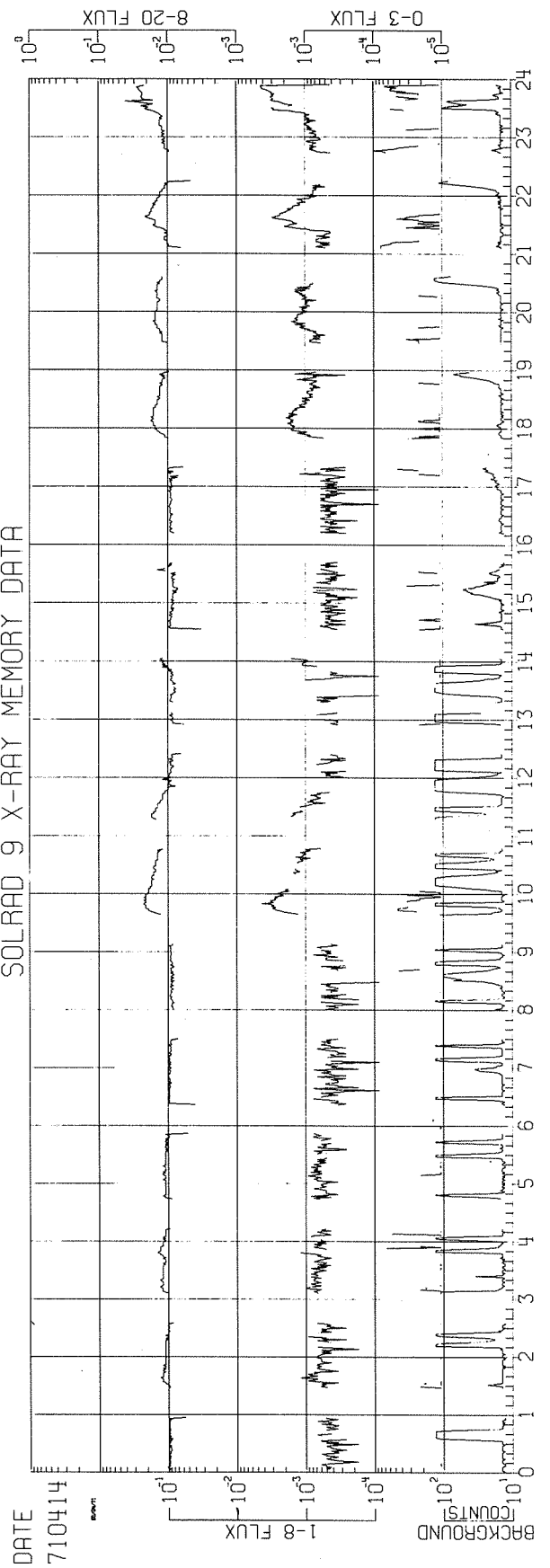
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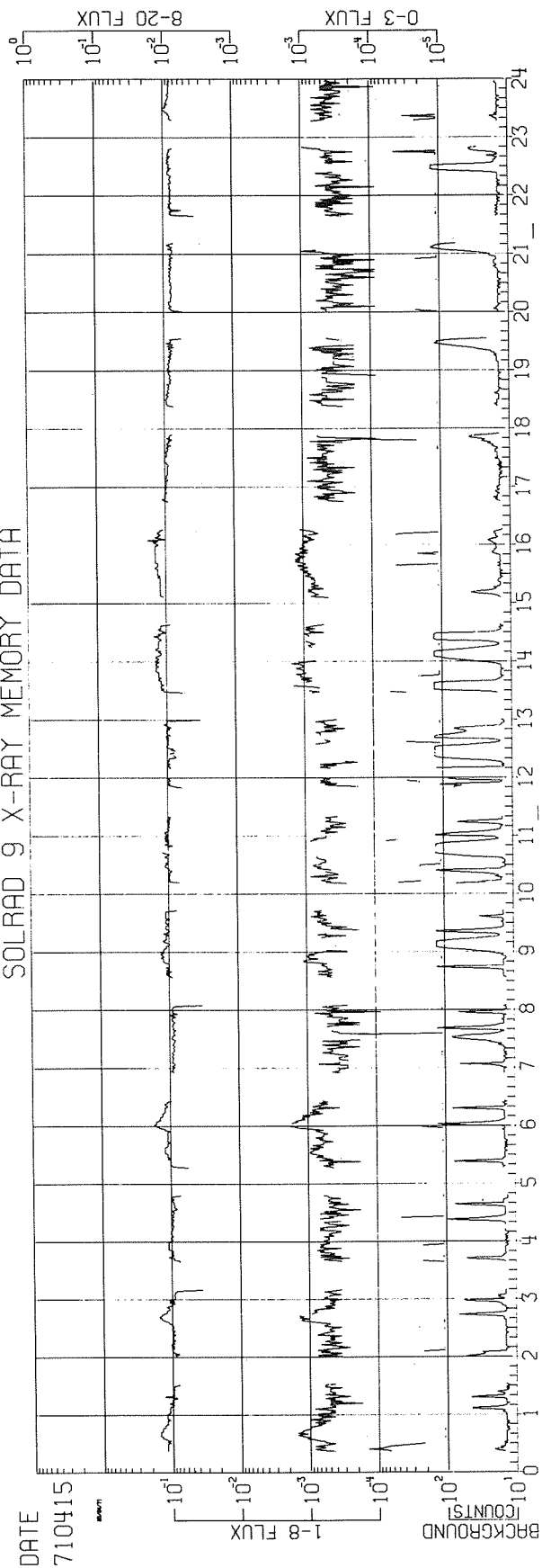
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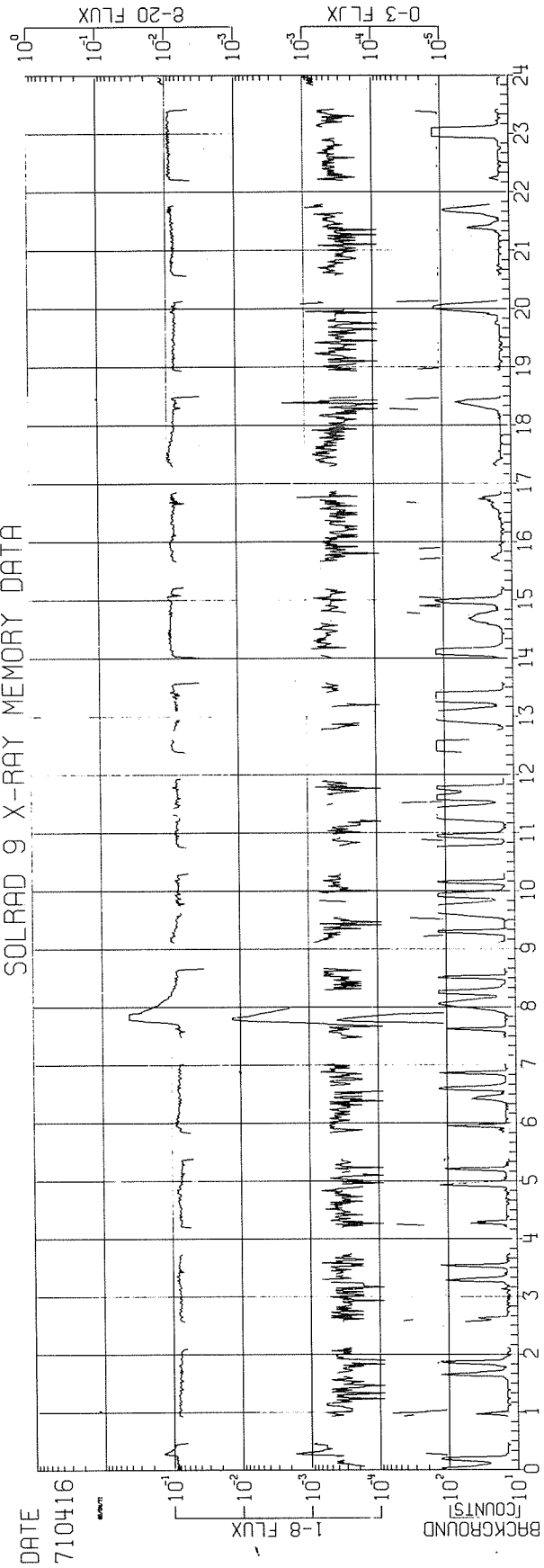
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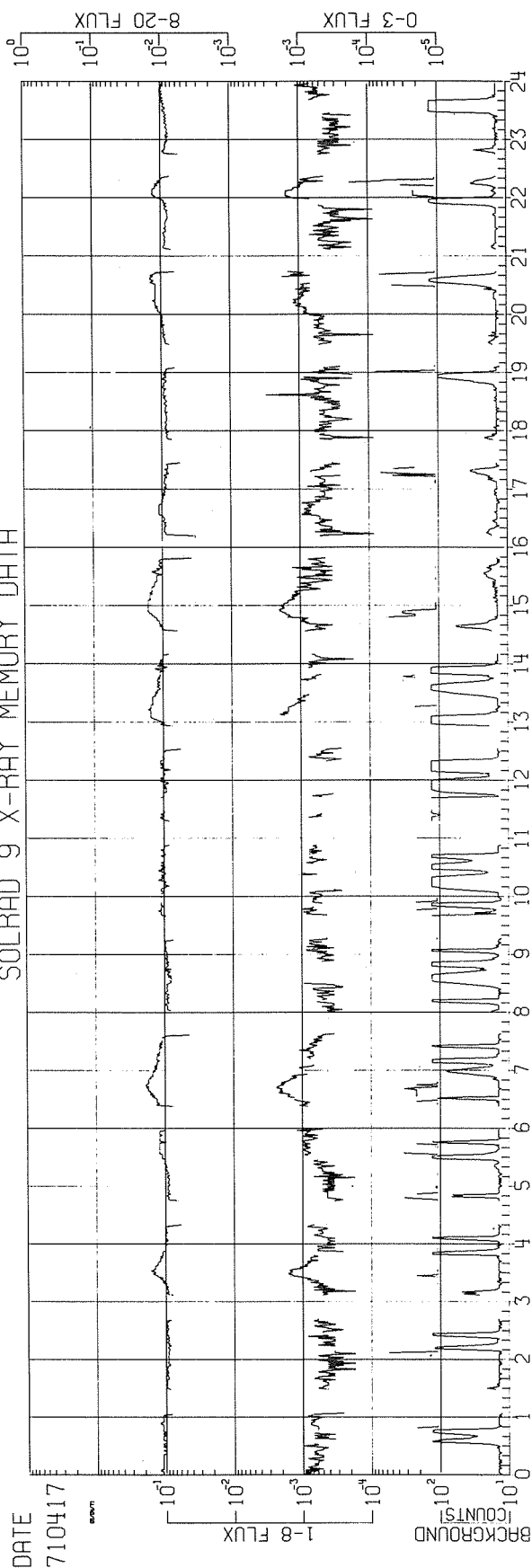
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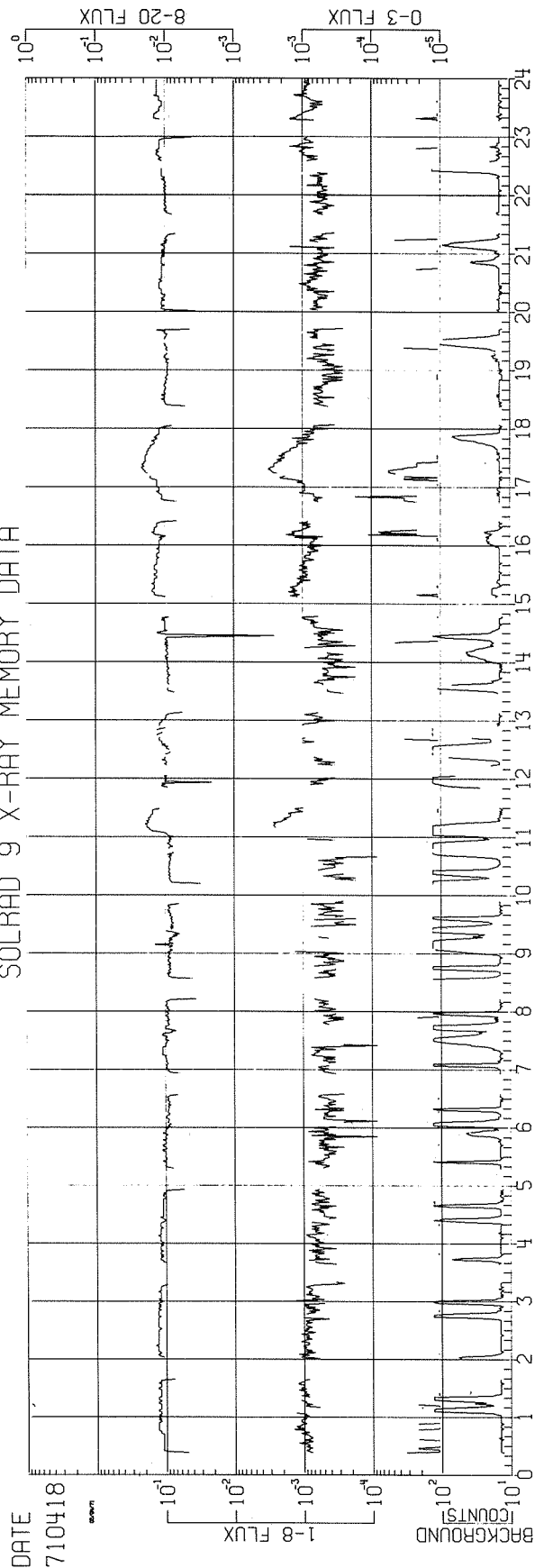
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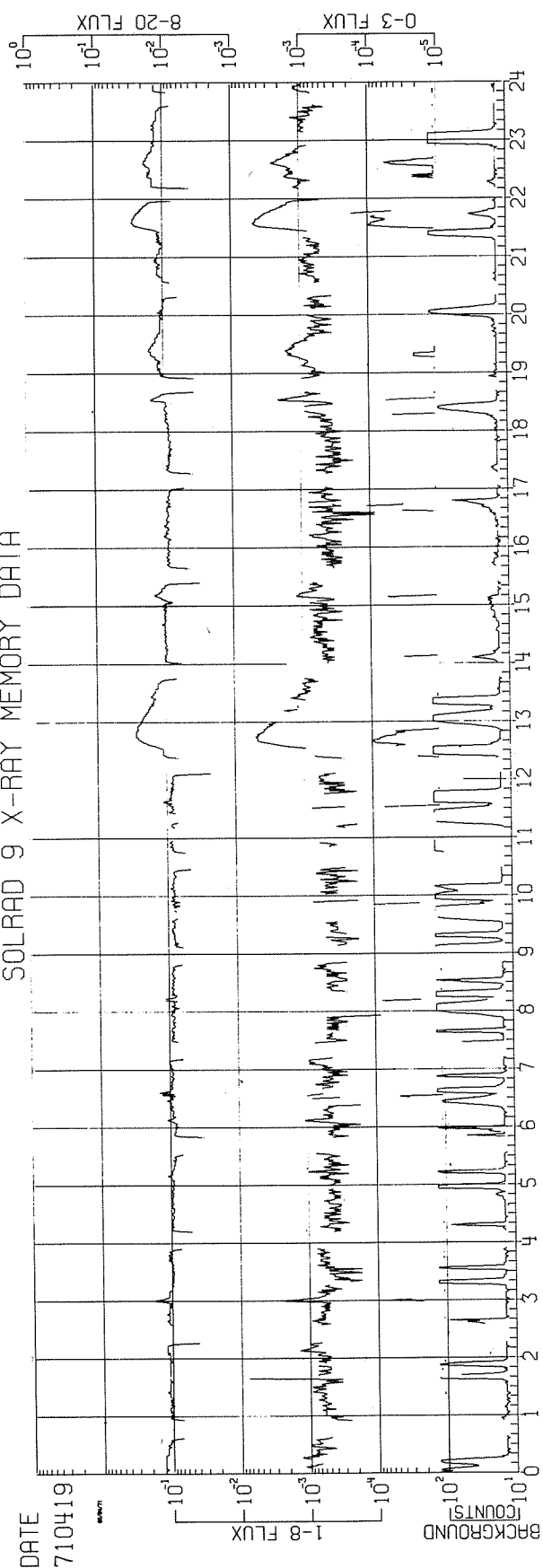
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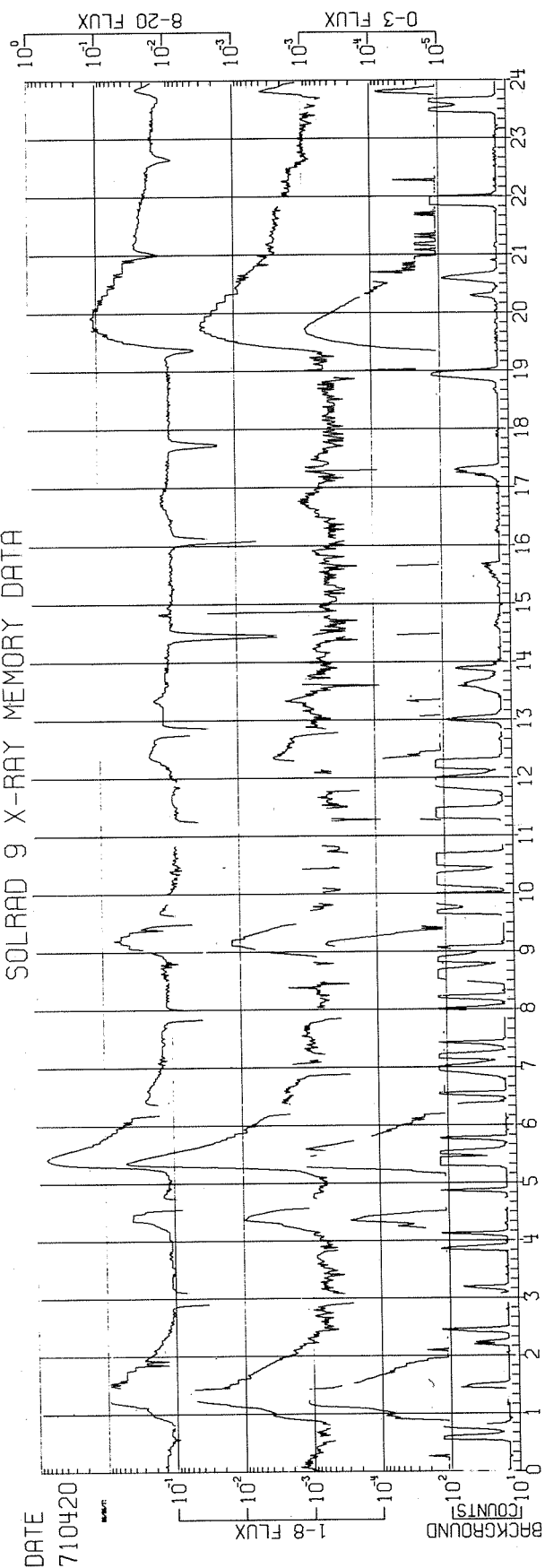
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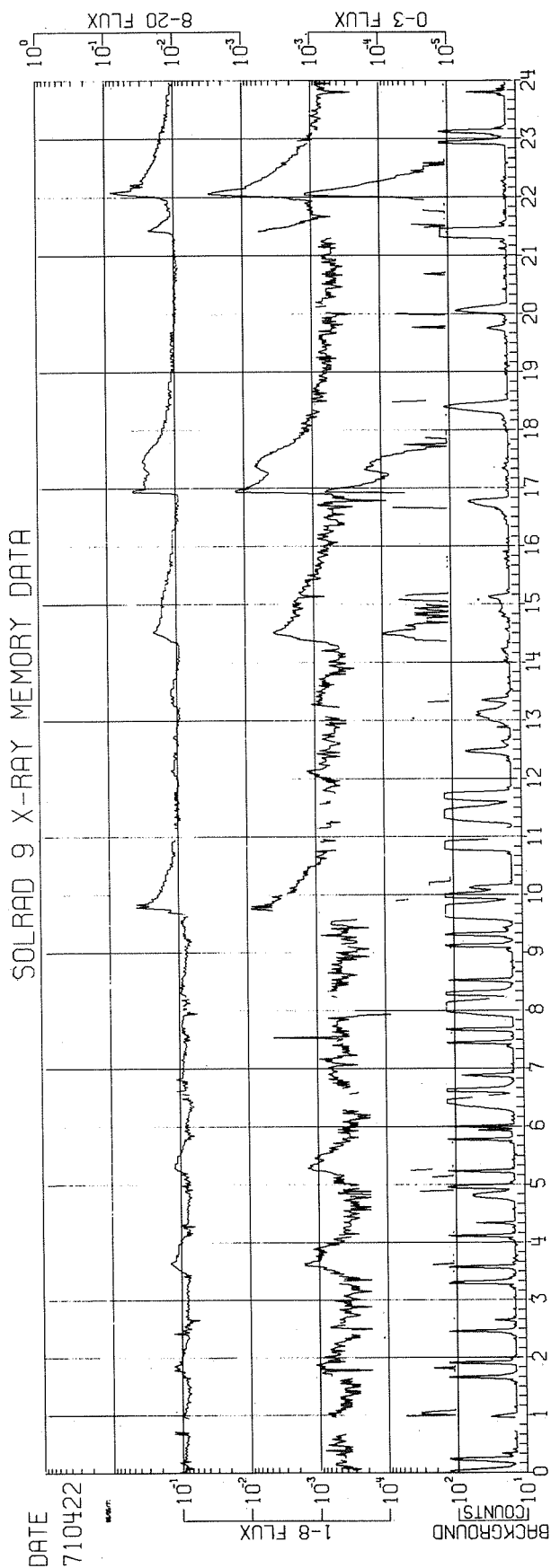
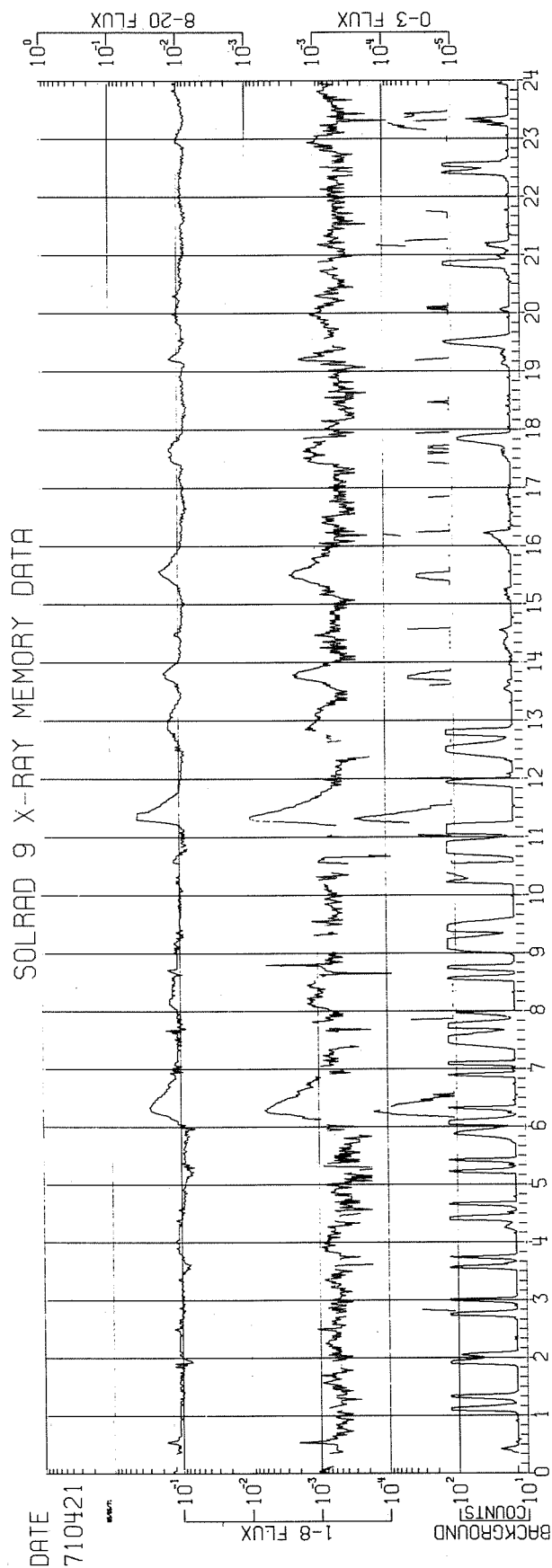


