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ENVIRONMENTAL RESEARCH LABORATORIES

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(Comprehensive Reports)

NUMBER 323-PART II
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JANUARY 1971
DECEMBER 1970
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DATA COMPILED BY AERONOMY AND SPACE DATA CENTER
BOULDER, COLORADO

WASHINGTON, D.C.
JULY 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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SOLAR FLARES
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JANUARY 1971

OBSERV-ATORY	OBSERVED UT DATE 1971 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION MIN.	IM-POR-TANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
909 PALE	01	0206	0221	0209	N10	W55	.832	11096	28.0	15	-N		C		.91				F 4
GRP35912	01	1539	1620	1547	S14	E23	.426	11101	3.4	41	--N				.62				2 1 1 2
MCMA	01	1539	1620		S14	E23	.426	11101	3.4	41	-N		C	1559	.62	.70			E
RAMY	01	1541	1607D	1547	S14	E24	.440	11101	3.5	26D	-F		C		.77				DE
913 PALE	01	1848	1858	1851	S16	W64	.900	11095	28.0	10	--F		C		.19				2
GRP35914	01	2013	2042	2020	N13	W34	.607	11097	30.3	29	-F				1.02				3 2 2 4
PALE	01	2013	2032D	2018	N13	W34	.607	11097	30.3	19D	-N		C		.91				F
RAMY	01	2019E	2042D	2022U	N13	W33	.594	11097	30.4	23D	-F		C		1.13				F
HUAN	01	2031E	2043D	2037U	N13	W34	.607	11097	30.3	12D	-N	1	P	2037	.35	.44			D
GRP35915	01	2016	2032	2020	N11	W67	.928	11096	27.8	16	--F				.38				3 3 3 4
PALE	01	2012	2032D	2017U	N11	W67	.928	11096	27.8	20D	-F		C		.72				F
HUAN	01	2018E	2025D	2021U	N11	W67	.928	11096	27.8	7D	-F	1	P	2021	.10				D
RAMY	01	2019	2031	2021	N11	W67	.928	11096	27.8	12	-F		C		.31				DE
916 HUAN	01	2100	2115	2108	N16	W34	.624	11097	30.3	15	--F	1	C	2108	.18	.23			D 3
917 HUAN	01	2152	2205	2155	S14	W66	.914	11095	28.0	13	--F	1	C	2155	.23				E 3
	01	2210	2214	NO FLARE PATROL															
	01	2218	2222	NO FLARE PATROL															
GRP35925	02	0940	0951	0944	S13	W70	.939	11095	28.2	11	--F				.21				4 4 3 5
CRON	02	0940	0950	0945	S15	W70	.939	11095	28.2	10	-N	2	C	0945	.22				
TEHR	02	0940	0951	0943	S14	W70	.939	11095	28.2	11	-N		C		.19				DE
HTRR	02	0941	0950	0945	S10	W70	.938	11095	28.2	9	-F		C	0945	.21				
ONDR	02	0947E	0952		S14	W68	.927	11095	28.3	5D	-F		V	0948			2.00		COH
GRP35927	02	1119	1128	1121	S13	W71	.944	11095	28.1	9	--N				.26				3 3 3 6
CANR	02	1118	1127	1120	S15	W70	.939	11095	28.2	9	-N	1	C	1120	.22				
HTRR	02	1119	1125	1120	S10	W70	.938	11095	28.2	6	-F		C	1120	.31				
RAMY	02	1124E	1131	1124E	S13	W72	.950	11095	28.1	7D	-N		C		.26				DE
GRP35929	02	1402	1411	1405	S14	W73	.955	11095	28.1	9	--F				.14				2 2 2 4
RAMY	02	1402	1412	1403	S14	W72	.950	11095	28.2	10	-N		C		.21				DE
HUAN	02	1402	1409	1406	S13	W73	.955	11095	28.1	7	-F	1	C	1406	.07				D
GRP35931	02	1500	1511	1504	S13	W73	.955	11095	28.2	11	--F				.32				3 3 2 4
HUAN	02	1459E	1503D	1503U	S14	W74	.960	11095	28.1	4D	-F	1	P	1503	.12				D
HTRR	02	1500	1511	1504	S10	W72	.950	11095	28.2	11	-F		C	1504	.52				
RAMY	02	1500	1510	1504	S14	W73	.955	11095	28.1	10	-N		C						DE
932 RAMY	02	1602	1627	1604	S12	W85	.995	11095	27.3	25	-N		C						DE 2
GRP35933	02	1644	1659	1647	N07	W54	.818	11097	29.6	15	--N				.27				3 3 3 4
RAMY	02	1643	1700	1647	N08	W50	.778	11097	29.9	17	-F		C		.52				DE
HUAN	02	1644	1658	1650	N07	W58	.855	11097	29.3	14	-N	1	C	1650	.18	.33			E
CANR	02	1644E	1658	1645	N06	W55	.826	11097	29.6	14D	-N	1	C	1645	.11	.19			
GRP35934	02	1757	1818	1810	N19	E85	.998	11112	9.2	21	-N								2 2 0 3
RAMY	02	1754	1810D		N17	E90	1.000	11112	9.5	16D	-N		V						DE
LOCK	02	1800	1825	1810	N21	E80	.990	11112	8.8	25	-F		C						
935 PALE	02	1925	1946	1929	S14	E08	.233	11101	3.4	21	--F		C		.36				3
GRP35937	03	0830	0840	0832	S09	W12	.229	11101	2.5	10	--F				.58				4 4 4 10
CRON	03	0829	0840	0833	S12	W12	.255	11101	2.5	11	-F	2	C	0833	.22	.22			
MONT	03	0829	0837	0831	S05	W11	.193	11101	2.5	8	-N		C	0831	1.13				
TEHR	03	0830	0842	0832	S12	W12	.255	11101	2.5	12	-F		C		.36				DE
HTRR	03	0830	0840	0832	S05	W12	.210	11101	2.5	10	-N		C	0832	.62	.60			C
940 TEHR	03	1230	1242	1232	S12	W12	.255	11101	2.6	12	--F		C		.36				DE 3
	03	1535	1605	NO FLARE PATROL															
GRP35941	03	1909	1922	1912	S12	W17	.325	11101	2.5	13	--N				.40				2 2 2 4
HUAN	03	1908	1922	1912	S12	W17	.325	11101	2.5	14	-N	1	P	1912	.43	.46			E
PALE	03	1910	1922	1912	S11	W17	.318	11101	2.5	12	-N		C		.36				F
944 CULG	04	0221	0416	0246	N23	W66	.936	11097	30.1	115	1N		C	0246	.83				UW 4
945 CULG	04	0348	0414	0356	N08	E88	1.000	11112	10.8	26	1N		C	0356	.52				4
946 TEHR	04	0413	0428	0414	N03	E01	.112	11105	4.3	15	--F		C		.36				DE 3

SOLAR FLARES
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OBSERVATORY	OBSERVED UT DATE 1971 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP35949	05	0346	0354	0347	N11	E72	.957	11112	10.6	8	-F				.47				2 2 2 5
CULG	05	0345	0356	0347	N10	E70	.945	11112	10.4	11	1N		C	0347	.72				
CRON	05	0346	0352	0347	N12	E73	.962	11112	10.6	6	-F	2	C	0347	.22				
GRP35950	05	0434	0443	0437	S06	E79	.981	11111	11.1	9	--F				.21				2 2 2 5
CRON	05	0433	0442	0436	S07	E79	.981	11111	11.1	9	-F	2	C	0436	.22				
TEHR	05	0435	0443	0437	S05	E78	.977	11111	11.0	8	-N		C		.19				DE
GRP35951	05	0755	0810	0755	S04	E68	.926	11111	10.4	15	--N				.28				4 4 4 7
TEHR	05	0752	0812	0755	S04	E68	.926	11111	10.4	20	-N		C		.19				DE
HTRR	05	0753	0808	0756	S02	E65	.906	11111	10.2	15	-F		C	0756	.31				
CRON	05	0753	0806	0755	S05	E69	.932	11111	10.5	13	-N	2	C	0755	.22				
MANI	05	0800	0815		S05	E70	.938	11111	10.6	15	-N	2		0805	.41	.88			
GRP35953	05	0905	0921	0912	S04	E67	.919	11111	10.4	16	-N				.54				6 5 4 9
TEHR	05	0859	0926	0902	S04	E67	.919	11111	10.4	27	-N		C		.28				F
CRON	05	0859E	0904		S06	E65	.905	11111	10.2	5D	-F		V		.45				
CANR	05	0908	0922	0913	S05	E66	.912	11111	10.3	14	-N	2	C	0913	.43				
CRON	05	0909	0920	0911	S04	E69	.933	11111	10.6	11	-N	2	C	0911	.22				
HTRR	05	0910E	0920		S02	E64	.898	11111	10.2	10D	1N		C	0912	1.24				
ISTA	05	0910	0917		S05	E70	.938	11111	10.6	7	-F								B
WEND	05	0916E	0934D		S07	E67	.919	11111	10.4	18D	1N		V		3.09				
GRP35957	05	1242	1303	1246	S05	E66	.912	11111	10.5	21	-N				1.69				2 2 2 5
WEND	05	1233	1242		S08	E66	.912	11111	10.5	9	-N								
WEND	05	1239	1251D		S05	E64	.897	11111	10.3	12D	1N		P		3.09				
TEHR	05	1244	1303	1246	S03	E66	.913	11111	10.5	19	-N		C		.28				DE
	05	2156	2204	NO FLARE PATROL															
GRP35960	06	0725	0736	0727	N11	E52	.806	11112	10.2	11	-N				.66				4 4 4 7
CRON	06	0724	0734	0727	N10	E51	.794	11112	10.1	10	-N	2	C	0727	.43	.70			
TEHR	06	0725	0738	0728	N12	E51	.799	11112	10.1	13	-N		C		.28				DE
CATA	06	0726E	0735	0726	N11	E51	.797	11112	10.1	9D	-N		P	0726	.58	.99		166	
ABST	06	0726	0736	0728	N11	E53	.816	11112	10.3	10	1F		C	0728	1.35	2.20		55	EJ
GRP35962	06	1255	1309	1258	S14	E39	.641	11110	9.5	14	--N				.21				2 2 2 5
TEHR	06	1254	1310	1258	S14	E39	.641	11110	9.5	16	-N		C		.19				DE
CANR	06	1255	1307	1258	S14	E39	.641	11110	9.5	12	-N	2	C	1258	.22	.28			
4 STATIONS REPORTING GROUP 35963. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP35963	06	2003	2037	2008	S05	E48	.742	11111	10.4	34	--F				.87				4 4 2 5
LOCK	06	2002	2014	2005	S05	E50	.765	11111	10.6	12	-F		C						
RAMY	06	2002	2050	2006	S04	E50	.765	11111	10.6	48	-N		C		.83				F
BOUL	06	2006	2050	2012	S06	E44	.693	11111	10.1	44	-F	1	V						
PALE	06	2007E	2033D	2007E	S06	E48	.742	11111	10.4	26D	-F		C		.91				F
35963	06	2011	2040	2026	S05	E50	.765	11111	10.6	29	*-F				1.03				2 2 1 4
RAMY	06	2002	2050	2028	S04	E50	.765	11111	10.6	48	-N				1.03				
LOCK	06	2019	2030	2023	S05	E50	.765	11111	10.6	11	-F		C						
964 RAMY	06	2011	2058D	2058D	N12	E50	.789	11112	10.6	47D	--F		C		.62				DE 3
GRP35965	06	2105	2150	2114	N11	E48	.765	11112	10.5	45	-N				1.22				3 3 2 3
LOCK	06	2105	2150	2113	N11	E48	.765	11112	10.5	45	-N		C						K
LOCK	06	2105	2150	2139	N11	E48	.765	11112	10.5	45	-F		C						K
BOUL	06	2107U	2146U	2113U	N10	E48	.763	11112	10.5	39D	-N	1	C	2113	1.08	1.66			
PALE	06	2116E	2129D	2116E	N11	E49	.776	11112	10.6	13D	-N		C		1.35				FDE
GRP35966	06	2338	2353	2344	S05	E49	.753	11111	10.7	15	--F				1.44				2 2 1 3
LOCK	06	2338	2356	2344	S05	E50	.765	11111	10.7	18	-F		C						
MITK	06	2344E	2349		S05	E47	.730	11111	10.5	5D	-N		C	2344	1.44	2.00			D
GRP35967	07	0323	0359	0334	S04	E43	.681	11111	10.4	36	-N				1.41				6 5 5 8
MITK	07	0321	0408	0326	S03	E43	.681	11111	10.4	47	-N		C	0326	1.34	1.80			
VORO	07	0322	0359	0335	S03	E44	.694	11111	10.4	37	1F		C	0335	2.31	3.10		80	EJ
PALE	07	0323E	0341D	0324U	S04	E43	.681	11111	10.4	18D	-N		C		.99				FDE
CRON	07	0324	0354	0331	S05	E43	.681	11111	10.4	30	-N	2	C	0331	.54	.73			
MANI	07	0325	0356		S05	E44	.693	11111	10.4	31	-N	2		0326	1.86	2.61			
TEHR	07	0353E	0411	0355U	S03	E45	.706	11111	10.5	18D	-N		C		.19				DE
GRP35968	07	0433	0447	0435	S04	E43	.681	11111	10.4	14	--N				.67				2 2 2 6
MANI	07	0432	0439	0435	S05	E44	.693	11111	10.5	7	-N	2		0435	.52	.73			
TEHR	07	0434	0454	0435	S03	E42	.668	11111	10.3	20	-N		C		.81				DE
GRP35971	07	0829	0848	0835	N09	E41	.679	11112	10.4	19	--F				.35				3 3 3 9
HTRR	07	0825	0858	0836	N08	E42	.688	11112	10.5	33	-F		C	0836	.21	.30			
ARCE	07	0830	0840	0835	N10	E40	.671	11112	10.4	10	-F		C	0835	.55	.70			
TEHR	07	0833	0846	0835	N10	E42	.695	11112	10.5	13	-N		C		.28				DE

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	1971 JAN																		
6 STATIONS REPORTING GROUP 35972. 4 STATIONS OBSERVING AND NOT REPORTING.																			
GRP35972	07	0957	1003	0959	S02	E40	.643	11111	10.4	6	--F				.41				4 4 4 9
ARCE	07	0955	0959	0956	S02	E40	.643	11111	10.4	4	-F		C	0956	.45	.60			I
TEHR	07	0957	1007	0959	S00	E40	.645	11111	10.4	10	-N		C		.36				DE
CRON	07	0958	1003	0959	S01	E38	.616	11111	10.3	5	-N	2	C	0959	.43	.55			
CAPS	07	0959	1003		S03	E42	.668	11111	10.6	4	-F	3	V	0959	.40	.50		155	
35972	07	0856	1006	0856	S05	E44	.693	11111	10.7	70	*-F				.27				2 2 2 9
CATA	07	0853E	0900D	0853	S07	E48	.742	11111	11.0	7D	-F		P	0853	.23	.35		148	
HTRR	07	0858	1006	0859	S02	E40	.643	11111	10.4	68	-F		C	0859	.31	.40			
GRP35976	07	2132	2157	2148	S14	E47	.737	11114	11.4	25	--F				.35				2 2 2 4
PALE	07	2125	2158D	2149U	S14	E46	.726	11114	11.3	33D	-F		C		.55				F
HUAN	07	2139	2155	2146	S14	E47	.737	11114	11.4	16	-F	1	P	2146	.15	.23			E
GRP35977	07	2154	2201	2157	S05	E33	.544	11111	10.4	7	--F				.38				2 2 2 3
HUAN	07	2154	2201	2156	S05	E33	.544	11111	10.4	7	-N	1	C	2156	.33	.39			E
PALE	07	2154	2158D	2158D	S05	E32	.529	11111	10.3	4D	-F		C		.42				DE
GRP35979	08	0058	0104	0100	S08	E39	.629	11111	11.0	6	--F				.43				2 2 2 4
PALE	08	0058	0106	0100	S08	E38	.616	11111	10.9	8	-F		C		.63				F
CRON	08	0058	0101	0059	S07	E39	.629	11111	11.0	3	-N	2	C	0059	.22	.28			
GRP35981	08	0519	0543	0524	S04	E31	.514	11111	10.5	24	--N				.30				2 2 2 5
TEHR	08	0517	0548	0523	S03	E31	.514	11111	10.5	31	-N		C		.28				DE
CRON	08	0520	0537	0524	S04	E31	.514	11111	10.5	17	-N	2	C	0524	.32	.38			
GRP35985	08	1630	1644	1635	S12	E08	.198	11110	9.3	14	--F				.46				2 2 2 3
HUAN	08	1628	1633D	1633U	S12	E07	.186	11110	9.2	5D	-F	1	P	1633	.30	.30			E
RAMY	08	1632	1644	1636	S11	E09	.199	11110	9.4	12	-N		C		.62				DE
986 RAMY	08	1753	1812		S18	E82	.988	11118	14.9	19	-N		C						DE 2
987 RAMY	08	1818	1840	1825	S04	E18	.308	11111	10.1	22	--F		C		.31				DE 2
	08	2133	2150	NO FLARE PATROL															
	08	2151	2206	NO FLARE PATROL															
GRP35988	09	0142	0150	0144	S05	E13	.225	11111	10.0	8	--F				.29				2 2 2 6
CRON	09	0140	0151	0143	S05	E13	.225	11111	10.0	11	-N	2	C	0143	.22	.22			
PALE	09	0144	0148	0144	S05	E13	.225	11111	10.0	4	-F		C		.36				H
GRP35989	09	0239	0242	0240	S04	E13	.224	11111	10.1	3	--N				.60				3 3 3 6
PALE	09	0239	0243	0241	S04	E13	.224	11111	10.1	4	-N		C		.45				
CRON	09	0239	0242	0240	S04	E13	.224	11111	10.1	3	-N	1	C	0240	.43	.43			
MITK	09	0239	0242	0240	S03	E13	.225	11111	10.1	3	-N		C	0240	.93	.90			DH
GRP35995	09	1041	1049	1045	S04	E10	.173	11111	10.2	8	--F				.49				3 3 3 9
CRON	09	1040E	1048		S05	E12	.208	11111	10.3	8D	-F		V		.40				
MONT	09	1042	1047	1043	S03	E09	.157	11111	10.1	5	-N		C	1043	.77				
HTRR	09	1042	1051	1046	S03	E08	.140	11111	10.0	9	-F		C	1046	.31	.30			
GRP35996	09	1107	1113	1109	S03	E09	.157	11111	10.1	6	-N				1.07				3 3 3 9
TEHR	09	1106	1112	1108	S03	E09	.157	11111	10.1	6	-N		C		.23				DE
HTRR	09	1107	1114	1109	S03	E08	.140	11111	10.1	7	-N		C	1109	.72	.70			
MONT	09	1107	1110D	1109	S03	E09	.157	11111	10.1	3D	-N		C	1109	2.27				
GRP35998	09	1306	1320	1313	S02	E12	.210	11111	10.4	14	--F				.75				5 5 5 9
RAMY	09	1305	1321	1309	S02	E13	.227	11111	10.5	16	-F		C		.41				DE
CAPS	09	1305E	1319		S03	E13	.225	11111	10.5	14D	-F		V	1308	.70	.70		155	
HUAN	09	1306	1321	1315	S03	E12	.208	11111	10.4	15	-N	1	C	1315	.28	.28			E
HTRR	09	1308	1320	1313	S02	E11	.193	11111	10.4	12	-F		C	1313	.31	.30			E
LVOV	09	1310E	1320D	1313	S02	E10	.177	11111	10.3	10D	-N		C	1313	2.06	2.05		65	EIK
GRP35999	09	1425	1441	1432	S04	E07	.122	11111	10.1	16	--F				.38				2 2 2 6
HTRR	09	1422	1445	1433	S03	E07	.123	11111	10.1	23	-F		C	1434	.52	.50			
HUAN	09	1428	1437	1431	SU4	E07	.122	11111	10.1	9	-N	1	C	1431	.23	.23			E
7 STATIONS REPORTING GROUP 36000. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36000	09	1454	1615	1506	N14	W28	.545	11108	7.5	81	-N				2.21				7 6 6 7
HTRR	09	1445	1601D	1507	N15	W28	.553	11108	7.5	76D	1N		C	1507	1.75	2.10			GW
RAMY	09	1452	1600	1503	N13	W29	.550	11108	7.4	68	-F		C		1.34				DE
HUAN	09	1454	1645	1512	N13	W27	.525	11108	7.6	111	-N	1	P	1512	1.19	1.40			E
CANR	09	1455	1503D	1502	N15	W26	.529	11108	7.7	8D	-N	1	C	1502	1.18	1.43			
MONT	09	1459	1515D	1505	N17	W28	.569	11108	7.5	16D	1B		C	1505	5.67				
CAPS	09	1500	1514D		N12	W32	.582	11108	7.2	14D	1F	1	S	1505	2.10	2.40		145	
MCMA	09	1532E	1630D		N12	W24	.480	11108	7.8	58D	-B		P	1532	.93	1.10			E

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	1971 JAN																		
36000	09	1458	1546	1517	N16	W17	.439	11108	8.3	48	*-N				.53				3 3 2 5
HTRR	09	1448	1601D	1524	N15	W20	.460	11108	8.1	73D	-N		C	1524	.62	.70			G
RAMY	09	1456	1539	1515	N15	W18	.438	11108	8.3	43	-F								
HUAN	09	1457	1645	1512	N14	W19	.438	11108	8.2	108	-N	1	P	1512	.25	.28			E
HTRR	09	1500	1601D	1516	N20	W15	.471	11108	8.5	61D	-F		C	1516	.21	.20			DG
HUAN	09	1507	1537	1515	N19	W14	.450	11108	8.6	30	-F	1	C	1515	.18	.20			D
36000	09	1456	1539	1503	N14	W19	.438	11108	8.2	43	*-F				1.38				3 3 3 6
RAMY	09	1456	1539	1500	N15	W18	.438	11108	8.3	43	-F		C		.67				U
MONT	09	1459	1515D	1506	N15	W18	.438	11108	8.3	16D	-N		C	1506	2.27				
CAPS	09	1500	1514D		N12	W22	.455	11108	8.0	14D	-F	1	S	1505	1.20	1.40		145	
GRP36001	09	1505	1532	1514	S11	E44	.697	11116	12.9	27	--F				.53				4 4 4 5
HTRR	09	1455	1545	1515	S11	E44	.697	11116	12.9	50	-F		C	1515	.72	1.00			U
CAPS	09	1506E	1514D		S10	E43	.683	11116	12.9	8D	-F	1	S	1507	.70	1.00		140	
HUAN	09	1506E	1523	1512	S11	E45	.709	11116	13.0	17D	-N	1	P	1512	.25	.34			E
RAMY	09	1511	1529	1514	S11	E45	.709	11116	13.0	18	-F		C		.46				DE
GRP36005	09	1651	1733	1701	S05	E07	.123	11111	10.2	42	--F				.59				3 3 2 4
HUAN	09	1648	1811	1708	S04	E09	.156	11111	10.4	83	-N	2	C	1708	.40	.41			E
RAMY	09	1650	1720	1656	S04	E07	.122	11111	10.2	30	-F		C		.77				DE
LOCK	09	1651	1730	1700	S04	E06	.104	11111	10.2	39	-F		C						
HUAN	09	1651	1655	1653	S04	E06	.104	11111	10.2	4	-F	1	C	1653	.23	.23			E
HUAN	09	1742	1748	1744	S08	E09	.171	11111	10.4	6	-F	1	C	1744	.12	.13			D
GRP36007	09	1740	1747	1743	S03	E05	.088	11111	10.1	7	--F				.35				2 2 1 3
HUAN	09	1740	1744	1742	S03	E05	.088	11111	10.1	4	-N	2	C	1742	.35	.35			D
LOCK	09	1740	1750	1743	S03	E05	.088	11111	10.1	10	-F		C						
GRP36009	09	1841	1856	1846	S12	E41	.661	11116	12.9	15	--F				.23				2 2 2 4
RAMY	09	1840	1855	1843	S12	E42	.673	11116	12.9	15	-F		C		.41				DE
HUAN	09	1841	1856	1848U	S11	E40	.646	11116	12.8	15	-F	1	P	1848	.05	.07			D
010 LOCK	09	1911	1919	1914	S03	E05	.088	11111	10.2	8	--F		C						3
GRP36011	09	2054	2107	2057	N15	E07	.344	11112	10.4	13	--F				.47				2 2 2 2
RAMY	09	2054	2106	2056	N15	E07	.344	11112	10.4	12	-F		C		.62				DE
BOUL	09	2056U	2107U	2058U	N14	E07	.329	11112	10.4	11D	-N	1	C	2058	.32	.34			
012 RAMY	09	2059	2120D	2104	S12	W07	.185	11110	9.3	21D	--F		C		.83				DE 2
GRP36013	09	2259	2342	2315	S04	E06	.104	11111	10.4	43	-B				2.50				2 2 2 3
CULG	09	2259	2359	2318	S03	E07	.123	11111	10.5	60	1B		C	2318	3.71	3.60			Z
CRON	09	2259	2325	2312	S04	E04	.070	11111	10.3	26	-N	2	C	2312	1.29	1.30			
CRON	09	2259	2325	2302	S05	E04	.072	11111	10.3	26	-N	1	C	2302	.54	.54			
GRP36017	10	1140	1207	1145	S03	W02	.039	11111	10.3	27	--N				.56				5 5 5 9
TEHR	10	1140	1210	1142	S03	W04	.072	11111	10.2	30	-N		C		.32				HDE
HTRR	10	1140	1215	1142	S03	W02	.039	11111	10.3	35	-F		C	1142	.41	.40			
CANR	10	1140	1202	1143	S04	W02	.035	11111	10.3	22	-N	2	C	1143	.65	.65			
CAPS	10	1145E	1203D		S03	E01	.025	11111	10.6	18D	-N		V	1146	.50	.50		160	
ABST	10	1152E	1205D	1152	S04	W02	.035	11111	10.3	13D	-F		P	1152	.90	.90		49	DJ
GRP36018	10	1550	1625	1556	S05	W10	.174	11111	9.9	35	--F				.53				2 2 2 4
CANR	10	1550	1625	1556	S05	W10	.174	11111	9.9	35	-N	2	C	1556	.54	.54			
CANR	10	1550	1625	1614	S05	W10	.174	11111	9.9	35	-N	2	C	1614	.32	.32			
RAMY	10	1555E	1600D	1555E	S05	W09	.157	11111	10.0	5D	-F		C		.52				DE
GRP36019	10	1725	1810	1743	S05	W05	.089	11111	10.4	45	-N				1.34				3 3 1 3
RAMY	10	1716	1758D	1749	S06	W05	.093	11111	10.3	42D	-N		C		1.34				
RAMY	10	1716	1758D	1720	S06	W05	.093	11111	10.3	42D	-N				1.03				DE
BOUL	10	1728	1815	1740	S05	W03	.055	11111	10.5	47	-N	1	V						
LOCK	10	1730	1805	1739	S03	W06	.106	11111	10.3	35	-N		C						
020 RAMY	10	1733	1739D	1735	N17	E66	.930	11119	15.7	6D	--F		C						DE 3
021 RAMY	10	1753E	1758D		N27	E70	.962	11119	16.0	5D	--F		C						DE 3
GRP36022	10	1823	1838	1826	N22	E68	.947	11119	15.9	15	-N				.64				2 2 1 3
RAMY	10	1822	1839D	1825	N23	E68	.949	11119	15.9	17D	-N		C						DE
BOUL	10	1824	1837	1826	N21	E67	.941	11119	15.8	13	-N	1	C	1826	.64				
023 LOCK	10	2044	2055	2046	S07	W05	.101	11111	10.5	11	--F		C						1
024 LOCK	10	2100	2109	2102	S04	W11	.190	11111	10.1	9	--F		C						H 1
GRP36026	10	2304	2319	2310	S05	W14	.242	11111	9.9	15	--F				.54				2 2 1 2
LOCK	10	2302	2319	2309	S05	W14	.242	11111	9.9	17	-F		C						H
CRON	10	2305	2313D	2310	S05	W13	.225	11111	10.0	8D	-F	1	C	2310	.54	.54			