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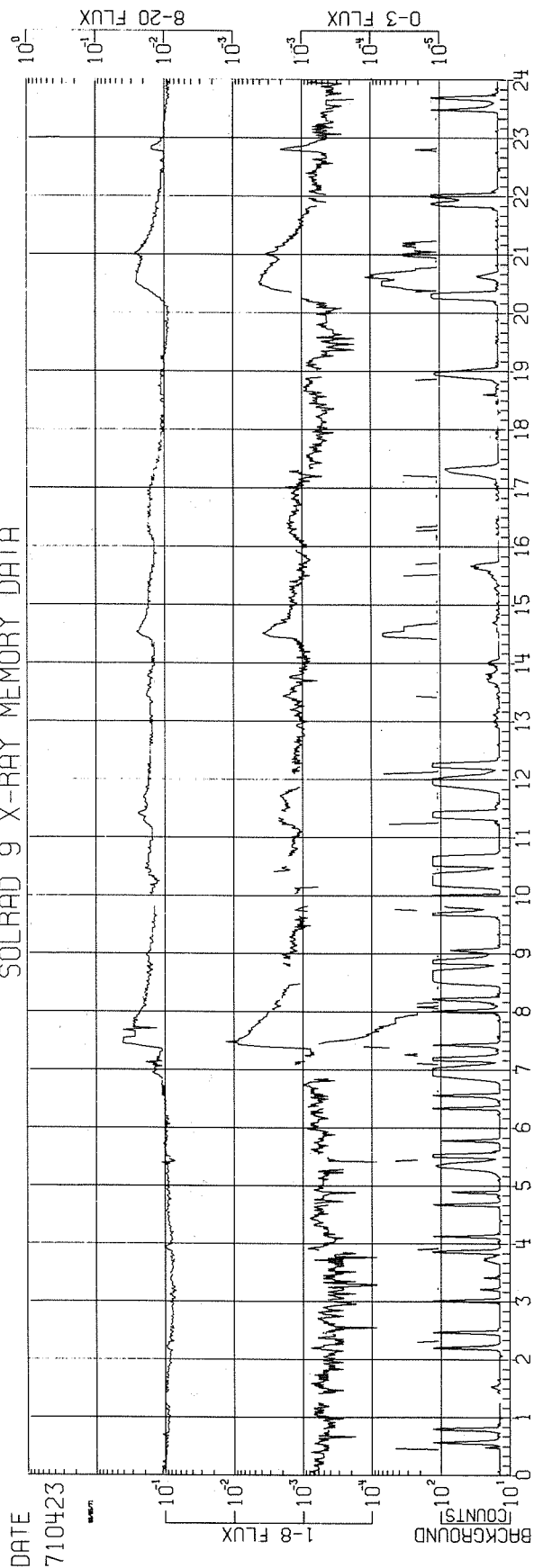


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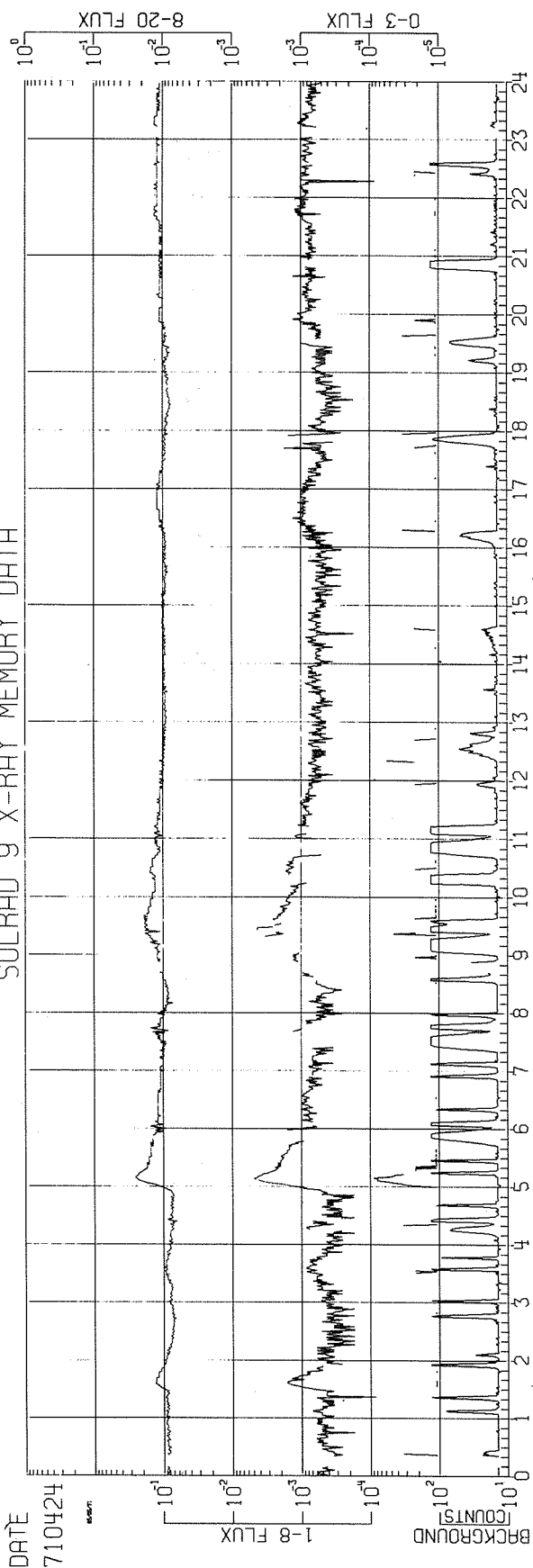




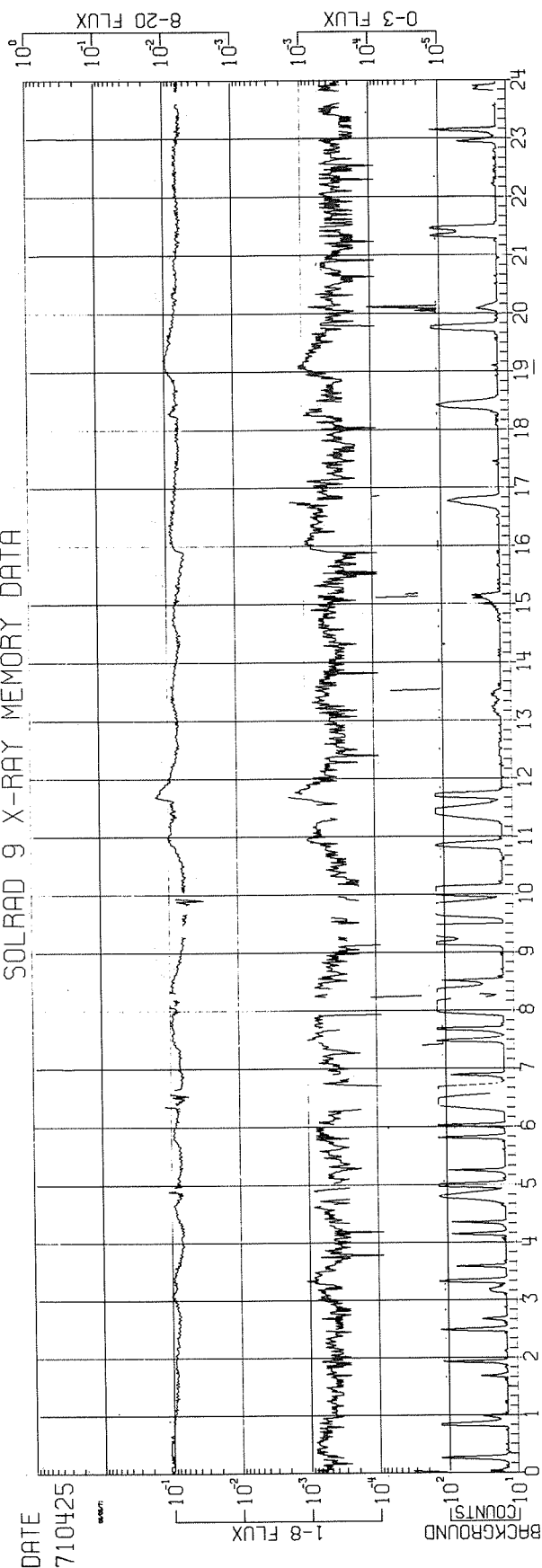
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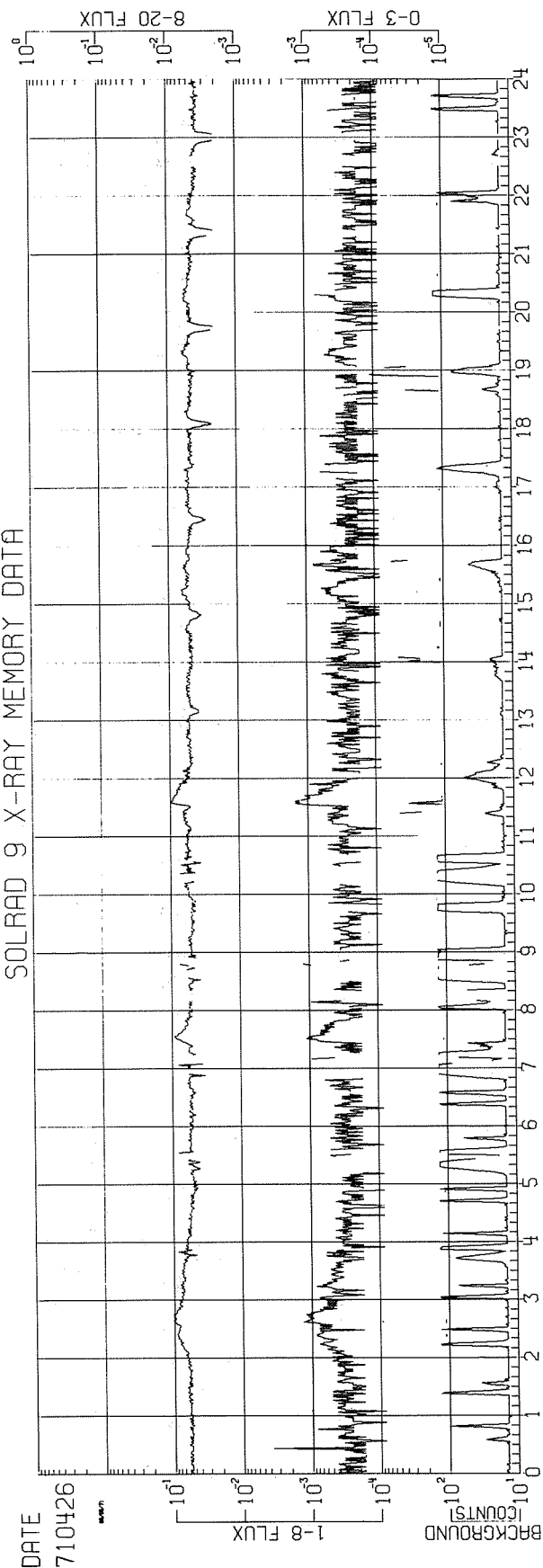
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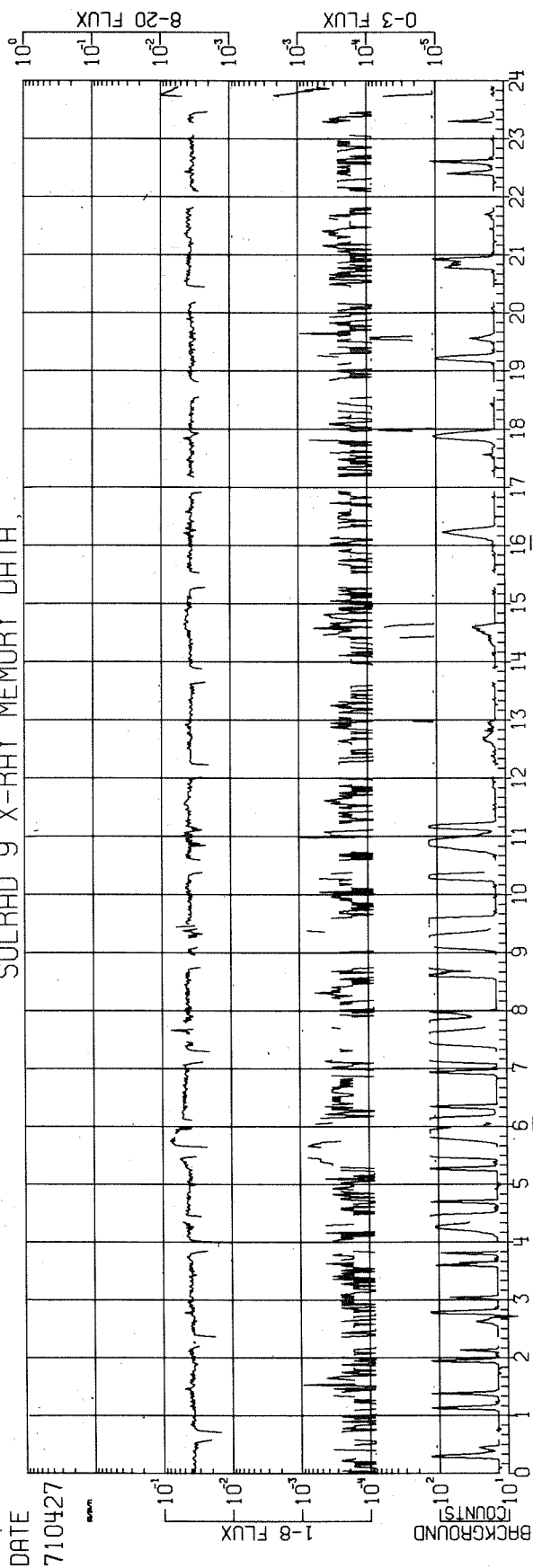
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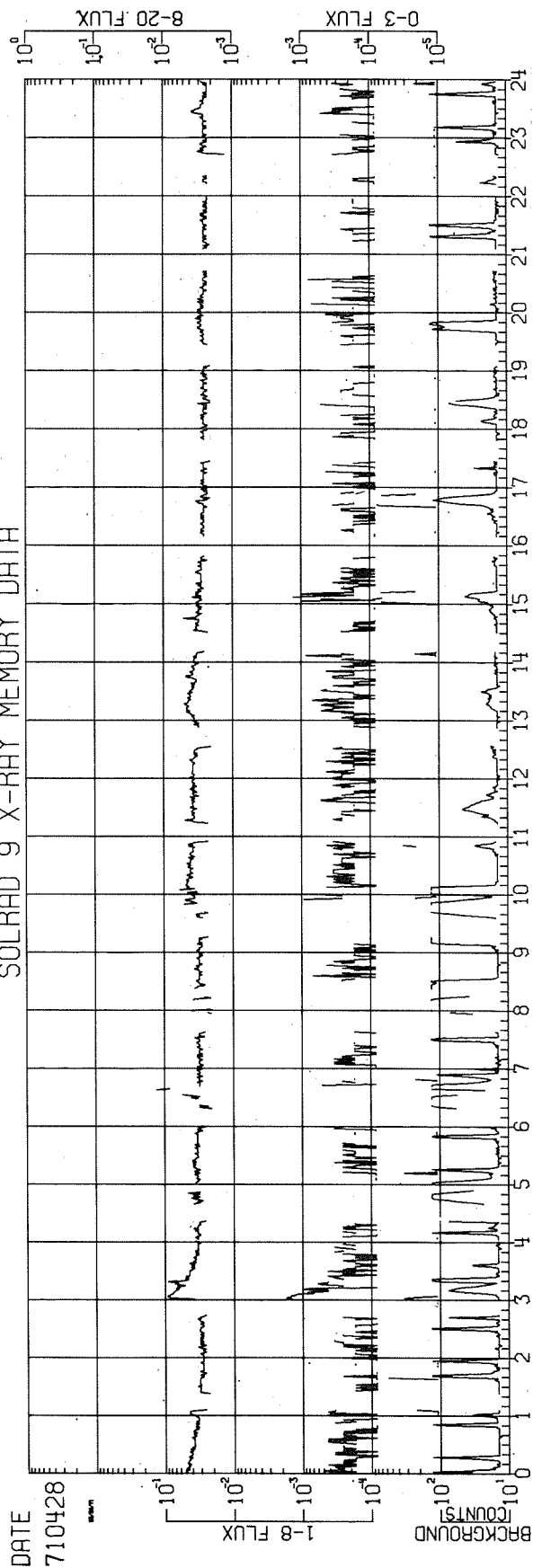
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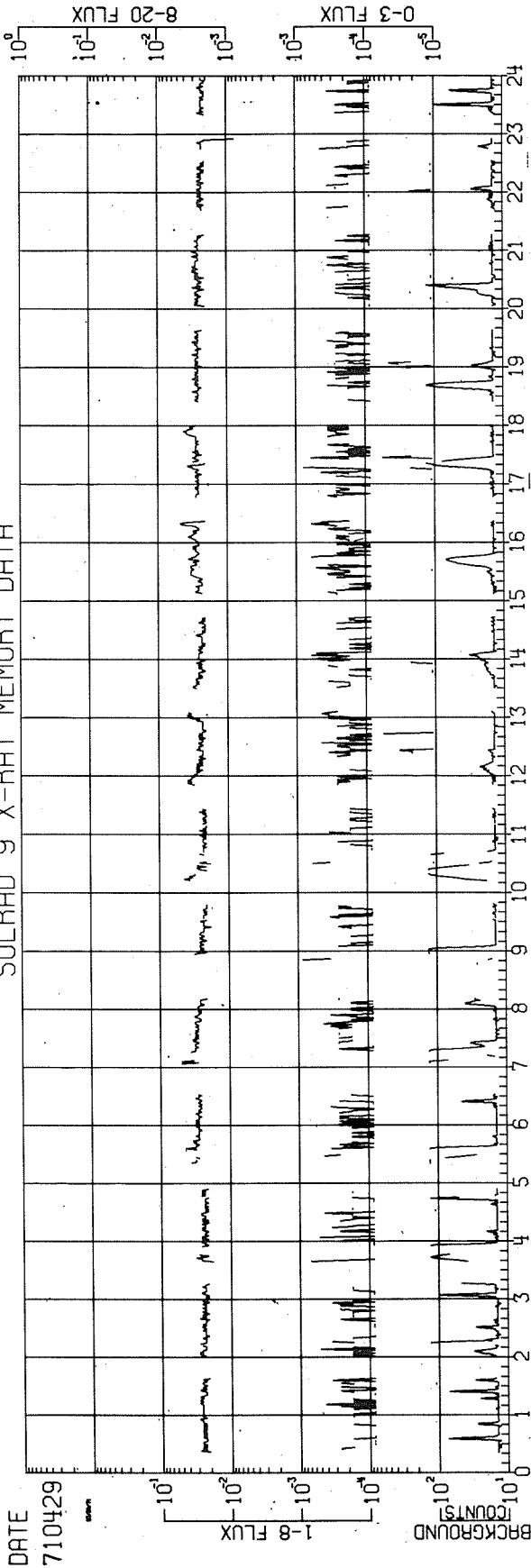
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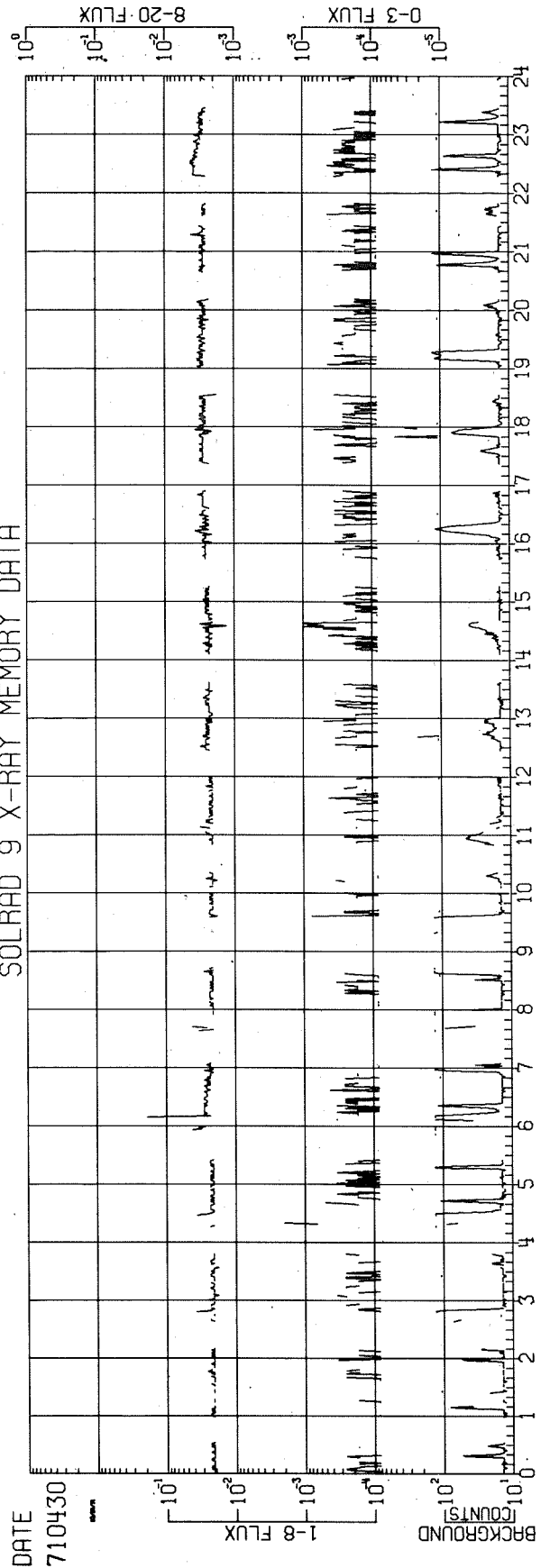
SOLRAD 9 X-RAY MEMORY DATA



SOLRAD 9 X-RAY MEMORY DATA



SOLRAD 9 X-RAY MEMORY DATA



MAGNETOGRAMS OF GEOMAGNETIC STORMS

14-16 April 1971

LT= UT - X

X

-1

1

5

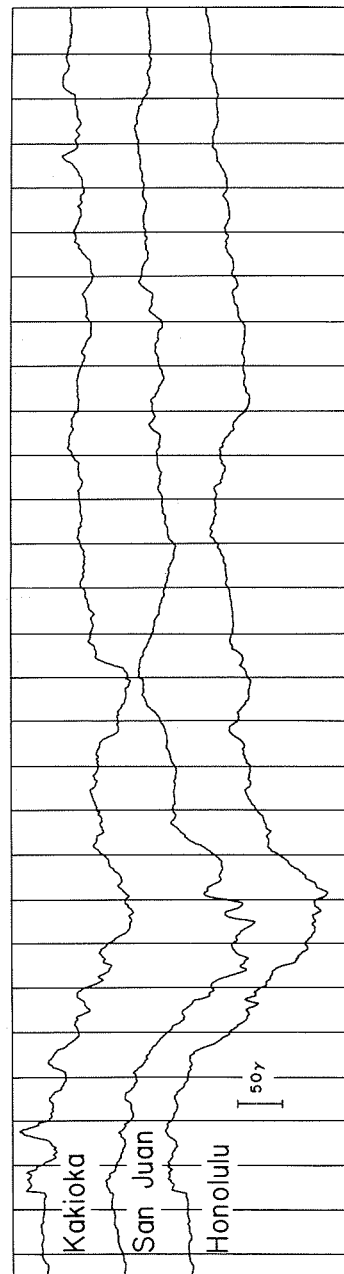
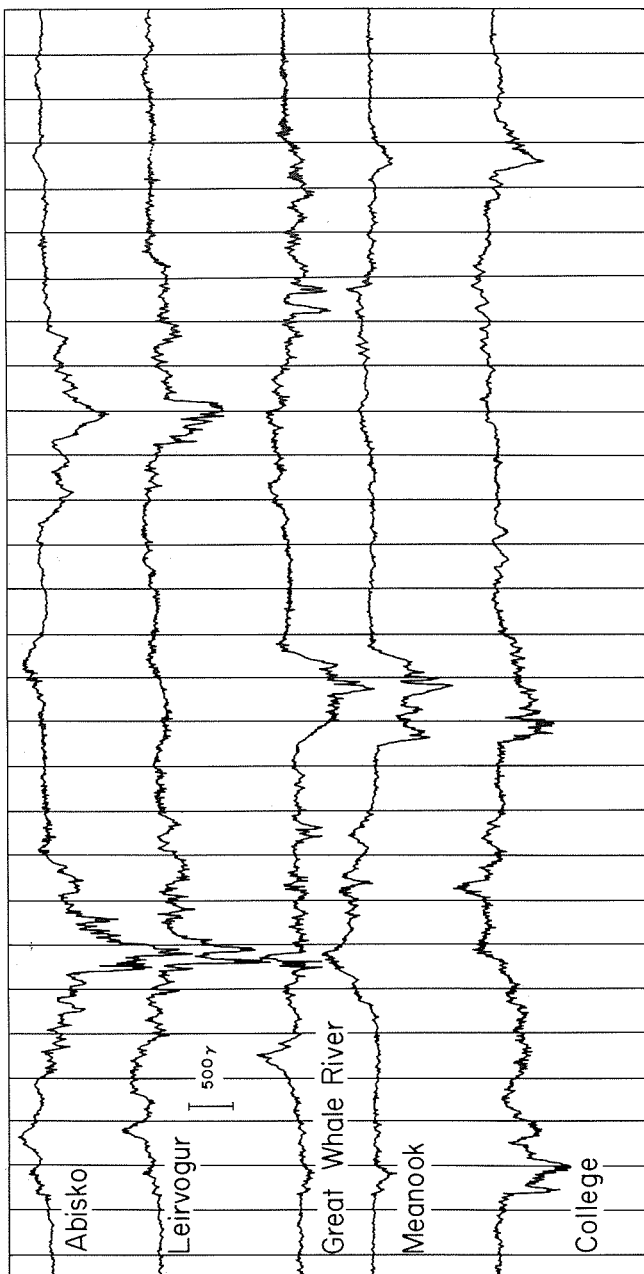
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10