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GRP36027	11	0005	0027	0008	S04	W09	.156	11111	10.3	22	--F				1.38				3 3 3 4
CULG	11	0004	0055	0011	S03	W06	.106	11111	10.6	51	1N		C	0011	2.58	2.50			
MITK	11	0005	0018	0007	S03	W10	.174	11111	10.3	13	-F		C	0007	.93	.90			E
MANI	11	0007E	0007	0007	S05	W10	.174	11111	10.3		-F	2		0007	.62	.63			
GRP36030	11	0210	0220	0213	S04	W13	.224	11111	10.1	10	--N				.61				4 4 4 6
MANI	11	0202	0218	0207	S05	W11	.191	11111	10.3	16	-N	2		0207	.41	.42			
CRON	11	0208E	0216	0208E	S04	W12	.207	11111	10.2	8D	-N		V		.60				
MANI	11	0210	0221	0212	S03	W11	.191	11111	10.3	11	-N	2		0212	.93	.95			
VORO	11	0212	0219	0214	S04	W14	.241	11111	10.0	7	-B		C	0214	.46	.50		73	Y
PALE	11	0213E	0224D	0216U	S04	W14	.241	11111	10.0	11D	-N		C		.45				F
032 CULG	11	0413	0428	0417	N24	E65	.935	11119	16.1	15	1B		C	0417	.83				3
GRP36033	11	0445	0503	0447	N22	E62	.913	11119	15.8	18	--N				.41				2 2 2 3
MANI	11	0444	0505	0445	N21	E63	.918	11119	15.9	21	-N	2		0445	.41	.84			
CRON	11	0445	0500	0448	N22	E61	.907	11119	15.8	15	-N		V		.40				
034 CRON	11	0710	0716	0712	S09	W14	.254	11111	10.2	6	--F	1	C	0712	.32	.32			1
GRP36035	11	0713	0721	0718	S04	W17	.292	11111	10.0	8	--N				.50				1 1 1 1
CRON	11	0713	0720	0716	S04	W18	.308	11111	10.0	7	-N	1	C	0716	.22	.23			
CRON	11	0714	0721	0718	S05	W17	.292	11111	10.0	7	-N		V		.50				
2 STATIONS REPORTING GROUP 36036. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36036	11	0820	0839	0822	S05	W18	.308	11111	10.0	19	--F				.73				2 2 2 3
ARCE	11	0820	0825D	0820	S06	W19	.326	11111	9.9	5D	-F		C	0825	.55	.60			
ABST	11	0821E	0839	0824	S04	W17	.292	11111	10.1	18D	-F		P	0824	.90	.90		54	EJ
036 ARCE	11	0814E	0835		S08	W10	.185	11111	10.6	21D	*-F		C	0814	.48	.50			I 3
037 ARCE	11	0814E	0820		N19	E52	.830	11119	15.2	6D	--N		C	0814	.58	1.10			3
GRP36043	11	1001	1006	1003	N20	E53	.842	11119	15.4	5	--F				.64				2 2 2 7
ARCE	11	1000	1001D		N20	E51	.825	11119	15.2	1D	-N		C	1001	.64	1.20			
ABST	11	1001	1006	1003	N19	E55	.856	11119	15.5	5	-F		C	1003	.63	1.20		52	EJ
GRP36044	11	1034	1046	1037	S04	W20	.341	11111	9.9	12	--F				.57				4 4 3 6
ABST	11	1033	1045	1037	S04	W19	.325	11111	10.0	12	-F		C	1037	.63	.70		59	EJ
CANR	11	1033	1050	1037	S04	W20	.341	11111	9.9	17	-N	2	C	1037	.65	.69			
MEUD	11	1034	1045	1038	S04	W19	.325	11111	10.0	11	-F		C						
CRON	11	1035	1043	1037	S04	W21	.358	11111	9.9	8	-N	2	C	1037	.43	.46			
GRP36047	11	1223	1236	1229	S10	W17	.307	11111	10.2	13	--F				.48				5 5 3 6
ABST	11	1222	1227D	1226	S09	W16	.286	11111	10.3	5D	-F		P	1226	.81	.80		52	DJ
CANR	11	1222	1236	1234	S10	W17	.307	11111	10.2	14	-N	2	C	1234	.22	.23			
ONDR	11	1223	1235	1231	S11	W18	.327	11111	10.2	12	-F		V	1231			1.90		CH
MEUD	11	1223	1238	1228	S10	W17	.307	11111	10.2	15	-F		C						
CATA	11	1225E	1230D	1225	S10	W17	.307	11111	10.2	5D	-N		P	1225	.40	.43		158	
GRP36048	11	1508	1513	1509	N21	E55	.861	11119	15.8	5	--F				.52				2 2 2 3
RAMY	11	1507	1509D	1509D	N22	E55	.864	11119	15.8	2D	-F		C		.62				DE
MEUD	11	1508	1513D		N20	E55	.858	11119	15.8	5D	-F		C	1512	.41	.80			D
GRP36049	11	1513	1536	1525	N21	E54	.853	11119	15.7	23	-N				.63				2 2 2 3
CANR	11	1513	1536	1525	N22	E53	.848	11119	15.6	23	-N	1	C	1525	.54	1.02			
MEUD	11	1518E	1520D		N20	E55	.858	11119	15.8	2D	-N		C	1519	.72	1.30			
	11	1722	1822	NO FLARE PATROL															
050 RAMY	11	1825E	1835	1827	S03	W18	.309	11111	10.4	10D	--N		V		.52				DE 1
	11	1900	2202	NO FLARE PATROL															
051 CRON	11	2212E	2226		S05	W20	.341	11111	10.4	14D	-N		V		1.00				3
	11	2248	2302	NO FLARE PATROL															
GRP36053	12	0123	0127	0125	N22	E45	.780	11119	15.4	4	--B				.30				2 2 2 5
CRON	12	0122	0128	0125	N21	E45	.775	11119	15.4	6	-N	1	C	0125	.22	.34			
VORO	12	0123	0126	0124	N23	E44	.775	11119	15.4	3	-B		C	0124	.37	.60		79	Y
GRP36057	12	0629	0644	0637	S06	W26	.438	11111	10.3	15	--F				.47				3 3 3 6
TEHR	12	0629	0646	0634	S07	W23	.392	11111	10.5	17	-F		C		.36				DE
ABST	12	0634E	0645D	0638	S05	W27	.453	11111	10.2	11D	-F		P	0638	.54	.60		47	DJ
CRON	12	0635E	0642	0638E	S05	W29	.483	11111	10.1	7D	-F		V		.50				

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GRP36062	12	0909	0921	0912	S08	W29	.486	11111	10.2	12	--F				.65				3 3 2 11
ABST	12	0909	0925	0911	S10	W28	.475	11111	10.3	16	-F		P	0911	.99	1.10		58	DJ
CANR	12	0909	0915	0910	S06	W30	.499	11111	10.1	6	-N	2	V	0910		.20			
CRON	12	0915E	0922	0915E	S08	W28	.471	11111	10.3	7D	-F		V		.30				
	12	1725	1814	NO FLARE PATROL															
	12	1912	1927	NO FLARE PATROL															
065 RAMY	12	2042	2124	2044	S10	W34	.562	11111	10.3	42	--N		C		.41				DE 1
066 RAMY	12	2115	2133	2118	N22	E46	.789	11119	16.3	18	-N		C		.72				DE 1
067 RAMY	12	2130	2151D	2135	S05	W35	.572	11111	10.3	21D	-N		C		1.24				DE 1
	12	2151	2226	NO FLARE PATROL															
068 CRON	12	2311E	2322		S04	W39	.628	11111	10.0	11D	--N		V		.35				2
GRP36069	12	2352	0026	2358	S07	W36	.587	11111	10.3	34	1B				2.20				3 3 3 3
CULG	12	2352	0031	2357	S09	W36	.589	11111	10.3	39	1B		C	2357	3.71	4.50			RVZ
CRON	12	2355E	0016	2358E	S08	W37	.601	11111	10.2	21D	1B		V		1.75				
MANI	12	2356E	0030	2358	S05	W35	.572	11111	10.4	34D	-N	2		2358	1.13	1.38			
070 CRON	13	0305	0315	0311	S09	W39	.629	11111	10.2	10	--F		V		.40				3
071 TEHR	13	0417	0433	0420	S05	W39	.628	11111	10.3	16	--N		C		.28				HDE 4
GRP36072	13	0450	0510	0453	S08	W41	.655	11111	10.1	20	--F				.34				2 2 2 4
TEHR	13	0447	0517	0450	S09	W40	.643	11111	10.2	30	-N		C		.28				DE
CRON	13	0452	0503	0455	S08	W41	.655	11111	10.1	11	-F		V		.40				
CRON	13	0456	0458	0457	S06	W42	.667	11111	10.1	2	-F		V		.30				
073 TEHR	13	0515	0556	0520	N22	E40	.733	11119	16.2	41	--F		C		.28				SDE 3
GRP36074	13	1223	1243	1236	N14	E69	.945	11123	18.7	20	--F				.31				2 2 2 7
MEUD	13	1222	1245	1234	N14	E68	.939	11123	18.6	23	-F		C	1234	.31				D
HTRR	13	1224	1240	1237	N13	E70	.949	11123	18.8	16	-F		C	1237	.31				
GRP36075	13	1237	1253	1239	S15	E23	.423	11121	15.3	16	--F				.52				2 2 2 7
RAMY	13	1236	1251	1238U	S15	E23	.423	11121	15.3	15	-F		C		.52				DE
MEUD	13	1238	1255	1240	S15	E22	.409	11121	15.2	17	-F		C	1240	.52	.50			E
GRP36077	13	1330	1347	1332	N20	E35	.671	11119	16.2	17	--F				.69				3 3 3 5
RAMY	13	1329	1350	1332U	N19	E36	.675	11119	16.3	21	-F		C		.41				DE
HTRR	13	1330	1344	1332	N20	E33	.650	11119	16.0	14	-N		C	1332	1.24	1.60			
HUAN	13	1330	1346	1332U	N22	E35	.685	11119	16.2	16	-F	2	P	1332	.43	.58			E
3 STATIONS REPORTING GROUP 36081. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36081	13	1853	1927	1859	S10	W47	.731	11111	10.3	34	-N				1.10				3 3 3 3
RAMY	13	1853	1931	1859	S10	W47	.731	11111	10.3	38	-B		C		1.34				DE
BOUL	13	1856E	1910D	1901U	S10	W47	.731	11111	10.3	14D	-N	1	C	1901	1.40	2.07			
HUAN	13	1858E	1923	1858U	S11	W46	.720	11111	10.3	25D	-N	2	P	1858	.56	.82			E
081 RAMY	13	1855	1910	1858	S21	W43	.706	11111	10.6	15	*-N		C		.41				DE 4
083 RAMY	13	2104E	2118	2106	S24	W62	.889	11124	9.2	14D	--N		C		.41				DE 1
084 RAMY	13	2109	2122	2113	N15	E65	.922	11123	18.8	13	--F		C		.36				DE 1
	13	2149	2221	NO FLARE PATROL															
085 CRON	13	2221E	2227		S06	W54	.807	11111	9.9	6D	--F		V		.40				2
GRP36087	14	0224	0237	0229	S23	W64	.902	11124	9.3	13	-N				.71				5 5 5 6
CULG	14	0219	0234D	0225	S22	W64	.901	11124	9.3	15D	1N		P	0225	1.13				
CRON	14	0219	0240	0223	S22	W65	.908	11124	9.2	21	-N	1	C	0223	.65				
VORO	14	0220	0234	0226	S27	W65	.912	11124	9.2	14	-B		C	0226	.46	1.00		85	EJ
MITK	14	0229E	0236		S23	W65	.908	11124	9.2	7D	1F		C	0229	.93				D
MANI	14	0233	0243	0235	S22	W63	.894	11124	9.4	10	-B	2		0235	.36	.72			
089 TEHR	14	0623	0637	0625	S08	W59	.855	11111	9.8	14	--N		C		.36				HF 2

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GRP36092	14	1045	1104	1048	S08	W56	.827	11111	10.2	19	-N				1.84				6 6 5 10
CRON	14	1040E	1050D		S07	W57	.836	11111	10.2	10D	-N		V		1.00				
CANR	14	1045	1103	1047	S09	W55	.817	11111	10.3	18	-B	2	C	1047	1.08	1.88			
ONDR	14	1045E	1105	1048	S08	W56	.827	11111	10.2	20D	1B		V	1048			4.30		CFHV
ABST	14	1046	1104	1048	S10	W56	.827	11111	10.2	18	-N		C	1048	1.08	1.90		66	EJ
WEND	14	1046E	1108		S07	W55	.817	11111	10.3	22D	1N		P		5.16				
HERS	14	1047	1100	1048	S06	W56	.827	11111	10.2	13	-N		P	1048	.88	1.50			DC
GRP36093	14	1102	1129	1111	N11	W11	.324	11117	13.6	27	--F				3.15				2 1 1 8
ABST	14	1102	1129	1111	N09	W09	.278	11117	13.8	27	-F		C	1111	1.80	1.90		51	EJ
ABST	14	1102	1129	1112	N14	W14	.392	11117	13.4	27	-F		C	1112	1.35	1.40		45	EGJ
CATA	14	1120	1138	1124	N09	W10	.288	11117	13.7	18	-N		C	1124	.29	.30		157	
GRP36094	14	1122	1143	1125	S09	W56	.827	11111	10.3	21	1B				2.76				8 8 6 11
TEHR	14	1120E	1141	1122U	S09	W58	.846	11111	10.1	21D	-B		V		.73				DEF
ABST	14	1121	1152	1122	S11	W57	.837	11111	10.2	31	1N		C	1122	2.70	5.00		66	FJ
CANR	14	1121	1145	1122	S12	W55	.818	11111	10.3	24	1B	2	C	1122	1.72	3.00			
WEND	14	1122	1148	1128	S08	W55	.817	11111	10.3	26	2B		P		8.25				
CATA	14	1124	1140	1124	S08	W55	.817	11111	10.3	16	-B		C	1124	.87	1.52		246	Z
HURB	14	1125E	1136	1128	S07	W54	.807	11111	10.4	11D	1N						2.41		
ONDR	14	1126E	1137		S08	W56	.827	11111	10.3	11D	1B		V	1127			2.70		CFHJ
RAMY	14	1126E	1147	1126U	S11	W56	.827	11111	10.3	21D	1B		C		2.27				F
096 RAMY	14	1609	1618	1610	N16	E90	1.000	11128	21.4	9	-N		C						DE 2
097 CANR	14	1724	1726D	1726	S11	W60	.864	11111	10.2	20	-N	1	C	1726	.54	1.05			2
GRP36098	14	1812	1831	1816	S24	W75	.964	11124	9.1	19	--F				.30				2 2 2 2
HUAN	14	1807	1825	1812U	S24	W73	.955	11124	9.3	18	-F	1	P	1812	.28				
RAMY	14	1817	1837	1820	S24	W77	.972	11124	9.0	20	-F		C		.31				DE
RAMY	14	1817	1837	1820	S24	W77	.972	11124	9.0	20	-F		C		.31				DE
099 RAMY	14	2032	2100	2035	S24	W77	.972	11124	9.1	28	-N		C						DE 2
	14	2043	2059	NO FLARE PATROL															
100 RAMY	14	2051E	2101	2051U	S15	E04	.195	11121	15.2	10D	--N		C		.52				DE 1
101 RAMY	14	2108	2120	2110	S25	W78	.975	11124	9.0	12	--F		C						DE 1
	14	2156	2218	NO FLARE PATROL															
	14	2258	0005	NO FLARE PATROL															
	15	0019	0025	NO FLARE PATROL															
102 CRON	15	0220	0232	0222	S05	W63	.889	11111	10.4	12	--F	1	C	0222	.54	1.18			3
GRP36104	15	0402	0421	0403	S22	W79	.979	11124	9.2	19	-N				.89				3 3 3 3
CRON	15	0401	0411	0403	S23	W79	.979	11124	9.2	10	-N	2	C	0403	.32				
KODA	15	0402	0417	0403	S22	W80	.982	11124	9.2	15	-B		P	0412	1.62	1.60	4.56		CD
CULG	15	0410E	0434		S22	W79	.979	11124	9.2	24D	1N		P	0410	.72				
106 CRON	15	0545	0602	0549	S06	W66	.911	11111	10.3	17	--F	2	C	0549	.32				3
107 CRON	15	0557	0613	0602	S16	W51	.781	11114	11.4	16	--F	1	C	0602	.22	.34			2
108 CRON	15	0603	0617	0605	N08	W22	.427	11117	13.6	14	--F	1	C	0605	.32	.36			2
GRP36113	15	1321	1340	1326	N19	E09	.425	11119	16.2	19	--N				.28				2 2 2 3
RAMY	15	1319	1341	1323	N19	E09	.425	11119	16.2	22	-N		C		.41				DE
HUAN	15	1323	1339	1328	N19	E08	.420	11119	16.2	16	-N	2	C	1328	.15	.17			D
115 HUAN	15	1443	1452	1446	S16	W58	.848	11114	11.3	9	--F	1	C	1446	.21	.38			2
116 RAMY	15	1452	1538	1501	N12	W32	.586	11117	13.2	46	--N		C		.41				DE 3
GRP36117	15	1516	1541	1520	N21	E76	.980	11128	21.3	25	--F				.33				2 2 1 3
RAMY	15	1515	1541	1520	N21	E78	.986	11128	21.5	26	-F		C						F
HUAN	15	1517	1527D	1520U	N20	E74	.973	11128	21.2	10D	-N	1	P	1520	.33				
GRP36120	15	1711	1719	1713	N12	W33	.598	11117	13.2	8	--F				.17				3 3 3 4
HUAN	15	1709	1712D	1712U	N12	W33	.598	11117	13.2	3D	-N	1	P	1712	.15	.19			D
BOUL	15	1712	1719	1713	N12	W32	.586	11117	13.3	7	-F	1	C	1713	.11	.13			
MCMA	15	1714E	1715D		N12	W33	.598	11117	13.2	1D	-F		P	1714	.26	.30			E
	15	2044	2046	NO FLARE PATROL															
	15	2050	2058	NO FLARE PATROL															

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	15	2119	2132	NO FLARE PATROL															
	15	2136	2153	NO FLARE PATROL															
	15	2201	2213	NO FLARE PATROL															
121 CRON	15	2302	2312	2306	S10	W77	.972	11111	10.2	10	--N	2	C	2306	.32				3
GRP36122	15	2327	2338	2329	N20	E73	.969	11128	21.5	11	-N				.42				2 2 2 3
CRON	15	2327	2340	2328	N21	E71	.962	11128	21.3	13	-N	2	C	2328	.22				
MANI	15	2327	2335	2329	N19	E75	.976	11128	21.6	8	-N	2		2329	.62	1.50			
GRP36124	16	0216	0304	0232	S08	W77	.972	11111	10.3	48	-B				.75				2 2 2 5
CULG	16	0216	0304		S09	W78	.976	11111	10.2	48	1B		P	0232	.62				
MANI	16	0230E	0235D	0232	S07	W75	.964	11111	10.5	5D	-N	2		0232	.88	2.04			
GRP36125	16	0508	0520	0512	S08	W81	.986	11111	10.1	12	1N				1.25				3 3 3 5
CULG	16	0505	0514D	0512	S08	W76	.968	11111	10.5	9D	1N		P	0512	1.13				
TACH	16	0510	0520	0511	S08	W88	.999	11111	9.6	10	1B		C	0513	2.09			96	D
MITK	16	0512E	0520		S07	W80	.983	11111	10.2	8D	-F		C	0512	.52				E
8 STATIONS REPORTING GROUP 36127. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36127	16	0805	1041	0829	N19	E66	.934	11128	21.3	156	2N				2.92				6 6 6 7
ABST	16	0803	1037	0823	N18	E66	.933	11128	21.3	154	2N		C	0839	3.16			69	EJW
TACH	16	0804	1050	0830	N18	E68	.944	11128	21.4	166	3F		C	0830	5.29			152	FZ
CRON	16	0804	1101	0830	N19	E65	.928	11128	21.2	177	2N	2	C	0830	2.58				
HTRR	16	0809	0856D		N20	E64	.924	11128	21.1	47D	1B		C	0830	1.86				ELW
KODA	16	0830	1015	0833	N18	E65	.927	11128	21.2	105	1B		P	0842	3.04	3.00	3.24		E
CAPE	16	0838E	0900D		N18	E65	.927	11128	21.2	22D	1N		P	0838	1.56	3.70			
36127	16	0932	1036	0955	N19	E61	.903	11128	21.0	64	*-B				1.38				2 2 2 8
CANR	16	0825E	1052D	0955U	N18	E61	.901	11128	20.9	147D	1B	1	C	0955	2.04				
HTRR	16	0932	1020		N20	E60	.898	11128	20.9	48	-N		C	0950	.72				B
36127	16	0825	1052	0913	N18	E61	.901	11128	20.9	147	*1B				2.47				2 1 1 8
CANR	16	0825E	1052D	0913U	N18	E61	.901	11128	20.9	147D	1B	1	C	0913	2.47				
CAPS	16	1008E	1104D		N18	E62	.908	11128	21.1	56D	1B	3	P	1009	1.90			210	
GRP36132	16	1204	1225	1207	S06	W84	.994	11111	10.2	21	-N				.62				3 3 1 5
RAMY	16	1203	1225	1206	S07	W88	.999	11111	9.9	22	-B		C						DE
HTRR	16	1205	1235	1207	S05	W80	.984	11111	10.5	30	-F		C	1207	.62				
CANR	16	1205	1215	1207	S06	W85	.995	11111	10.1	10	1N	2	V	1207		2.60			
134 RAMY	16	1853	1858	1853	N08	W44	.715	11117	13.5	5	--N		C		.46				DE 1
135 RAMY	16	1942E	2015	1945U	N15	E64	.916	11128	21.6	33D	-N		C		.52				DE 1
137 CRON	17	0516	0525	0518	N18	W15	.456	11119	16.1	9	--N	1	C	0518	.32	.36			2
138 CRON	17	0637	0648	0638	N22	E52	.843	11128	21.2	11	--N	1	C	0638	.43	.99			3
GRP36141	17	1030	1104	1034	N19	E53	.842	11128	21.4	34	--N				.32				3 3 3 9
CRON	17	1029	1043D	1032	N17	E55	.853	11128	21.6	14D	-N	1	C	1032	.22	.41			
CATA	17	1030	1050D	1035	N17	E55	.853	11128	21.6	20D	-N		P	1035	.46	.93		151	
TEHR	17	1031	1108D	1034	N17	E55	.853	11128	21.6	37D	-N		C		.28				F
TEHR	17	1044	1058	1045	N22	E49	.818	11128	21.1	14	-N		C		.13				DE
CATA	17	1100E	1105D	1100	N24	E48	.818	11128	21.1	5D	-N		P	1100	.34	.61		150	
GRP36148	17	1849	1901	1854	N14	E79	.986	11129	23.7	12	--F								2 2 0 2
MCMA	17	1848	1858	1853	N14	E80	.989	11129	23.8	10	-N		C	1853					D
LOCK	17	1849	1903	1855	N13	E77	.980	11129	23.6	14	-F		C						
149 LOCK	17	1947	1956	1950	N16	E38	.681	11128	20.7	9	--F		C						H 1
150 LOCK	17	2110	2130	2120	S13	E77	.972	11130	23.7	20	--F		C						2
151 LOCK	17	2156	2210	2200	N21	E43	.759	11128	21.1	14	-N		C						1
	18	0005	0007	NO FLARE PATROL															
152 CRON	18	0127	0138	0130	S05	E80	.984	11130	24.1	11	--F		V		.50				2
GRP36154	18	0621	0630	0623	N20	E34	.664	11128	20.8	9	--F				.72				2 2 2 7
TEHR	18	0619	0632	0622	N20	E33	.654	11128	20.7	13	-F		C		.36				HDE
ABST	18	0622	0627	0624	N20	E35	.675	11128	20.9	5	-F		C	0624	1.08	1.40			EJ
GRP36162	18	1551	1608	1554	N19	E42	.740	11128	21.8	17	--F				.63				2 2 2 2
CANR	18	1549	1608	1554	N19	E42	.740	11128	21.8	19	-N	2	C	1554	.54	.80			
RAMY	18	1552	1608	1554	N18	E42	.735	11128	21.8	16	-F		C		.72				DE

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GRP36163	18	1637	1648	1640	N12	E66	.925	11129	23.6	11	--F				.41				2 2 1 3
LOCK	18	1635	1645	1639	N11	E65	.918	11129	23.6	10	-F		C						
RAMY	18	1638	1650	1640	N12	E66	.925	11129	23.6	12	-F		C		.41				DE
GRP36164	18	1656	1706	1659	N19	E27	.584	11128	20.7	10	--N				.63				3 3 2 4
LOCK	18	1656	1707	1659	N20	E27	.593	11128	20.7	11	-N		C						
CANR	18	1656	1705	1658	N18	E26	.564	11128	20.7	9	-N	2	C	1658	.32	.39			
RAMY	18	1657	1707	1659	N20	E28	.603	11128	20.8	10	-N		C		.93				DE
GRP36165	18	1703	1717	1708	N09	E67	.928	11129	23.7	14	--F				.31				3 3 1 4
RAMY	18	1659	1719	1705	N09	E65	.915	11129	23.6	20	-F		C		.31				DE
LOCK	18	1704	1717	1710	N08	E66	.921	11129	23.7	13	-F		C						H
CANR	18	1705	1716		N10	E70	.947	11129	24.0	11	-N	2	V			.50			
GRP36166	18	1717	1725	1720	N21	E32	.651	11128	21.1	8	--N				.33				4 4 3 4
RAMY	18	1717	1728	1720	N21	E32	.651	11128	21.1	11	-N		C		.41				DE
LOCK	18	1717	1723	1719	N20	E31	.633	11128	21.0	6	-N		C						
CANR	18	1717	1724	1720	N20	E31	.633	11128	21.0	7	-N	2	C	1720	.32	.42			
MCMA	18	1719E	1724D		N22	E32	.659	11128	21.1	5D	-N		P	1719	.26	.30			D
167 RAMY	18	1805	1818D	1808	N17	E37	.677	11128	21.5	13D	--F		C		.72				DE 2
168 LOCK	18	1830	1855	1841	N14	E80	.989	11133	24.8	25	--F		C						H 2
GRP36169	18	1849	1913	1854	N19	E33	.647	11128	21.3	24	-N				1.84				3 3 2 3
RAMY	18	1848	1930D	1857	N19	E36	.678	11128	21.5	42D	1N		C		2.68				
RAMY	18	1848	1930D	1851	N19	E36	.678	11128	21.5	42D	-B		C		1.34				F
PALE	18	1849E	1904	1854	N19	E32	.636	11128	21.2	15D	-B		C		.99				DE
LOCK	18	1849	1905	1852	N20	E31	.633	11128	21.1	16	-N		C						V
170 RAMY	18	1934	1940D	1936	N08	E65	.914	11129	23.7	6D	--F		C		.62				DE 2
GRP36171	18	2034	2125	2047	N19	E40	.720	11128	21.9	51	-N				.92				3 3 2 3
PALE	18	2030	2056D	2046	N18	E39	.704	11128	21.8	26D	-N		C		.91				F
LOCK	18	2037	2125	2054	N19	E40	.720	11128	21.9	48	-N		C						H
RAMY	18	2042E	2058D	2042E	N19	E40	.720	11128	21.9	16D	-N		C		.93				DE
172 RAMY	18	2112	2116	2113	N12	E90	1.000	11133	25.6	4	-N		C						DE 2
173 LOCK	18	2205	2230	2215	N12	E81	.991	11133	25.0	25	-N		C						1
GRP36174	19	0057	0113	0103	N11	E77	.979	11133	24.8	16	-N				.54				2 1 1 4
CRON	19	0057	0113	0103	N11	E77	.979	11133	24.8	16	-N	2	C	0103	.54				
MANI	19	0058	0116	0102	N13	E88	1.000	11133	25.6	18	-B	2		0102	.41	1.28			
GRP36176	19	0454	0504	0457	N18	E22	.524	11128	20.9	10	--N				.44				3 3 3 6
CRON	19	0454	0504	0457	N18	E20	.504	11128	20.7	10	-N	2	C	0457	.43	.50			
TEHR	19	0454	0506	0456	N18	E20	.504	11128	20.7	12	-N		C		.28				DE
MANI	19	0456E	0503		N18	E25	.554	11128	21.1	7D	-N	2		0458	.62	.74			
GRP36177	19	0504	0515	0507	N13	E84	.997	11133	25.5	11	-N				.74				4 4 4 6
TEHR	19	0503	0515	0506	N14	E85	.998	11133	25.6	12	-N		C		.19				DE
CRON	19	0504	0513	0506	N12	E81	.991	11133	25.3	9	-N	2	C	0506	.22				
MITK	19	0504	0519	0507	N14	E85	.998	11133	25.6	15	1N		C	0507	.83				DG
TACH	19	0506	0512	0507	N13	E86	.999	11133	25.7	6	1N		C	0507	1.73			88	
GRP36179	19	0635	0650	0641	N23	W45	.789	11119	15.9	15	--N				.25				2 2 2 5
CRON	19	0633	0653	0642	N23	W44	.780	11119	16.0	20	-N	1	C	0642	.22	.34			
TEHR	19	0637	0647	0640	N23	W45	.789	11119	15.9	10	-N		C		.28				DE
GRP36181	19	0715	0723	0716	N17	E20	.493	11128	20.8	8	--B				.37				4 4 4 6
TEHR	19	0713	0725	0715	N18	E19	.494	11128	20.7	12	-N		C		.28				DE
MANI	19	0715E	0723		N18	E25	.554	11128	21.2	8D	-B	2		0718	.31	.37			
CRON	19	0715	0725	0716	N17	E18	.473	11128	20.7	10	-N	1	C	0716	.32	.37			
TACH	19	0716	0720	0716	N16	E18	.461	11128	20.7	4	-B		C	0716	.55	.63		72	E
GRP36183	19	0846	0901	0848	N13	E79	.986	11133	25.3	15	-N				.40				3 2 2 6
TEHR	19	0845	0901	0848	N14	E81	.991	11133	25.4	16	-N		C		.36				DE
CRON	19	0846	0900	0847	N12	E77	.980	11133	25.1	14	-N	2	C	0847	.43				
ABST	19	0846	0859	0848	N14	E89	1.000	11133	26.0	13	1F		C	0848	1.08			52	E
GRP36184	19	0940	0958	0943	N18	E29	.597	11128	21.6	18	--F				.15				2 2 2 3
CRON	19	0940	0951	0943	N17	E28	.578	11128	21.5	11	-N	1	C	0943	.11	.13			
TEHR	19	0940	1005	0943	N18	E29	.597	11128	21.6	25	-F		C		.19				DE
GRP36186	19	1054	1102	1056	N15	E85	.998	11133	25.8	8	--F				.90				2 2 1 4
ABST	19	1053	1105	1055	N14	E89	1.000	11133	26.1	12	1F		C	1055	.90			58	E
CANR	19	1055	1058	1056	N16	E80	.990	11133	25.5	3	-F	3	V	1056		.50			