-9

4

11



12UT 16 20 24 04 08 12 16

April 14 1971 April 15 1971 April 16 1971

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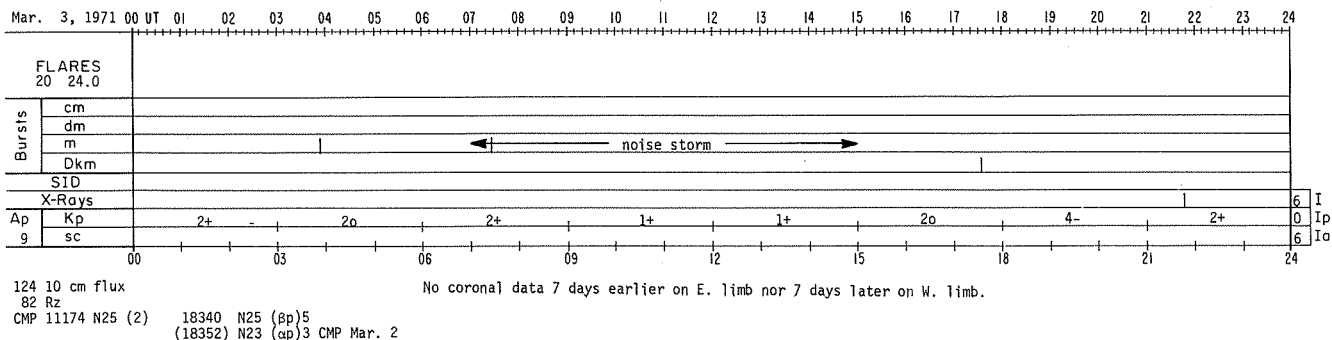
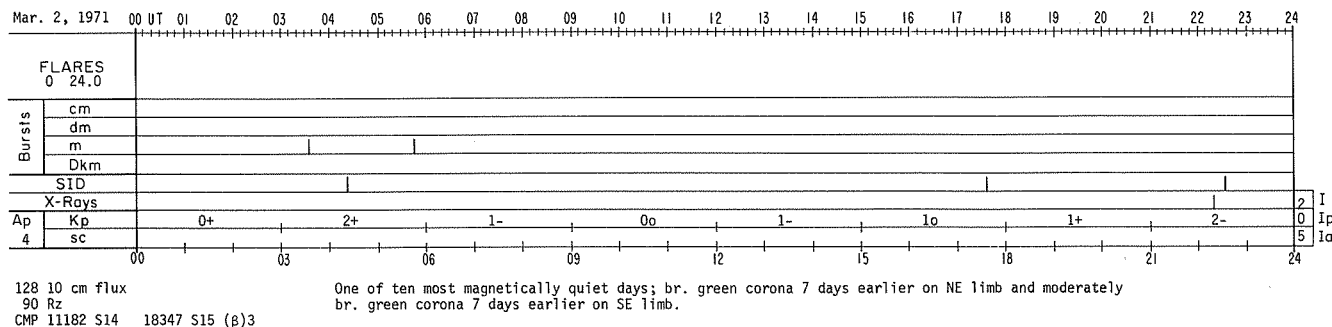
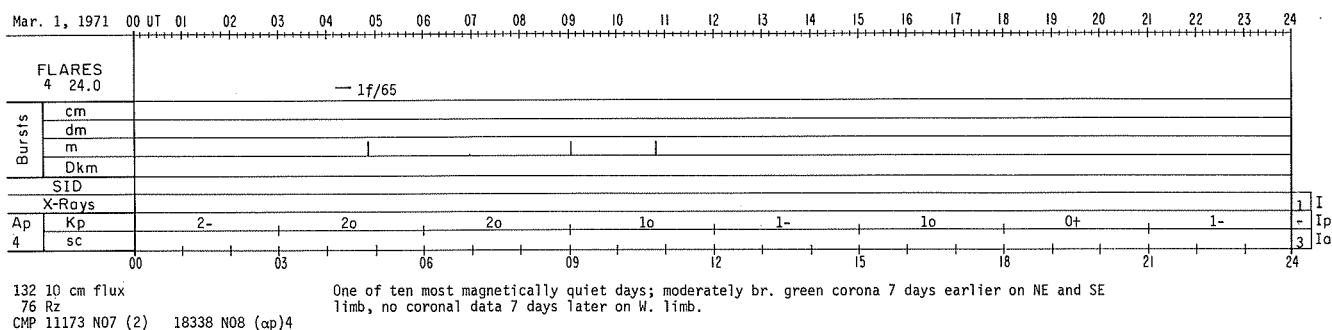
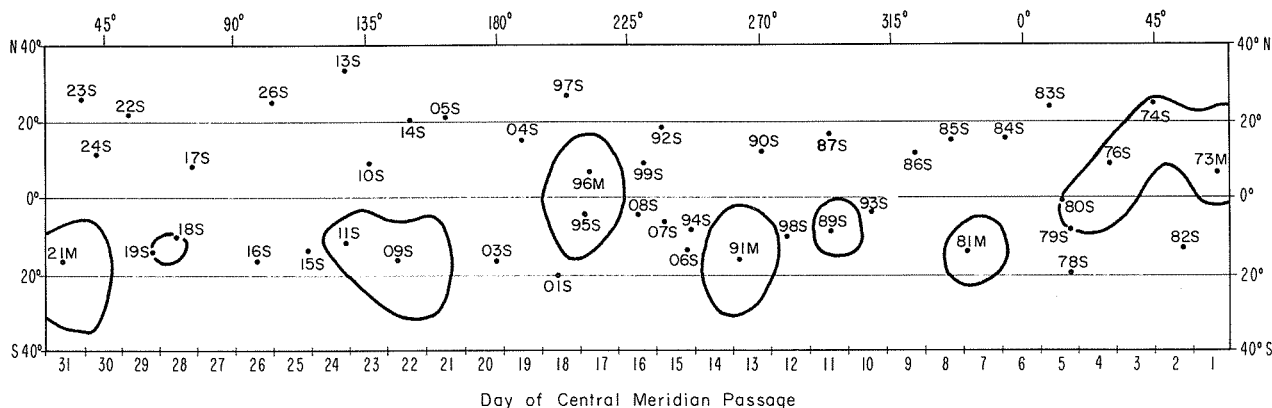
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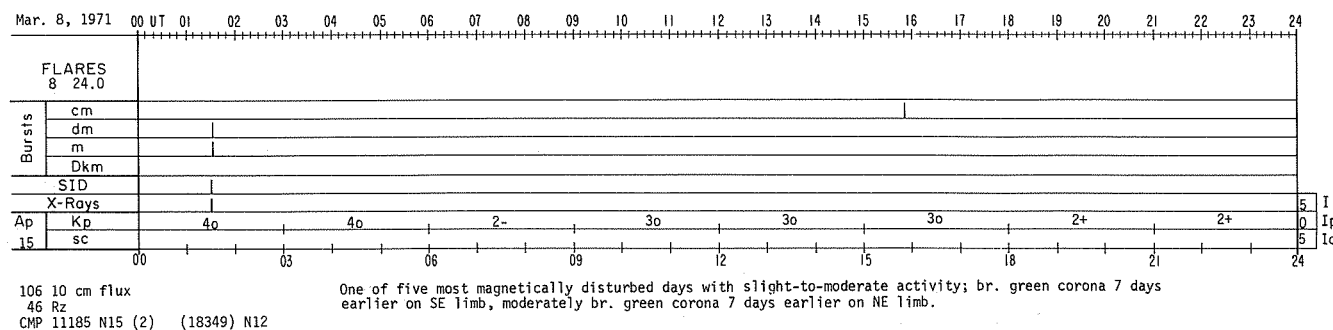
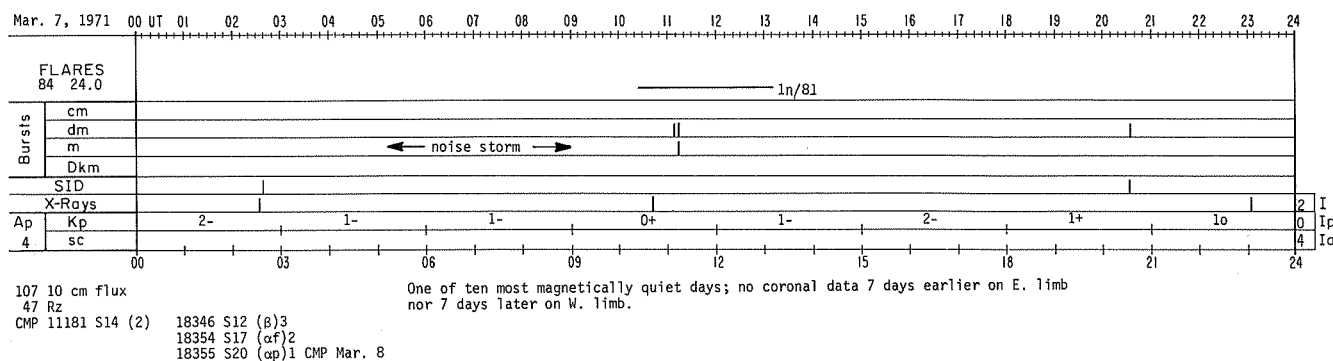
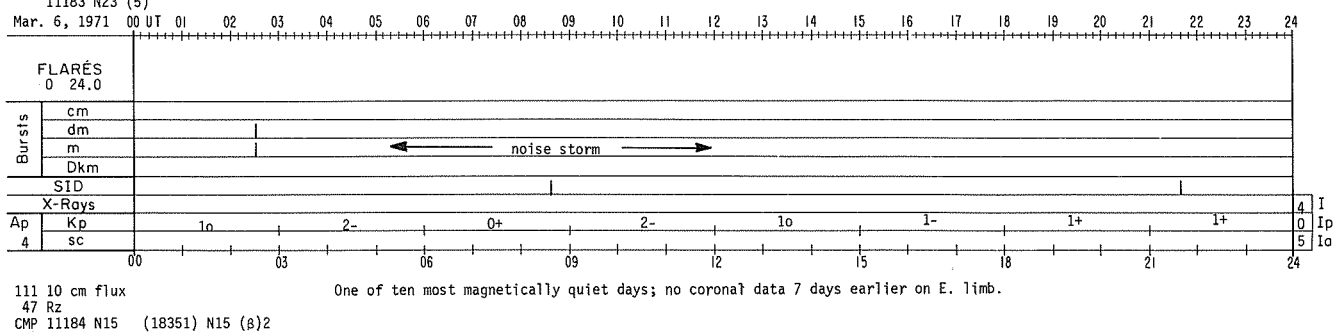
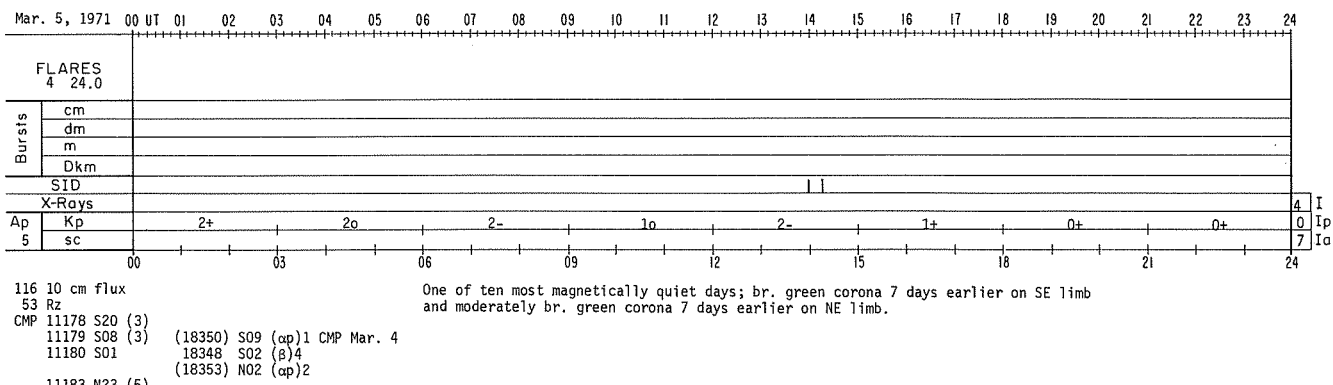
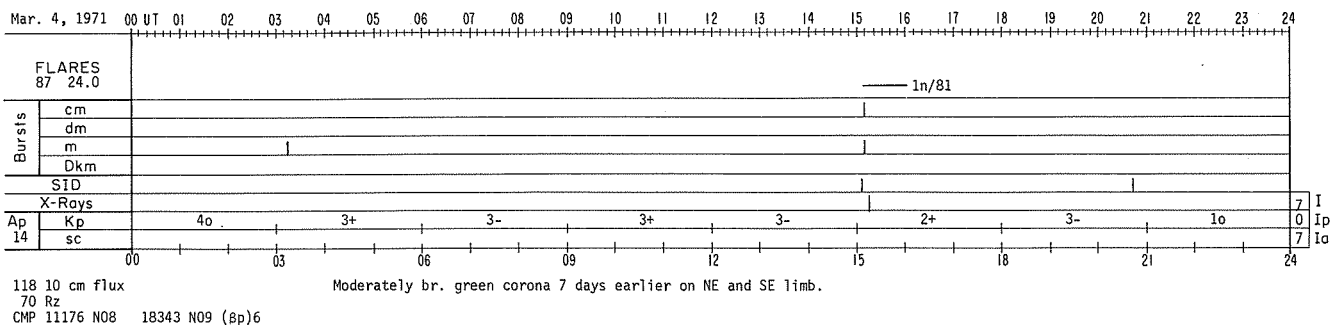
For explanations of the data contained herein see "Descriptive Text:
published in February 1971.

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Mar 71

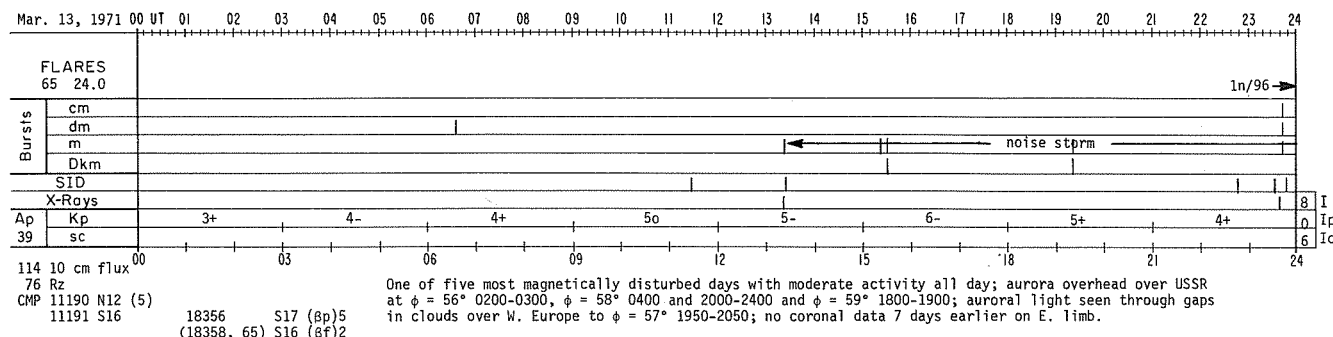
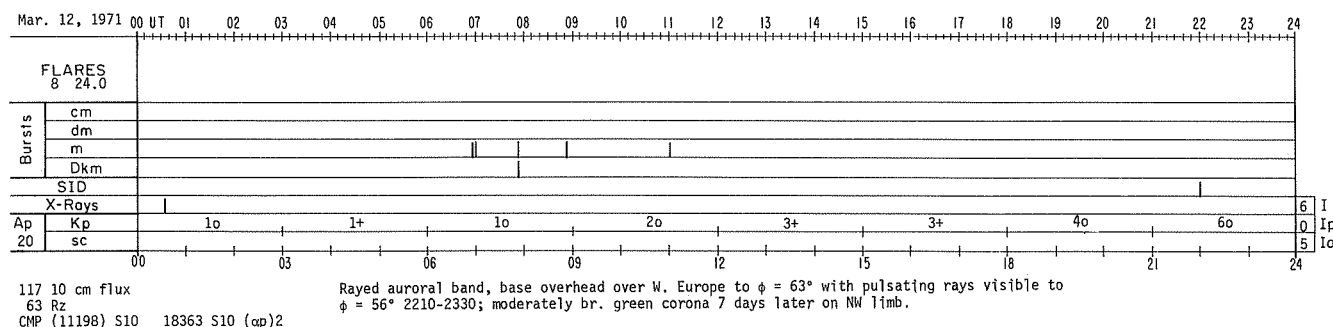
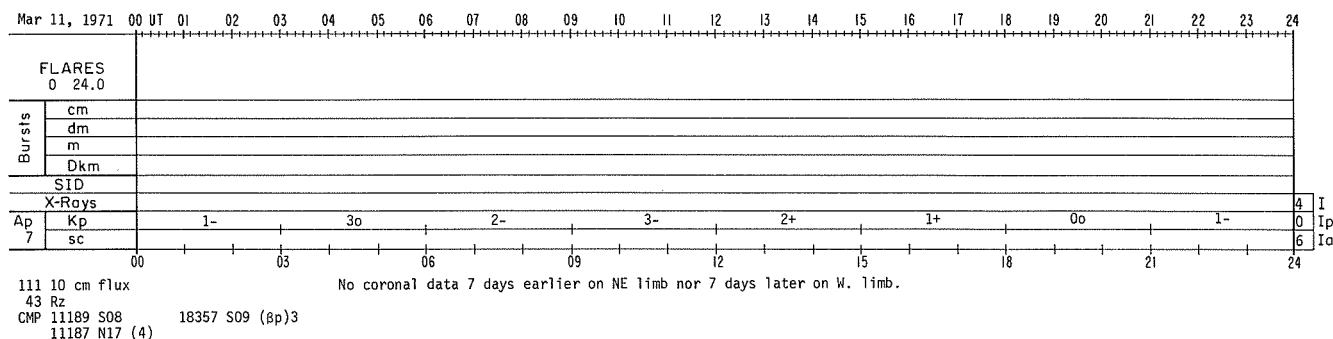
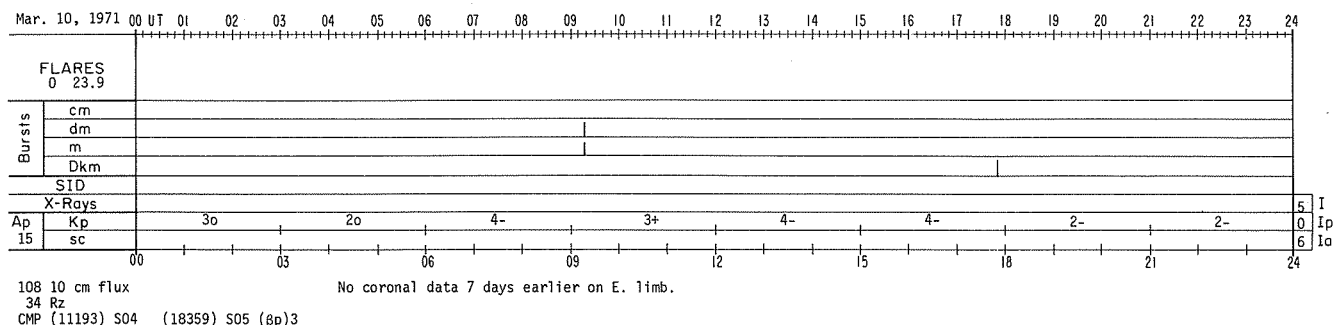
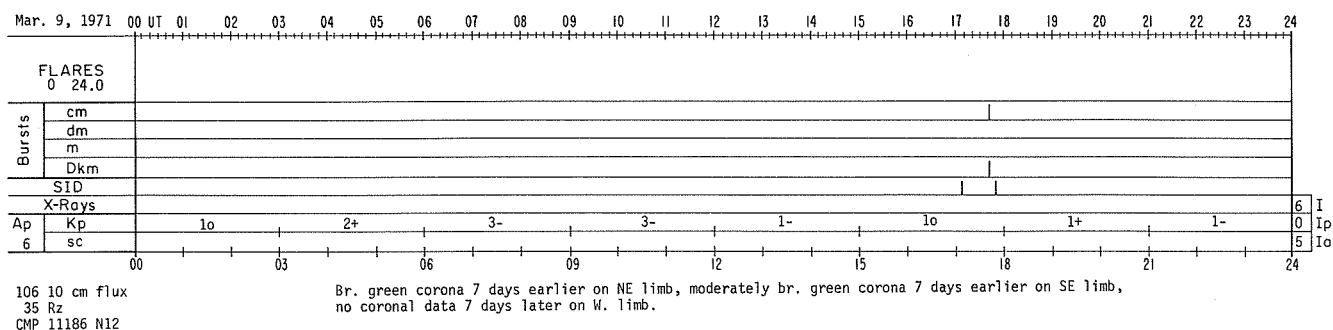
ABBREVIATED CALENDAR RECORD