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GRP36187	19	1115	1125	1117	N18	E17	.476	11128	20.7	10	--N				.13				2 1 1 6
TEHR	19	1115	1125	1117	N18	E17	.476	11128	20.7	10	-N		C		.13				DE
ABST	19	1122E	1134	1127	N15	E29	.573	11128	21.6	12D	-F		P	1127	.63	.80		50	D
4 STATIONS REPORTING GROUP 36188. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36188	19	1219	1254	1223	N13	W15	.396	11123	18.4	35	-N				.61				2 2 2 6
TEHR	19	1216	1305	1222	N13	W15	.396	11123	18.4	49	-N		C		.28				SDE
RAMY	19	1221	1242	1224	N12	W14	.373	11123	18.5	21	-N		C		.93				DE
36188	19	1222	1252	1235	N13	W15	.396	11123	18.4	30	*-N				1.03				2 2 2 5
CANR	19	1222	1243	1235	N13	W15	.396	11123	18.4	21	-N	2	C	1235	.75	.82			
CAPS	19	1222E	1301D		N13	W14	.386	11123	18.5	39D	-N	2	V	1233	1.30	1.40		165	
GRP36189	19	1259	1311	1304	N17	E16	.455	11128	20.7	12	--N				.34				3 3 3 5
TEHR	19	1216	1305	1235	N18	E15	.458	11128	20.6	49	-N				.45				
TEHR	19	1258	1310	1305	N18	E15	.458	11128	20.7	12	-N		C		.19				DE
RAMY	19	1300	1311	1301	N16	E18	.461	11128	20.9	11	-F		C		.62				DE
CANR	19	1300	1312	1306	N17	E15	.446	11128	20.7	12	-N	2	C	1306	.22	.24			
GRP36190	19	1305	1325	1313	N08	E55	.833	11129	23.7	20	-B				.70				4 4 4 4
TEHR	19	1304	1318D	1312	N08	E53	.813	11129	23.5	14D	-B				.55				
TEHR	19	1304	1318D	1306	N08	E53	.813	11129	23.5	14D	-N		C		.28				DE
CANR	19	1304	1309	1306	N08	E54	.823	11129	23.6	5	-N	1	C	1306	.32	.56			
RAMY	19	1305	1327	1313	N09	E55	.835	11129	23.7	22	-B		C		.83				DE
CAPE	19	1305	1323	1315	N08	E56	.842	11129	23.7	18	-N		C	1315	.78	1.40			H
CANR	19	1310	1326	1312	N08	E54	.823	11129	23.6	16	-B	1	C	1312	.65	1.13			
GRP36191	19	1415	1453	1424	N19	E19	.506	11128	21.0	38	-N				1.05				5 5 5 6
CAPE	19	1411	1455	1422	N18	E21	.514	11128	21.2	44	-F		C	1422	1.04	1.20			
RAMY	19	1416	1445	1422	N19	E20	.515	11128	21.1	29	-N		C		1.34				DE
CANR	19	1417	1458	1421	N19	E18	.497	11128	20.9	41	-N	2	C	1421	.97	1.12			
CAPS	19	1424E	1452D		N18	E18	.485	11128	21.0	28D	-F	2	V	1425	1.40	1.50		150	
HUAN	19	1430E	1431D	1431U	N21	E18	.521	11128	21.0	1D	-N	1	P	1431	.48	.57			E
36191	19	1441	1454	1444	N18	E14	.450	11128	20.7	13	*-N				.81				4 4 3 5
CANR	19	1440	1455	1444	N18	E14	.450	11128	20.7	15	-N	2	C	1444	.54	.60			
RAMY	19	1441	1452D	1445	N18	E15	.458	11128	20.7	11D	-B		C		.93				DE
CAPE	19	1442	1453	1444	N17	E15	.446	11128	20.7	11	-N		C	1444	.95	1.10			
BOUL	19	1444E	1453	1444	N18	E12	.435	11128	20.5	9D	-F	1	V						
GRP36194	19	1534	1602	1541	N21	E21	.546	11128	21.2	28	-N				.91				4 4 4 4
CANR	19	1524	1543	1526	N19	E18	.497	11128	21.0	19	-N	2	C	1526	.43	.50			
RAMY	19	1533	1602	1538	N20	E22	.545	11128	21.3	29	-N		C		1.13				F
CAPE	19	1535	1605	1545	N21	E22	.555	11128	21.3	30	-N		C	1545	.99	1.20			V
CANR	19	1535	1600	1539	N21	E21	.546	11128	21.2	25	-B	2	C	1539	.86	1.02			
BOUL	19	1537U	1558U	1541U	N22	E21	.557	11128	21.2	21D	-N	1	C	1541	.64	.78			
GRP36196	19	1616	1623	1618	N17	E13	.429	11128	20.7	7	--F				.72				3 3 1 6
RAMY	19	1616	1623	1619	N17	E13	.429	11128	20.7	7	-N		C		.72				DE
BOUL	19	1618E	1623	1618	N18	E12	.435	11128	20.6	5D	-F	1	V						
LOCK	19	1618E	1623	1618	N17	E13	.429	11128	20.7	5D	-F		C						
GRP36197	19	1643	1653	1644	N19	E18	.497	11128	21.0	10	--N				.32				5 5 3 5
BOUL	19	1641U	1654U	1643U	N19	E18	.497	11128	21.0	13D	-N	1	C	1643	.32	.37			
LOCK	19	1642	1651	1644	N20	E17	.500	11128	21.0	9	-N		C						
CANR	19	1643	1655	1644	N19	E17	.488	11128	21.0	12	-N	1	C	1644	.32	.37			
MCMA	19	1643	1649	1644	N19	E19	.506	11128	21.1	6	-N		C	1644	.31	.40			E
RAMY	19	1644	1654		N18	E18	.485	11128	21.0	10	-N		C						F
GRP36198	19	1719	1737	1724	N09	E58	.861	11129	24.1	18	--F				.70				4 4 2 6
CANR	19	1717	1731		N09	E58	.861	11129	24.1	14	-N	2	V						
RAMY	19	1720	1742	1723	N08	E58	.860	11129	24.1	22	-F		C		1.03				DE
LOCK	19	1720	1740	1725	N10	E58	.863	11129	24.1	20	-F		C						
MCMA	19	1721E	1736		N09	E57	.853	11129	24.0	15D	-F		C	1723	.36	.70			E
GRP36200	19	1856	1911	1902	N12	E50	.794	11129	23.5	15	--F				.49				4 4 3 4
LOCK	19	1855	1910	1900	N13	E49	.787	11129	23.5	15	-F		C						
MCMA	19	1856	1907	1900	N12	E50	.794	11129	23.5	11	-F		C	1900	.41	.70			E
BOUL	19	1857	1908	1902	N11	E48	.770	11129	23.4	11	-N	1	C	1902	.43	.67			
RAMY	19	1857	1919	1906	N11	E53	.820	11129	23.8	22	-F		C		.62				F
202 RAMY	19	2136	2143	2137	N18	E11	.428	11128	20.7	7	--F		C		.62				DE 1
	19	2155	2201	NO FLARE PATROL															
	19	2202	2244	NO FLARE PATROL															

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GRP36203	19	2253	2303	2253	S17	E52	.791	11130	23.9	10	--F				.50				2 1 1 3
BOUL	19	2253E	2300	2253	S16	E52	.790	11130	23.9	7D	-F	1	V						
CRON	19	2300E	2305D		S17	E52	.791	11130	23.9	5D	-F		V		.50				
GRP36204	19	2329	2340	2331	N19	E28	.595	11128	22.1	11	--N				.16				2 2 2 2
MANI	19	2328	2340	2331	N20	E29	.614	11128	22.2	12	-N	2		2331	.21	.26			
CRON	19	2329	2340	2331	N17	E26	.556	11128	21.9	11	-N	2	C	2331	.11	.13			
GRP36205	20	0020	0032	0025	N21	E16	.506	11128	21.2	12	--N				.43				2 2 2 3
MANI	20	0019	0032	0023	N21	E16	.506	11128	21.2	13	-N	2		0023	.31	.36			
CRON	20	0021	0032	0026	N20	E15	.485	11128	21.1	11	-N	2	C	0026	.54	.61			
GRP36206	20	0048	0104	0050	N21	E14	.491	11128	21.1	16	--N				.42				2 2 2 2
CRON	20	0048	0105	0050	N20	E14	.478	11128	21.1	17	-N	2	C	0050	.22	.25			
MANI	20	0050E	0102		N22	E13	.498	11128	21.0	12D	-N	2		0051	.62	.71			
GRP36207	20	0123	0203	0134	S13	E49	.754	11130	23.7	40	-N				.68				2 2 2 3
CRON	20	0123	0212	0134	S14	E49	.755	11130	23.7	49	-N	1	C	0134	.32	.50			
MANI	20	0128E	0154		S12	E49	.753	11130	23.7	26D	-N	2		0128	1.03	1.57			
GRP36208	20	0142	0155	0144	N20	E14	.478	11128	21.1	13	--N				.37				2 2 2 4
MANI	20	0140	0157	0144	N20	E14	.478	11128	21.1	17	-N	2		0144	.41	.47			
CRON	20	0143	0152	0144	N20	E13	.471	11128	21.0	9	-N	1	C	0144	.32	.37			
GRP36209	20	0405	0436	0423	S13	E50	.765	11130	23.9	31	-N				.76				3 3 2 6
CRON	20	0405	0431	0423	S14	E50	.766	11130	23.9	26	-N		V		.90				
SIBE	20	0415E	0435D		S11	E49	.753	11130	23.9	20D	1F		V						
MANI	20	0428E	0443		S14	E52	.788	11130	24.1	15D	-N	2		0430	.62	.98			
GRP36212	20	0731	0746	0735	N13	W26	.522	11123	18.4	15	--F				.89				2 2 2 7
CATA	20	0730	0745	0735	N14	W25	.519	11123	18.4	15	-N		C	0735	1.04	1.23		168	
TEHR	20	0731	0747	0734	N12	W26	.514	11123	18.4	16	-F		C		.73				F
GRP36214	20	1024	1047	1029	N22	E12	.492	11128	21.3	23	--N				.56				3 3 3 5
TEHR	20	1024	1045	1028	N22	E12	.492	11128	21.3	21	-N		C		.55				DE
CANR	20	1024	1052	1029	N22	E11	.486	11128	21.3	28	-N	1	C	1029	.54	.62			
CRON	20	1031E	1043		N22	E13	.498	11128	21.4	12D	-N		V		.60				
GRP36215	20	1216	1231	1219	S14	E42	.673	11130	23.7	15	--F				.30				3 2 2 5
HUAN	20	1149	1231D	1153	S14	E43	.685	11130	23.7	42D	-N	2	P	1153	.18	.24			D
TEHR	20	1214	1233	1218	S14	E41	.661	11130	23.6	19	-F		C		.28				F
CANR	20	1217	1228	1219	S13	E42	.671	11130	23.7	11	-F	1	C	1219	.32	.43			
GRP36216	20	1237	1247	1240	N21	E23	.566	11128	22.3	10	--N				.28				3 3 3 4
HUAN	20	1236	1246	1241	N21	E23	.566	11128	22.3	10	-N	2	P	1241	.25	.30			D
CANR	20	1237	1248	1240	N21	E23	.566	11128	22.3	11	-N	1	C	1240	.32	.39			
TEHR	20	1238	1248	1239	N21	E24	.575	11128	22.3	10	-N		C		.28				DE
GRP36220	20	1454	1508	1459	S13	E42	.671	11130	23.8	14	--N				.57				3 3 3 4
HUAN	20	1451	1510	1459	S14	E42	.673	11130	23.8	19	-N	2	C	1459	.35	.47			E
HTRR	20	1456	1507	1458	S12	E42	.670	11130	23.8	11	-F		C	1458	.72	.80			
CANR	20	1456	1508	1459	S12	E41	.657	11130	23.7	12	-N	1	C	1459	.65	.86			
GRP36222	20	1624	1658	1639	N17	E14	.438	11128	21.7	34	--F				.76				2 2 1 4
HUAN	20	1622	1643	1627	N14	E09	.359	11128	21.4	21	-N	2	C	1627	.23	.24			E
HUAN	20	1627	1700	1640	N18	E16	.468	11128	21.9	33	-N	2	C	1640	.76	.87			E
LOCK	20	1634E	1655	1638	N17	E16	.456	11128	21.9	21D	-F		C						
GRP36224	20	1734	1740	1737	N20	E01	.423	11128	20.8	6	--F				.15				2 2 1 2
LOCK	20	1733	1741	1737	N20	E01	.423	11128	20.8	8	-F		C						
HUAN	20	1734	1738	1736	N19	E01	.407	11128	20.8	4	-N	2	C	1736	.15	.17			E
228 LOCK	20	2125	2140	2130	N19	E16	.481	11128	22.1	15	--F		C						3
GRP36229	20	2237	2303	2252	N20	E13	.471	11128	21.9	26	--F				.45				2 2 1 3
LOCK	20	2237	2248	2240	N22	E02	.455	11128	21.1	11	-F		C						
PALE	20	2241E	2306D	2248U	N20	E16	.493	11128	22.1	25D	-F		C		.45				
LOCK	20	2250	2300	2255	N18	E16	.468	11128	22.2	10	-F		C						
230 PALE	20	2329	2353	2337U	N23	E03	.472	11128	21.2	24	--N		C		.72				F 2
GRP36231	21	0002	0016	0005	S12	E38	.618	11130	23.9	14	--N				.32				2 2 2 3
CRON	21	0000U	0013	0005	S12	E37	.604	11130	23.8	13D	-N	2	C	0005	.32	.41			
MANI	21	0004	0018		S11	E39	.630	11130	23.9	14	-N	2		0006	.31	.49			
GRP36232	21	0016	0024	0019	N20	E04	.429	11128	21.3	8	--F				.66				2 2 2 3
CRON	21	0015	0026	0020	N19	E03	.412	11128	21.2	11	-F		V		.60				
MANI	21	0016	0021	0018	N20	E05	.432	11128	21.4	5	-N	2		0018	.72	.80			

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234 PALE	21	0205E	0220D	0212U	N27	W80	.994	11119	15.1	15D	--F		C		.63				3
GRP36236	21	0359	0412	0404	S14	E36	.595	11130	23.9	13	--N				.53				2 2 2 5
CRON	21	0359	0410	0401	S16	E34	.575	11130	23.7	11	-N	2	C	0401	.65	.79			
MANI	21	0405E	0413	0407	S12	E38	.618	11130	24.0	8D	-N	2		0407	.41	.52			
GRP36238	21	0439	0504	0450	N22	E02	.457	11128	21.3	25	-N				1.77				6 6 5 6
MANI	21	0426	0437	0428	N20	E03	.427	11128	21.4	11	-N	2		0428	.31	.34			
CULG	21	0435E	0453D	0449	N24	E04	.491	11128	21.5	18D	1B		P	0449	4.13	4.52			
KODA	21	0440	0454	0448	N22	E02	.457	11128	21.3	14	1N		V	0451	2.08	2.20	1.76		E
TEHR	21	0440	0521	0453U	N22	E02	.457	11128	21.3	41	-N		C		.83				F
CRON	21	0440	0510	0449	N23	E00	.471	11128	21.2	30	-B	2	C	0449	.97	1.10			
SIBE	21	0448E	0458		N19	W01	.409	11128	21.1	10D	1F		V						EI
MANI	21	0448E	0455	0450	N20	E03	.427	11128	21.4	7D	-N	2		0450	.83	.90			
GRP36244	21	0927	0942	0930	N18	E06	.405	11128	21.8	15	--N				.66				3 3 3 5
ABST	21	0926	0941	0930	N18	E05	.401	11128	21.8	15	-F		C	0930	.90	1.00		59	DJ
TEHR	21	0927	0948	0930	N17	E05	.385	11128	21.8	21	-N		C		.28				DE
CRON	21	0928E	0936		N18	E09	.419	11128	22.1	8D	-N		V		.80				
GRP36246	21	1011	1032	1020	N19	E08	.429	11128	22.0	21	--F				.78				4 4 4 7
TEHR	21	1007	1040	1019	N19	E09	.434	11128	22.1	33	-N		C		.28				FDE
CANR	21	1009U	1028U	1020U	N19	E07	.424	11128	21.9	19D	-F	1	C	1020	.43	.47			
ABST	21	1011E	1030	1022	N19	E08	.429	11128	22.0	19D	1F		P	1022	1.98	2.10		56	FJ
CRON	21	1017	1028	1019	N19	E08	.429	11128	22.0	11	-N	1	C	1019	.43	.48			
GRP36247	21	1056	1115	1057	N18	E04	.398	11128	21.8	19	--F				.60				3 3 3 5
CANR	21	1055U	1100U	1057U	N18	E04	.398	11128	21.8	5D	-F	1	C	1057	.43	.47			
TEHR	21	1056	1115	1058	N18	E05	.401	11128	21.8	19	-N		C		.28				DE
ABST	21	1056	1058D	1057	N18	E04	.398	11128	21.8	2D	-F		P	1057	1.08	1.20		54	EJ
GRP36250	21	1321	1351	1325	N19	W02	.410	11128	21.4	30	-N				1.20				4 3 3 4
CAPE	21	1318	1406	1322	N23	W04	.475	11128	21.3	48	1N		C	1322	2.07	2.40			HV
CANR	21	1323	1335	1324	N17	E02	.378	11128	21.7	12	-B	1	C	1324	.43	.46			
HERS	21	1330E	1353	1330U	N18	W05	.401	11128	21.2	23D	-N		S	1330	1.11	1.20			E
CATA	21	1338E	1345D	1338	N22	W05	.463	11128	21.2	7D	-N		P	1338	.69	.79		199	
CATA	21	1338E	1345D	1338	N17	W09	.404	11128	20.9	7D	-N		P	1338	.46	.51		158	Z
GRP36251	21	1451	1507	1455	N18	E02	.394	11128	21.8	16	--N				.79				2 2 2 4
RAMY	21	1450	1509D	1455	N18	E03	.396	11128	21.8	19D	-N		C		1.03				DEU
CANR	21	1451	1504	1454	N18	E01	.393	11128	21.7	13	-N	1	C	1454	.54	.58			
GRP36252	21	1543	1603	1546	N11	E29	.546	11129	23.8	20	--F				.72				3 3 1 4
RAMY	21	1540	1618D	1547D	N10	E30	.552	11129	23.9	38D	-F		C		.72				DE
RAMY	21	1540	1618D	1615	N10	E30	.552	11129	23.9	38D	-F		C		1.03				
BOUL	21	1542	1550	1545	N14	E27	.543	11129	23.7	8	-F	1	V						
CANR	21	1548	1602		N09	E30	.546	11129	23.9	14	-F	2	V			.80			
253 BOUL	21	1740U	1751U	1742U	N18	E01	.393	11128	21.8	11D	--N	1	C	1742	.86	.93			2
254 BOUL	21	1804U	1835U	1809U	N19	E01	.409	11128	21.8	31D	--N	1	C	1809	.75	.82			2
255 BOUL	21	1826U	1848U	1831U	N17	E05	.385	11128	22.1	22D	--F	1	C	1830	.65	.70			2
256 BOUL	21	1850	1858	1852	N18	W02	.394	11128	21.6	8	--F	1	V						2
GRP36257	21	2025	2110	2049	N20	E03	.427	11128	22.1	45	--N				.53				2 2 2 2
PALE	21	2025E	2106D	2047U	N21	E02	.441	11128	22.0	41D	-N		C		.63				F
BOUL	21	2042U	2110U	2050U	N19	E03	.412	11128	22.1	28D	-N	1	C	2049	.43	.47			
258 BOUL	21	2046U	2116U	2053U	N11	E23	.469	11129	23.6	30D	-N	1	C	2053	.97	1.10			2
GRP36259	21	2152	2242	2156	N11	E26	.507	11129	23.9	50	-N				.99				2 2 1 2
BOUL	21	2152	2242	2156	N11	E26	.507	11129	23.9	50	-N	2	V						
PALE	21	2152E	2227D	2155U	N11	E26	.507	11129	23.9	35D	-N		C		.99				F
260 PALE	21	2203E	2240D	2217U	N20	W04	.429	11128	21.6	37D	--F		C		.55				F 2
	21	2306	2315	NO FLARE PATROL															
261 VORO	22	0102	0109	0103	N19	W14	.467	11128	21.0	7	--B		C	0103	.74	.80		75	E 2
262 CRON	22	0114	0118	0116	N20	E01	.426	11128	22.1	4	--N	1	C	0116	.11	.12			3
GRP36266	22	0610	0627	0617	N12	E47	.764	11133	25.8	17	-N				.85				3 3 3 4
MANI	22	0610E	0620D	0612	N13	E48	.778	11133	25.9	10D	-N	2		0612	1.03	1.61			
CRON	22	0615U	0626	0621	N11	E45	.739	11133	25.6	11D	-N	1	C	0621	.54	.80			
ABST	22	0615E	0628	0617	N12	E47	.764	11133	25.8	13D	-N		P	0617	.99	1.50		60	DJ

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GRP36267	22	0644	0654	0647	N17	W08	.400	11128	21.7	10	-N				.92				3 3 3 4
CRON	22	0643	0654	0645	N18	W08	.415	11128	21.7	11	-N	1	C	0645	.54	.59			
ABST	22	0644	0651D	0645	N17	W08	.400	11128	21.7	7D	-N		P	0645	1.80	2.00		63	EJ
MANI	22	0649E	0652D	0651	N15	W09	.376	11128	21.6	3D	-N	2		0651	.41	.40			
268 CRON	22	0715	0745	0718U	N11	E45	.739	11133	25.7	30	--F	1	C	0718	.54	.80			2
GRP36270	22	1104	1118	1106	N22	W14	.507	11128	21.4	14	-N				1.58				5 5 4 6
ISTA	22	1100	1115	1105	N21	W12	.481	11128	21.6	15	-N								F
CAPE	22	1104	1119	1108	N22	W15	.514	11128	21.3	15	-B		C	1108	1.30	1.50			
ABST	22	1104	1118	1106	N23	W15	.527	11128	21.3	14	1F		C	1106	1.89	2.20		62	EJ
CANR	22	1104	1122	1107	N21	W16	.508	11128	21.3	18	-B	2	C	1107	1.08	1.30			
HTRR	22	1106	1114	1106	N22	W14	.507	11128	21.4	8	1B		C	1106	2.06	2.30			V
CANR	22	1108	1122	1109	N21	W17	.516	11128	21.2	14	-B	3	V	1109		.50			
GRP36271	22	1202	1240	1209	N22	W13	.501	11128	21.5	38	--F				1.07				2 2 2 4
HTRR	22	1202	1240	1212	N22	W16	.521	11128	21.3	38	-N		C	1212	.52	.60			
ABST	22	1204E	1217D	1206	N22	W09	.479	11128	21.8	13D	-F		P	1206	1.62	1.80		56	EJK
272 HTRR	22	1224	1235	1227	S12	E16	.296	11130	23.7	11	--F		C	1227	.52	.50			E 2
GRP36273	22	1355	1405	1357	N16	W13	.420	11128	21.6	10	--F				.26				2 2 1 3
MCMA	22	1355	1405	1357	N13	W15	.399	11128	21.5	10	-N		C	1357	.26	.30			D
CAPS	22	1355E	1405D		N18	W10	.426	11128	21.8	10D	-F	1	S						E
GRP36274	22	1358	1403	1359	S12	E12	.236	11130	23.5	5	--F				.44				2 2 2 3
MCMA	22	1358	1403	1359	S12	E08	.181	11130	23.2	5	-F		C	1359	.26	.30			D
HTRR	22	1358	1402	1358	S12	E16	.296	11130	23.8	4	-F		C	1358	.62	.60			
GRP36275	22	1611	1616	1611	S11	E08	.170	11130	23.3	5	--F				.52				2 2 1 3
RAMY	22	1610	1612D	1610U	S11	E09	.184	11130	23.3	2D	-N		C		.52				DE
BOUL	22	1611	1616	1612	S10	E07	.147	11130	23.2	5	-F	1	V						
276 BOUL	22	1634U	1650U	1636U	N12	W17	.409	11128	21.4	16D	--F	1	C	1636	.22	.24			3
GRP36279	22	1653	1706	1700	N24	W15	.540	11128	21.6	13	--N				.23				2 2 2 4
HUAN	22	1653	1706	1700	N21	W13	.487	11128	21.7	13	-N	1	P	1700	.23	.26			
BOUL	22	1658U	1706U	1700U	N27	W16	.584	11128	21.5	8D	-N	1	C	1700	.22	.26			
3 STATIONS REPORTING GROUP 36281. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36281	22	1855	1958	1924	N18	W22	.527	11128	21.1	63	-N				1.10				3 3 2 3
LOCK	22	1855	1955	1922	N18	W23	.537	11128	21.1	60	-N		C						K
BOUL	22	1923U	2001U	1926U	N19	W22	.537	11128	21.2	38D	-N	1	C	1925	.65	.76			
RAMY	22	1925E	1953D	1925U	N18	W20	.507	11128	21.3	28D	-N		C		1.55				DE
36281	22	1855	1955	1901	N18	W22	.527	11128	21.1	60	*-F				.32				2 2 1 2
LOCK	22	1855	1955	1859	N18	W23	.537	11128	21.1	60	-F		C						K
BOUL	22	1901U	1919U	1903U	N18	W20	.507	11128	21.3	18D	-F	1	C	1902	.32	.38			
GRP36282	22	1905	2005	1916	N10	E13	.342	11129	23.8	60	-N				1.21				3 3 2 3
LOCK	22	1905	2005	1910	N10	E12	.331	11129	23.7	60	-N		C						
BOUL	22	1909U	1943U	1918U	N10	E13	.342	11129	23.8	34D	-N	1	C	1918	1.08	1.10			
RAMY	22	1918E	1953D	1919U	N10	E14	.352	11129	23.9	35D	-B		C		1.34				F
GRP36284	22	2030	2055	2039	N08	E11	.295	11129	23.7	25	--F				.75				2 2 1 2
LOCK	22	2030	2050	2037	N10	E12	.331	11129	23.8	20	-F		C						
BOUL	22	2031U	2100U	2041U	N05	E09	.235	11129	23.5	29D	-N	1	C	2041	.75	.75			
GRP36286	22	2110	2150	2134	N21	W15	.501	11128	21.8	40	--F								2 2 0 2
BOUL	22	2100	2125	2103	N21	W14	.494	11128	21.8	25	-F	1	V						
LOCK	22	2120	2150	2130	N21	W16	.508	11128	21.7	30	-F		C						
BOUL	22	2136	2150	2138	N20	W15	.488	11128	21.8	14	-F	1	V						
GRP36287	22	2239	2253	2241	S10	W21	.364	11127	21.4	14	--F								2 2 0 2
LOCK	22	2235	2255	2240	S09	W22	.377	11127	21.3	20	-F		C						
BOUL	22	2242	2250	2242	S10	W20	.348	11127	21.4	8	-F	1	V						
GRP36288	22	2240	2256	2247	N20	W18	.512	11128	21.6	16	--F				.87				3 3 2 3
LOCK	22	2240	2255	2245	N21	W19	.532	11128	21.5	15	-F		C						
CRON	22	2242E	2255		N20	W15	.488	11128	21.8	13D	-F		V		1.30				
BOUL	22	2245U	2257U	2248U	N20	W19	.521	11128	21.5	12D	-N	1	C	2247	.43	.51			
GRP36289	22	2328	2347	2339	N19	W26	.577	11128	21.0	19	--F				.63				3 2 1 5
LOCK	22	2230	0000	2337	N19	W26	.577	11128	21.0	90	-F		C						
CRON	22	2324E	2329		N20	W16	.496	11128	21.8	5D	-F		V		.80				
PALE	22	2331	2337	2333	N19	W24	.557	11128	21.2	6	-N		C		.36				