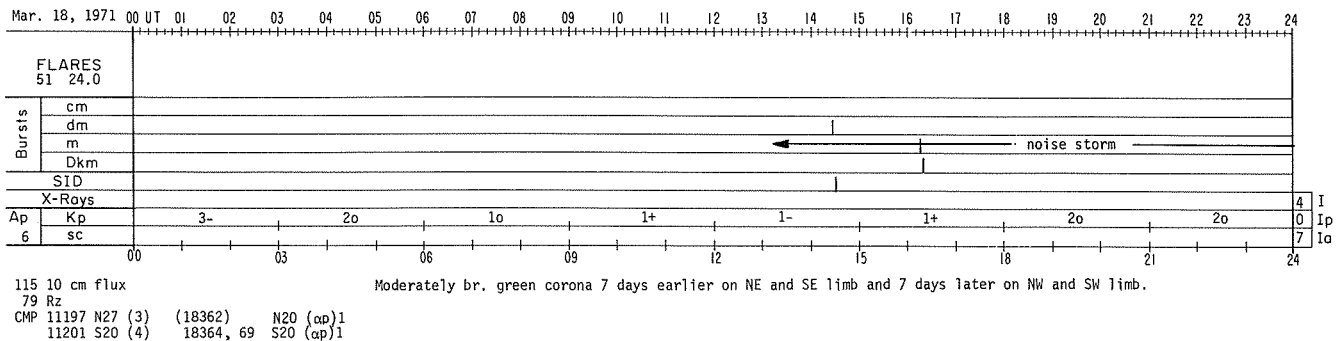
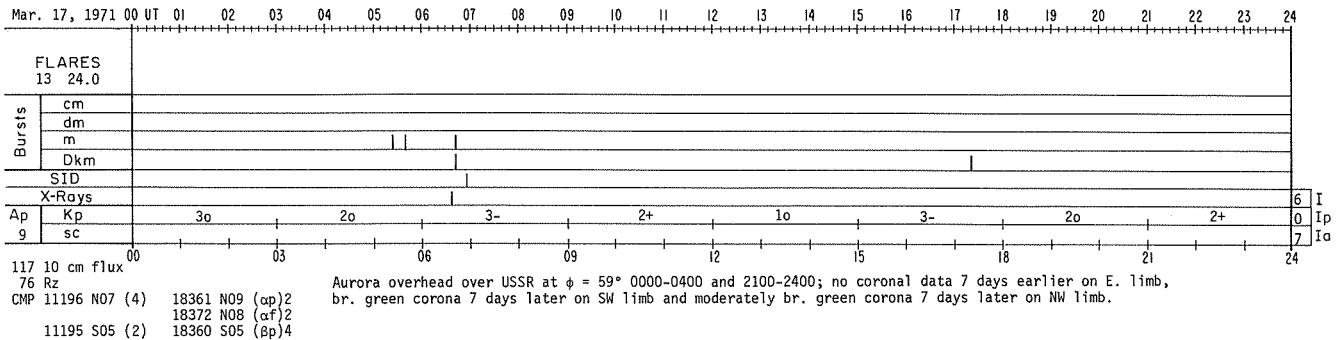
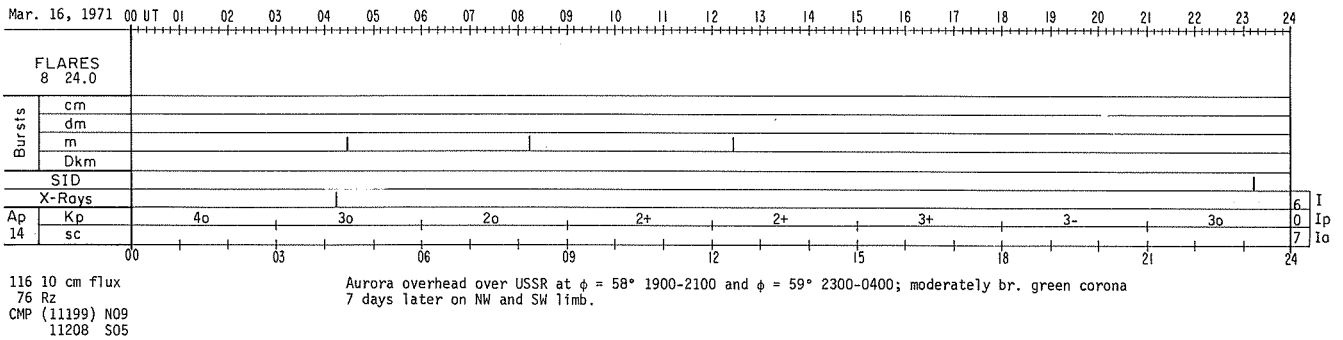
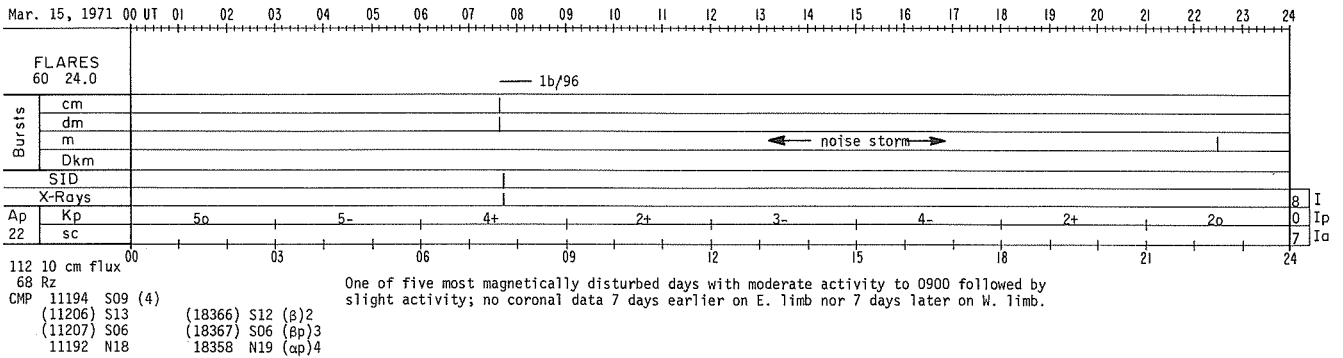
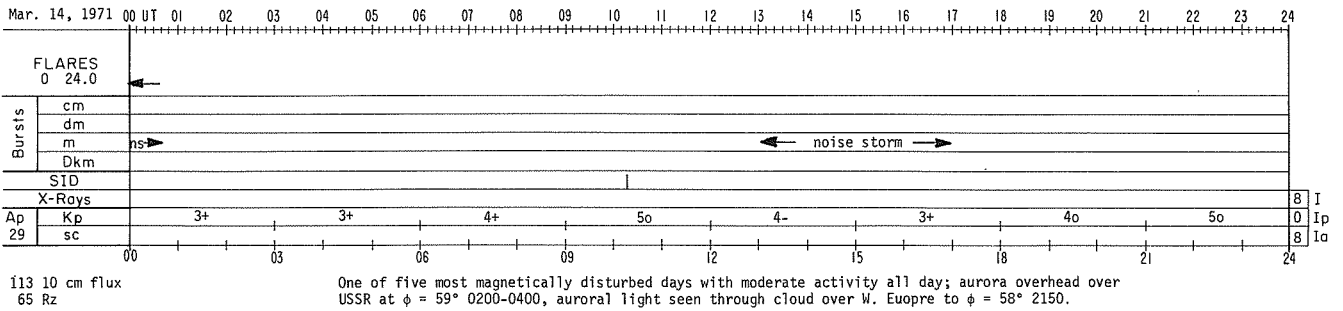
MARCH 1971



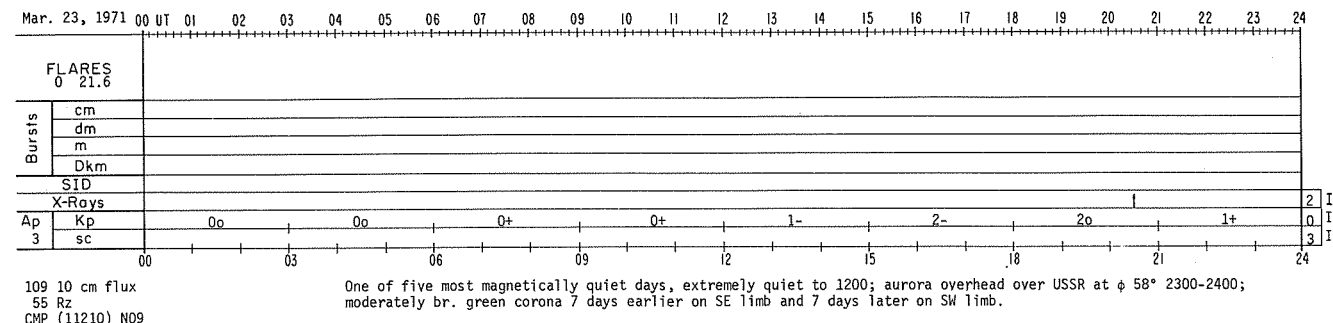
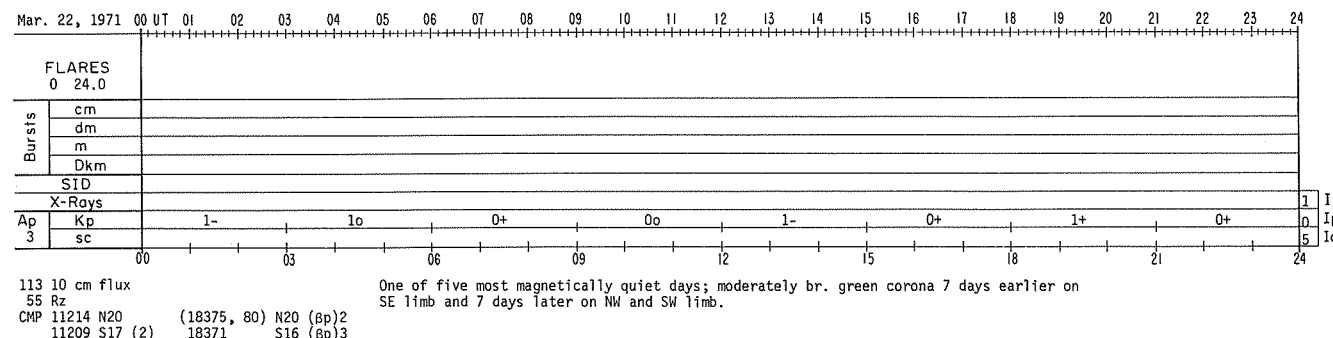
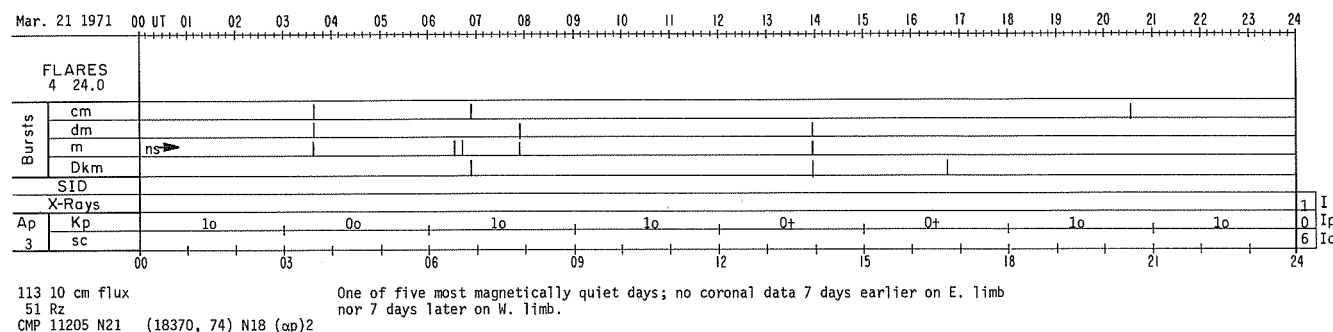
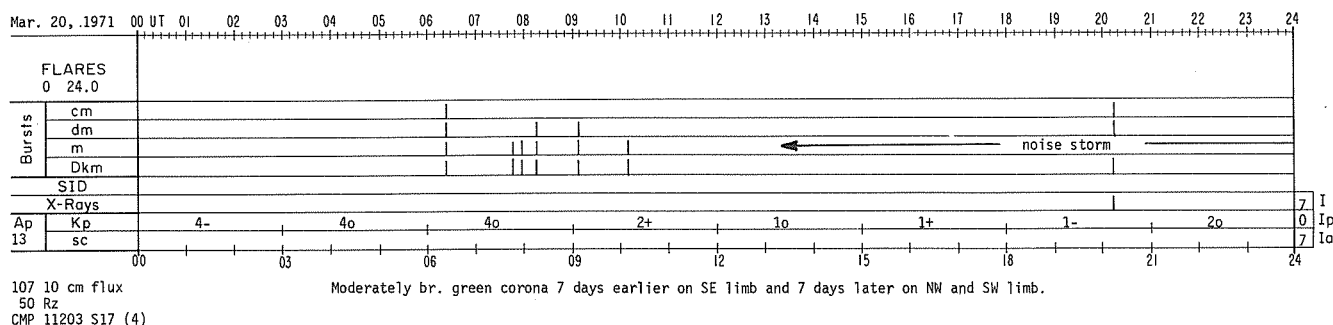
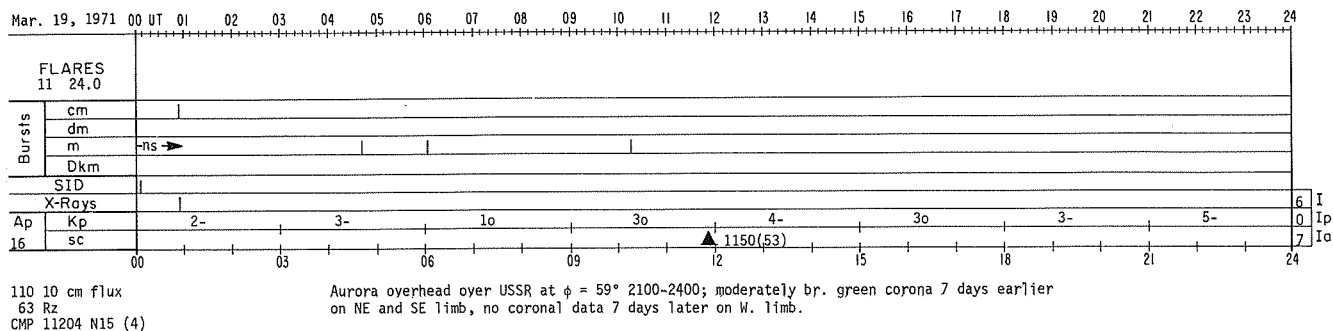


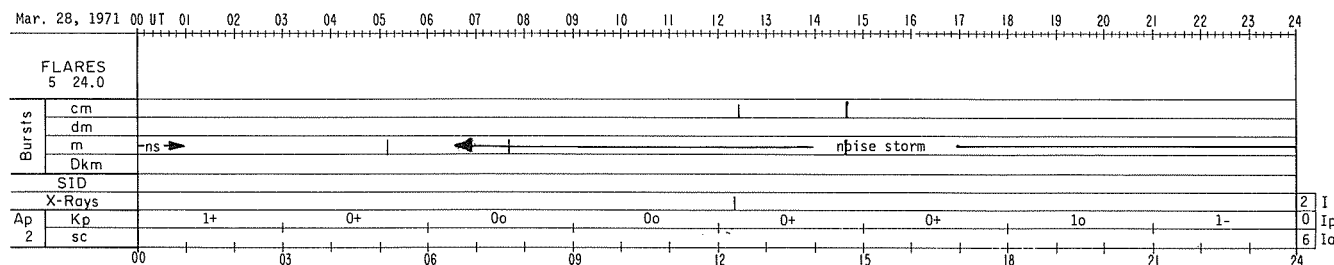
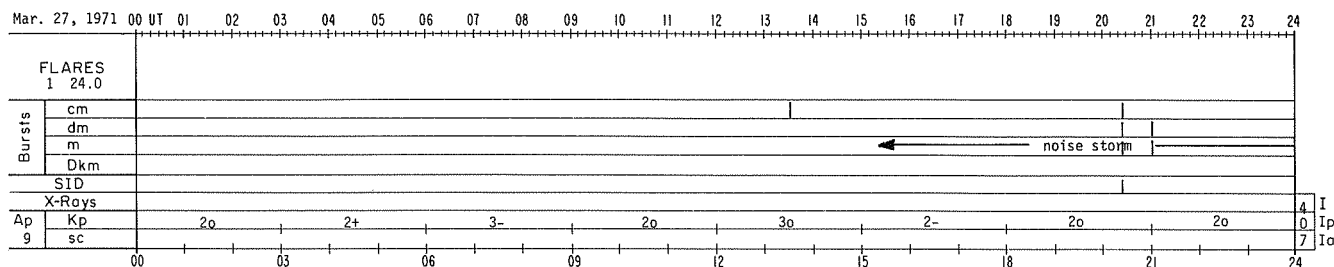
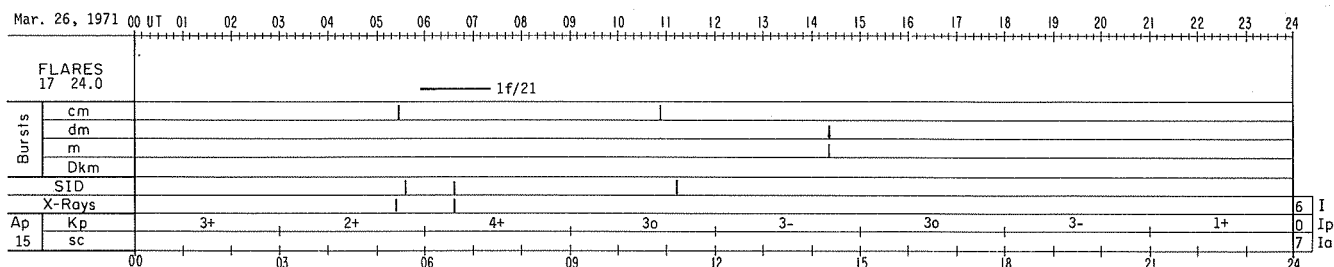
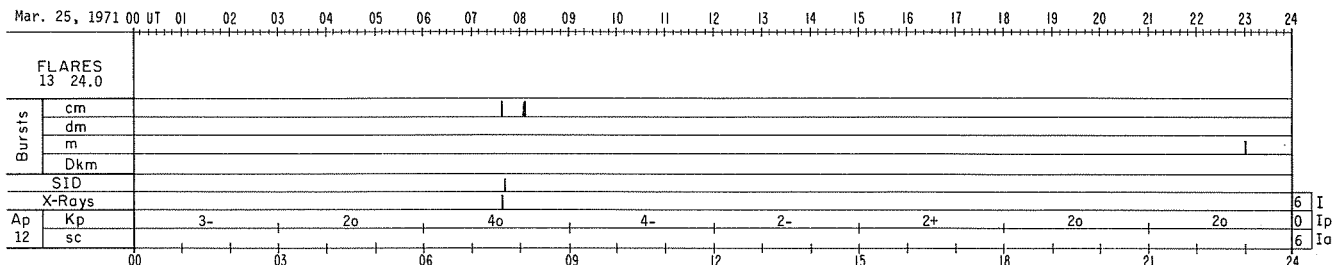
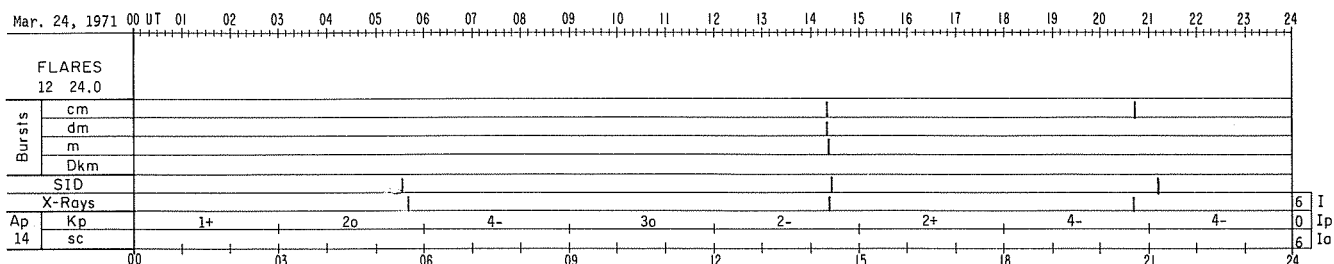
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Mar 71



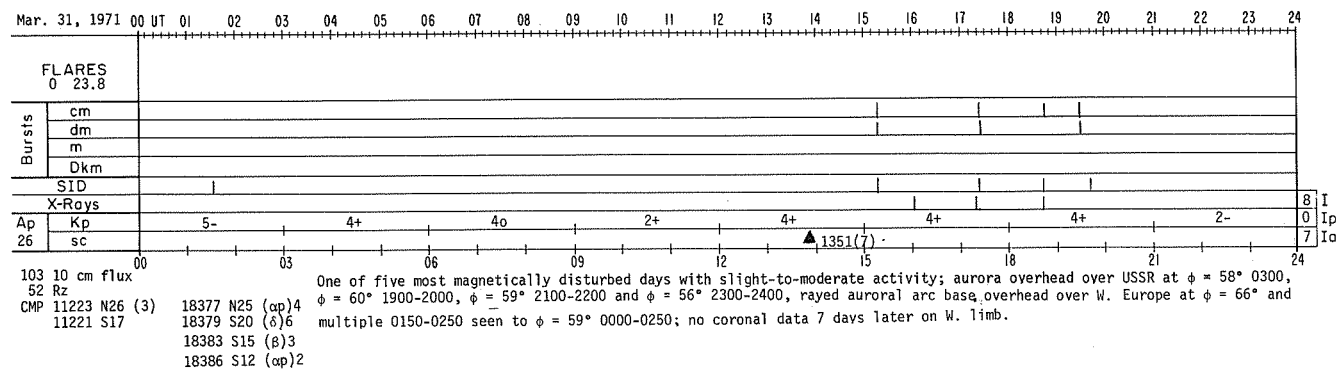
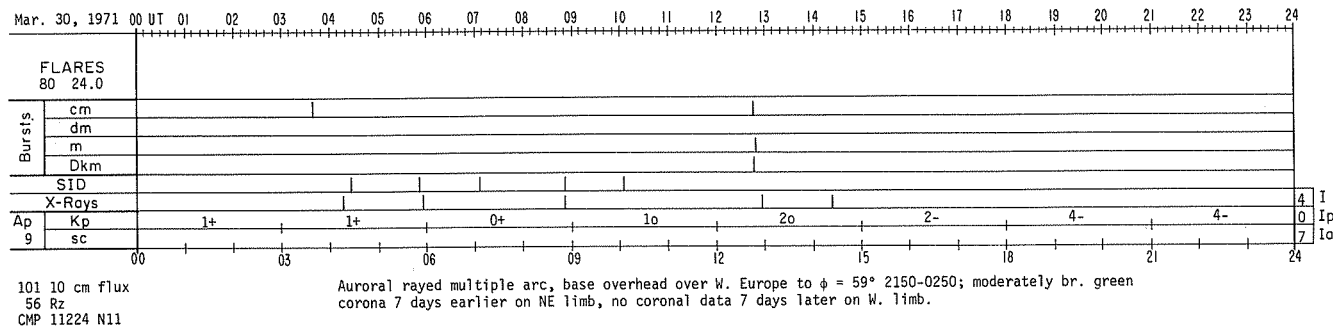
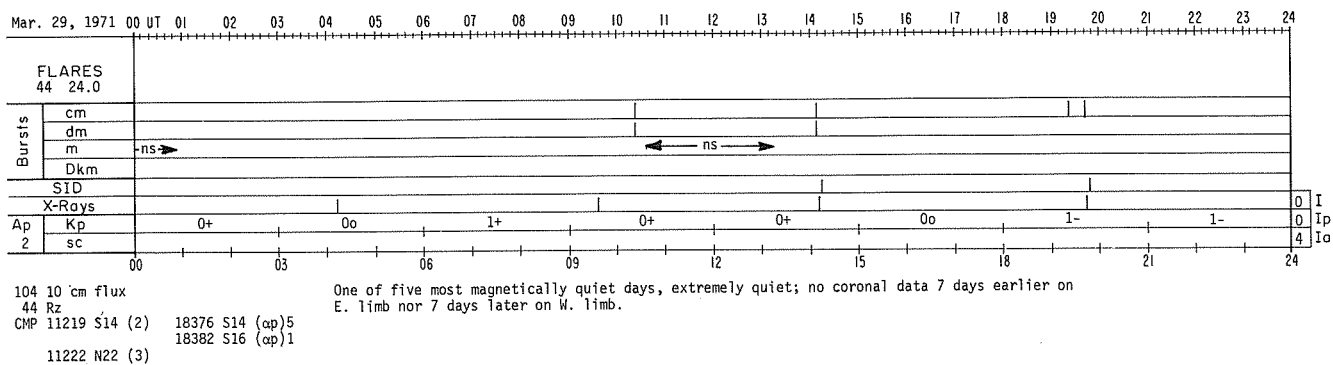


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Mar 71



REGIONAL FLARE INDEX

MARCH 1971

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
11182	S14	71/03/02.2	71/03/03	71/03/03	19.65	19.65	2
11176	N 8	71/03/04.1	71/02/28	71/02/28	7.56	7.56	2
11184	N15	71/03/07.0	71/03/05	71/03/05	3.90	3.90	1
11181	S14	71/03/07.9	71/03/04	71/03/08	177.21	35.44	4
11190	N13	71/03/13.3	71/03/15	71/03/15	33.94	33.94	2
11191	S16	71/03/13.9	71/03/18	71/03/18	1.84	1.84	1
11207	S 6	71/03/15.8	71/03/17	71/03/21	72.79	14.56	8
11192	N19	71/03/15.9	71/03/12	71/03/17	18.72	3.12	3
11196	N 7	71/03/17.8	71/03/13	71/03/16	107.16	26.79	9
11203	S17	71/03/20.0	71/03/13	71/03/27	3.62	0.24	2
11209	S13	71/03/22.8	71/03/24	71/03/24	6.86	6.86	1
11226	N25	71/03/26.1	71/03/30	71/03/30	2.30	2.30	1
11219	S14	71/03/29.2	71/03/24	71/04/01	91.54	18.17	7
11221	S17	71/03/31.6	71/03/25	71/04/08	987.45	65.83	32

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.

**SOLAR PROTONS BY SATELLITE
EXPLORER 41 (1969-53A)**

NOVEMBER 1970

PROTON ENERGY GREATER THAN 60 MEV. HOURLY AVERAGES. IMPG SOLAR PROTON MONITOR. JHU/APL AND GSFC

YEAR 1970

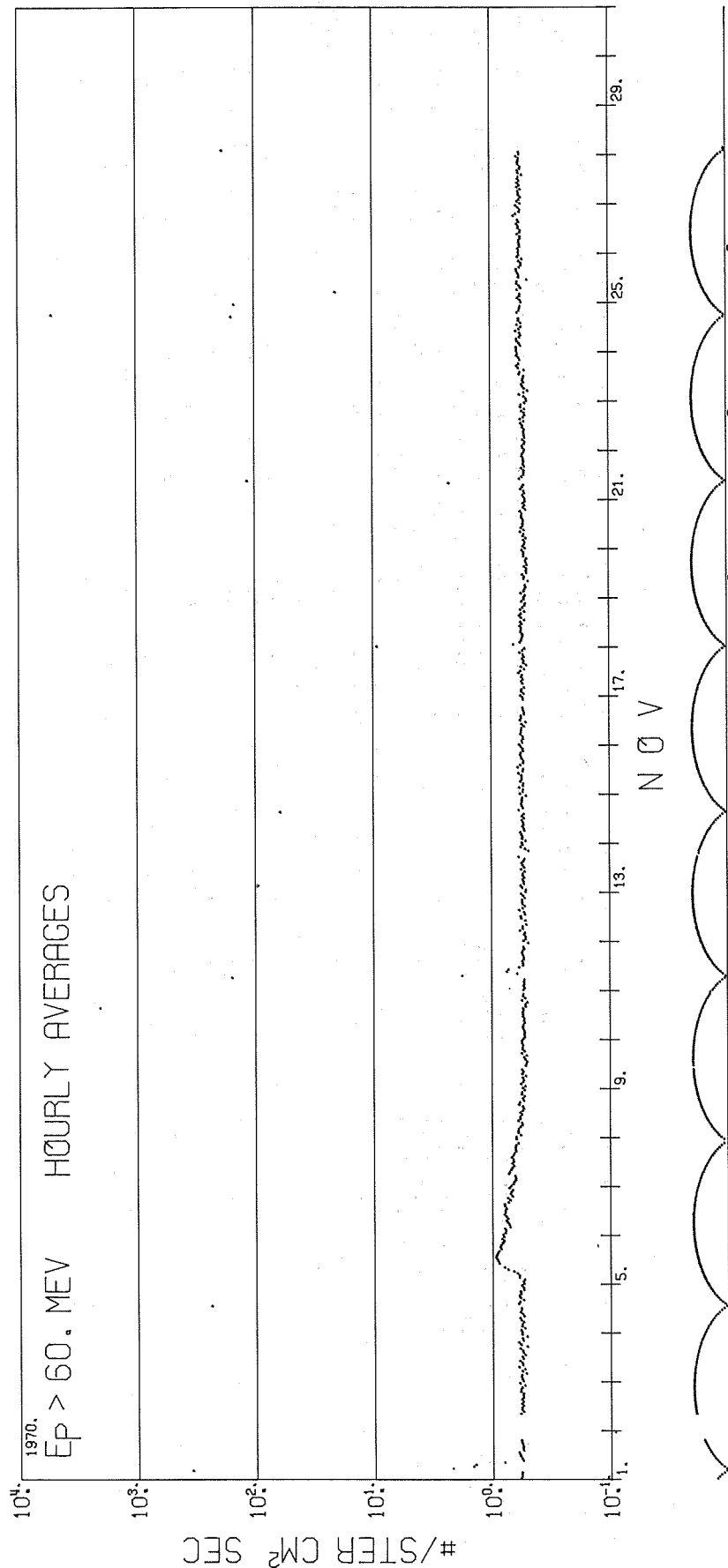
DATE DAY OF

HOUR

YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	305	0.58	0.57	0.57	0.57	348.	2.19	1.47	1.41	0.80	0.56	0.57	0.59	0.60	0.61	0.56	0.56	0.57	0.57	0.58				
2	306								0.58	0.56	0.57	0.57	0.56	0.57	0.56	0.57	0.55	0.56	0.55	0.58				
3	307	0.56	0.56	0.58	0.57	0.52	0.57	0.54	0.60	0.56	0.57	0.59	0.56	0.57	0.53	0.56	0.56	0.59	0.51	0.58	0.60	0.56	0.55	0.51
4	308	0.56	0.58	0.54	0.57	0.56	0.55	0.58	0.59	0.54	0.56	0.58	0.57	0.57	238.	0.60	0.59	0.55	0.58	0.60	0.58	0.58	0.55	0.55
5	309	0.54	0.55	0.54	0.60	0.59	0.62	0.66	0.74	0.80		0.88	0.90	0.92	0.94	0.92	0.90	0.88	0.85	0.86	0.84	0.82	0.80	0.83
6	310	0.82	0.78	0.77	0.79	0.71	0.72	0.74	0.76	0.74	0.77	0.79	0.78	0.78	0.76	0.78	0.79	0.73	0.71	0.74	0.68	0.70	0.69	0.67
7	311	0.69	0.67	0.65	0.63	0.63	0.64	0.73	0.72	0.70	0.68	0.66	0.68	0.66	0.66	0.66	0.66	0.65	0.63	0.64	0.63	0.60		
8	312	0.62	0.57	0.60	0.60	0.60	0.58	0.55	0.56	0.60	0.58	0.58	0.58	0.58	0.55	0.54	0.55	0.59	0.54	0.55	0.53	0.55	0.56	0.55
9	313	0.55	0.52	0.57	0.55	0.54	0.55	0.52	0.56	0.54	0.56		0.52	0.51	0.50	0.52	0.54	0.51	0.56	0.53	0.55	0.55	0.56	0.54
10	314	0.54	0.53	0.53	0.53	0.53	0.54	0.55	0.54	0.53	0.53	0.53	0.55	0.55	0.55	0.54	0.54	0.52	0.52	0.50	0.56	0.52	0.54	0.54
11	315	0.54	0.53	0.54	0.53	0.54	0.53	157.	1.77	0.61	0.75	0.72	0.59	0.54	0.54	0.55	0.54	0.54	0.54	0.56	0.55	0.53	0.54	
12	316	0.54	0.52	0.52	0.53	0.52	0.58	0.54	0.55	0.51		0.52	0.56	0.57	0.52	0.53	0.59	0.55	0.52	0.55	0.55	0.55	0.52	0.54
13	317	0.51	0.51	0.55	0.56	0.53	0.54	0.54	0.53	0.54	0.54	0.52	0.56	0.53	0.54	0.55	0.54	0.53	0.59		0.49	0.52	0.57	0.55
14	318	0.55	0.51	0.55	0.54	0.55	0.57	0.52	0.53	0.54	0.53	0.54	0.55	0.53	0.55	0.53	61.7	0.58	0.54	0.55	0.56	0.55	0.55	0.55
15	319	0.57	0.54	0.54	0.58	0.54	0.53	0.56	0.55	0.55	0.55	0.59	0.54	0.53	0.59	0.56	0.54	0.53	0.55	0.56	0.57	0.56	0.54	0.54
16	320	0.58	0.54	0.55	0.53	0.54	0.56	0.56	0.56	0.55	0.53	0.55	0.51	0.57	0.56	0.56	0.53	0.53	0.54					
17	321	0.56	0.53	0.55	0.55	0.52		0.54	0.55	0.54	0.55	0.54	0.58	0.56	0.52	0.55	0.50	0.53	0.54	0.52	0.54	0.54	0.54	0.54
18	322	9.27	0.64	0.57	0.55	0.54	0.54	0.54	0.56	0.55	0.55	0.57	0.55	0.56	0.52	0.55	0.57	0.55	0.52	0.54	0.55	0.54	0.54	0.54
19																								

SOLAR PROTONS BY SATELLITE EXPLORER 41 (1969-53A)