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OBSERV-ATORY	OBSERVED UT DATE 1971 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURA-TION MIN.	IM-POR-TANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP36290	22	2340	0020	2354	N19	W26	.577	11128	21.0	40	-N				.39				3 2 2 6
PALE	22	2338	2352D	2341	N19	W26	.577	11128	21.0	14D	-N		C		.63				F
CRON	22	2340	0015	2354	N19	W26	.577	11128	21.0	35	-F	2	C	2354	.32	.40			
VORO	22	2349E	0024		N18	W26	.568	11128	21.0	35D	-B		C	2356	.46	.60		92	EJ
36290	23	0010	0039	0015	N18	W20	.508	11128	21.5	29	*-B				1.00				4 4 4 5
CRON	23	0008	0038	0015	N20	W18	.513	11128	21.7	30	-N	2	C	0015	.75	.88			
MANI	23	0010E	0050		N16	W23	.518	11128	21.3	40D	-B	2		0013	1.03	1.21			
PALE	23	0011	0031	0015	N18	W20	.508	11128	21.5	20	-B		C		1.18				UF
VORO	23	0012	0035	0016	N19	W20	.519	11128	21.5	23	-B		C	0016	1.02	1.20		89	EJ
4 STATIONS REPORTING GROUP 36291. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36291	23	0121	0140	0124	N21	W17	.517	11128	21.8	19	--N				.57				3 3 3 5
PALE	23	0120	0132	0125	N21	W16	.509	11128	21.9	12	-N		C		.55				F
CRON	23	0121	0150	0122	N20	W17	.505	11128	21.8	29	-N	2	C	0122	.43	.50			
VORO	23	0123	0137	0126	N21	W18	.525	11128	21.7	14	-B		C	0126	.74	.80		82	EJ
36291	23	0126	0140	0128	N18	W27	.579	11128	21.0	14	*-N				.41				2 1 1 5
MANI	23	0126	0140	0128	N18	W27	.579	11128	21.0	14	-N	2		0128	.41	.50			
PALE	23	0138	0156	0141	N21	W18	.525	11128	21.7	18	-N		C		.72				F
GRP36292	23	0212	0233	0216	N19	W19	.510	11128	21.7	21	--N				.57				3 3 3 5
PALE	23	0211	0232	0215	N19	W19	.510	11128	21.7	21	-N		C		.55				F
MANI	23	0212E	0242		N20	W19	.522	11128	21.7	30D	-N	2		0214	.72	.84			
CRON	23	0214	0225	0217	N19	W20	.519	11128	21.6	11	-F	1	C	0217	.43	.50			
GRP36296	23	0344	0359	0353	N18	W22	.527	11128	21.5	15	--N				.38				3 3 2 5
PALE	23	0341	0400D	0353	N19	W21	.528	11128	21.6	19D	-N		C		.45				F
SIBE	23	0345E	0401		N17	W24	.538	11128	21.4	16D	1F		V						I
MANI	23	0346	0355		N18	W20	.508	11128	21.7	9	-N	2		0348	.31	.36			
GRP36297	23	0408	0442	0414	N19	W21	.528	11128	21.6	34	1B				1.77				5 5 4 6
CRON	23	0406	0438	0414	N20	W21	.539	11128	21.6	32	-B	1	C	0414	1.08	1.30			
TEHR	23	0408E	0441	0412	N19	W21	.528	11128	21.6	33D	-B		C		1.51				F
MANI	23	0408	0443D		N19	W20	.519	11128	21.7	35D	-B	2		0416	1.55	1.82			
SIBE	23	0408E	0454		N16	W23	.518	11128	21.4	46D	2N		V						EI
KODA	23	0415E	0434	0417	N19	W21	.528	11128	21.6	19D	1B		C	0415	2.92	2.90	2.04		EK
GRP36299	23	0607	0628	0617	S14	E09	.215	11130	23.9	21	-N				.98				4 4 4 6
MANI	23	0606	0626	0610	S13	E07	.180	11130	23.8	20	-N	2		0610	.62	.62			
TEHR	23	0606	0633	0619	S14	E07	.193	11130	23.8	27	-N				.55				
TEHR	23	0606	0633	0608	S14	E07	.193	11130	23.8	27	-N		C		.14				DE
MITK	23	0608	0630D	0619	S14	E07	.193	11130	23.8	22D	-N		C	0619	1.13	1.20			E
ABST	23	0618E	0624	0619	S15	E15	.303	11130	24.4	6D	-F		P	0619	1.62	1.60		52	EJ
GRP36301	23	0709	0727	0711	N16	W16	.447	11128	22.1	18	--N				.28				3 3 3 7
TEHR	23	0707	0720	0708	N14	W18	.443	11128	21.9	13	-N		C		.28				SDE
CATA	23	0710E	0725D	0710	N15	W19	.465	11128	21.9	15D	-N		C	0710	.29	.33		155	
MANI	23	0711	0737	0714	N19	W12	.454	11128	22.4	26	-N	2		0714	.26	.29			
GRP36302	23	0726	0745	0729	N10	E06	.283	11129	23.8	19	-N				1.31				6 6 5 8
TEHR	23	0725	0746	0727	N10	E07	.289	11129	23.8	21	-N		C		.83				FDE
CRON	23	0726	0742	0728	N10	E06	.283	11129	23.8	16	-N	1	C	0728	.97	.97			
ABST	23	0726	0744	0729	N10	E06	.283	11129	23.8	18	1F		C	0729	2.34	2.40		56	E
TACH	23	0727	0738	0728	N11	E06	.298	11129	23.8	11	-N		C	0728	1.19	1.20	1.96	68	E
CATA	23	0730E	0750D	0732	N10	E06	.283	11129	23.8	20D	-N		P	0732	1.22	1.27		186	
ONDR	23	0736E	0747		N10	E06	.283	11129	23.8	11D	-F		V	0737			1.50		E
GRP36305	23	0841	0900	0849	S14	E06	.183	11130	23.8	19	--F				.66				4 4 3 10
CATA	23	0830	0835	0830	S15	E08	.216	11130	24.0	5	-F		C	0830	.17	.18		144	
CATA	23	0835	0910	0850	S15	E05	.189	11130	23.7	35	-N		C	0850	.52	.53		166	
TEHR	23	0839	0856	0847	S15	E06	.197	11130	23.8	17	-N		C		.28				DE
ABST	23	0841	0900D	0849	S14	E06	.183	11130	23.8	19D	-F		P	0849	1.18	1.20		50	EJ
WEND	23	0848	0852		S13	E05	.159	11130	23.7	4	-F								
GRP36307	23	0944	1011	0952	N11	E37	.646	11133	26.2	27	--F				1.02				6 5 5 10
WEND	23	0942E	1032D		N09	E39	.662	11133	26.3	50D	1F		P		3.09				
ABST	23	0944E	0959	0949	N10	E37	.641	11133	26.2	15D	-F		P	0949	.63	.80		50	DJ
TEHR	23	0945	1011	0950	N12	E36	.639	11133	26.1	26	-F		C		.37				DE
CRON	23	0945	1002	0948	N11	E36	.634	11133	26.1	17	-F	1	C	0948	.22	.28			
CAPS	23	0946E	1009D		N11	E35	.622	11133	26.0	23D	-N	3	V	0948	.80	1.00		164	
CATA	23	1000E	1005D	1000	N11	E36	.634	11133	26.1	5D	-N		P	1000	.46	.61		151	
GRP36313	23	1534	1559	1539	N10	E00	.264	11129	23.6	25	--N				.60				4 4 4 6
CANR	23	1534	1553	1536	N10	E01	.264	11129	23.7	19	-N	1	C	1536	.65	.65			
BOUL	23	1535U	1600U	1539U	N10	W02	.266	11129	23.5	25D	-N	1	C	1539	.75	.75			
HUAN	23	1538E	1551	1541	N09	W06	.267	11129	23.2	13D	-B	1	P	1541	.21	.21			D
HUAN	23	1538E	1540	1538U	N11	E02	.283	11129	23.8	2D	-N	1	P	1538	.28	.29			E
MCMA	23	1543E	1605D		N10	E00	.264	11129	23.7	22D	-N		C	1543	.52	.50			BEL
HUAN	23	1550	1558	1554	N10	E03	.269	11129	23.9	8	-N	2	C	1554	.38	.40			E

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GRP36315	23	1819	1829	1822	N18	W28	.590	11128	21.7	10	--F				.23				2 2 2 5
PALE	23	1818	1830	1820	N18	W27	.579	11128	21.7	12	-F		C		.36				F
HUAN	23	1819	1827	1824	N17	W28	.581	11128	21.7	8	-F	2	C	1824	.10	.13			D
GRP36316	23	2120	2144	2124	S16	W10	.251	11130	23.1	24	--F				.55				3 3 1 3
LOCK	23	2119	2137	2124	S18	W11	.286	11130	23.1	18	-F		C						
PALE	23	2121	2201	2127	S17	W09	.253	11130	23.2	40	-N		C		.55				F
BOUL	23	2121	2135	2121	S13	W09	.204	11130	23.2	14	-F	1	V						
317 PALE	23	2203	2232	2211	N17	W31	.614	11128	21.6	29	--N		C		.36				F 2
318 PALE	23	2203	2212D	2211	N14	W41	.707	11128	20.8	9D	--F		C		.27				2
319 LOCK	23	2258E	2306	2258	N10	W03	.269	11129	23.7	8D	--F		C						2
GRP36320	23	2304	2340	2316	N17	W31	.614	11128	21.6	36	-N				.88				2 2 1 2
LOCK	23	2304	2340	2317	N17	W30	.603	11128	21.7	36	-N		C						K
PALE	23	2313E	2315D	2314U	N17	W31	.614	11128	21.6	2D	-N		V		.88				F
321 LOCK	23	2335	2355	2340	N19	E04	.416	11133	24.3	20	--F		C						2
GRP36322	24	0037	0118	0047	S11	W04	.120	11130	23.7	41	--F				.50				3 3 3 4
PALE	24	0037	0124	0050U	S12	W05	.144	11130	23.7	47	-F		C		.58				F
MITK	24	0040E	0120	0046	S10	W03	.096	11130	23.8	40D	-F		C	0046	.62	.60			D
MANI	24	0046E	0110	0046	S12	W03	.126	11130	23.8	24D	-F	2		0046	.31	.31			
GRP36323	24	0317	0338	0319	S11	W01	.099	11130	24.1	21	--F				.72				2 1 1 4
MITK	24	0317	0338	0319	S11	W01	.099	11130	24.1	21	-F		C	0319	.72	.70			D
PALE	24	0329E	0339	0332	S12	E01	.117	11130	24.2	10D	-F		C		.19				
324 TEHR	24	0542	0552	0545	S15	W02	.171	11130	24.1	10	--N		C		.13				HDE 3
GRP36325	24	0551	0605	0553	N11	W07	.306	11129	23.7	14	--N				.44				3 3 3 4
TEHR	24	0550	0600	0552	N11	W07	.306	11129	23.7	10	-N		C		.28				DE
MITK	24	0552	0600	0553	N11	W07	.306	11129	23.7	8	-F		C	0553	.62	.60			E
MANI	24	0554E	0614		N11	W08	.313	11129	23.6	20D	-N	2		0555	.41	.43			
GRP36326	24	0613	0622	0616	S13	W02	.137	11130	24.1	9	--N				.33				2 2 2 5
MANI	24	0611	0622D	0615	S11	W02	.104	11130	24.1	11D	-N	2		0615	.52	.52			
TEHR	24	0615	0622	0617	S15	W02	.171	11130	24.1	7	-N		C		.13				HDE
GRP36330	24	1020	1030	1023	N17	W37	.680	11128	21.7	10	-N				1.15				6 6 5 7
CAPS	24	1018E	1026D		N17	W40	.712	11128	21.4	8D	1N	1	S					176	C
CANR	24	1020	1028	1023	N16	W37	.674	11128	21.7	8	-N	1	C	1023	1.29	1.44			
TEHR	24	1020	1032	1022	N17	W36	.669	11128	21.7	12	-N		C		.59				F
CATA	24	1020	1035D	1025	N17	W37	.680	11128	21.7	15D	-F		P	1025	.87	1.19		146	
ABST	24	1020	1028	1022	N17	W37	.680	11128	21.7	8	-F		C	1022	1.44	2.00		51	EJ
HTRR	24	1021	1028	1023	N16	W37	.674	11128	21.7	7	-N		C	1023	1.55	1.90			
GRP36331	24	1055	1103	1056	S15	W05	.187	11130	24.1	8	--F				.36				3 3 3 7
TEHR	24	1054	1104	1056	S15	W04	.180	11130	24.2	10	-N		C		.28				HDE
HTRR	24	1055	1100	1057	S15	W05	.187	11130	24.1	5	-F		C	1057	.52	.50			
CATA	24	1056E	1105	1056	S15	W05	.187	11130	24.1	9D	-F		P	1056	.29	.30		136	
GRP36333	24	1203	1212	1204	S12	W05	.144	11130	24.1	9	--F				.41				3 3 3 10
TEHR	24	1202	1213	1203	S11	W04	.120	11130	24.2	11	-N		C		.36				DE
RAMY	24	1203	1212	1203	S12	W05	.144	11130	24.1	9	-F		C		.46				DE
HTRR	24	1203	1211	1205	S12	W06	.154	11130	24.1	8	-F		C	1205	.41	.40			
GRP36334	24	1152	1206	1157	N19	W47	.791	11128	21.0	14	-N				1.11				9 9 8 10
CAPE	24	1150	1218	1203	N22	W47	.804	11128	21.0	28	-F		C	1203	1.17	1.90			H
CATA	24	1150	1210	1155	N18	W47	.787	11128	21.0	20	-N		C	1155	1.16	1.27		180	Z
RAMY	24	1152	1205	1156	N19	W47	.791	11128	21.0	13	-N		C		1.13				F
TEHR	24	1152	1205	1156	N20	W47	.795	11128	21.0	13	-N		C		1.37				FDE
HTRR	24	1153	1205	1157	N15	W50	.805	11128	20.7	12	-N		C	1157	1.13	1.60			L
ABST	24	1153	1205	1156	N21	W49	.817	11128	20.8	12	-F		C	1156	.99	1.60		58	EJ
CANR	24	1153	1200	1154	N18	W46	.778	11128	21.0	7	-N	1	C	1154	.54	.86			
ZURI	24	1154	1200	1155	N20	W46	.786	11128	21.0	6	-N		C	1155	1.36	2.20			
WEND	24	1154	1204		N19	W44	.763	11128	21.2	10	-N								
36334	24	1203	1214	1207	N19	W40	.723	11128	21.5	11	*-N				.44				6 6 5 10
RAMY	24	1201	1210	1203	N20	W37	.699	11128	21.7	9	-N		C		.31				DE
TEHR	24	1201	1218	1204	N20	W40	.729	11128	21.5	17	-N		C		.19				DE
HTRR	24	1202	1214	1208	N20	W40	.729	11128	21.5	12	-F		C	1208	.31	.40			L
ABST	24	1202	1218D	1209	N18	W42	.738	11128	21.4	16D	-F		P	1209	.81	1.20		54	DJ
WEND	24	1202	1204		N21	W37	.706	11128	21.7	2	-N								
CATA	24	1210	1220	1210	N16	W42	.728	11128	21.4	10	-N		C	1210	.58	.85		170	

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36334	24	1236	1300	1243	N20	W47	.795	11128	21.0	24	*-F				.69				2 2 2 6
TEHR	24	1212	1255	1240	N20	W46	.786	11128	21.1	43	-N				.55				
HTRR	24	1236	1305	1245	N20	W48	.805	11128	20.9	29	-F		C	1245	.83	1.20			
GRP36336	24	1316	1330	1318	N10	W11	.324	11129	23.7	14	--N				.34				4 4 4 8
HUAN	24	1314	1330	1319	N10	W12	.333	11129	23.7	16	-N	1	C	1319	.12	.13			D
CANR	24	1316	1330	1317	N10	W11	.324	11129	23.7	14	-N	2	C	1317	.22	.34			
RAMY	24	1316	1331	1319	N10	W09	.306	11129	23.9	15	-N		C		.62				DE
HTRR	24	1316	1328	1318	N10	W10	.314	11129	23.8	12	-F		C	1318	.41	.40			
GRP36338	24	1340	1350	1344	S15	W07	.205	11130	24.0	10	--N				.59				5 4 4 7
RAMY	24	1337	1347	1341	S16	W07	.219	11130	24.0	10	-N		C		.52				DE
HUAN	24	1337	1346	1342	S15	E07	.205	11130	25.1	9	-N	1	C	1342	.18	.18			E
HTRR	24	1338	1348	1344	S15	W07	.205	11130	24.0	10	-B		C	1344	.93	1.10			
CANR	24	1338	1448	1340	S15	W06	.196	11130	24.1	70	-N	2	C	1340	.32	.32			
CATA	24	1345	1355	1350	S15	W07	.205	11130	24.0	10	-N		C	1350	.58	.59		158	
GRP36339	24	1436	1502	1446	N21	W47	.800	11128	21.1	26	-N				1.34				5 5 5 6
RAMY	24	1435	1509D	1443	N20	W45	.777	11128	21.2	34D	1B		C		2.37				UF
CANR	24	1435	1501D	1445	N18	W47	.787	11128	21.1	26D	1N	2	C	1445	1.72	2.80			
CAPE	24	1436	1458	1447	N22	W48	.813	11128	21.0	22	-N		C	1447	1.21	2.00			
HTRR	24	1438	1505	1446	N22	W46	.795	11128	21.2	27	-B		C	1446	1.13	1.60			L
HUAN	24	1449E	1456	1449U	N21	W48	.809	11128	21.0	7D	-N	1	P	1449	.28	.46			E
GRP36340	24	1551	1554	1551	S15	W09	.226	11130	24.0	3	--F				.52				2 2 1 4
CANR	24	1549	1553	1550	S14	W08	.202	11130	24.1	4	-N	2	V	1550		.30			
HTRR	24	1552	1555	1552	S15	W10	.238	11130	23.9	3	-F		C	1552	.52	.50			
341 RAMY	24	1621	1651	1624	N14	W43	.730	11128	21.5	30	--F		C		.41				DE 3
342 RAMY	24	1635	1703	1637	N20	W42	.748	11128	21.5	28	--F		C		.31				DE 3
GRP36343	24	1711	1803	1729	N18	W45	.768	11128	21.3	52	-N				1.71				4 4 3 4
RAMY	24	1705	1801	1723	N18	W44	.758	11128	21.4	56	-B		C		1.65				DE
RAMY	24	1705	1801	1710	N18	W44	.758	11128	21.4	56	-B		C		.93				UF
CANR	24	1707	1735D	1730	N16	W45	.759	11128	21.3	28D	1N	2	C	1730	1.94	2.98			
BOUL	24	1720	1805	1730	N20	W47	.795	11128	21.2	45	1N	1	V						
PALE	24	1734E	1851	1734E	N18	W45	.768	11128	21.4	77D	-N		C		1.54				UF
5 STATIONS REPORTING GROUP 36344. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36344	24	1809	1930	1830	N16	W45	.759	11128	21.4	81	1N				1.69				4 3 2 5
PALE	24	1806	1848D	1834	N18	W45	.768	11128	21.4	42D	1N		C		2.89				
BOUL	24	1811	1908	1825	N18	W45	.768	11128	21.4	57	1B	1	V						
HUAN	24	1827E	1841D	1832	N13	W45	.747	11128	21.4	14D	-N	1	P	1832	.48	.71			E
MCMA	24	1900E	1930D		N18	W48	.797	11128	21.2	30D	1N		C	1905	2.58	4.50			BF
36344	24	1806	1847	1814	N17	W46	.773	11128	21.3	41	*1B				2.70				2 2 2 3
RAMY	24	1805	1845	1812	N15	W46	.765	11128	21.3	40	1N		C		3.51				F
PALE	24	1806	1848D	1816	N18	W45	.768	11128	21.4	42D	1B		C		1.89				DE
GRP36345	24	1822	1830	1824	S13	W02	.137	11130	24.6	8	--F				.52				2 2 1 4
RAMY	24	1822	1830	1824U	S15	W10	.238	11130	24.0	8	-N		C		.52				DE
BOUL	24	1824	1829		S11	E06	.142	11130	25.2	5	-F	1	V						
5 STATIONS REPORTING GROUP 36348. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36348	24	2035	2117	2045	N19	W50	.818	11128	21.1	42	1N				.95				3 3 2 5
LOCK	24	2034	2115	2049	N19	W51	.827	11128	21.0	41	1F		C						K
LOCK	24	2034	2115	2039	N19	W51	.827	11128	21.0	41	-F		C						K
BOUL	24	2035	2100U	2039	N20	W52	.839	11128	21.0	25D	1F	1	C	2039	1.28	2.38			
RAMY	24	2036	2049	2039	N21	W46	.791	11128	21.4	13	-N		C		.83				DE
RAMY	24	2045	2119D	2048	N18	W47	.787	11128	21.3	34D	-B		C		.62				DE
36348	24	2041	2128	2103	N19	W49	.810	11128	21.2	47	*-N				1.56				2 2 2 5
PALE	24	2041E	2140	2106U	N20	W48	.805	11128	21.3	59D	1N		C		2.53				U
HUAN	24	2050E	2115	2100	N17	W52	.829	11128	21.0	25D	-N	2	P	2100	.58	1.01			
HUAN	24	2101	2111	2105	N19	W49	.810	11128	21.2	10	-N	2	C	2105	.45	.76			E
7 STATIONS REPORTING GROUP 36350. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36350	24	2215	0020	2331	N18	W49	.806	11128	21.3	125	3B				18.77				2 2 1 3
PALE	24	2215	2231D	2227U	N20	W48	.805	11128	21.3	16D	1N		C		1.80				UF
LOCK	24	2230	0020D	2255	N16	W49	.798	11128	21.3	110D	-F		C						K
LOCK	24	2308	0020D	2330	N16	W49	.798	11128	21.3	72D	3B		C						
PALE	24	2314E	2332D	2332	N19	W49	.810	11128	21.3	18D	4B		C		18.77				
36350	24	2309	0024	2316	N19	W50	.818	11128	21.2	75	*1B				3.92				2 2 2 3
MANI	24	2309	0024	2316	N19	W50	.818	11128	21.2	75	1B	2		2316	2.89	4.80			
PALE	24	2314E	2332D	2315	N19	W49	.810	11128	21.3	18D	2B		C		4.95				U

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36350	24	2346	0324	0250	N19	W51	.827	11128	21.2	218	*3F				8.31				4 1 1 5
VORO	24	2346E	0324		N19	W51	.827	11128	21.2	218D	3F		C	2347	8.31	13.90		132	EJ
MITK	25	0013E	0219D		N18	W49	.806	11128	21.3	126D	3N		C	0013	11.65	19.40			FI
CULG	25	0129E	0303D		N16	W48	.789	11128	21.5	94D	2B		P	0131	4.64	7.20			
KODA	25	0158	0315	0250	N15	W47	.776	11128	21.6	77	1N		P	0158	2.83	2.80	1.56		EU
GRP36356	25	0949	1010	0955	S09	W28	.469	11130	23.3	21	--F				.38				2 2 2 6
MONT	25	0948	0959	0950	S09	W27	.454	11130	23.4	11	-N		C	0950	.52				H
CATA	25	0950	1021	1000	S09	W28	.469	11130	23.3	31	-F		C	1000	.23	.26		135	T
GRP36358	25	1242	1252	1247	S13	E68	.923	11134	30.6	10	--N				.30				2 2 2 5
RAMY	25	1242	1253	1246	S12	E68	.923	11134	30.6	11	-N		C		.41				DE
TEHR	25	1242	1250	1247	S13	E68	.923	11134	30.6	8	-N		C		.19				DE
GRP36359	25	1255	1307	1257	S10	W31	.516	11130	23.2	12	--F				.36				2 2 2 4
TEHR	25	1254	1308	1256	S10	W30	.501	11130	23.3	14	-F		C		.19				HDE
RAMY	25	1255	1306	1258	S10	W31	.516	11130	23.2	11	-F		C		.52				DE
GRP36362	25	1419	1516		S11	W32	.532	11130	23.2	57	--F				.19				2 2 2 5
HUAN	25	1419	1506D	1427	S09	W31	.514	11130	23.3	47D	-F	1	P	1427	.07	.08			D
RAMY	25	1456	1516	1458	S12	W32	.534	11130	23.2	20	-N		C		.31				DE
RAMY	25	1456	1516	1508	S12	W32	.534	11130	23.2	20	-F		C		.62				
GRP36365	25	1615	1655	1624	S09	E69	.930	11134	30.9	40	--N				.26				2 2 2 4
RAMY	25	1615	1655	1621	S08	E69	.930	11134	30.9	40	-N		C		.41				DE
RAMY	25	1615	1655	1638	S08	E69	.930	11134	30.9	40	-F		C		.41				
HUAN	25	1625E	1641D	1626U	S09	E68	.924	11134	30.8	16D	-N	1	P	1626	.10				D
GRP36367	25	1755	1807	1757	N23	W72	.969	11128	20.3	12	--F				.33				4 4 1 4
LOCK	25	1754	1810	1756	N22	W70	.960	11128	20.5	16	-F		C						
HUAN	25	1754	1802	1755	N24	W72	.970	11128	20.3	8	-N	1	C	1755	.33				E
BOUL	25	1756	1813	1757	N22	W76	.982	11128	20.0	17	-F	1	V						
RAMY	25	1756	1804	1758	N22	W70	.960	11128	20.5	8	-N		C						DE
GRP36369	25	1845	1902	1852	S11	E67	.917	11134	30.8	17	--F				.24				2 2 2 5
HUAN	25	1843	1907	1855	S12	E65	.902	11134	30.7	24	-F	1	C	1855	.12	.27			
RAMY	25	1847	1857	1849	S10	E68	.923	11134	30.9	10	-F		C		.36				DE
GRP36370	25	1935	1959	1941	S08	E66	.910	11134	30.8	24	--F				.36				3 3 2 4
LOCK	25	1930	2005	1941	S08	E66	.910	11134	30.8	35	-F		C						
HUAN	25	1932	1947D	1938	S09	E65	.903	11134	30.7	15D	-F	1	P	1938	.15	.35			E
RAMY	25	1942	1953	1944	S08	E67	.917	11134	30.8	11	-F		C		.57				DE
GRP36372	25	1955	2015	1959	S12	W35	.576	11130	23.2	20	--F				.29				3 3 2 3
RAMY	25	1955	1958D	1957	S10	W34	.559	11130	23.3	3D	-F		C		.31				DE
LOCK	25	1955	2015	1958	S14	W35	.580	11130	23.2	20	-F		C						
PALE	25	2003E	2004D	2003E	S13	W36	.592	11130	23.1	1D	-N		C		.27				
GRP36373	25	2013	2026	2018	N16	W60	.892	11128	21.3	13	--F				.62				2 2 1 2
LOCK	25	2010	2026	2018	N16	W60	.892	11128	21.3	16	-F		C						
RAMY	25	2015	2026	2018	N16	W60	.892	11128	21.3	11	-F		C		.62				DE
374 LOCK	25	2045	2100	2048	S18	E26	.474	11139	27.8	15	--F		C						3
GRP36375	25	2049	2111	2053	S08	E65	.903	11134	30.7	22	--F				.41				2 1 1 3
RAMY	25	2049	2111D	2053	S08	E65	.903	11134	30.7	22D	-F		C		.41				DE
LOCK	25	2055	2125	2105	S08	E66	.910	11134	30.8	30	-F		C						
376 RAMY	25	2123E	2130D	2123E	N18	W53	.841	11128	21.9	7D	--F		C		.31				DE 3
377 LOCK	25	2159	2205	2201	N16	W61	.899	11128	21.3	6	--F		C						2
378 LOCK	25	2230	2300	2240	S08	E66	.910	11134	30.9	30	--F		C						3
379 LOCK	25	2324	2341	2330	S10	W36	.587	11130	23.3	17	--F		C						3
GRP36382	26	0105	0115	0107	S12	W28	.476	11130	23.9	10	--F				.41				2 2 2 3
MANI	26	0105E	0115		S13	W28	.479	11130	23.9	10D	-N	2		0105	.41	.47			
PALE	26	0107E	0114	0107E	S11	W27	.458	11130	24.0	7D	-F		V		.41				F
GRP36383	26	0116	0126	0118	N13	W64	.915	11128	21.3	10	--B				.34				3 2 2 3
PALE	26	0056E	0114	0056E	N20	W61	.907	11128	21.5	18D	-N		V		.52				F
MANI	26	0114	0128	0117	N13	W62	.901	11128	21.4	14	-N	2		0117	.31	.60			
VORO	26	0118	0124	0119	N13	W66	.928	11128	21.1	6	-B		C	0119	.37	.90		95	D
	26	0151	0201	NO FLARE PATROL															
385 CULG	26	0201E	0225		N19	W59	.891	11128	21.7	24D	1N		P	0201	1.24	2.70			2

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GRP36386	26	0250	0257	0251	S11	W38	.615	11130	23.3	7	--N				.21				2 1 1 5
MANI	26	0250E	0257	0251	S11	W38	.615	11130	23.3	7D	-N	2		0251	.21	.26			
PALE	26	0256E	0332	0302	S10	W37	.601	11130	23.3	36D	-F		C		.45				F
387 TEHR	26	0350E	0420	0401U	S11	W38	.615	11130	23.3	30D	--N		C		.28				F 3
388 TEHR	26	0426	0438	0428	N23	W73	.973	11128	20.7	12	--N		C		.19				DE 3
389 TEHR	26	0531	0550	0538	N17	W61	.901	11128	21.7	19	--N		C		.19				DE 2
GRP36390	26	0615	0624	0619	S13	W42	.670	11130	23.1	9	--F				.90				2 2 2 3
TEHR	26	0615	0624	0617	S13	W40	.644	11130	23.3	9	-N		C		.45				HF
ABST	26	0618E	0623	0620	S13	W43	.682	11130	23.0	5D	-F		P	0620	1.35	1.80			D
GRP36392	26	1008	1025	1012	S10	E56	.825	11134	30.6	17	--N				.21				2 2 2 6
TEHR	26	1008	1020	1012	S10	E56	.825	11134	30.6	12	-N		C		.19				DE
CANR	26	1010E	1030	1012	S09	E55	.815	11134	30.5	20D	-N	2	C	1012	.22	.38			
GRP36393	26	1038	1051	1040	S13	W44	.695	11130	23.1	13	-N				.76				8 8 6 9
CAPE	26	1035	1057	1041	S13	W43	.682	11130	23.2	22	-N		C	1041	.99	1.30			
CANR	26	1037	1051	1039	S13	W43	.682	11130	23.2	14	-N	2	C	1039	.43	.55			
MONT	26	1037	1048	1040	S11	W43	.680	11130	23.2	11	-N		C	1040	1.86				
TEHR	26	1037	1050	1039	S14	W43	.684	11130	23.2	13	-N		C		.28				DE
ONDR	26	1040E	1049		S13	W44	.695	11130	23.1	9D	1N		V	1042			2.70		CHJ
CATA	26	1040	1055	1040	S13	W43	.682	11130	23.2	15	-N		C	1040	.63	.89		191	
ARCE	26	1040E	1040D		S15	W46	.721	11130	23.0		-F		P	1040	.36	.50			
ISTA	26	1040	1048		S14	W43	.684	11130	23.2	8	-N								
GRP36394	26	1105	1116	1106	N15	W62	.905	11128	21.8	11	-N				.58				4 4 4 8
CANR	26	1100	1105	1101	N13	W66	.928	11128	21.5	5	-N	1	C	1101	.11				
TEHR	26	1104	1125	1106	N14	W61	.896	11128	21.9	21	-N		C		.28				DE
CATA	26	1105	1110	1105	N15	W60	.890	11128	22.0	5	-N		C	1105	.58	1.37		174	
MONT	26	1105	1109	1106	N17	W61	.901	11128	21.9	4	-N		C	1106	1.13				
CANR	26	1105	1120U	1106	N15	W63	.911	11128	21.7	15D	-N	1	C	1106	.32				
GRP36396	26	1130	1143	1134	N23	W81	.994	11128	20.4	13	--F				.21				4 4 1 7
ONDR	26	1129	1145		N23	W80	.993	11128	20.5	16	-F		V	1131			2.00		CD
RAMY	26	1130	1145	1135	N20	W79	.989	11128	20.6	15	-N		C						DE
ISTA	26	1130	1143		N21	W78	.987	11128	20.6	13	-F								
MONT	26	1131	1138	1132	N26	W85	.999	11128	20.1	7	-N		C	1132	.21				
GRP36398	26	1224	1230	1225	N08	E87	.999	11137	2.0	6	--N				.13				4 4 2 10
HUAN	26	1222	1231	1226	N06	E90	1.000	11137	2.3	9	-N	1	C	1226	.15				D
CANR	26	1223	1231	1224	N06	E81	.989	11137	1.6	8	-N	1	C	1224	.11				
TEHR	26	1225E	1229	1225	N11	E90	1.000	11137	2.3	4D	-N		V						DE
ISTA	26	1225	1230		N07	E88	1.000	11137	2.1	5	-F								
GRP36399	26	1224	1245	1233	S11	W42	.668	11130	23.4	21	-N				.73				8 7 5 10
TEHR	26	1217	1245	1219	S10	W42	.667	11130	23.4	28	-F		V						DE
HUAN	26	1218	1240	1231	S12	W42	.669	11130	23.4	22	-N	2	C	1231	.51	.67			E
CAPE	26	1220	1253	1232	S11	W42	.668	11130	23.4	33	-N		C	1232	1.21	1.60			H
ONDR	26	1224	1241D		S12	W42	.669	11130	23.4	17D	2F		V	1230			1.90		CFHJL
CANR	26	1224	1244	1231U	S12	W41	.656	11130	23.4	20	-N	1	C	1231	.54	.72			
CANR	26	1224	1244	1238	S10	W41	.654	11130	23.4	20	-N	1	C	1238	.32	.43			
ISTA	26	1225	1240		S12	W41	.656	11130	23.4	15	-B								
CATA	26	1225	1238	1232	S11	W41	.655	11130	23.4	13	-B		C	1232	.98	1.33		204	
RAMY	26	1233	1251	1240	S09	W45	.704	11130	23.1	18	-F		C		.41				DE
CATA	26	1235	1245	1238	S09	W43	.679	11130	23.3	10	-N		C	1238	.29	.40		195	
GRP36401	26	1328	1343	1331	S12	W45	.706	11130	23.2	15	--N				.50				6 6 5 8
HUAN	26	1325	1338D	1331	S12	W42	.669	11130	23.4	13D	-N	2	C	1331	.23	.32			E
CAPE	26	1327	1350	1330	S11	W46	.717	11130	23.1	23	-N		C	1330	.91	1.30			
CANR	26	1327	1340	1328	S13	W44	.695	11130	23.3	13	-N	2	C	1328	.54	.75			
ONDR	26	1328	1343	1331	S13	W46	.719	11130	23.1	15	1N		V	1331			2.50		CJ
RAMY	26	1329	1341	1334U	S11	W45	.705	11130	23.2	12	-N		C		.52				DE
CATA	26	1330	1340	1330	S12	W45	.706	11130	23.2	10	-N		C	1330	.29	.41		162	
GRP36405	26	1529	1540	1533	N20	W71	.962	11128	21.3	11	--F				.35				2 2 2 6
HUAN	26	1528	1535	1532	N21	W73	.972	11128	21.2	7	-N	1	C	1532	.18				D
RAMY	26	1529	1544	1533	N19	W69	.952	11128	21.5	15	-F		C		.52				DE
GRP36408	26	1706	1720	1709	S13	W47	.730	11130	23.2	14	--N				.41				5 5 4 5
LOCK	26	1703	1725	1710	S11	W48	.740	11130	23.1	22	-N		C						
HUAN	26	1705	1718	1710	S13	W47	.730	11130	23.2	13	-N	2	C	1710	.38	.56			E
RAMY	26	1706	1708D	1708U	S12	W46	.718	11130	23.3	2D	-N		C		.41				DE
BOUL	26	1707U	1718U	1708U	S13	W49	.753	11130	23.0	11D	-N	1	C	1708	.54	.81			
CANR	26	1707	1720	1708	S14	W47	.731	11130	23.2	13	-N	1	C	1708	.32	.47			

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	DATE	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	1971 JAN																		
GRP36409	26	1719	1729	1723	N16	W73	.967	11128	21.2	10	--F				.25				2 2 1 5
HUAN	26	1718	1730	1722	N16	W74	.971	11128	21.2	12	-N	2	C	1722	.25				
LOCK	26	1720	1728	1723	N15	W71	.958	11128	21.4	8	-F		C						
GRP36411	26	1823	1831	1825	N16	W71	.959	11128	21.4	8	--F				.36				2 2 1 4
LOCK	26	1822	1830	1825	N15	W71	.958	11128	21.4	8	-F		C						
PALE	26	1823	1831D	1825	N17	W70	.955	11128	21.5	8D	-F		C		.36				
GRP36413	26	1844	1900	1849	S10	W46	.716	11130	23.3	16	--N				.28				3 3 2 4
PALE	26	1843	1910	1851	S10	W46	.716	11130	23.3	27	-N		C		.45				DE
HUAN	26	1844	1851	1847	S10	W45	.704	11130	23.4	7	-N	2	C	1847	.10	.14			D
LOCK	26	1845	1900	1848	S10	W47	.728	11130	23.3	15	-F		C						
414 HUAN	26	1908	1943	1927	N07	E87	.999	11137	2.3	35	--N	1	C	1927	.18				E 3
GRP36416	26	2021	2038	2028	S12	E51	.774	11134	30.7	17	--F				.17				2 2 2 5
HUAN	26	2021	2038	2027	S11	E50	.763	11134	30.6	17	-N	1	C	2027	.07	.11			D
PALE	26	2029E	2030D	2029E	S12	E52	.785	11134	30.8	1D	-F		V		.26				F
419 LOCK	26	2218	2232	2222	N06	E81	.989	11137	2.0	14	--F		C						3
	26	2303	2355	NO FLARE PATROL															
GRP36420	27	0050	0116	0103	N09	E86	.999	11137	2.5	26	-N				.59				2 2 2 2
MITK	27	0050	0120	0103	N09	E87	.999	11137	2.6	30	1N		C	0103	.72				DH
CRON	27	0104E	0112		N08	E85	.997	11137	2.4	8D	-N		V		.45				
4 STATIONS REPORTING GROUP 36421. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP36421	27	0248	0316	(0249)	N09	E83	.995	11137	2.3	28	-F				.62				2 2 1 5
CULG	27	0248E	0329		N08	E85	.997	11137	2.5	41D	1N		P	0249	.62				
SIBE	27	0253E	0303		N09	E80	.988	11137	2.1	10D	-F		V						D
36421	27	0152	0429	0157	N08	E80	.988	11137	2.1	157	*-B				2.17				2 1 1 2
KODA	27	0152	0429	0157	N08	E80	.988	11137	2.1	157	-B		P	0213	2.17	2.00	2.12		D
MITK	27	0203E	0217	0208	N09	E90	1.000	11137	2.8	14D	1N		C	0208	.83				D
GRP36422	27	0544	0554	0546	N11	W47	.762	11129	23.7	10	-N				.82				3 3 3 5
TEHR	27	0543	0559	0546	N10	W47	.759	11129	23.7	16	-N		C		.36				DE
TACH	27	0544	0552	0546	N11	W47	.762	11129	23.7	8	-N		C	0546	.91	1.38	1.87	51	E
ABST	27	0544E	0551	0547	N12	W48	.776	11129	23.6	7D	-F		P	0547	1.18	1.80		54	E
423 ABST	27	0631	0646	0636	N08	E88	1.000	11137	2.9	15	--F		C	0636	.45			49	DJ 3
GRP36428	27	0939	0957	0939	S12	W51	.774	11130	23.6	18	--N				.62				2 2 2 6
CANR	27	0937	0954	0938	S13	W51	.775	11130	23.6	17	-N	2	C	0938	.65	1.01			
CATA	27	0940	1000	0940	S11	W50	.763	11130	23.7	20	-N		C	0940	.58	.90		151	
GRP36429	27	0943	0952	0944	N09	E82	.993	11137	2.6	9	--F				.33				2 2 2 5
ABST	27	0943	0948	0944	N09	E87	.999	11137	2.9	5	-F		C	0944	.54			55	DJ
CANR	27	0943	0956	0944	N09	E77	.979	11137	2.2	13	-N	1	C	0944	.11				
GRP36433	27	1353	1404	1356	N05	E68	.932	11137	1.7	11	--F				.31				2 2 1 6
RAMY	27	1353	1405	1356	N05	E68	.932	11137	1.7	12	-F		C						DE
HTRR	27	1353	1402	1356	N05	E68	.932	11137	1.7	9	-F		C	1356	.31				
GRP36437	27	1722	1740	1727	N18	W80	.991	11128	21.7	18	--F								2 1 0 5
LOCK	27	1722	1740	1727	N18	W80	.991	11128	21.7	18	-F		C						
BOUL	27	1729	1733	1730	N21	W90	1.001	11128	21.0	4	-F	1	V						
438 RAMY	27	1805	1818	1811	N17	W85	.999	11128	21.4	13	-N		C						DE 4
440 BOUL	27	2112	2135	2115	S13	E35	.578	11134	30.5	23	--N	1	C	2115	.32	.40			1
GRP36441	27	2219	2230	2221	N20	W90	1.001	11128	21.2	11	-N								1 1 0 1
BOUL	27	2219	2224	2221	N20	W90	1.001	11128	21.2	5	-N	2	V						
BOUL	27	2222	2230	2224	N21	W90	1.001	11128	21.2	8	-N	2	V						
	27	2304	2334	NO FLARE PATROL															
442 MITK	28	0048	0100	0058	N19	W90	1.001	11128	21.3	12	--F		C	0058	.52				D 3
443 TEHR	28	0508	0516	0511	S08	E29	.483	11134	30.4	8	--N		C		.19				DE 3
444 TEHR	28	0518	0525D	0521	S12	E32	.533	11134	30.6	7D	--N		C		.36				DE 3
GRP36446	28	0946	1029	0949	N10	W62	.897	11129	23.8	43	--F				.49				2 2 2 5
CAPS	28	0944E	1009D		N10	W60	.881	11129	23.9	25D	-N	3	V	0959	.70	1.50			
TEHR	28	0948	1029	0949	N09	W63	.903	11129	23.7	41	-F		C		.28				DE

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OBSERV-ATORY	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	1971 JAN																		
GRP36447	28	0959	1011	1003	S09	E27	.454	11134	30.4	12	--N				.25				3 3 3 7
CATA	28	0955E	1005D	1000	S10	E27	.455	11134	30.4	10D	-N		P	1000	.34	.39		151	
CANR	28	1001	1012	1004	S09	E27	.454	11134	30.4	11	-N	2	C	1004	.22	.24			
TEHR	28	1001	1010	1004	S08	E28	.468	11134	30.5	9	-N		C		.19				DE
GRP36449	28	1309	1345	1314	N11	W67	.932	11129	23.5	36	-B				1.54				5 4 4 6
RAMY	28	1308	1340	1313	N12	W68	.939	11129	23.4	32	1B		C		2.78				F
HTRR	28	1309	1333	1315	N12	W65	.921	11129	23.7	24	-B		C	1315	1.03	2.00			
CANR	28	1310	1400U	1314	N09	W67	.930	11129	23.5	50D	1N	2	C	1314	1.40				
CAPE	28	1313E	1347	1314	N12	W68	.939	11129	23.5	34D	-N		P	1314	.95	2.50			
MCMA	28	1332E	1450		N10	W68	.937	11129	23.5	78D	-N		C	1332	.52	1.50			BEL
GRP36451	28	1704	1714	1708	N10	W70	.948	11129	23.5	10	--F				.34				2 2 2 4
RAMY	28	1704	1713	1708U	N11	W70	.949	11129	23.5	9	-F		C		.41				DE
MCMA	28	1704	1715	1707	N09	W70	.947	11129	23.5	11	-N		C	1707	.26	.80			D
GRP36453	28	1918	1925	1922	N04	E54	.817	11137	1.9	7	--F				.31				2 1 1 5
LOCK	28	1918	1925	1922	N04	E54	.817	11137	1.9	7	-F		C						
RAMY	28	1920	1926	1921	N15	E54	.842	11137	1.9	6	-F		C		.31				DE
GRP36454	28	1942	1946	1944	N06	E54	.821	11137	1.9	4	--F				.19				3 3 2 4
MCMA	28	1942	1947	1944	N06	E53	.811	11137	1.8	5	-N		C	1944	.26	.40			D
LOCK	28	1942	1946	1944	N05	E54	.819	11137	1.9	4	-F		C						
BOUL	28	1944E	1946	1944U	N06	E56	.840	11137	2.0	2D	-F	1	C	1944	.11	.20			
455 MCMA	28	2020E	2030D		N19	E90	1.001	11137	4.6	10D	--F		C	2025					2
456 HUAN	28	2237	2241D	2240	S13	E26	.448	11134	30.9	4D	--N	1	P	2240	.12	.14			D 2
	28	2302	2335	NO FLARE PATROL															
GRP36459	29	0935	0942	0935	N07	E51	.793	11137	2.2	7	--N				.30				4 4 4 11
CANR	29	0934	0941	0935	N08	E53	.815	11137	2.4	7	-N	1	C	0935	.43	.75			
TEHR	29	0934	0943	0935	N07	E50	.783	11137	2.1	9	-N		C		.19				F
CATA	29	0935	0940D	0935	N05	E49	.767	11137	2.1	5D	-N		P	0935	.34	.58		184	
CRON	29	0935	0942	0936	N06	E50	.780	11137	2.1	7	-N	2	C	0936	.22	.34			
CRON	29	0940E	1003		N07	E52	.803	11137	2.3	23D	-F		V		.60				
GRP36462	29	1127	1146	1132	N19	E79	.989	11137	4.4	19	--N				.29				3 3 2 9
CANR	29	1127	1140	1134	N19	E76	.981	11137	4.2	13	-N	2	C	1134	.22				
TEHR	29	1127	1144	1131	N20	E78	.987	11137	4.3	17	-N		C		.36				F
RAMY	29	1128	1155	1132	N19	E82	.995	11137	4.6	27	-N		C						DE
GRP36463	29	1210	1225	1214	S20	E86	.995	11142	5.0	15	--N				.25				3 3 2 9
CANR	29	1210	1225	1214	S19	E83	.989	11142	4.7	15	-N	2	C	1214	.22				
TEHR	29	1210	1224D	1214	S20	E88	.998	11142	5.1	14D	-N		C		.28				F
RAMY	29	1211	1225	1214	S21	E86	.995	11142	5.0	14	-N		C						DE
465 RAMY	29	1604	1615	1606	N25	E80	.993	11137	4.7	11	--F		C						DE 2
GRP36466	29	1723	1736	1728	N08	E46	.742	11137	2.2	13	--F				.67				2 2 1 4
RAMY	29	1723E	1732	1726	N08	E45	.731	11137	2.1	9D	-F		V		.67				DE
LOCK	29	1730E	1740	1730	N07	E46	.739	11137	2.2	10D	-F		C						
GRP36468	29	1854	1934	1902	N20	E79	.990	11137	4.7	40	-F				1.04				3 2 1 3
RAMY	29	1852	1903D	1858	N18	E78	.986	11137	4.6	11D	-F		C						DE
LOCK	29	1855	1933	1905	N21	E79	.990	11137	4.7	38	1F		C						S
PALE	29	1902	1934	1917	N28	E78	.991	11137	4.6	32	1F		C		1.04				FS
469 PALE	29	2055	2114	2107	N21	E37	.709	11143	1.6	19	--F		C		.27				F 3
GRP36470	29	2225	2323	2256	S10	E10	.187	11134	30.7	58	1B				2.89				3 2 1 3
PALE	29	2220	2316	2255	S09	E10	.181	11134	30.7	56	1N		C		2.89				F
LOCK	29	2230	2330	2256	S11	E09	.179	11134	30.6	60	1B		C						
CRON	29	2250	2325	2300	S05	E00	.014	11134	30.0	35	-N		V		1.80				
GRP36471	30	0247	0256	0250	N04	E39	.645	11137	2.0	9	-N				1.07				3 3 3 4
PALE	30	0245	0300	0250	N03	E39	.642	11137	2.0	15	-N		C		1.34				F
MITK	30	0248	0255	0249	N03	E40	.655	11137	2.1	7	-F		C	0249	1.03	1.40			EH
VORO	30	0249	0253	0250	N05	E39	.648	11137	2.0	4	-B		C	0250	.84	1.10		69	EJ
GRP36474	30	0941	0950	0944	S21	E77	.969	11142	5.2	9	--F				.25				2 2 2 4
CRON	30	0941	0949	0942	S21	E77	.969	11142	5.2	8	-F	2	C	0942	.22				
TEHR	30	0946E	0951	0946U	S21	E76	.965	11142	5.1	5D	-N		C		.28				DE
477 RAMY	30	1612	1625	1614	S10	E03	.089	11134	30.9	13	--F		C		.52				DE 2

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OBSERVATORY	DATE 1971	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
	JAN																		
GRP36478	30	1755	1833	1805	S12	W01	.108	11134	30.7	38	-N				1.12				3 3 2 3
PALE	30	1749	1829	1806	S12	W03	.119	11134	30.5	40	-N		C		.99				DE
LOCK	30	1756	1830	1807	S13	W03	.134	11134	30.5	34	-N		C						
RAMY	30	1759	1839	1803U	S12	E02	.112	11134	30.9	40	-N		C		1.24				F
479 LOCK	30	1844	1850	1846	S09	W05	.102	11134	30.4	6	--F		C						3
GRP36480	30	1944	1954	1948	S10	W05	.112	11134	30.4	10	--F				.27				2 2 1 3
LOCK	30	1943	1953	1948	S09	W05	.102	11134	30.4	10	-F		C						
PALE	30	1944	1954	1947	S11	W04	.113	11134	30.5	10	-F		C		.27				F
481 LOCK	30	2005	2010	2007	S09	W05	.102	11134	30.5	5	--F		C						2
GRP36482	30	2029	2156	2035	S12	W04	.127	11134	30.6	87	-N				.55				2 2 1 2
PALE	30	2028	2152	2035	S12	W05	.137	11134	30.5	84	-N		C		.55				F
PALE	30	2028	2152	2135	S12	W05	.137	11134	30.5	84	-N				1.54				
PALE	30	2028	2152	2047	S12	W05	.137	11134	30.5	84	-N				1.08				
LOCK	30	2029	2200	2035	S11	W03	.103	11134	30.6	91	-N		C						K
LOCK	30	2029	2200	2121	S11	W03	.103	11134	30.6	91	-N		C						K
483 VORO	31	0050	0053	0051	S12	W11	.215	11134	30.2	3	--B		C	0051	.93	.90		67	D 3
GRP36484	31	0103	0203	0136	S12	W07	.160	11134	30.5	60	1B				2.26				4 4 4 4
MITK	31	0103	0157	0132	S11	W07	.149	11134	30.5	54	-B		C	0132	1.55	1.60			E
CRON	31	0115E	0215	0142	S12	W07	.160	11134	30.5	60D	1N		V		2.20				
VORO	31	0131	0156	0134	S13	W06	.160	11134	30.6	25	1B		C	0134	2.31	2.30		97	EHJ
PALE	31	0136E	0203	0136E	S12	W07	.160	11134	30.5	27D	1B		C		2.98				F
GRP36486	31	0223	0303	0232	S13	W08	.184	11134	30.5	40	-N				1.51				4 4 4 5
MITK	31	0216	0307	0233	S14	W08	.195	11134	30.5	51	-F		C	0233	1.34	1.40			E
PALE	31	0226E	0236D	0230U	S12	W08	.173	11134	30.5	10D	-N		C		1.99				FDE
VORO	31	0226	0253	0234	S14	W07	.184	11134	30.6	27	-B		C	0234	1.47	1.50		88	EJ
MANI	31	0227E	0310		S12	W10	.201	11134	30.4	43D	-N	2		0230	1.24	1.26			
488 CRON	31	0606	0614	0608	S08	W10	.176	11134	30.5	8	--N	2	C	0608	.32	.32			2
GRP36489	31	0618	0626	0620	S13	W11	.224	11134	30.4	8	--F				.54				2 2 2 3
CRON	31	0618E	0626		S13	W11	.224	11134	30.4	8D	-F		V		.80				
TEHR	31	0620U	0620U	0620U	S12	W10	.201	11134	30.5		-N		C		.28				DE
GRP36490	31	0715	0736	0720	S13	W10	.210	11134	30.6	21	-N				2.19				4 4 4 4
CRON	31	0712	0735	0719	S13	W12	.238	11134	30.4	23	-N		V		1.90				
TEHR	31	0712	0716D	0714	S12	W10	.201	11134	30.5	4D	-N		C		.91				F
KODA	31	0715	0733	0720	S14	W08	.195	11134	30.7	18	1B		V	0720	2.63	2.60	2.40		D
BUCA	31	0720	0740		S12	W10	.201	11134	30.6	20	1N		P	0720	3.32	3.30			B
GRP36491	31	1114	1147	1129	S12	W13	.245	11134	30.5	33	-B				2.13				5 4 4 5
CANR	31	1114	1141	1116	S13	W13	.253	11134	30.5	27	-B	2	C	1116	1.72	1.72			
CAPS	31	1115E	1146D		S11	W12	.223	11134	30.6	31D	1B	2	V	1125	2.00	2.10		200	CUJ
RAMY	31	1130E	1155D	1130E	S12	W13	.245	11134	30.5	25D	-N		V		1.55				F
CATA	31	1130E	1140D	1130	S12	W12	.230	11134	30.6	10D	1B		P	1130	3.25	3.35		224	Z
HUAN	31	1140E	1153	1140U	S13	W12	.238	11134	30.6	13D	-N	1	P	1140	.15	.16			D
492 CANR	31	1239	1255U	1240U	S09	W14	.246	11134	30.5	16D	--B	2	C	1240	.32	.32			3
493 CANR	31	1305U	1320U	1308	N09	W06	.277	11140	31.1	15D	--F	2	C	1308	.22	.22			3
GRP36494	31	1335	1353	1338	S11	W13	.239	11134	30.6	18	--F				.47				2 2 2 4
CANR	31	1335	1354	1338	S10	W13	.233	11134	30.6	19	-F	2	C	1338	.22	.22			
RAMY	31	1335	1351	1338	S11	W13	.239	11134	30.6	16	-F		C		.72				DE
GRP36496	31	1413	1430	1416	S14	W14	.275	11134	30.5	17	-N				1.78				2 2 2 5
HERS	31	1413E	1430	1413U	S13	W14	.267	11134	30.5	17D	1N		P	1414	3.35	3.50			F
HUAN	31	1417E	1418D	1418U	S14	W13	.261	11134	30.6	1D	-N	2	P	1418	.21	.21			E
GRP36497	31	1433	1443	1436	S10	W14	.249	11134	30.6	10	--B				.64				2 2 2 4
CANR	31	1433	1441	1435	S10	W15	.265	11134	30.5	8	-N	2	C	1435	.65	.65			
CANR	31	1433	1441	1435	S10	W15	.265	11134	30.5	8	-N	2	C	1435	.65	.65			
RAMY	31	1434E	1445	1436	S09	W13	.229	11134	30.6	11D	-B		C		.62				DE
GRP36498	31	1459	1516	1503	S11	W14	.254	11134	30.6	17	--F				.22				2 2 1 3
CANR	31	1459	1516	1504	S11	W15	.270	11134	30.5	17	-F	1	C	1504	.22	.22			
CANR	31	1459	1516	1504	S11	W15	.270	11134	30.5	17	-F	1	C	1504	.22	.22			
RAMY	31	1500E	1503D	1502	S10	W13	.233	11134	30.6	3D	-F		C						DE
GRP36499	31	1519	1533	1522	S10	W15	.265	11134	30.5	14	--N				.49				3 3 3 4
MCMA	31	1518	1532	1521	S10	W14	.249	11134	30.6	14	-N		C	1521	.41	.40			E
CANR	31	1519	1535	1521	S10	W16	.282	11134	30.4	16	-N	2	C	1521	.54	.54			
RAMY	31	1522E	1532D	1523	S10	W15	.265	11134	30.5	10D	-N		C		.52				DE

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1971	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	JAN																		
	31	1730	1735	NO FLARE PATROL															
	31	1845	1900	NO FLARE PATROL															
501 MCMA	31	1900E	2000D		S10	W13	.233	11134	30.8	60D	--N		C	1902	.83	.80			EL 2
GRP36502	31	1900	1926	1908	N04	E14	.295	11137	1.8	26	--N				.29				2 2 2 2
MCMA	31	1900E	1912		N04	E14	.295	11137	1.8	12D	-N		C	1903	.31	.30			D
PALE	31	1902E	1926D	1908U	N04	E14	.295	11137	1.8	24D	-N		C		.27				
MCMA	31	1915	1925	1916	N04	E14	.295	11137	1.9	10	-B		C	1916	.41	.40			EHL
	31	1928	1937	NO FLARE PATROL															
	31	2002	2030	NO FLARE PATROL															
	31	2034	2102	NO FLARE PATROL															
503 BOUL	31	2243	2254	2247	S05	E70	.938	11145	6.2	11	--F	1	V						1
	31	2305	2316	NO FLARE PATROL															
GRP36504	31	2310	2330	2318	N05	W36	.610	11136	29.3	20	--F				.81				2 2 2 3
CRON	31	2310	2330	2320	N06	W35	.601	11136	29.3	20	-F		V		.90				
PALE	31	2313E	2327D	2315U	N04	W37	.619	11136	29.2	14D	-N		C		.72				F
505 PALE	31	2337E	2347	2337E	S09	W16	.278	11134	30.8	10D	--N		C		.45				F 2

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.