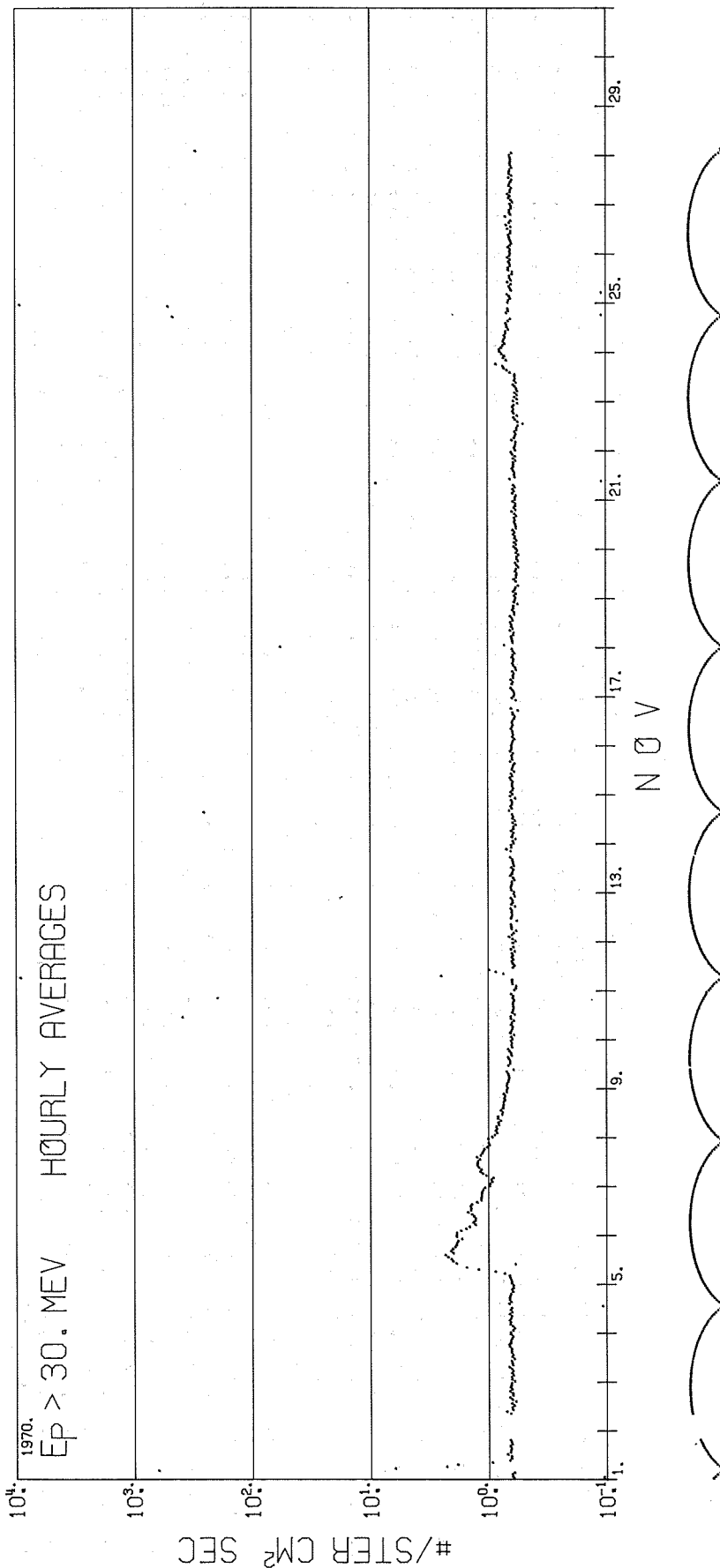
NOVEMBER 1970



YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	305	0.62	0.63	0.64	0.61	625.	6.21	2.28	1.84	0.94	0.67	0.65	0.65	0.70	0.66	0.65	0.64	0.66	0.63	0.63	0.67	0.64	0.66	0.65	0.64
2	306									0.66	0.71	0.63	0.64	0.61	0.64	0.59	0.64	0.67	0.63	0.63	0.67	0.64	0.66	0.65	0.64
3	307	0.61	0.64	0.64	0.62	0.64	0.67	0.64	0.67	0.63	0.63	0.64	0.61	0.64	0.62	0.64	0.64	0.67	0.67	0.67	0.65	0.65	0.64	0.63	0.65
4	308	0.66	0.62	0.61	0.63	0.66	0.65	0.66	0.65	0.64	0.67	0.64	0.65	0.64	0.64	0.67	0.65	0.66	0.67	0.66	0.65	0.63	0.62	0.63	0.62
5	309	0.64	0.64	0.65	0.66	0.67	0.74	0.88	1.22	1.54	1.87	2.02	2.06	2.21	2.32	2.00	2.09	2.01	1.92	1.87	1.85	1.81	1.68	1.88	1.68
6	310	1.87	1.86	1.71	1.55	1.44	1.29	1.34	1.29	1.29	1.34	1.39	1.50	1.41	1.42	1.39	1.26	1.15	1.15	1.15	1.14	1.13	1.11	1.08	1.08
7	311	0.97	0.96	0.93	0.94	0.91	1.05	1.12	1.18	1.15	1.21	1.24	1.24	1.23	1.19	1.26	1.17	1.13	1.11	1.09	1.03	0.98	0.99	1.01	1.01
8	312	0.93	0.88	0.85	0.87	0.85	0.86	0.82	0.82	0.78	0.83	0.83	0.78	0.76	0.78	0.75	0.74	0.74	0.73	0.73	0.72	0.74	0.70	0.70	0.70
9	313	0.69	0.70	0.70	0.68	0.67	0.67	0.67	0.68	0.70	0.61		0.68	0.66	0.65	0.67	0.68	0.63	0.64	0.66	0.68	0.63	0.64	0.63	0.63
10	314	0.63	0.64	0.60	0.65	0.64	0.62	0.62	0.64	0.63	0.61	0.64	0.65	0.60	0.63	0.62	0.61	0.61	0.62	0.61	0.60	0.62	0.61	0.64	
11	315	0.60	0.58	0.58	0.62	0.63	0.63	0.63	0.64	0.74	0.86	0.99	0.62	0.60	0.62	0.63	0.61	0.63	0.62	0.63	0.60	0.64	0.61		0.63
12	316	0.59	0.62	0.66	0.63	0.61	0.58	0.63	0.64	0.64		0.57	0.64	0.63	0.63	0.63	0.64	0.59	0.64	0.62	0.64	0.64	0.64	0.59	0.63
13	317	0.60	0.63	0.64	0.64	0.63	0.63	0.60	0.61	0.64	0.63	0.62	0.61	0.63	0.61	0.61	0.61	0.62	0.65					0.64	0.64
14	318	0.61	0.62	0.58	0.63	0.62	0.61	0.63	0.61	0.61	0.58	0.62	0.59	0.62	0.61	0.63	255.	0.66	0.63	0.64	0.62	0.63	0.64	0.59	0.65
15	319	0.62	0.64	0.62	0.61	0.62	0.62	0.61	0.64	0.65	0.62	0.64	0.60	0.63	0.62	0.61	0.59	0.65	0.62	0.63	0.63	0.61	0.65	0.63	0.63
16	320	0.63	0.62	0.61	0.60	0.62	0.61	0.62	0.62	0.64	0.63	0.62	0.63	0.62	0.60	0.59	0.61	0.62	0.55	0.53				0.58	0.58
17	321	0.60	0.60	0.60	0.62	0.64		0.62	0.61	0.64	0.61	0.61	0.60	0.62	0.58	0.59	0.61	0.62	0.61	0.61	0.62	0.61	0.59	0.61	0.62
18	322	57.5	0.72	0.61	0.62	0.62	0.63	0.61	0.60	0.65	0.61	0.63	0.63	0.64	0.61	0.62	0.65	0.59	0.60	0.62	0.60	0.56	0.60	0.55	0.60
19	323	0.58	0.59	0.58	0.59	0.57	0.59	0.58	0.55		0.58	0.60	0.57	0.57	0.58	0.57	0.55	0.57	0.58	0.55	0.57	0.58	0.57	0.58	0.57
20	324	0.58	0.60	0.57	0.61	0.59	0.58	0.60		0.59	0.61	0.57	0.58	0.58	0.59	0.59	0.60	0.60	0.62	0.60	0.62	0.60	0.56	0.60	0.55
21	325	0.58	0.58	0.57	0.62	0.60	0.61	0.59	0.60	8.88	0.65	0.65	0.59	0.59	0.59	0.61	0.62	0.60	0.60	0.61	0.58	0.60	0.58	0.57	0.58
22	326	0.58	0.58	0.59	0.58	0.58	0.63	0.60	0.58	0.58	0.59	0.57	0.56	0.55	0.50	0.55	0.59	0.60	0.62	0.58	0.60	0.61	0.60	0.58	0.57
23	327	0.60	0.56	0.56	0.56	0.59	0.56	0.57	0.58	0.61	0.57	0.59	0.58	0.59	0.59	0.60	0.60	0.60	0.62	0.58	0.60	0.58	0.60	0.58	0.57
24	328	0.79	0.79	0.76	0.74	0.72	0.73	0.73	0.71	0.72	0.70	0.70	0.67	0.68	0.69	0.70	0.67	0.64	465.	0.69	0.67	0.67	508.	1.19	1.19
25	329	0.67	0.66	0.64	0.65	0.68	0.64	0.65	0.64	0.65	0.63	0.67	0.63	0.65	0.65	0.62	0.61	0.66	0.67	0.64	0.65	0.66	0.64	0.68	0.65
26	330	0.64	0.65	0.64	0.67	0.64	0.62	0.63	0.65	0.65	0.66	0.64	0.63	0.67	0.63	0.70	0.65	0.63		0.70	0.64	0.65	0.65	0.63	0.63
27	331	0.64	0.61	0.63	0.66	0.65	0.68	0.64	0.64	0.63	0.65	0.65	0.63	0.62	0.66	0.62	0.65	0.64	0.62	0.64	0.64	0.64	0.64	0.64	0.64
28	332	0.65	0.62	0.62	0.62	0.65	0.68	0.64	0.64	0.63	0.65	0.65	0.63	0.62	0.66	0.62	0.65	0.65	0.64	0.62	0.64	0.64	0.64	0.64	0.64
29	333	0.65	0.62	0.62	0.62	0.65	0.68	0.64	0.64	0.63	0.65	0.65	0.63	0.62	0.66	0.62	0.65	0.65	0.64	0.62	0.64	0.64	0.64	0.64	0.64

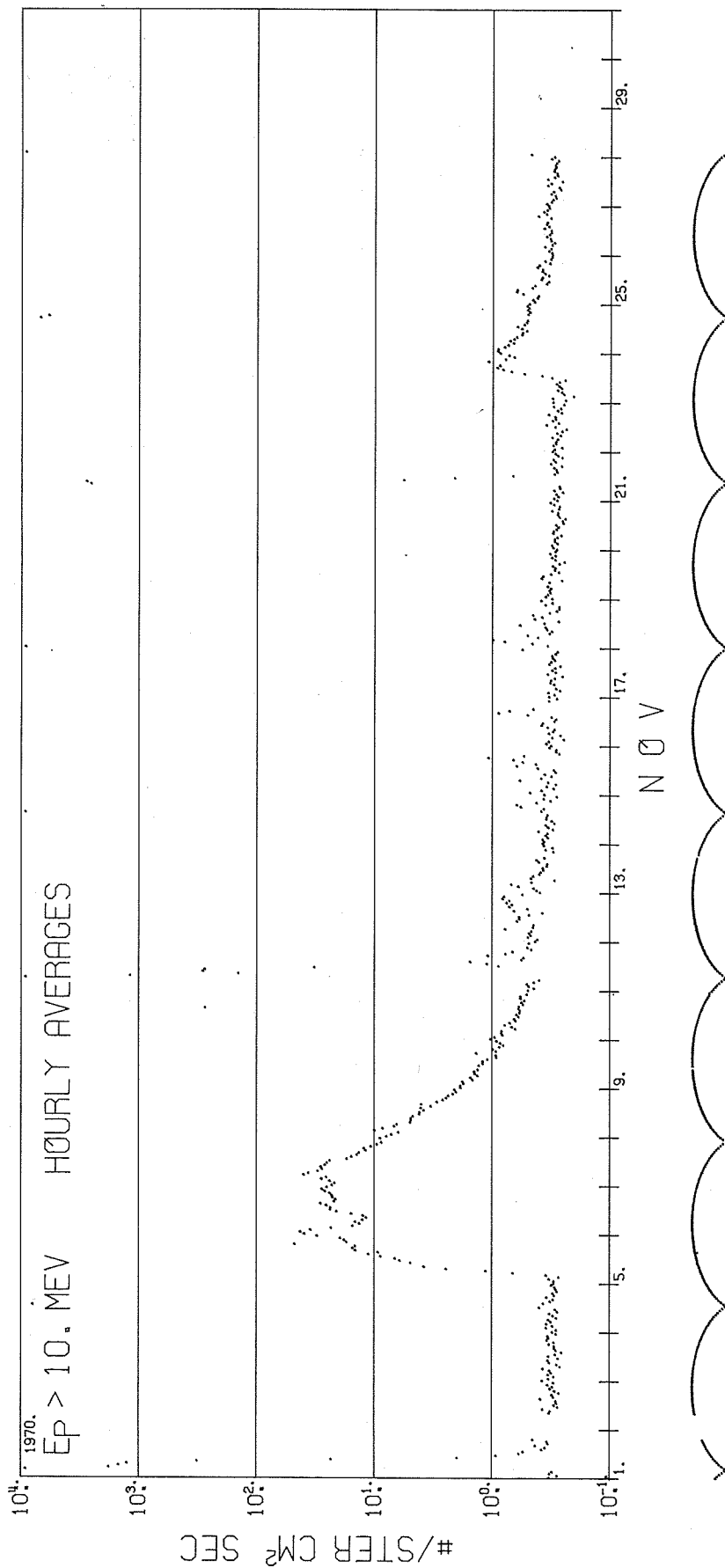
SOLAR PROTONS BY SATELLITE EXPLORER 41 (1969-53A)

NOVEMBER 1970



SOLAR PROTONS BY SATELLITE EXPLORER 41 (1969-53A)

NOVEMBER 1970



DECEMBER 1970

JHU/APL - AND GSFC

IMPG SOLAR PROTON MONITOR

PROTON ENERGY GREATER THAN ≈ 0 MEV;

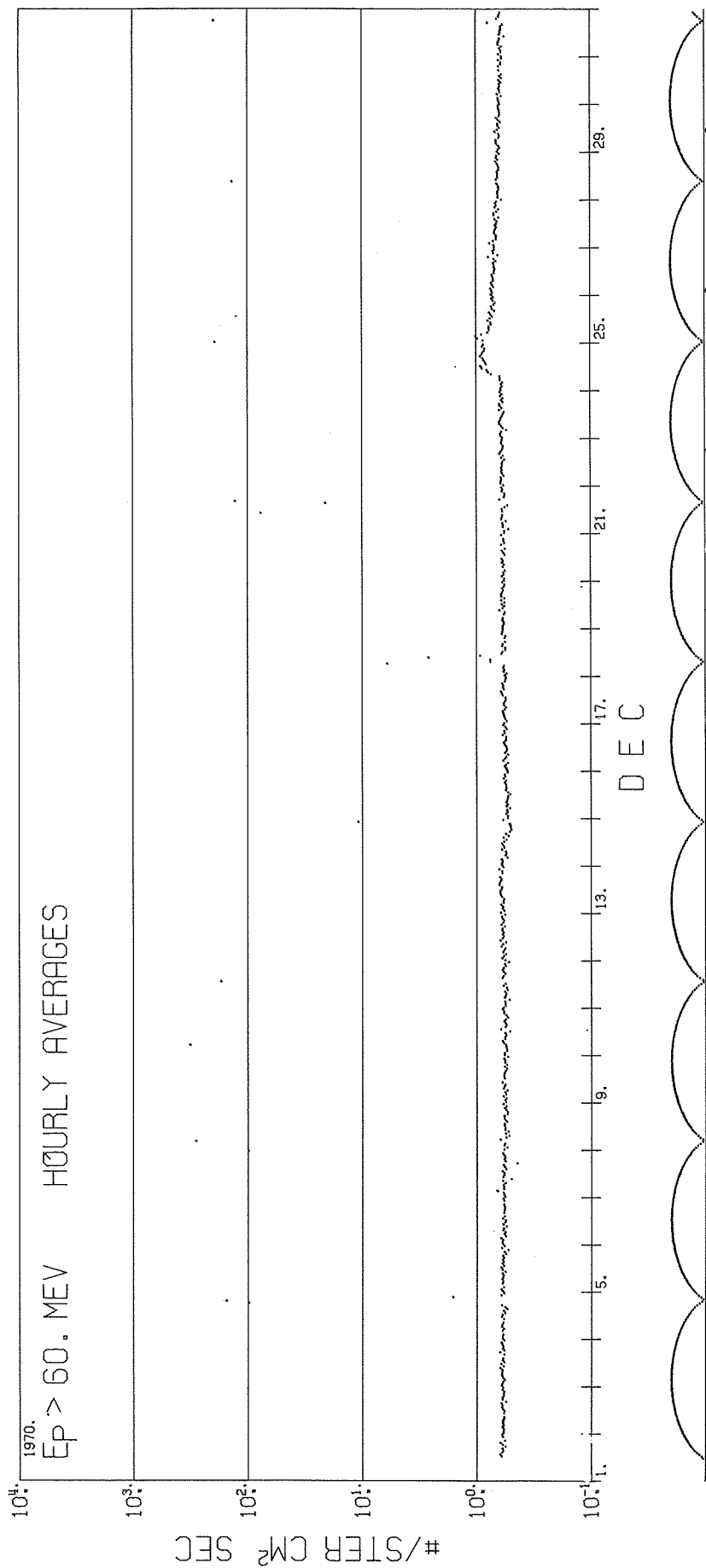
YEAR 1970

St. Paul

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SOLAR PROTONS BY SATELLITE EXPLORER 41 (1969-53A)

DECEMBER 1970



**SOLAR PROTONS BY SATELLITE
EXPLORER 41 (1969-53A)**

DECEMBER 1970

JHU/APL AND GSFC

PROTON ENERGY GREATER THAN 30 MEV. HOURLY AVERAGES. IMPG SOLAR PROTON MONITOR.