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

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
710101	9.86	23.9	710111	12.93	19.7	710121	34.27	23.9
710102	6.12	24.0	710112	36.80	22.4	710122	36.37	24.0
710103	0.00	23.5	710113	6.39	23.5	710123	34.75	24.0
710104	5.06	24.0	710114	66.12	22.3	710124	1917.66	24.0
710105	17.78	23.9	710115	5.11	23.0	710126	16.06	23.0
710106	10.15	24.0	710116	59.67	24.0	710127	9.23	23.5
710107	10.49	24.0	710117	1.90	24.0	710128	12.52	23.5
710108	0.84	23.5	710118	24.02	24.0	710129	49.79	24.0
710109	64.81	24.0	710119	20.07	23.2	710130	14.26	24.0
710110	11.64	24.0	710120	5.49	24.0	710131	104.97	22.4

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

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OBSERV-ATORY	OBSERVED UT DATE 1971 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
908 PALE	01	0034E	0037D	0036U	N14	W65	.918	11104	27.1	3D	-N		C		.36				4
910 KODA	01	0219	0312	0238	N04	E43	.689	11105	4.3	53	-N		P	0219	1.75	1.80	1.28		D 4
911 TEHR	01	1007	1027	1013	S11	E27	.469	11101	3.4	20	-N		C		.45				DE 4
918 PALE	02	0003	0017	0004	S29	E69	.941	11107	7.2	14	-N		C		.19				7
GRP35919	02	0158	0229	0204	N09	E31	.547	11105	4.4	31	-F				.53				2 2 2 6
PALE	02	0158E	0245	0201	N10	E32	.566	11105	4.5	47D	-F		C		.45				F
CRON	02	0206E	0212	0207	N07	E30	.524	11105	4.3	6D	-F		V		.60				
920 MANI	02	0421E	0423D		S14	W72	.950	11095	27.8	2D	-N	2		0422	.31	.68			4
GRP35921	02	0645	0720	0654	N12	W52	.807	11097	29.4	35	-N				.56				2 2 2 6
TEHR	02	0640	0720	0654	N13	W48	.769	11097	29.7	40	-N		C		.28				DE
MANI	02	0649	0712D	0653	N10	W55	.832	11097	29.2	23D	-N	2		0653	.83	1.40			
922 CRON	02	0707	0718U	0711	S15	W70	.939	11095	28.0	11D	-F	2	C	0711	.22				6
923 ABST	02	0745E	0803D	0747	N12	W50	.787	11097	29.6	18D	-F		P	0747	1.18	1.09			EJ 8
924 ABST	02	0747E	0801D	0748	S15	W70	.939	11095	28.1	14D	1F		P	0748	.90				FZ 8
926 TEHR	02	1101	1105	1102	S13	W71	.944	11095	28.1	4	-N		C		.19				DE 6
928 CANR	02	1149	1154D		S15	W70	.939	11095	28.2	5D	-N	1	C		.11				5
930 HUAN	02	1443E	1449D	1443U	S12	W03	.163	11101	2.4	6D	-N	1	P	1443	.21	.21			D 5
936 PALE	03	0240	0255	0242	N04	E11	.228	11105	3.9	15	-F		C		.19				F 5
GRP35938	03	0841	0851	0843	S31	W18	.538	11101	2.0	10	-F				.37				2 2 2 10
CRON	03	0840	0854	0844	S30	W17	.518	11101	2.1	14	-F	2	C	0844	.22	.27			
MONT	03	0841	0847	0842	S31	W18	.538	11101	2.0	6	-N		C	0842	.52				
939 TEHR	03	1115	1125	1118	N03	E06	.150	11105	3.9	10	-F		C		.28				DE 4
942 HUAN	03	1932	1950	1935	N05	E04	.159	11105	4.1	18	-F	1	C	1935	.05	.05			D 4
943 HUAN	03	2046	2117	2103U	N22	E86	.999	11112	10.3	31	-F	1	P	2103	.23				4
947 ABST	04	0921E	0927D	0925	N05	W03	.154	11105	4.2	6D	-F		P	0925	1.80	1.80			E 7
948 TEHR	04	0949	1010	1000	S14	W13	.287	11101	3.4	21	-F		C		.28				DES 4
952 CANR	05	0856	0903	0859	S14	E83	.991	11114	11.6	7	-N	2	C	0859	.11				6
GRP35954	05	0926	0955	0939	S08	E67	.919	11111	10.4	29	-N				1.41				2 2 2 8
CANR	05	0930	0956	0941U	S08	E67	.919	11111	10.4	26	-N	1	C	0941	.32				
ABST	05	0933	0953	0936	S08	E66	.912	11111	10.3	20	-F		C	0936	.81			55	EJ
955 TEHR	05	0945	1008	0947	N14	W11	.352	11105	4.6	23	-F		C		.19				DE 8
956 WEND	05	1136	1146		S05	E65	.905	11111	10.4	10	-N								8
958 RAMY	05	1425	1433D	1429U	S05	E64	.897	11111	10.4	8D	-N		V		.41				DE 5
959 HUAN	05	2025E	2035	2027	S07	E65	.905	11111	10.7	10D	-F	1	P	2027	.15	.34			D 3
961 TEHR	06	0925	0940	0928	S04	E55	.818	11111	10.5	15	-F		C		.28				DE 9
969 TEHR	07	0547	0558	0548	N12	E39	.667	11112	10.2	11	-N		C		.28				DE 5
970 TEHR	07	0612	0621	0616	N14	E42	.710	11112	10.4	9	-N		C		.28				DE 5
GRP35973	07	1049	1056	1050	N03	W44	.701	11105	4.2	7	-F				.30				2 2 2 11
CRON	07	1048E	1054		N04	W42	.678	11105	4.3	6D	-F		V		.40				
TEHR	07	1049	1057	1050	N01	W46	.722	11105	4.0	8	-N		C		.19				DE
974 RAMY	07	1300	1318		N02	W90	1.000	11098	31.8	18	-F		C						DE 10
975 HUAN	07	1347	1353	1350	S09	E43	.682	11111	10.8	6	-N	1	C	1350	.18	.24			D 7
978 HUAN	07	2207	2228	2214	N01	W56	.831	11105	3.7	21	-F	1	C	2214	.10	.19			D 4
980 TEHR	08	0355E	0412	0357U	S08	E30	.502	11111	10.4	17D	-N		C		.23				DE 6

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OBSERV-ATORY	DATE 1971 JAN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
GRP35982	08	0725	0750	0725	S05	E26	.438	11111	10.3	25	-N				.20				1 1 1 8
CATA	08	0725	0750D	0725	S05	E29	.484	11111	10.5	25D	-N		P	0725	.20	.23		186	
CATA	08	0725	0750D	0730	S05	E24	.406	11111	10.1	25D	-N		P	0730	.17	.19		166	Z
983 HTRR	08	1058	1111	1100	S08	E24	.410	11111	10.3	13	-F		C	1100	.21	.20			D 8
984 HTRR	08	1135	1145	1136	N02	E25	.433	11111	10.4	10	-F		C	1136	.10	.10			D 8
990 TEHR	09	0432	0436	0433	S04	E12	.207	11111	10.1	4	-F		C		.19				DE 5
991 MITK	09	0542	0546	0543	S03	E11	.191	11111	10.1	4	-F		C	0543	.62	.60			D 5
992 ARCE	09	0843E	0843D		S04	E12	.207	11111	10.3		-F		P	0843	.48	.50			11
993 CRON	09	0926E	0932		N05	W70	.943	11105	4.1	6D	-F		V		.30				11
GRP35994	09	1020	1029	1022	S08	E14	.251	11111	10.5	9	-F				.35				2 2 2 10
TEHR	09	1020	1029	1022	S08	E14	.251	11111	10.5	9	-N		C		.19				DE
CRON	09	1022E	1028		S07	E14	.247	11111	10.5	6D	-F		V		.50				
GRP35997	09	1141	1202	1145	S00	W77	.974	11105	3.7	21	-F				.15				2 2 2 13
CANR	09	1140	1155	1144	S01	W76	.970	11105	3.8	15	-N	2	C	1144	.11				
TEHR	09	1141	1208	1146	N01	W77	.975	11105	3.7	27	-F		C		.19				DE
002 HUAN	09	1551	1601	1555	S04	E07	.122	11111	10.2	10	-N	1	C	1555	.23	.23			E 5
003 RAMY	09	1628	1637	1630U	S19	E00	.260	11110	9.7	9	-F		C		.31				DE 4
004 HUAN	09	1631E	1655	1640	S20	E00	.277	11120	9.7	24D	-N	1	C	1640	.15	.16			E 4
006 HUAN	09	1715	1747	1731U	S20	W01	.278	11110	9.6	32	-N	1	P	1731	.21	.21			E 3
008 HUAN	09	1805	1817	1810	S11	E43	.684	11116	13.0	12	-N	2	P	1810	.12	.17			E 4
014 MANI	09	2340	2352	2342	S10	E90	1.000	11122	16.7	12	-N	2		2342	.41	1.34			4
015 TEHR	10	0548	0610	0551	N05	W05	.179	11112	9.9	22	-N		C		.28				DE 5
016 HTRR	10	1107	1113	1108	S03	W07	.123	11111	9.9	6	-F		C	1108	.41	.40			H 9
025 CRON	10	2245E	2258		S11	E27	.464	11116	13.0	13D	-F		V		.80				3
028 CRON	11	0117	0125	0119	S08	W10	.185	11111	10.3	8	-F	1	C	0119	.43	.43			5
029 CRON	11	0202	0215	0204	S11	W13	.252	11111	10.1	13	-N	1	C	0204	.22	.22			5
031 CRON	11	0336	0353U	0343	S11	W13	.252	11111	10.2	17D	-F	1	C	0343	.22	.22			5
038 ARCE	11	0846	0900	0846	S06	W19	.326	11111	9.9	14	-F		C	0846	.48	.50			4
039 ARCE	11	0915E	0947		S10	W15	.276	11111	10.3	32D	-F		C	0925	.51	.60			7
040 CANR	11	0946	0946D		N21	E57	.877	11119	15.7		-F	3	V			.60			8
GRP36041	11	0949	0955	0951	S06	W18	.309	11111	10.1	6	-F				.81				2 2 1 8
ABST	11	0949	0955	0951	S05	W19	.325	11111	10.0	6	-F		C	0951	.81	.90		51	DJ
CANR	11	0949	0949D		S06	W16	.276	11111	10.2		-N	3	V			.40			
042 ARCE	11	0950	0957	0950	N21	E51	.828	11119	15.2	7	-N		C	0950	.58	1.00			E 8
045 CANR	11	1105	1120	1107	S10	W12	.230	11111	10.6	15	-N	2	C	1107	.32	.32			5
046 CATA	11	1155E	1210D	1155	S03	W19	.326	11111	10.1	15D	-F		P	1155	.34	.37		138	6
GRP36052	11	2307	2327	2313	S04	W24	.406	11111	10.2	20	-N				.70				1 1 1 3
CRON	11	2307	2322	2313	S04	W26	.437	11111	10.0	15	-N	2	C	2313	.32	.36			
CRON	11	2311E	2327	2313	S04	W23	.390	11111	10.2	16D	-N		V		.70				
054 CRON	12	0137	0144	0140	S13	E66	.911	11122	17.0	7	-N	1	C	0140	.11				7
055 MANI	12	0223E	0230		N20	E45	.771	11119	15.5	7D	-F	2		0225	.41	.64			6
056 CRON	12	0515E	0520	0515E	S05	W31	.514	11111	9.9	5D	-F		V		.50				3
GRP36058	12	0752	0813	0802	S15	E40	.653	11121	15.3	21	-F				.56				2 2 2 8
ABST	12	0752E	0815D	0758	S15	E40	.653	11121	15.3	23D	-F		P	0758	.72	.90		49	EJK
CRON	12	0803E	0810	0805E	S15	E40	.653	11121	15.3	7D	-N		V		.40				
059 CRON	12	0820	0825	0822	S15	E40	.653	11121	15.3	5	-F		V		.25				8

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OBSERVATORY	DATE 1971 JAN	OBSERVED UT START	OBSERVED UT END	OBSERVED UT MAX. PHASE	LOCATION APPROX. LAT.	LOCATION APPROX. MER. DIST.	LOCATION CENTRAL DISTANCE	LOCATION MCMATH PLAGE REGION	LOCATION CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
060 ABST	12	0841	0844D	0842	S16	E37	.618	11121	15.1	3D	-F		P	0842	.81	1.00		56	DJ 9
GRP36061	12	0904	0913	0905	N21	E49	.811	11119	16.1	9	-F				.42				2 1 1 12
ARCE	12	0904E	0913		N21	E49	.811	11119	16.1	9D	-F		C	0904	.42	.70			
CANR	12	0904	0908	0905	N20	E39	.711	11119	15.3	4	-N	1	C	0905	.32	.46			
063 ARCE	12	0935E	1000D		S16	E37	.618	11121	15.2	25D	-F		C	0936	.46	.60			H 10
064 ONDR	12	0948E	0959	0952	S16	W34	.579	11110	9.9	11D	-F		V	0952			2.30		CJ 12
076 HUAN	13	1311	1322D	1320	S14	E23	.417	11121	15.3	11D	-F	1	P	1320	.30	.33			E 5
078 CAPS	13	1405E	1413		S08	W38	.615	11111	10.7	8D	-F	3	V	1407	.80	1.00		145	4
079 HUAN	13	1504	1509	1507	S05	W43	.680	11111	10.4	5	-F	1	C	1507	.10	.14			D 6
080 HUAN	13	1705	1716	1710	S09	W46	.718	11111	10.3	11	-F	1	C	1710	.18	.25			4
082 HUAN	13	1936	1945	1940	S25	W62	.890	11124	9.2	9	-F	2	P	1940	.10	.22			D 3
086 CRON	14	0105E	0118		N10	W03	.255	11117	13.8	13D	-F		V		.50				5
088 TEHR	14	0502	0512	0505	N26	E26	.636	11119	16.2	10	-N		C		.19				DE 6
GRP36090	14	0830	0850	0835	N09	W10	.288	11117	13.6	20	-N				.29				2 2 2 8
TEHR	14	0830	0845	0832	N09	W09	.278	11117	13.7	15	-N		C		.28				SDE
CATA	14	0830	0855	0837	N09	W10	.288	11117	13.6	25	-N		C	0837	.29	.30		155	
GRP36091	14	1009	1021	1014	N11	W11	.324	11117	13.6	12	-F				3.15				1 1 1 9
ABST	14	1009	1021D	1014	N09	W09	.278	11117	13.7	12D	-F		P	1014	1.80	1.90		48	EJ
ABST	14	1009	1021D	1015	N13	W14	.380	11117	13.4	12D	-F		P	1015	1.35	1.40		45	EGJ
GRP36095	14	1208	1228	1213	N15	E55	.847	11123	18.6	20	-F				.27				2 2 2 8
RAMY	14	1207	1225D	1212	N15	E57	.863	11123	18.8	18D	-F		C		.31				DE
CANR	14	1209	1228	1213	N14	E52	.817	11123	18.4	19	-N	2	C	1213	.22	.38			
103 CRON	15	0323	0331	0326	S07	W65	.904	11111	10.3	8	-N		V		.75				4
105 MITK	15	0444	0451	0445	S07	W66	.911	11111	10.2	7	-N		C	0445	.52				E 4
109 CRON	15	0643	0650	0645	N20	W76	.980	11108	9.6	7	-N	1	C	0645	.22				5
110 CRON	15	0956	1020	1005	S05	W70	.938	11111	10.2	24	-F	1	C	1005	.22				6
GRP36111	15	1155	1206	1159	N12	W30	.561	11117	13.2	11	-N				.17				2 2 2 8
HUAN	15	1154	1205	1157	N12	W30	.561	11117	13.2	11	-F	1	C	1157	.18	.21			D
CANR	15	1155	1206	1201U	N11	W29	.541	11117	13.3	11	-N	1	C	1201	.22	.26			
HUAN	15	1156	1203	1157	N12	W30	.561	11117	13.2	7	-N	2	C	1157	.12	.15			D
112 HUAN	15	1232	1241	1237	S05	W70	.938	11111	10.3	9	-N	1	P	1237	.18				D 3
114 HUAN	15	1351	1402	1357	N12	W31	.573	11117	13.3	11	-F	1	P	1357	.07	.09			D 5
118 HUAN	15	1653	1704	1657	N16	W06	.365	11119	15.3	11	-F	1	P	1657	.25	.27			D 4
119 BOUL	15	1657	1712	1709	S23	W90	1.000	11124	9.0	15	-F	1	V						4
123 CULG	16	0138	0149D		S07	W76	.968	11111	10.4	11D	1N		P	0148	1.24				T 5
126 ISTA	16	0735	0740		S06	W83	.992	11111	10.1	5	-F								5
128 ABST	16	0926	0935	0930	S05	W88	.999	11111	9.8	9	1F		C	0930	.81			54	DJZ 7
129 HTRR	16	0955	1020	1004	S05	W85	.996	11111	10.0	25	-F		C	1004	.41				9
130 RAMY	16	1128E	1345	1129U	N18	E59	.886	11128	20.9	137D	-N		C		.83				U 5
131 CANR	16	1128	1133	1129	N23	E85	.999	11128	22.9	5	-N	3	V	1129		1.90			6
133 HUAN	16	1619E	1644	1630	S06	W90	1.000	11111	9.9	25D	-N	1	P	1630	.07				3
136 CRON	16	2230E	2230D		N09	W46	.741	11117	13.5		-F		V		.30				3
GRP36139	17	0715	0732	0722	N15	E56	.856	11128	21.5	17	-F				.58				2 2 2 5
ABST	17	0715	0730D	0717	N14	E56	.854	11128	21.5	15D	-F		P	0717	.90	1.70			DJ
CRON	17	0727E	0732	0727E	N16	E56	.858	11128	21.5	5D	-F		V		.25				
140 ARCE	17	0900	0935	0907	N14	E18	.437	11123	18.7	35	-B		C	0907	1.40	1.60			H 11

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GRP36142	17	1206	1227	1209	S12	E86	.996	11130	24.0	21	-F				.72				2 2 1 9
CANR	17	1203	1227	1206	S10	E85	.995	11130	23.9	24	-F	2	V	1206		.30			
ABST	17	1209	1225D	1212	S13	E87	.998	11130	24.0	16D	-F		P	1212	.72				D
GRP36143	17	1234	1246	1237	N23	E52	.846	11128	21.4	12	-F				.27				2 2 2 8
RAMY	17	1232	1246	1237	N22	E53	.851	11128	21.5	14	-F		C		.41				DE
TEHR	17	1235	1239D	1236	N23	E50	.830	11128	21.3	4D	-F		C		.13				DE
144 TEHR	17	1249	1253D	1252	N12	E80	.988	11129	23.5	4D	-N		C		.23				F 8
145 CATA	17	1335E	1340D	1335	N18	E52	.830	11128	21.5	5D	-N		P	1335	.29	.52		166	6
146 RAMY	17	1424	1430	1426	N17	E43	.740	11128	20.8	6	-F		C		.21				DE 7
147 HUAN	17	1425E	1530	1456	S13	E88	.999	11130	24.2	65D	-N	1	P	1456	.61				4
153 MITK	18	0213E	0232	0214	S14	E80	.982	11130	24.1	19D	1N		C	0214	.83				DG 5
155 MANI	18	0637E	0650		N12	E73	.964	11129	23.8	13D	-N	2		0638	.26	.60			6
156 CATA	18	0800E	0815D	0800	N13	E69	.944	11129	23.5	15D	-N		P	0800	.52			168	7
157 HUAN	18	1248	1313	1252	N17	E39	.698	11128	21.5	25	-N	1	C	1252	.25	.35			D 7
158 HUAN	18	1249	1253	1251	N18	E33	.640	11128	21.0	4	-F	1	C	1251	.07	.09			D 7
159 RAMY	18	1258	1310	1301	N08	W18	.376	11131	17.2	12	-F		C		.52				DE 7
160 RAMY	18	1349	1412	1353	N17	E39	.698	11128	21.5	23	-F		C		1.03				DE 5
161 RAMY	18	1409	1425	1412	N16	E29	.580	11128	20.8	16	-F		C		.31				DE 6
175 CRON	19	0132	0140	0135	N25	W42	.773	11119	15.9	8	-F	2	C	0135	.32	.51			5
178 CRON	19	0541	0600U	0544	N16	E30	.592	11128	21.5	19D	-F	1	C	0544	.54	.67			5
180 TEHR	19	0640	0700	0642	N12	E59	.875	11129	23.7	20	-F		C		.19				DE 5
182 TEHR	19	0723	0735	0725	N26	W46	.811	11119	15.9	12	-N		C		.19				DE 6
2 STATIONS REPORTING GROUP 36185. 3 STATIONS OBSERVING AND NOT REPORTING.																			
185 TEHR	19	1025	1043	1028	N18	E17	.476	11128	20.7	18	-N		C		.19				DE 5
185 CANR	19	1025U	1042	1032U	N33	E29	.729	11128	21.6	17D	*-N	1	C	1032	.43	.63			4
192 RAMY	19	1458E	1508	1500U	N12	W15	.384	11123	18.5	10D	-N		C		.31				DE 5
193 RAMY	19	1529	1541	1532	N12	E90	1.000	11133	26.4	12	-N		C						DE 4
195 RAMY	19	1604	1615	1606	N11	E56	.848	11129	23.9	11	-F		C		.31				DE 5
199 BOUL	19	1846	1853	1847	N18	E12	.435	11128	20.7	7	-F	1	C	1847	.32	.36			4
201 BOUL	19	2030U	2050U	2034U	S14	E51	.777	11130	23.7	20D	-F	1	C	2034	.54	.86			4
210 CRON	20	0505	0510	0506	N10	E45	.735	11129	23.6	5	-N		V		.50				6
211 ABST	20	0707	0716	0709	N18	E22	.525	11128	21.9	9	-F		C	0709	.63	.70		54	D 7
213 TEHR	20	1014	1028	1016	S13	E44	.696	11130	23.7	14	-F		C		.45				DE 5
217 HUAN	20	1317	1335D	1325	S14	E43	.685	11130	23.8	18D	-N	1	P	1325	.15	.21			D 5
218 HUAN	20	1320	1330	1322	N18	E15	.460	11128	21.7	10	-N	2	C	1322	.21	.23			E 5
219 HUAN	20	1447	1457	1450	N19	E08	.427	11128	21.2	10	-F	2	C	1450	.15	.17			D 4
221 HUAN	20	1617	1626	1620	S12	E41	.657	11130	23.8	9	-F	1	C	1620	.15	.21			E 4
223 HUAN	20	1637	1646	1641	N21	E04	.443	11128	21.0	9	-F	2	C	1641	.45	.50			4
225 HUAN	20	1803	1812	1805	N14	E08	.352	11128	21.4	9	-N	2	C	1805	.23	.24			E 4
226 HUAN	20	1859E	1909	1900	S13	E38	.620	11130	23.6	10D	-F	1	P	1900	.10	.13			D 5
227 LOCK	20	1900	1925	1904	N20	E06	.434	11128	21.2	25	-F		C						5
233 MANI	21	0044	0057	0046	N10	E34	.603	11129	23.6	13	-F	2		0046	.31	.39			3

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235 CRON	21	0246	0254	0248	N18	E18	.487	11128	22.5	8	-N		V		.80				4
237 MANI	21	0421	0433	0423	N11	E71	.954	11133	26.5	12	-N	2		0423	.31	.69			6
239 TEHR	21	0450E	0515	0453U	N18	E13	.445	11128	22.2	25D	-N		C		.45				DE 6
240 TEHR	21	0529	0555	0532	N21	W03	.443	11128	21.0	26	-N		C		.28				F 5
241 TEHR	21	0702	0711	0703	S14	E32	.541	11130	23.7	9	-F		C		.28				DE 4
242 TEHR	21	0707	0720	0710	N20	W07	.439	11128	20.8	13	-N		C		.28				DE 4
243 CRON	21	0748E	0756		N19	E13	.459	11128	22.3	8D	-F		V		1.00				4
245 TEHR	21	0939	0947	0940	N20	W08	.443	11128	20.8	8	-F		C		.19				DE 4
248 TEHR	21	1118	1130	1122	N20	E09	.448	11128	22.1	12	-N		C		.19				DE 4
249 CANR	21	1207	1213		N13	W40	.690	11123	18.5	6	-N	3	V			.40			3
263 MANI	22	0245	0250	0247	N12	E20	.443	11129	23.6	5	-F	2		0247	.41	.46			3
264 MANI	22	0251	0303	0253	N15	E61	.897	11133	26.7	12	-N	2		0253	.52	1.00			4
265 MANI	22	0323E	0336	0324	N15	E60	.889	11133	26.6	13D	-N	2		0324	.46	.90			4
269 ABST	22	0754	0808	0756	N12	E46	.753	11133	25.8	14	1N		C	0756	1.80	2.70		58	EJ 6
277 BOUL	22	1640	1649	1641	N11	E12	.344	11129	23.6	9	-F	1	V						3
278 BOUL	22	1642	1648	1643	S12	E14	.266	11130	23.7	6	-F	1	V						4
280 HUAN	22	1716	1726D	1718	N21	W13	.487	11128	21.7	10D	-N	1	P	1718	.18	.20			D 4
283 BOUL	22	1909	2025	1915	N11	E73	.963	11135	28.3	76	-N	1	V						3
285 RAMY	22	2105E	2111D		S13	E05	.160	11130	23.3	6D	-F		V		.62				DE 3
293 CRON	23	0230U	0239	0234	S17	E00	.203	11130	23.1	9D	-N	1	C	0234	.32	.32			5
294 MANI	23	0234E	0250		S21	E17	.387	11130	24.4	16D	-N	2		0236	.52	.56			5
295 MANI	23	0245E	0306		N16	W16	.447	11128	21.9	21D	-B	2		0248	.52	.59			6
GRP36298	23	0604	0610	0606	N20	W22	.549	11128	21.6	6	-F				.71				2 2 2 6
ABST	23	0603E	0609	0605	N19	W21	.528	11128	21.7	6D	-F		P	0605	.90	1.10		50	EJ
MITK	23	0605	0611	0607	N20	W23	.558	11128	21.5	6	-F		C	0607	.52	.60			D
300 TEHR	23	0632	0637	0633	N17	W22	.517	11128	21.6	5	-N		C		.23				DE 6
303 TEHR	23	0810	0823	0811	N10	W65	.917	11123	18.5	13	-N		C		.13				DE 9
304 TEHR	23	0833	0849	0835	N20	W23	.558	11128	21.6	16	-N		C		.19				DE 10
306 CAPS	23	0935E	0959D		S06	E90	1.000	11134	30.1	24D	1N	3	V						9
GRP36308	23	0949	1005	0951	N18	W24	.548	11128	21.6	16	-F				.25				2 2 2 9
TEHR	23	0948	1011	0950	N18	W24	.548	11128	21.6	23	-N		C		.28				DE
CRON	23	0949	0958	0951	N18	W24	.548	11128	21.6	9	-F	1	C	0951	.22	.26			
309 TEHR	23	1025	1035	1027	N18	W23	.538	11128	21.7	10	-N		C		.28				DE 8
310 ABST	23	1142	1150	1144	N19	W25	.568	11128	21.6	8	-F		C	1144	.90	1.10		48	EJ 6
GRP36311	23	1235	1310	1255	N18	W24	.548	11128	21.7	35	-N				.29				2 1 1 5
CATA	23	1235E	1310	1255	N18	W24	.548	11128	21.7	35D	-N		P	1255	.29	.34		155	
ONDR	23	1236	1301	1241	N16	W25	.539	11128	21.6	25	-F		V	1241			2.00		CDK
312 CATA	23	1355	1420D	1415	N20	W34	.668	11128	21.0	25D	-N		P	1415	.29	.39		162	5
314 HUAN	23	1754	1758	1756	N17	W28	.581	11128	21.6	4	-N	1	P	1756	.28	.34			E 5
327 TEHR	24	0709	0718	0711	S17	W15	.321	11130	23.2	9	-F		C		.28				DE 6
328 TEHR	24	0719	0729	0720	N20	W43	.758	11128	21.1	10	-F		C		.19				DE 6
329 TEHR	24	0937	0947	0939	N11	W09	.320	11129	23.7	10	-F		C		.23				DE 7