YEAR 1970

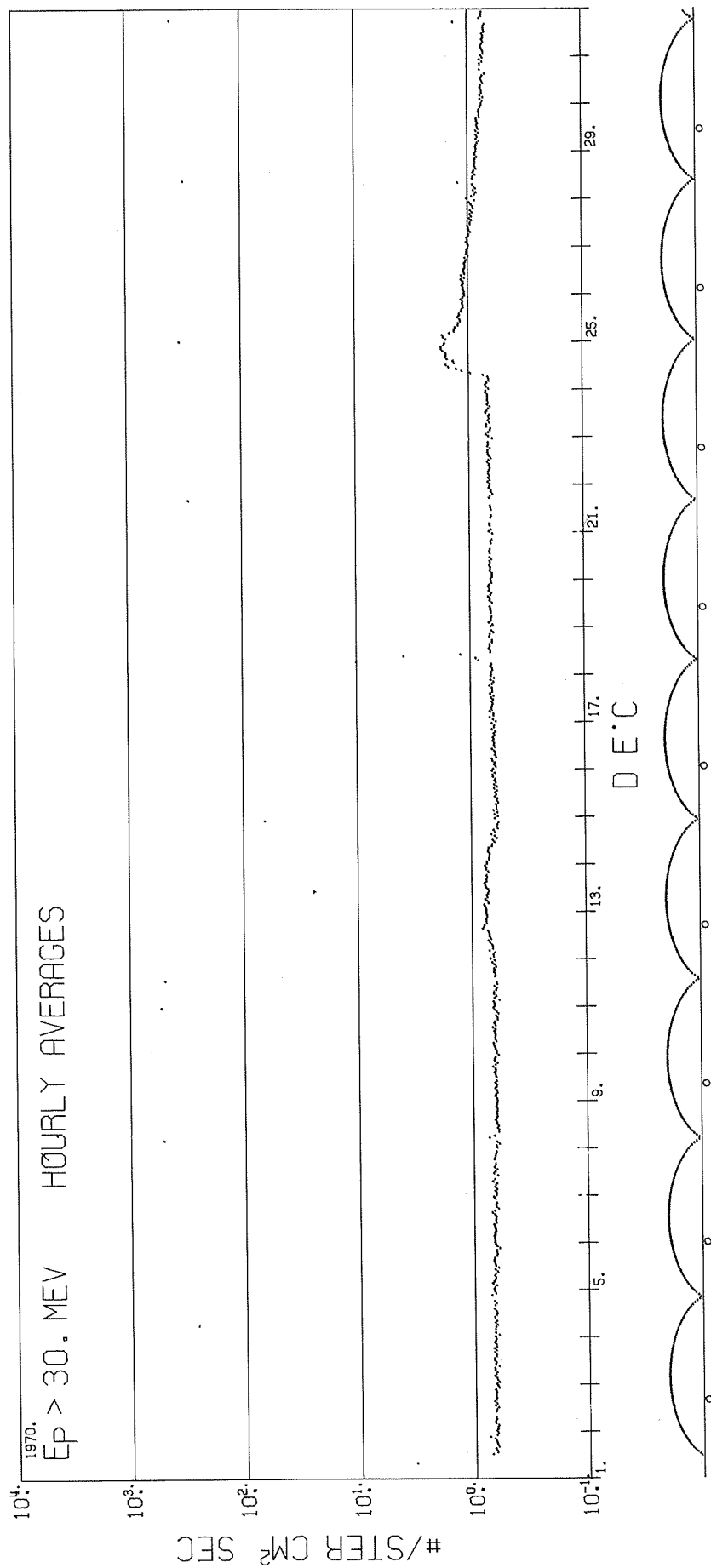
DATE DAY

3412H

OF YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
12 1	335	0.66	0.65	0.64	0.63	0.67	0.66	0.65					0.71	0.65	0.66	0.68	0.67	0.65	0.66	0.67	0.69	0.75	0.66	0.64
12 2	336	0.66	0.62	0.64	0.65	0.66	0.65	0.67	0.68	0.62	0.67	0.66	0.63	0.68	0.65	0.68	0.66	0.66	0.66	0.66	0.66	0.67	0.62	0.64
12 3	337	0.65	0.62	0.66	0.65	0.66	0.65	0.66	0.65				0.68	0.68	0.65	0.68	0.66	0.66	0.68	0.65	0.66	0.68	0.66	0.66
12 4	338	0.67	0.62	0.66	0.66	0.66	0.65	0.67	0.65	0.63	0.66	0.65	0.64	0.65	0.68	0.67	0.67	0.65	0.67	0.67	0.67	0.67	0.66	0.66
12 5	339	0.64	0.67	0.65	0.70	0.66	0.65	0.67	0.65	0.63	0.66	0.65	0.64	0.66	0.67	0.67	0.66	0.64	0.63	0.64	0.60	0.60	0.66	0.68
12 6	340	0.66	0.66	0.67	0.67	0.66	0.66	0.65	0.65	0.63	0.66	0.67	0.65	0.66	0.66	0.65	0.65	0.64	0.64	0.65	0.63	0.63	0.66	0.68
12 7	341	0.64	0.66	0.65	0.63	0.66	0.66	0.66	0.65	0.63	0.66	0.67	0.65	0.66	0.66	0.65	0.65	0.64	0.64	0.65	0.65	0.64	0.63	0.68
12 8	342	0.63	0.63	0.65	0.63	0.66	0.65	0.65	0.65	0.60	0.66	0.67	0.65	0.66	0.66	0.65	0.64	0.63	0.62	0.62	0.62	0.63	0.62	0.62
12 9	343	0.61	0.62	0.64	0.63	0.65	0.64	0.62	0.62	0.64	0.64	0.62	0.63	0.64	0.65	0.63	0.64	0.62	0.63	0.61	0.65	0.65	0.63	0.60
12 10	344	0.62	0.62	0.63	0.64	0.65	0.66	0.62	0.64	0.64	0.63	0.64	0.63	0.67	0.63	0.65	0.64	0.61	0.61	0.62	0.59	0.62	0.64	0.66
12 11	345	0.64	0.64	0.65	0.64	0.64	0.62	0.65	0.64	0.62	0.61	0.64	0.61	0.61	0.62	0.64	0.63	0.65	0.63	0.64	0.62	0.59	0.64	0.66
12 12	346	0.69	0.65	0.65	0.63	0.71	0.66	0.65	0.66	0.65	0.72	0.70	0.72	0.75	0.76	0.77	0.81	0.78	0.77	0.74	0.75	0.73	0.74	0.76
12 13	347	0.75	0.75	0.76	0.74	0.71	0.73	0.76	0.73	0.74	0.72	0.70	0.70	0.70	0.73	0.77	0.74	0.74	0.73	0.74	0.71	0.74	0.74	0.75
12 14	348	0.73	0.73	0.70	0.70	0.69	0.69	0.71	0.71	0.71	0.66	0.65	0.63	0.65	0.60	0.62	0.67	0.62	0.64	0.59	0.59	0.57	0.60	0.62
12 15	349	0.58	0.62	0.59	0.54	0.59	0.60	0.61	0.58	0.53	0.59	0.62	0.60	0.61	0.60	0.63	0.59	0.62	0.60	0.62	0.61	0.64	0.64	0.62
12 16	350	0.64	0.60	0.62	0.61	0.64	0.65	0.60	0.61	0.60	0.62	0.65	0.61	0.62	0.62	0.63	0.62	0.64	0.61	0.62	0.60	0.65	0.62	0.65
12 17	351	0.59	0.63	0.63	0.63	0.63	0.67	0.65	0.55	0.64	0.62	0.65	0.63	0.65	0.62	0.66	0.64	0.64	0.64	0.67	0.64	0.62	0.65	0.61
12 18	352	0.45	0.65	0.63	0.64	0.66	0.65	1.00	0.84	0.53	0.62	1.21	0.64	0.66	0.68	0.66	0.64	0.64	0.64	0.67	0.64	0.62	0.65	0.61
12 19	353	0.65	0.63	0.66	0.65	0.65	0.64	0.65	0.65	0.65	0.65	0.66	0.63	0.63	0.67	0.66	0.67	0.64	0.64	0.67	0.66	0.62	0.64	0.65
12 20	354	0.65	0.63	0.63	0.63	0.66	0.65	0.65	0.67	0.65	0.66	0.66	0.63	0.63	0.67	0.66	0.68	0.65	0.64	0.67	0.69	0.67	0.64	0.65
12 21	355	0.67	0.64	0.63	0.66	0.65	0.65	0.65	0.65	0.64	0.65	0.66	0.63	0.63	0.67	0.66	0.65	0.65	0.65	0.65	0.63	0.63	0.63	0.62
12 22	356	0.65	0.68	0.65	0.67	0.67	0.67	0.66	0.65	0.65	0.67	0.66	0.66	0.67	0.64	0.66	0.68	0.65	0.68	0.65	0.67	0.57	0.67	0.70
12 23	357	0.57	0.70	0.71	0.64	0.64	0.70	0.69	0.65	0.67	0.66	0.67	0.66	0.67	0.64	0.66	0.68	0.69	0.67	0.68	0.68	0.68	0.71	0.70
12 24	358	0.67	0.70	0.71	0.63	0.66	0.66	0.67	0.74	0.94	1.14	1.27	1.45	1.57	1.33	1.36	1.54	1.58	1.56	1.58	1.67	1.73	1.64	1.61
12 25	359	341	1.57	1.66	1.66	1.45	1.33	1.32	1.29	1.23	1.21	1.17	1.23	1.20	1.19	1.14	1.13	1.10	1.10	1.12	1.11	1.15	1.11	1.07
12 26	360	1.05	1.07	1.10	1.10	1.12	1.10	1.10	1.14	1.07	1.14	1.07	1.09	1.09	1.06	1.06	1.07	1.04	1.02	1.05	0.99	1.02	1.01	1.01
12 27	361	0.98	0.99	1.03	1.00	1.01	0.96	0.98	0.94	0.95	0.94	0.99	0.98	0.95	0.92	0.92	0.95	0.90	0.94	0.88	0.85	0.93	0.96	0.86
12 28	362	1.02	0.91	0.86	0.83	0.88	0.85	0.87	0.90	1.22	312	0.60	0.69	0.65	0.69	0.67	0.84	0.85	0.86	0.85	0.85	0.85	0.82	0.85
12 29	363	0.83	0.83	0.84	0.81	0.81	0.87	0.83	0.81	0.83	0.70	0.63	0.60	0.61	0.61	0.60	0.82	0.85	0.78	0.78	0.79	0.78	0.76	0.75
12 30	364	0.74	0.73	0.76	0.72	0.74	0.74	0.74	0.74	0.76	0.75	0.72	0.73	0.75	0.74	0.73	0.69	0.77	0.76	0.77	0.77	0.73	0.77	0.72
12 31	365	0.75	0.72	0.71	0.72	0.74	0.73	0.73	0.72	0.73	0.72	0.71	0.73	0.70	0.71	0.71	0.69	1.31	401	0.77	0.74	0.74	0.73	0.73

SOLAR PROTONS BY SATELLITE EXPLORER 41 (1969-53A)

DECEMBER 1970



DECEMBER 1970

JHU/APL AND GSFC

IMPG SOLAR PROTON MONITOR.

PROTON ENERGY GREATER THAN 10 MEV.

YEAR 1970

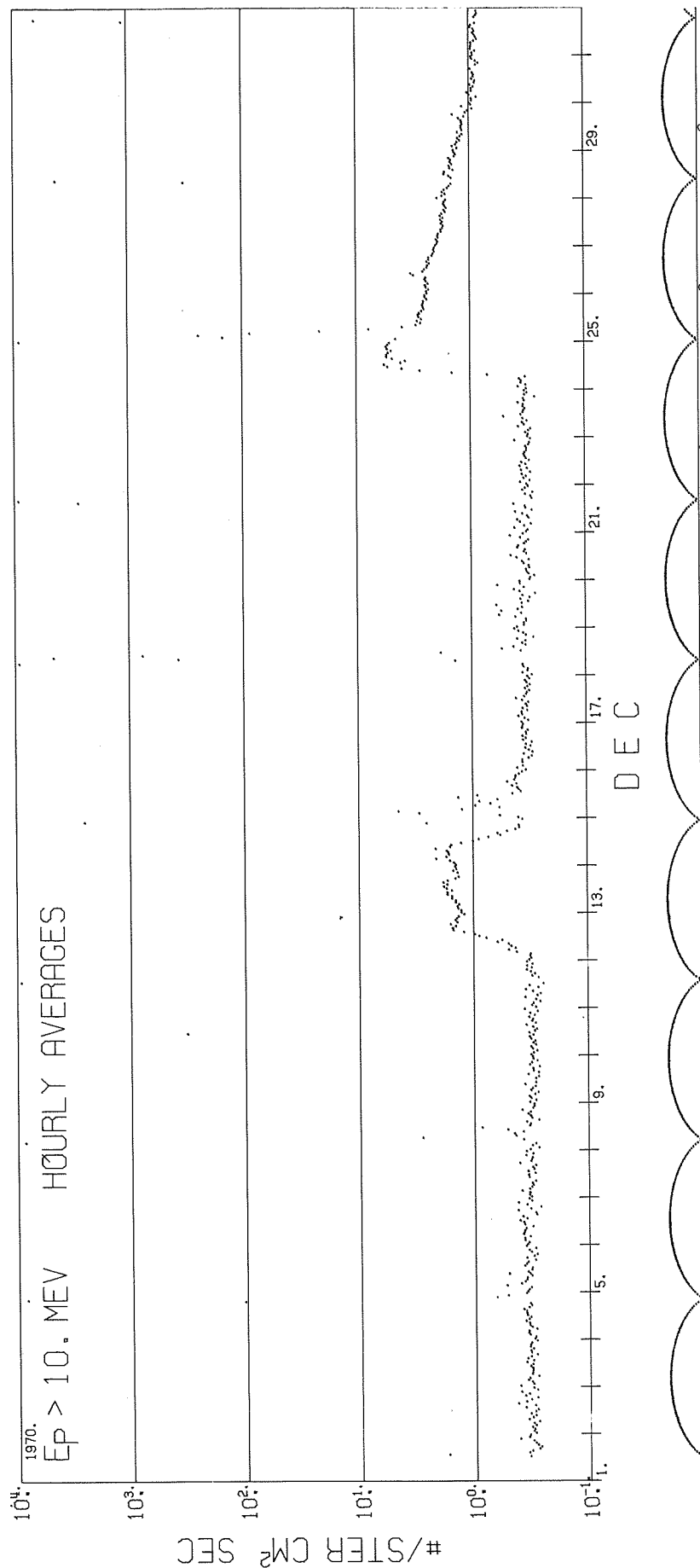
DATE DAY

अनुच्छेद ३४३

OF	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
12	1	336	0.30	0.31	0.32	0.30	0.31	0.28	0.35	0.32	0.30	0.33	0.30	0.34	1.73	0.34	0.32	0.28	0.27	0.29	0.30	0.32	0.41	0.35	0.30
12	2	336	0.30	0.31	0.32	0.35	0.34	0.32	0.32	0.32	0.32	0.33	0.32	0.36	0.31	0.30	0.43	0.36	0.33	0.29	0.37	0.34	0.40	0.29	0.30
12	3	337	0.41	0.31	0.32	0.35	0.34	0.28	0.32	0.32	0.32	0.33	0.32	0.36	0.31	0.35	0.33	0.29	0.33	0.33	0.33	0.33	0.33	0.32	0.29
12	4	338	0.30	0.30	0.34	0.34	0.34	0.29	0.33	0.34	0.36	0.34	0.33	0.35	0.36	0.36	0.34	0.34	0.32	0.33	0.33	0.48	0.65	0.52	0.30
12	5	339	0.35	0.34	0.32	0.53	0.40	0.37	0.35	0.32	0.33	0.34	0.32	0.32	0.37	0.36	0.35	0.30	0.35	0.30	0.29	0.32	0.34	0.29	0.30
12	6	340	0.35	0.34	0.37	0.33	0.33	0.36	0.37	0.36	0.31	0.37	0.37	0.40	0.35	0.38	0.29	0.29	0.42	0.33	0.26	0.35	0.42	0.32	0.30
12	7	341	0.32	0.33	0.33	0.36	0.33	0.32	0.31	0.29	0.33	0.33	0.34	0.29	0.34	0.30	0.31	0.29	0.40	0.32	0.32	0.31	0.35	0.31	0.30
12	8	342	0.33	0.27	0.31	0.29	0.573	0.37	0.45	0.43	0.44	0.37	0.51	0.56	0.33	0.32	0.35	0.27	0.31	0.32	0.34	0.32	0.31	0.30	0.30
12	9	343	0.33	0.29	0.32	0.33	0.29	0.27	0.32	0.31	0.29	0.36	0.29	0.39	0.27	0.34	0.27	0.30	0.30	0.27	0.32	0.38	0.31	0.30	0.30
12	10	344	0.31	0.30	0.28	0.31	0.31	0.29	0.30	0.29	0.32	0.32	0.30	0.33	0.29	0.27	0.30	0.27	0.30	0.27	0.32	0.31	0.28	0.30	0.30
12	11	345	0.26	0.31	0.30	0.24	0.26	0.35	0.28	0.25	0.30	0.35	0.27	0.32	0.24	0.30	0.35	0.29	0.31	0.30	0.33	0.29	0.32	0.28	0.30
12	12	346	0.33	0.31	0.32	0.32	0.42	0.43	0.43	0.47	0.49	0.62	0.55	0.77	0.59	0.58	0.30	0.29	0.31	0.29	0.32	0.34	0.31	0.34	0.30
12	13	347	0.27	0.36	0.37	0.36	0.33	0.43	0.42	0.54	0.54	0.69	0.69	0.84	0.71	0.68	0.57	0.61	0.50	0.42	0.39	0.39	0.41	0.47	0.35
12	14	348	0.41	0.47	0.59	0.12	0.71	0.62	0.64	0.70	0.87	0.60	0.53	0.90	0.45	0.34	0.35	0.40	0.45	0.41	0.49	0.42	0.42	0.36	0.30
12	15	349	0.40	0.58	0.54	0.49	0.24	0.58	0.55	0.70	0.87	0.60	0.53	0.90	0.45	0.34	0.35	0.40	0.45	0.41	0.49	0.42	0.42	0.36	0.30
12	16	350	0.34	0.40	0.34	0.34	0.36	0.37	0.32	0.30	0.35	0.29	0.32	0.34	0.31	0.35	0.33	0.34	0.32	0.31	0.33	0.34	0.31	0.30	0.30
12	17	351	0.37	0.32	0.35	0.30	0.36	0.37	0.33	0.36	0.33	0.34	0.32	0.36	0.34	0.30	0.36	0.34							

SOLAR PROTONS BY SATELLITE EXPLORER 41 (1969 53A)

DECEMBER 1970



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Publication Notice

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

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