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GRP36332	24	1129	1145	1136	S12	E83	.990	11134	30.7	16	-F				.19				2 2 1 9
TEHR	24	1129	1145	1131	S11	E81	.985	11134	30.6	16	-N		C		.19				DE
RAMY	24	1139E	1144	1140	S12	E85	.995	11134	30.9	5D	-F		C						DE
36334	24	1213	1257	(1220)	N18	W43	.748	11128	21.3	44	*-N				.91				3 3 3 8
TEHR	24	1158	1220	1200	N11	W41	.694	11128	21.4	22	-F		C		.19				HDE
CATA	24	1210	1240D	1220	N20	W45	.777	11128	21.1	30D	-N		P	1220	1.16	1.67		166	
TEHR	24	1212	1255	1219	N20	W46	.786	11128	21.1	43	-N		C		.55				DE
RAMY	24	1217	1258	1220	N19	W40	.723	11128	21.5	41	-F		C		1.03				F
335 RAMY	24	1315	1320	1317	S12	W04	.134	11130	24.3	5	-F		C		.41				DE 8
337 RAMY	24	1334	1346	1337	N20	W35	.679	11128	21.9	12	-N		C		.31				DE 8
346 LOCK	24	1917	1927	1920	N10	W15	.366	11129	23.7	10	-F		C						4
347 LOCK	24	1945	2005	1950	N19	W51	.827	11128	21.0	20	-F		C						4
349 HUAN	24	2050E	2057	2052	S11	W17	.305	11130	23.6	7D	-F	1	P	2052	.07	.08			D 4
351 MANI	25	0140E	0154	0142	S09	W22	.376	11130	23.4	14D	-N	2		0142	.26	.28			4
352 ABST	25	0634E	0645	0641	N17	W49	.802	11128	21.6	11D	-F		P	0641	.90	1.50		62	E 5
353 TEHR	25	0844	0905	0847	S12	W22	.386	11130	23.7	21	-N		C		.28				DE 8
354 MONT	25	0906	0914	0907	S09	W27	.454	11130	23.4	8	-F		C	0907	.21				8
355 CATA	25	0930	0940	0930	S13	E70	.936	11134	30.6	10	-N		C	0930	.23			178	8
357 RAMY	25	1225	1238	1229	S15	E70	.935	11134	30.8	13	-F		C		.31				DE 8
360 RAMY	25	1317	1336	1321	N18	W56	.866	11128	21.4	19	-F		C		.52				DE 5
361 HUAN	25	1405E	1408D	1407U	N22	W69	.955	11128	20.4	3D	-F	1	P	1407	.30				5
363 RAMY	25	1421	1442	1423	S15	W65	.902	11127	20.7	21	-F		C		.31				DE 5
364 RAMY	25	1432	1446	1435	N08	W25	.475	11129	23.7	14	-N		C		.52				DE 6
366 HUAN	25	1717	1724	1719	N17	W23	.529	11129	24.0	7	-N	1	C	1719	.05	.06			D 4
368 HUAN	25	1828	1844	1834	N12	W07	.322	11133	25.2	16	-F	1	C	1834	.10	.11			E 4
371 PALE	25	1947E	1953	1948	N16	W59	.884	11128	21.4	6D	-F		C		.19				4
380 MANI	26	0003E	0012		S11	W35	.574	11130	23.4	9D	-N	2		0004	.52	.64			3
381 PALE	26	0019E	0025	0019E	N15	W02	.353	11133	25.9	6D	-F		V		.31				F 3
384 MANI	26	0142E	0205D	0143	S05	E49	.752	11134	29.7	23D	-N	2		0143	.72	1.06			3
391 TEHR	26	0625	0640	0627	S12	E58	.844	11134	30.6	15	-F		C		.28				DE 4
395 ISTA	26	1118	1125		S11	W42	.668	11130	23.3	7	-F								10
397 RAMY	26	1140	1154	1143	S18	E56	.829	11134	30.7	14	-N		C		.46				DE 10
GRP36400	26	1310	1320	1313	N20	W67	.943	11128	21.5	10	-F				.36				2 2 2 8
RAMY	26	1309	1321	1312	N20	W68	.948	11128	21.4	12	-F		C		.41				DE
HTRR	26	1310	1319	1313	N20	W65	.932	11128	21.7	9	-F		C	1313	.31	.40			
402 RAMY	26	1402	1408D	1403U	N06	E86	.998	11137	2.0	6D	-N		C						DE 8
403 RAMY	26	1433	1500D	1435	N06	E86	.998	11137	2.1	27D	-N		C						DE 8
404 HUAN	26	1436E	1448D	1445	N03	E37	.615	11136	29.4	12D	-N	1	P	1445	.12	.16			D 9
406 HUAN	26	1619	1631	1623	N16	W74	.971	11128	21.1	12	-N	2	C	1623	.23				6
407 HUAN	26	1637	1715	1646	N07	E88	1.000	11137	2.3	38	-N	1	C	1646	.12				5
410 HUAN	26	1755	1812	1759	N07	E88	1.000	11137	2.3	17	-N	2	C	1759	.21				E 5
412 HUAN	26	1827	1830	1828	S13	E51	.775	11134	30.6	3	-F	2	C	1828	.10	.15			D 4
415 HUAN	26	2002	2043D	2013	N08	E89	1.000	11137	2.5	41D	-N	1	P	2013	.30				E 5
417 HUAN	26	2024	2043D	2033	N03	E33	.560	11136	29.3	19D	-N	1	P	2033	.15	.19			E 4

SOLAR FLARES
Unconfirmed

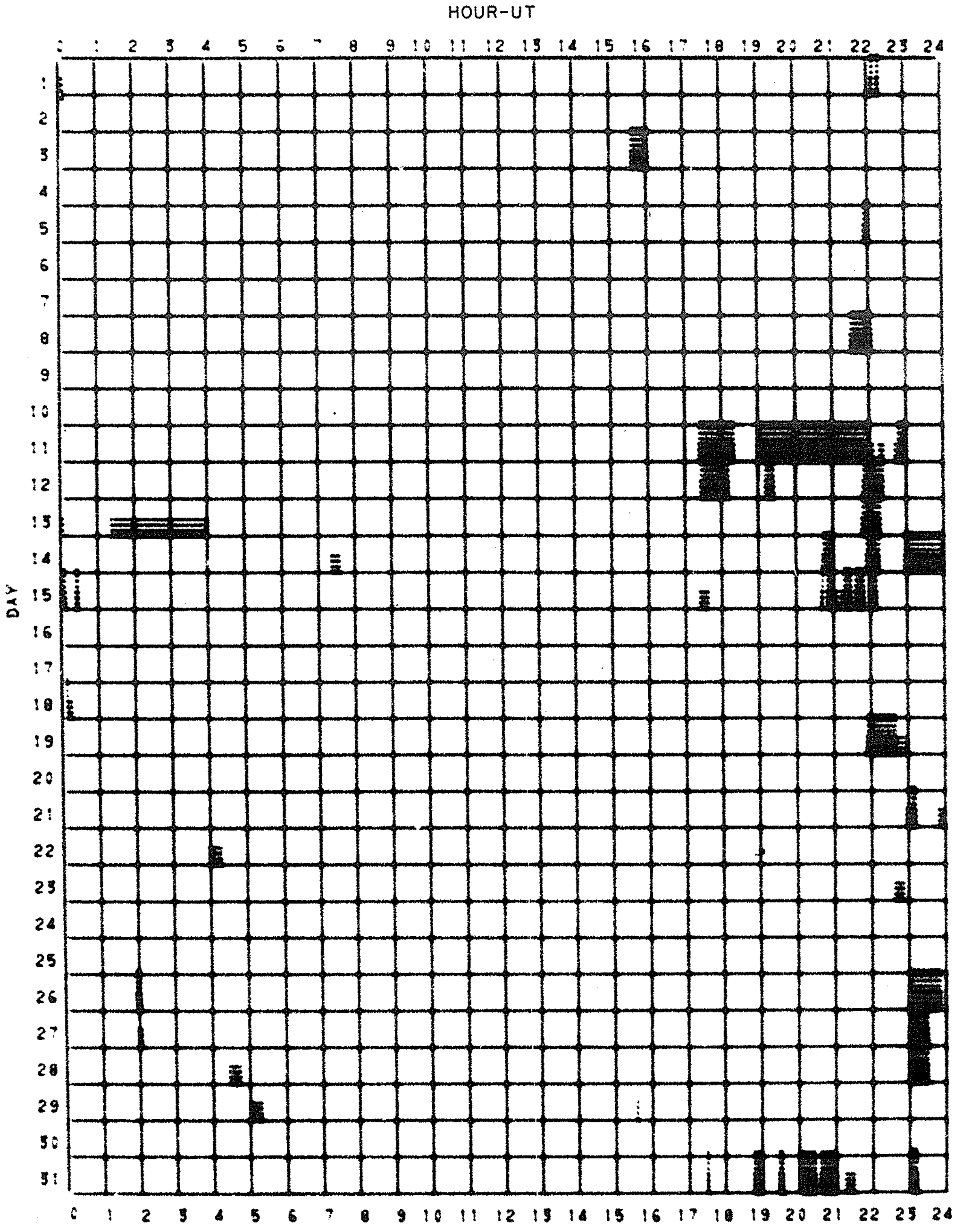
JANUARY 1971

OBSERV-ATORY	OBSERVED UT DATE 1971 JAN	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
418 PALE	26	2043E	2051D	2044U	N08	W47	.752	11129	23.3	8D	-F		C		.19				5
424 ISTA	27	0720	0725		N08	E75	.970	11137	1.9	5	-N								D 5
GRP36425	27	0823	0835	0825	N09	E83	.995	11137	2.6	12	-N				.30				2 2 1 7
CRON	27	0823E	0835D		N08	E85	.997	11137	2.7	12D	-N		V		.30				
TEHR	27	0824E	0835	0825	N09	E80	.988	11137	2.3	11D	-N		V						DE
426 HTRR	27	0826	0834	0831	N11	W50	.793	11129	23.6	8	-F		C	0831	.31	.40			7
GRP36427	27	0900	0914	0907	S12	W53	.795	11130	23.4	14	-F				.81				2 2 1 5
ISTA	27	0900	0910		S12	W52	.785	11130	23.5	10	-F								D
ABST	27	0906E	0917D	0907	S12	W53	.795	11130	23.4	11D	-F		P	0907	.81	1.30		48	D
430 RAMY	27	1245	1258	1247	N15	W88	1.000	11128	20.9	13	-F		C						DE 6
431 HUAN	27	1252	1306	1257	N03	E24	.430	11136	29.3	14	-F	1	C	1257	.15	.17			E 6
432 HUAN	27	1323	1344D	1326	N03	E23	.415	11136	29.3	21D	-N	1	P	1336	.21	.22			E 8
434 HUAN	27	1405	1420	1412	N03	E23	.415	11136	29.3	15	-F	1	C	1412	.35	.38			E 6
435 HUAN	27	1512E	1518D	1514U	N04	E67	.925	11137	1.7	6D	-F	1	P	1514	.10				D 6
436 RAMY	27	1712	1727	1718	N06	E66	.920	11137	1.7	15	-F		C						DE 6
439 BOUL	27	2038	2105	2039	N21	W90	1.001	11128	21.1	27	-N	1	V						4
445 TEHR	28	0812	0824	0814U	S12	E24	.415	11134	30.1	12	-F		C		.28				DE 5
448 MONT	28	1118	1123D	1119	N05	E50	.778	11137	1.2	5D	-N		C	1119	.77				9
450 RAMY	28	1554	1605	1557	N08	E55	.834	11137	1.8	11	-F		C		.26				DE 5
452 MCMA	28	1750	1758	1752	N15	W90	1.000	11128	22.0	8	-F		C	1752					4
457 CRON	29	0316E	0323	0316	S13	E18	.328	11134	30.5	7D	-N		V		.75				5
458 CRON	29	0552	0603	0554U	N03	E50	.774	11137	2.0	11	-N	2	C	0554	.43	.69			4
GRP36460	29	0936	0958	0939	S12	E15	.277	11134	30.5	22	-F				.65				2 2 2 10
TEHR	29	0936	1003	0939	S12	E15	.277	11134	30.5	27	-N		C		.19				DE
CRON	29	0940E	0952		S12	E15	.277	11134	30.5	12D	-F		V		1.10				
GRP36461	29	1016	1038	1019	N06	E50	.780	11137	2.2	22	-N				.25				2 2 2 10
CRON	29	1015	1024D	1018	N06	E50	.780	11137	2.2	9D	-N	2	C	1018	.22	.34			
TEHR	29	1016	1038	1020	N06	E50	.780	11137	2.2	22	-N		C		.28				DE
464 RAMY	29	1345E	1354D	1346U	N07	E49	.772	11137	2.2	9D	-F		C		.52				DE 4
467 CANR	29	1725	1729		S21	E15	.359	11134	30.9	4	-F	2	V			.70			4
472 ISTA	30	0805	0820		N18	W90	1.000	11129	23.6	15	-N								G 6
473 CAPE	30	0907	0937	0911	S14	W90	1.000	11130	23.6	30	-N		C	0911	.86				5
475 TEHR	30	1201	1223	1202	S21	E78	.973	11142	5.4	22	-N		C		.19				DE 5
476 TEHR	30	1224	1235	1226	S12	W06	.148	11134	30.1	11	-N		C		.28				DE 6
485 PALE	31	0159E	0210	0200U	N06	E28	.506	11137	2.2	11D	-N		V		.52				4
487 MANI	31	0400	0409D	0404	S12	W10	.201	11134	30.4	9D	-N	2		0404	.62	.63			4
495 RAMY	31	1358	1403D	1400	S13	W10	.210	11134	30.8	5D	-N		V		.52				DE 4
500 CANR	31	1607	1614	1609	S10	W13	.233	11134	30.7	7	-F	1	C	1609	.32	.32			4

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

JANUARY 1971



Observatories included in total patrol:

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

Time 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

JANUARY 1971

JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
1	204 KIEV	44	0923		217	43.0	11.0		
	200 GORK	44	0954		96 D		5.0		
	600 UCCL	22	1123	1139	24.5	9.0	4.0		
	245 SGMR	44	1218 E		537 D				
	9400 HUAN	5	1549.4	1619.3	88.8	5.7	3.6		
	2800 OTTA	20	1710	1835	160	2.4	1.2		
	9400 HUAN	5	1955	2026.5U	95	11.4	3.9		
	2800 OTTA	20	2000	2040	130	3.8	1.9		
2	200 GORK	44	0636 E		294 D		5.0		
	100 GORK	44	0636 E		264 E		5.0		
	204 KIEV	44	0700 E		360	38.0	15.0		
	245 SGMR	43	1733.5		222.5D				
	600 UCCL	1	1357	1357.2	.6	6.0	3.0		
3	2800 OTTA	20	1730 E	1750	120 D	4.0			
4	600 UCCL	1	0815.8	0816	.3	6.0	3.0		
	260 ONDR	41	0820	0915.5	250	65.0			
	204 KIEV	42	1103		40	30.0	10.0		
	245 SGMR	6	1519.3	1522	11.6	23.4	4.7		
	1415 SGMR	1	1521.8	1522	1.6	4.7	.9		
	606 SGMR	4	1521.9	1522	.9	17.4	3.5		
	2700 PENN	1	1630	1632	4.5	6.9	3.5		
5	200 HIRA	45	0218.5	0218.8	1	130.0	30.0		
	100 GORK	44	0800		218 D		5.0		
	200 GORK	44	1033		75 D		5.0		
	930 BORD	5	0952	0952.6	1	31.0	1.0		
	113 POTS	45	1125.6	1125.8	.4	250.0	40.0		
	237 TRST	45	1333	1333.6	1	270.0	80.0		
	234 POTS	45	1333.1	1333.6	.7	120.0	15.0		
	113 POTS	45	1333.1	1333.6	.8	200.0	20.0		
	2695 BOUL	40	2243	2243.5	9			2	
6	100 GORK	44	0624 E		336 D		5.0		
	260 ONDR	41	0820	0839	330	50.0			
	204 KIEV	44	1143		77	46.0	10.0		
	245 SGMR	44	1219 E		541 D				
	9400 HUAN	5	1945.6	2030	64.4	8.5	5.1		
	9400 HUAN	5	2109	2118.4	56	9.4	5.3		
	2695 PENT	1	2113	2115	3	2.0	1.0		
	9400 TYKW	5	2340	2343.5	10	7.0	3.0		
	3750 TYKW	5	2340	2343	15	6.0	2.0		
7	9400 TYKW	5	0320	0328	50	8.0	3.0		
	3750 TYKW	45	0320	0321	25	10.0	3.0		
	3750 TYKW	5	0433	0434	10	3.0	2.0		
	100 GORK	44	0630 E		330 D		5.0		
	240 KIEL	44	1040	1412		380.0	5.0		
	237 TRST	42	1046.4	1046.5	3.3	70.0			
	204 KIEV	44	1047		163	75.0	23.0		
	113 POTS	45	1048 U	1349 U		80.0U			
	408 SANM	45	1141.2	1142.4	3.8	47.5	15.5		
	245 SGMR	44	1219 E		542 D				
	606 SGMR	22	1330	1630.6	409	19.1	7.0		
	408 SANM	43	1530	1640	190	62.5	13.0		
	2695 BOUL	40	1859.5	1917	15.5			3	
	2695 BOUL	41	2002.5	2002.5	6			2	
8	204 KIEV	44	0700 E		144	80.0	16.0		
	260 ONDR	41	0810	1230.5	340	65.0			
	204 KIEV	44	1126.3		94 D	61.0	18.0		
	240 KIEL	44	1130	1332		10000.0	7.0		
	245 SGMR	44	1218 E		544 D				
	408 SANM	45	1255	1256.9	3.5	32.0	10.5		
	2800 OTTA	20	1815	1825	60	4.4	2.0		
	408 SANM	43	1945	1953.6	55	33.0	6.5		
9	9750 IRKU	1	0447	0448.4	3	13.0			
	650 GORK	40	0633 E	1126.9	320 D	198.0			
	200 GORK	44	0633 E		318 D		200.0		
	100 GORK	44	0633 E		318 D		1500.0		
	221 ABST	41	0700	0938.1	240	57.0			
	204 KIEV	44	0700 E	1030	390 D	770.0	180.0		
	234 POTS	45	0758.8	0814.9	19.8	540.0	50.0		
	600 UCCL	22	0800 D	1134.5	420 E	290.0			
	206 IZMI	44	0800		180	410.0			
	260 ONDR	44	0820		350	85.0			
	234 POTS	45	0928.3	0932.5	19.4	3000.0	75.0		
	240 KIEL	44	0932 E	0932		5000.0	30.0		
	234 POTS	45	1013.7	1014.5	1	450.0	45.0		
	408 SANM	45	1030 E	1138.3	315	133.0	50.0		
	606 SGMR	44	1218 E		545 D				
	245 SGMR	44	1218 E		545 D				
	234 POTS	45	1032	1032	.1	450.0	100.0		
	9500 BERL	1	1107.3E	1107.3		4.1			
	2950 GORK	3	1107.2	1107.6	1	9.0			
	1490 BERL	3	1107.2	1107.3	.9	36.0	5.2		
	930 BORD	27	1107	1128	101	76.0	21.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1971

JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	536 ONDR	45	1107		90	215.0			
	950 GORK	22	1109.3	1130	42 D	61.0	25.0		
	420 KIEL	44	1122 E	1122		250.0	40.0		
	9500 BERL	3	1127.3	1127.7	.9	22.0	5.0		
	1420 CANR	3	1133.5	1134.5	2.5			1	
	234 POTS	45	1255	1255.1	.1	700.0	150.0		
	930 BORD	5	1427	1427.3	1	14.0	1.0		
	930 BORD	41	1440	1440.6	3	14.0	2.0		
	930 BORD	41	1450	1450.3	1	6.0	2.0		
	2800 OTTA	20	1455	1705	225	8.6	4.3		
	2800 OTTA	20	1455	1540	110	7.4			
	2800 OTTA	20	1645	1705	115	8.6			
	1420 CANR	3	1504.5	1505	1.5			1	
	9400 HUAN	5	1509.1E	1545.1	87	7.6	4.2		
	2700 PENN	20	1646.2	1707.9	204	9.5	5.0		
	408 SANM	41	1745	1926	250 D	130.0	39.0		
	2800 OTTA	20	1900	1925	90	4.8	2.8		
	2695 PENT	22	2040	2105	45	2.2	1.1		
10	650 GORK	22	0630 E	0711.5	168	25.6			
	200 GORK	44	0630 E		321 D		70.0		
	100 GORK	44	0630 E		309 D		1500.0		
	221 ABST	41	0700	1027	240	14.0			
	204 KIEV	44	0818 E	1107	410 D	137.0	50.0		
	600 UCCL	20	0827	0854.5	40	27.0	10.0		
	260 ONDR	44	0830	1238.5	370	80.0			
	600 UCCL	22	0939	1103	320 E	85.0			
	650 GORK	22	0944.4	1058.2	127 D	47.0	16.5		
	950 GORK	22	1011.1	1053.1	110 D	18.0			
	536 ONDR	45	1014	1102	92	110.0			
	420 KIEL	44	1102 E	1102		200.0	20.0		
	606 SGMR	44	1218 E		546 D				
	245 SGMR	44	1218 E		546 D				
	408 SANM	45	1300	1322	55	35.0	13.5		
	240 KIEL	44	1317 E	1317		300.0	40.0		
	408 SANM	29	1355	1432.6	185	52.5	5.0		
	10700 PENN	1	1613	1613.6	1.6	4.5	2.2		
	2700 PENN	1	1613.2	1613.5	4.8	2.7	1.3		
	408 SANM	41	1700	1757.4	155	67.0	23.5		
	2800 OTTA	75	1705	1745	75	6.6	3.4		
	2700 PENN	20	1708	1736.8	69	21.4	5.6		
	10700 PENN	20	1712.8	1736.7	61	26.8	9.2		
	15400 SGMR	20	1735.3	1738.5	34.1	20.4	10.2		
	9400 HUAN	5	1735.4	1736.6	53.6	18.6	7.8		
	8800 SGMR	20	1735.4	1736.8	30.4	16.0	8.0		
	7000 SAOP	20	1735.8	1737.3	16.4	22.9			
	4995 SGMR	20	1735.3	1736.8	34.6	29.2	14.6		
	2800 OTTA	3	1735.5	1736.5	10	12.0	6.0		
	2695 SGMR	20	1735.3	1736.7	20.3	10.0	5.0		
	2800 OTTA	1	1823	1823.4	1	3.8	1.9		
	2700 PENN	1	1823	1823.5	2.1	5.4	1.8		
	208 VORO	44	2300	0211	240	216.0			
11	8800 MANI	1	0006.1	0006.3	5.4	3.3	1.0		
	4995 MANI	1	0006.1	0006.3	5.4	4.5	1.1		
	2000 TYKW	5	0202	0202.8	2	5.0	1.0		
	1000 TYKW	5	0202.9	0203	.2	7.0	2.0		
	9400 TYKW	5	0211.9	0212	.5	4.0	2.0		
	3750 TYKW	5	0211.9	0212	1	5.0	1.0		
	2000 TYKW	5	0211.9	0212.1	.5	3.0	1.0		
	9400 TYKW	5	0247.8	0248.1	1	7.0	2.0		
	9400 TYKW	5	0308	0308.7	1.5	3.0	1.0		
	221 ABST	41	0700	1055.3	240	14.0			
	204 KIEV	44	0700 E		390 D	380.0	98.0		
	206 IZMI	44	0800		180	130.0			
	260 ONDR	44	0810	1231	360	50.0			
	600 UCCL	40	0823	0857.5	44	18.0	12.0		
	408 SANM	40	1135 E		110				
	234 POTS	45	1135.6	1135.7	.4	350.0	60.0		
	240 KIEL	44	1146 E	1146		600.0	40.0		
	234 POTS	41	1206.5	1250.1	43.9	500.0	1.0E		
	420 KIEL	44	1213 E	1213		120.0	20.0		
	600 UCCL	2	1216.8	1217.2	.8	6.0	4.0		
	245 SGMR	44	1218 E		547 D				
	9500 BERL	3	0902.5E	0902.5		13.5			
	600 UCCL	20	1248.5	1254	24.5	20.0	8.0		
	2800 OTTA	20	1500	1526	40	4.0	1.6		
	960 PENN	1	1524.7	1526.1	4.2	1.4	0.7		
	2700 PENN	1	1525.1	1526.1	4.4	5.6	2.8		
	408 SANM	45	1540	1714.6	170	92.0	23.0		
	2700 PENN	20	1619.5	1644	61.7	4.1	2.1		
	2695 BOUL	8	1745.5	1746	1.5			1	
	2800 OTTA	1	1823	1824	2	2.2	1.1		
	2700 PENN	1	1823.6	1824.2	3.6	2.8	1.4		
	7000 SAOP	3	1825.9	1829.8	8.6	22.9	11.4		
	2800 OTTA	20	1920	1927	30	7.0	3.4		
	2700 PENN	20	1922.9	1927	35.3	11.3	5.6		
	960 PENN	1	1927.9	1928.4	2.6	2.1	1.0		
	9400 HUAN	5	2146.6	2148.5	28.9	9.5	4.2		
	2695 PENT	4	2148	2148.7	2	20.0	10.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1971

JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	2695 PENT	29	2150		25	7.8	3.9		
	208 VORO	44	2300	0102.5	240	272.0			
12	9400 TYKW	45	0311	0313.4	3.5	8.0	2.0		
	9400 TYKW	5	0333	0335.5	10	6.0	2.0		
	3750 TYKW	5	0333	0335.5	15	8.0	2.0		
	9400 TYKW	45	0627	0635	20	8.0	2.0		
	3750 TYKW	45	0628	0634	20	6.0	2.0		
	606 MANI	4	0645.5	0645.9	1.7	28.8	11.3		
	221 ABST	41	0700	0918.1	240	38.0			
	204 KIEV	44	0700 E		390 D	312.0	120.0		
	206 IZMI	44	0800		180	120.0			
	260 ONDR	44	0810		300	65.0			
	113 POTS	45	0917.3	0917.7	.6	700.0	130.0		
	100 GORK	44	1012 E		108 D		20.0		
	240 KIEL	44	1213 E	1213		3500.0	30.0		
	420 KIEL	44	1215 E	1215		400.0	20.0		
	245 SGMR	44	1218 E		548 D				
	9400 HUAN	5	1256.4	1320	81.9	7.6	3.9		
	234 POTS	45	1400.2	1400.4	.4	700.0	100.0		
	600 UCCL	40	1417	1423	7.5	9.0	4.0		
	2695 PENT	21	2105	2130	45	4.8	2.0		
	2700 PENN	41	2115.1	2115.2	.8	4.0			
	2695 PENT	2	2115	2115.7	1	2.8	1.4		
	9400 HUAN	5	2130.2	2132.1	29.8	11.4	5.7		
	200 HIRA	44	2150 E		590 D				
	208 VORO	44	2300	0214.5	240	198.0			
	3750 TYKW	45	2350	2354.2	7	63.0	8.0		
	9400 TYKW	45	2351	2354.2	25	50.0	10.0		
	1415 MANI	4	2351.7	2354.3	5	47.6	18.7		
	606 MANI	4	2351.7	2354.1	6.7	149.0	22.7		
	2695 MANI	4	2352.6	2354	3.9	47.8	18.4		
	2000 TYKW	5	2353.9	2354.2	2	32.0	6.0		
	1000 TYKW	5	2353.9	2354.2	2	23.0	7.0		
	4995 CRON	8	2354.5	2355	1			1	
	2665 CRON	41	2354	2354.5	2			1	
	1420 CRON	8	2354.5	2355	1			1	
	3750 TYKW	29	2357		25	7.0	3.0		
	3750 TYKW	5	2403	2404	3	5.0	2.0		
13	7000 SAOP	45	--	1125.3					
	3750 TYKW	5	0130	0132	7	2.0	1.0		
	3740 TYKW	45	0149	0157	20	6.0	2.0		
	9400 TYKW	5	0155	0157	8	3.0	1.0		
	100 GORK	44	0627 E		330	•	5.0		
	200 GORK	44	0630 E		330 D		10.0		
	221 ABST	41	0700		110	9.0			
	204 KIEV	44	0700 E	1312	390 D	489.0	38.0		
	234 POTS	45	0752.1	0752.1	.3	350.0	70.0		
	234 POTS	45	1208 U	1313 U		250.0U			
	260 ONDR	44	1216		114	60.0			
	113 POTS	45	1216.5U	1252 U		350.0U			
	245 SGMR	44	1217 E		550 D				
	234 POTS	45	1233.2	1233.3	.2	350.0	70.0		
	240 KIEL	44	1311 E	1311		500.0	40.0		
	420 KIEL	44	1321 E	1321		200.0	20.0		
	18 MCMA	41	1336	1340	5			1	
	18 BOUL	41	1508	1509	5			1	
	9400 HUAN	5	1529.9	1530.2	4.7	9.5	1.5		
	10700 PENN	1	1530	1530.4	2	5.6	2.8		
	2800 OTTA	2	1753	1756	9	3.2	1.6		
	18 MCMA	42	1758	1802	19			1	
	10700 PENN	40	1815.2		38.1				
	18 MCMA	42	1832	1839	7			1	
	18 BOUL	41	1836	1839	3			1	
	960 PENN	24	1844.8	1905.1		1.8			
	15400 SGMR	45	1853.5	1901.2	8.8	28.8	11.0		
	10700 PENN		1853.3	1901.2	8.7	59.8	14.7		
	9400 HUAN	45	1853.1	1901.2	8.7	73.8	24.2		
	8800 SGMR	45	1853.4	1901.3	18.3	57.0	22.5		
	4995 SGMR	45	1853.3	1901.2	18.5	84.0	24.0		
	2800 OTTA	45	1853	1901.2	10	36.0	10.0		
	2800 OTTA	45	1853	1854.5	4	32.0			
	2800 OTTA	45	1900.5	1901.2	2.5	36.0			
	2695 SGMR	45	1853.2	1901.2	16	28.0	11.2		
	1415 SGMR	45	1853.9	1854.7	10.4	12.9	4.8		
	960 PENN		1853.3	1854.6	10.6	10.9	2.6		
	606 SGMR	45	1853.3	1901.2	15	16.9	6.1		
	2695 BOUL	41	1854.5	1902.5	5			1	
	4995 BOUL	41	1855.5	1903.5	11.5			1	
	1420 BOUL	1	1855	1856	2.5			1	
	2800 OTTA	45	1857	1858	3.5	10.0			
	9400 HUAN	29	1901.8	1901.8	26.6	18.9	8.2		
	10700 PENN	29	1902	1902	94	11.6	2.1		
	1420 BOUL	3	1902.5	1903	2			1	
	2800 OTTA	29	1903		20	3.0	1.5		
	18 BOUL	41	1903	1905	3			1	
	18 MCMA	42	1930	1953	24			2	
	9400 TYKW	45	2314	2317	4	6.0	2.0		
	3750 TYKW	45	2314	2317	4	12.0	5.0		

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JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22}Wm^{-2}$ Hz^{-1}		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	500 HIRA	45	2352.5	2353.7	2	130.0	30.0		
14	3750 TYKW	5	0150	0230	105	6.0	3.0		
	606 MANI	4	0221.8	0223.1	3.6	11.1	5.1		
	200 GORK	44	0630 E		335 D		10.0		
	100 GORK	44	0630 E		270 D		5.0		
	204 KIEV	44	0700 E	1335	400 D	1100.0	75.0		
	237 TRST	42	0804.1	0804.2	13.7	30.0D			
	100 GORK	44	1100		60		15.0		
	245 SGMR	44	1217 E		551 D				
	200 GORK	41	0633.1	0633.5	.5	100.0			
	221 ABST	1	0810.1	0810.3	.5	95.0			
	200 GORK	6	0810.5	0810.8	.4	160.0	80.0		
	234 POTS	5	0820.2	0820.2	.1	300.0	100.0		
	200 GORK	6	0831.8	0832.4	1.1	30.0	15.0		
	100 GORK	6	0842.4		.7	20.0			
	113 POTS	45	0919.5	0919.6	.1	200.0	20.0		
	100 GORK	6	0919.2		1.4	20.0			
	100 GORK	41	0924.1		2.8	20.0			
	9100 GORK	3	1016.2	1016.8	1	52.0	27.0		
	9100 GORK	29	1017.1	1018	4	27.0	11.0		
	9400 SLOU	4	1045	1046.9	3.5	44.0			
	1490 BERL	46	1045.3	1046.8	6.2	7.3	2.2		
	221 ABST	3	1045.1	1047	4	38.0	5.0		
	200 GORK	41	1045.7	1046.9	4.2	150.0			
	200 GORK		1045.7	1049.3		80.0			
	4995 CANR	1	1046	1047.5	7.5			1	
	2950 GORK	4	1046.2	1047.5	3.6	17.0			
	950 GORK	4	1046	1047.8	5.7	11.8	5.5		
	650 GORK	4	1046	1047.6	3.7	10.3	5.0		
	536 ONDR	5	1046	1049	3.5	65.0			
	260 ONDR	45	1046	1047.5	4	100.0			
	113 POTS	45	1046.6	1047.4	1.3	220.0	40.0		
	100 GORK	41	1046.1	1047.8	2	9000.0			
	23 POTS	45	1046.8	1047.1	2.2	10000.0	2000.0		
	9500 BERL	3	1047 E	1047		29.0U			
	206 IZMI	6	1047	1047.1	.7	220.0	102.0		
	113 POTS	45	1052 U	1138 U		140.0U			
	100 GORK	6	1053.8		2.1	20.0			
	2950 GORK	45	1118.5	1122.6	35.3	342.0			
	2950 GORK		1118.5	1125.9		106.0			
	9500 BERL	46	1120.2	1122.6	26.3	860.0			
	9400 SLOU	46	1120.4	1122.5	8	1183.0			
	9400 HUAN	28	1120.4	1121.1U	.7	13.0	7.9		
	9100 GORK	45	1120.2	1121.9	8.7	326.0	183.0		
	9100 GORK		1120.2	1121.5		1372.0			
	9100 GORK		1120.2	1126		368.0			
	4995 CANR	45	1120	1122.5	10			2	
	2800 SLOU	45	1120	1122.8	9	285.0			
	1490 BERL	46	1120.7	1123	37.3	135.0U			
	950 GORK	46	1120.5	1122.8	25.6	164.0			
	950 GORK		1120.5	1126.1		65.0			
	930 BORD	45	1120	1123	22	153.0	24.0		
	650 GORK	46	1120.1	1122.3	24.9	284.0			
	650 GORK		1120.1	1126.2		51.0			
	420 KIEL	6	1120	1123	8	1500.0	50.0		
	240 KIEL	6	1120	1123	8	1500.0	100.0		
	234 POTS	41	1120.5	1121.6	5.2	2500.0	80.0		
	113 POTS	45	1120.5	1121.6	9.1	10000.0	500.0		
	23 POTS	45	1120.6	1122.5	5	10000.0	1000.0		
	19000 SLOU	46	1121.1	1122.4	8	378.0			
	9400 HUAN	45	1121.1	1122.4	3	946.0	259.7		
	9400 ONDR	45	1121	1123	9				
	2695 CANR	45	1121.5	1123.5	11			2	
	808 ONDR	45	1121	1123	9				
	536 ONDR	45	1121	1123	9	235.0			
	408 TRST	47	1121.3	1122 U	10	60.0D			
	260 ONDR	45	1121		25	140.0			
	237 TRST	42	1121.1	1121	5	2100.0			
	200 GORK	41	1121.1	1122.3	2.6	7000.0			
	100 GORK	41	1121	1126.6	1.6	160000.0D			
	37000 SLOU	3	1122	1122.8	1.4	90.0			
	1420 CANR	45	1122	1123.5	11.5			2	
	1420 KIEL	5	1122	1123	13	200.0	60.0		
	9400 HUAN	29	1124.1	1124.1	80.9	37.2	13.0		
	9400 HUAN	5	1125.4	1126	4.6	280.0	41.9		
	950 GORK	29	1126.9	1126.9	19.2	28.0			
	650 GORK	29	1126.8	1126.8	18.1	20.0			
	234 POTS	45	1126 U	1135 U		70.0U			
	2950 GORK	29	1127	1127	27	29.0	14.5		
	9100 GORK	29	1128.9		22.7				
	408 SANM	45	1525.8	1526.3	1.7	38.0	7.5		
	2700 PENN	32	1624.8	1658	182	-21.6	-10.7		
	960 PENN	32	1630	1840.4	170	-5.6	-2.8		
	9400 HUAN	5	1720	1725.3	15.2	9.3	2.5		
	18 MCMA	42	1818	1855	40			1	
	408 SANM	3	1820.6	1820.8	.9	80.5	23.5		
	18 MCMA	41	1920	1925	8			2	
	2695 BOUL	3	1945	1945.5	1.5			2	
	2695 BOUL	40	1953	1954	7			1	

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JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	9400 HUAN	45	2031.8	2035.8	28.2	35.4	11.2		
	9400 HUAN		2031.8	2039.8		35.4			
	2700 PENN	45	2032.7	2040	10.3	18.4	5.0		
	10700 PENN	45	2033	2039.9	7.4	46.3	18.7		
	2800 OTTA	40	2033	2040	9	12.0			
	1415 SGMR	22	2033.3	2037.7	14	4.2	2.1		
	960 PENN	45	2033.2	2038.8	9	33.7	5.0		
	606 SGMR	46	2033.5	2041	14	225.0	90.0		
	408 SANM	45	2033.2	2037.4	10.2	130.0	34.0		
	245 SGMR	6	2033.6	2037.8	14.9	50.0	10.2		
	10700 PENN	29	2040.4	2040.4	19.6	17.6	8.0		
	2695 BOUL	40	2127.5	2130.5	7.5			1	
	18 MCMA	42	2208	2218	27			1	
	18 BOUL	42	2210	2220	25			1	
15	3750 TYKW	5	0150	0203	120	5.0	3.0		
	8800 MANI	4	0220.1	0222.1	5.2	12.6	6.3		
	4995 MANI	4	0220.1	0222.2	5.2	17.0	8.5		
	9400 TYKW	45	0221	0222.2	2	9.0	3.0		
	3750 TYKW	5	0221	0222.3	30	4.0	2.0		
	9400 TYKW	5	0325	0325.4	6	16.0	4.0		
	3750 TYKW	5	0325	0325.4	4	2.0	1.0		
	4995 MANI	4	0400.1	0401.8	6.4	19.9	5.7		
	8800 MANI	4	0401.5	0402	5	22.0	6.3		
	2000 TYKW	5	0401	0402	7	4.0	2.0		
	1000 TYKW	5	0402	0402.6	2	2.0	1.0		
	606 MANI	4	0402	0404.7	4.3	9.0	3.4		
	9750 IRKU	1	0505.5	0506.4	3	37.0			
	8800 MANI	4	0505.9	0506.4	1.6	25.1	12.6		
	4995 MANI	4	0505.9	0506.4	1.6	19.9	8.5		
	2695 MANI	1	0505.9	0506.5	1.6	1.9	1.0		
	1415 MANI	3	0505.9	0506.5	1.6	7.6	3.8		
	606 MANI	1	0505.9	0506.2	.9	3.4	1.1		
	9400 TYKW	5	0506	0506.3	.7	28.0	9.0		
	3750 TYKW	5	0506	0506.3	1	7.0	2.0		
	2000 TYKW	5	0506	0506.4	1	2.0	1.0		
	1000 TYKW	5	0506	0506.5	1	5.0	2.0		
	100 GORK	44	0621 E		360 D		5.0		
	200 GORK	44	0630 E		330 D		5.0		
	204 KIEV	44	0700 E		420 D	153.0	31.0		
	245 SGMR	44	1217 E		553 D				
	650 GORK	41	0726.6	0726.7	2.3	12.0	6.0		
	650 GORK		0726.6	0728.6		13.0	4.0		
	9100 GORK	1	0728.4	0728.7	1.6	20.0	8.0		
	8800 MANI	3	0728.2	0728.7	2.9	15.7	6.3		
	4995 MANI	3	0728.2	0728.7	2.9	17.0	5.7		
	2950 GORK	1	0728.5	0728.7	.4	1.3	0.6		
	950 GORK	1	0728.4	0728.6	.7	2.5			
	606 MANI	3	0728.4	0728.8	.6	55.0	11.2		
	237 TRST	41	0848		1.1	210.0D			
	221 ABST	1	0848.1	0848.4	1	90.0			
	100 GORK	6	1101.9		1	50.0			
	650 GORK	3	1206 U	120.62	.3	38.0	15.0		
	9400 HUAN	5	1514.5	1516.2	18.4	11.5	4.8		
	8800 SGMR	22	1514.5	1516.3	9.5	14.6	2.9		
	4995 SGMR	20	1514.9	1520	27.1	17.5	3.5		
	2700 PENN	24	1514.2	1845.3		9.0			
	2695 SGMR	20	1516.5	1528	14.5	5.5	1.1		
	9400 HUAN	5	1548.3	1550.2	5.2	9.6	5.4		
	2800 OTTA	2	1548.8	1549.7	4	4.4	2.2		
	2700 PENN	1	1548	1549.8	6.3	9.3	3.1		
	960 PENN	1	1548.8	1549.8	4.2	5.8	2.3		
	10700 PENN	1	1549.3	1549.9	4.8	6.4	2.4		
	8800 SGMR	1	1549.5	1549.8	4.4	7.0	1.8		
	4995 SGMR	1	1549.4	1549.8	4	6.4	1.4		
	2695 SGMR	1	1549.4	1549.7	4.1	5.0	1.0		
	606 SGMR	4	1549.4	1551.5	6.8	20.6	5.1		
	408 SANM	45	1550	1551.5	2.8	21.5	7.5		
	408 SANM	45	1555	1559.4	5	51.5	9.0		
	2695 BOUL	40	1643.5	1648	4.5			2	
	18 MCMA	42	1821	1842	32			1	
	2695 BOUL	45	1841.5	1841.5	2			1	
	960 PENN	41	1842.9	1847.2	4.9	42.4			
	2700 PENN	8	1847.3	1847.3	.2	4.3			
	4995 BOUL	3	1854	1854.5	3			1	
	18 MCMA	6	2021	2022	3			1	
	2695 BOUL	41	2210.5	2212	9			2	
	18 MCMA	6	2224	2226	4			1	
	9400 HUAN	5	2245.1	2245.6	1.4	17.4	5.4		
	3750 TYKW	5	2303	2303.7	1.5	5.0	2.0		
	1000 TYKW	5	2303	2324	1.5	10.0	4.0		
	9400 TYKW	45	2327	2327.3	3	11.0	3.0		
	8800 MANI	1	2327	2327.5	1.9	6.4	3.2		
	4995 MANI	3	2327	2327.5	1.9	8.1	2.7		
	3750 TYKW	5	2327	2327.3	1.5	6.0	2.0		
16	234 POTS	45		0847 U		200.0U			
	1420 CRON	47	0206.5	0945	188 D			3	
	100 GORK	44	0626 E		334		5.0		
	200 GORK	44	0630 E		330 D		5.0		

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JANUARY 1971

JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
16	204 KIEV	44	0700 E	0845	420 D	400.0	51.0		
	260 ONDR	45	0830		150	110.0			
	237 TRST	47	0830	0920.5	230 U	440.0			
	260 ONDR	45	1100	1232	150	75.0			
	245 SGMR	44	1216 E		555 D				4
	9500 BERL	47	0730 E	0820.5	220	240.0U			
	9500 BERL	29	0730 E	0948.5		130.0			
	1490 BERL	47	0740 E	0820	225	120.0U			
	1490 BERL	29	0740 E	0945		1500.0U			
	2950 GORK	23	0753		245				
	4995 CRON	47	0754	0829	207.5D			2	
	10500 BERN	45	0756.5	0817.6	32	140.0			
	10500 BERN		0756.5	0820.3		19.0			
	10500 BERN		0756.5	0821.6		22.0			
	10500 BERN		0756.5	0826.4		160.0			
	10500 BERN		0756.5	0827.6		21.0			
	2665 CRON	47	0800.5	0936	193.5D			3	
	9100 GORK	21	0801.5	0819.4	237	313.0	90.0		
	2695 MANI	4	0801	0828.7	47.7	360.0	166.0		
	4995 MANI	47	0802	0828.7	32.5	530.0	330.0		
	8800 MANI	46	0803.8	0828.7	30.7	420.0	200.0		
	950 GORK	47	0805.2E	0943.5	165.8	280000.0	4400.0		
	950 GORK		0805.2E	0950.2		250000.0			
	4995 CANR	40	0806.5E	0829.5	150 D			2	
	650 GORK	47	0806.4	0935.8	233.6	4350.0	380.0		
	650 GORK		0806.4	0944.3		3700.0			
	1420 CANR	47	0807 E	1036.5	191 D			3	
	606 MANI	47	0808.2	0920 U	76.8D	530.0U	245.0U		SUNSET
	930 BORD	45	0809	0944	198	26840.0	3700.0		
	9100 GORK	45	0812	0817.2	18.8	242.0	125.0		
	9100 GORK		0812	0821.9		340.0			
	9100 GORK		0812	0828.5		408.0			
	2695 CANR	47	0812.5	0947 U	169			3	
	200 GORK	49	0812	0846	195.2	3000.0			
	600 UCCL	22	0813 U	0937.5	420 E	1360.0			
	100 GORK	41	0814.4	0815.1	1.1	20.0			
	2950 GORK	46	0815.6	0828.8	33.2	264.0			
	113 POTS	45	0816 U	0850 U	212 U	700.0	125.0		
	221 ABST	3	0817.1	0837	38	27.0	20.0		
	100 GORK	49	0819	0850.4	209	3000.0			
	113 POTS	41	0821.9	0827.9	6.1	1200.0	10.0		
	234 POTS	41	0822.5	0824.2	3.1	250.0	8.0		
	206 IZMI	48	0823	0847.2	39	230.0	54.0		
	808 ONDR	45	0830 E		180				
	536 ONDR	45	0830		270	230.0			
	8800 MANI	29	0834.5	0834.5	14.7	94.0	47.0		
	4995 MANI	29	0834.5	0834.5U	50.5D	124.0U	61.0U		SUNSET
	2695 MANI	29	0848.7	0848.7U	36.3D	97.0U	47.4U		SUNSET
	206 IZMI	24	0902	0947	76	54.0			
	2950 GORK	46	0926.1	0935	23.2	640.0			
	2950 GORK		0926.1	0936		2170.0			
	234 POTS	41	0926.1	0926.6	20.5	150.0	1.0E		
	240 KIEL	48	0927 E	0927		70.0	20.0		
	408 TRST	47	0939	0942 U	155	1000.0D			
	1420 KIEL	45	0944 E	0944		35000.0U			
	650 GORK	29	1018	1018	102	87.0	35.0		
	950 GORK	29	1050.1	1050.1	60.9	120.0	90.0		
	10500 BERN	3	1200.6	1202.6	1.3	12.0			
	7000 SAOP	45	1200.5	1202.2	7	73.4	39.6		
	7000 SAOP	3	1200.5	1202.2	2.6	73.4	27.2		
	4995 CANR	45	1200	1204.5	7			1	
	9400 HUAN	5	1201	1217.8	87.5	13.4	5.9		
	9500 BERL	22	1202	1219.3	32	16.0			
	9400 HUAN	5	1202	1202.6	.9	23.6	11.3		
	7000 SAOP	3	1203.1	1203.8	4.4	59.9	27.4		
	1490 BERL	22	1210	1219	14	3.2	1.0		
	930 BORD	45	1210	1211	3	6.0	2.0		
	7000 SAOP	45	1214.7	1216.4	8.8	32.7	19.2		
	7000 SAOP	3	1214.7	1216.4	2.3	32.7	14.9		
	10500 BERN	45	1216.5	1216.9	3	5.0			
	10500 BERN		1216.5	1219.3		5.0			
	4995 CANR	45	1216	1217.5	8.5			1	
	4995 CANR		1216	1219.5					
	930 BORD	45	1216	1218.8	5	35.0	2.0		
	7000 SAOP	3	1217	1218.6	6.5	28.2	12.1		
	930 BORD	5	1224	1224.6	1	14.0	1.0		
	234 POTS	45	1228 U	1356 U		32.0U			
	234 POTS	45	1248	1248.1	.2	175.0	30.0		
	2800 OTTA	21	1315	1430	300	24.0	14.0		
	9400 HUAN	5	1335.8	1418.7	192.2	13.4	5.7		
	408 SANM	45	1338.9	1340	2.1	59.5	7.5		
	113 POTS	45	1345 U	1409 U		200.0U			
	408 SANM	45	1410	1410.8	1.7	23.5	3.5		
	7000 SAOP	22	1413.6		17.3	9.0			
	606 SGMR	3	1415.5	1419	5.3	15.7	3.1		
	408 SANM	45	1415.6	1417.5	3.4	23.5	11.5		
	4995 SGMR	20	1416.4	1418.6	10.6	8.1	1.6		
	2800 OTTA	1	1416.8	1419	4	5.0	2.5		
	2700 PENN	20	1416.4	1418.6	20.9	9.7	2.5		
	2695 SGMR	20	1416.5	1418.7	12.8	7.0	1.4		

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			UT	UT	MINUTES	PEAK	MEAN		
	1415 SGMR	1	1416.5	1419	8.3	5.2	1.0		
	8800 SGMR	1	1418.4	1419.8	8.6	3.6	.7		
	2695 BOUL	3	1703	1703.5	1.5			1	
	2800 OTTA	3	1711.5	1712	3	17.4	4.3		
	2700 PENN	3	1711	1711.9	15.9	22.5	2.9		
	1415 SGMR	1	1711.6	1712	3.3	4.1	.6		
	960 PENN	1	1711.2	1712	9.3	2.5	0.7		
	606 SGMR	1	1711.5	1711.8	1.1	9.4	2.0		
	18 MCMA	42	1813	1818	11			1	
	18 MCMA	42	1911	1923	44			2	
	2800 OTTA	22	1925	2000	120	3.0	1.5		
	9400 HUAN	5	1926.8	1928.5	3.6	9.4	2.8		
	408 SANM	3	1950.2	1950.6	1.1	39.5	8.5		
	408 SANM	45	1957.4	1958.4	1.6	25.5	9.5		
	2695 PENT	26	2055		15	2.4			
	200 HIRA	45	2243	2243.5	1	270.0	70.0		
17	9100 GORK	20	0629.1	0638.3	19	14.0	9.2		
	2950 GORK	21	0635.5	0645	15.1	4.2	2.0		
	2950 GORK	4	0636.8	0638	2.1	11.0	3.0		
	950 GORK	3	0637.3	0637.9	1.3	14.4	7.2		
	650 GORK	4	0637.2	0638.1	1.5	61.0	26.0		
	260 ONDR	41	0810	1332.5	350	70.0			
	245 SGMR	44	1216 E		556 D				
	950 GORK	1	0814.3	0814.6	.5	9.6	4.7		
	650 GORK	41	0814.5	0814.5	1.2	11.0	5.0		
	650 GORK		0814.5	0815.4		25.0	11.0		
	2950 GORK	20	0911.1		49 E	10.0	5.0		
	9500 BERL	1	0941 E	0941		3.3			
	221 ABST	3	1011.3	1011.4	2	10.0	3.0		
	9100 GORK	20	1025.1	1031.5	17.8	20.0	8.5		
	2950 GORK	20	1027	1031.9	11	8.4	4.2		
	9500 BERL	20	1029	1031.7	26	12.0			
	113 POTS	41	1121.9	1127.9	6.1	175.0	1.0E		
	204 KIEV	6	1127.8	1128	.4	98.0			
	200 GORK	6	1127.7	1127.9	.4	150.0	35.0		
	100 GORK	41	1127.6	1127.9	.5	20.0			
	100 GORK	6	1138.9	1139.1	.4	20.0	10.0		
	113 POTS	41	1216.7	1222.6	6	350.0	2.0		
	7000 SAOP	4	1218.4	1222.1	5.9	69.8	19.1		
	204 KIEV	6	1222.5	1222	.4	155.0			
	408 TRST	41	1230.3	1230.8	.3	670.0			
	606 SGMR	46	1231.5	1234	7.5	85.0	34.0		
	9400 HUAN	5	1232.1	1236.4	13.4	63.9	11.4		
	9500 BERL	4	1233.5	1236.5	5.5	55.0	16.0		
	9400 SLOU	3	1234	1236.5	5 U	64.0			
	10500 BERN	4	1235.9	1236.4	2.6	29.0			
	2800 SLOU	3	1235	1235.5	1.5	21.0			
	2695 SGMR	3	1235.6	1236.5	3.6	20.0U	8.0U		
	1490 BERL	4	1235	1236.5	4	20.0	8.0		
	930 BORD	45	1235	1236.6	4	67.0	6.0		
	8800 SGMR	3	1236.2	1236.5	2.9	17.2U	6.5U		
	4995 CANR	3	1236	1236.5	2.5			1	
	4995 SGMR	3	1236.1	1236.5	2.5	35.0U	14.0U		
	1415 SGMR	3	1236.1	1236.6	4.3	29.4	12.0		
	2695 CANR	1	1237.5	1238.5	3			1	
	9400 HUAN	5	1324	1328.3	21	11.5	1.9		
	113 POTS	45	1346 U	1446		18.0U			
	113 POTS	45	1413.9	1414	.1	175.0	35.0		
18	3750 TYKW	5	0538	0539	25	7.0	3.0		
	2000 TYKW	5	0538	0543	25	6.0	3.0		
	9400 TYKW	5	0539	0543	20	6.0	3.0		
	200 GORK	44	0609		380		5.0		
	100 GORK	44	0609 E		381 D		5.0		
	204 KIEV	42	0700 E		420 D	40.0	15.0		
	260 ONDR	41	0820	1327.5	340	60.0			
	245 SGMR	44	1215 E		558 D				
	221 ABST	3	0740.4	0741	1	12.0	3.0		
	221 ABST	3	0744.4	0745.3	1	8.0	3.0		
	2950 GORK	20	0749.7	0807.8U	34.2	9.5	4.7		
	2950 GORK	20	1005.6E	1012 U	32.2	16.5			
	408 TRST	42	1027.2	1027.4	4.5	140.0D			
	100 GORK	6	1214.8	1215.1	1.3	60.0			
	237 TRST	41	1253	1302	1	360.0			
	9400 HUAN	5	1343.3	1350.7	25.5	11.0	5.5		
	9500 BERL	3	1347	1349.1	3 U	17.0	9.0		
	9400 HUAN	5	1348.5	1349.1	1.1	14.7	8.3		
	7000 SAOP	22	1348.5		18.8	19.2			
	10700 PENN	1	1527	1527.5	5.2	8.4	2.5		
	10700 PENN	1	1657.2	1658.3	7.8	4.2	2.1		
	8800 SGMR	1	1657.6	1658.8	5.6	5.6	2.8		
	4995 SGMR	3	1657.4	1658.7	7.2	10.2	4.8		
	2800 OTTA	46	1657	1658.1	3	12.6	4.2		
	2700 PENN	3	1657	1658.1	19.6	20.4	3.9		
	2695 SGMR	3	1657.5	1658.2	5.3	11.2	5.0		
	1415 SGMR	3	1657.8	1658.8	2.1	10.0	4.8		
	960 PENN	45	1657.1	1658.7	6.2	33.6	4.5		
	606 SGMR	46	1657.8	1658.8	4.2	100.0	20.0		
	1420 BOUL	3	1658.5	1659.5	1.5			1	

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			UT	UT	MINUTES	PEAK	MEAN		
	2800 OTTA	29	1700		7	2.2	1.1		
	15400 SGMR	3	1717.7	1717.9	6.1	21.0	8.2		
	10700 PENN	3	1717.6	1717.8	1.8	58.8	13.1		
	9400 HUAN	5	1717.4	1717.8	1.9	69.0	17.5		
	8800 SGMR	3	1717.4	1717.9	7.5	61.6	24.1		
	4995 CANR	3	1717.5	1718	3			1	
	4995 SGMR	3	1717.6	1717.9	8.1	50.4	20.2		
	2800 OTTA	3	1717.5	1717.8	1	14.0	7.0		
	2700 PENN	3	1717.4	1717.9	10.1	20.4	3.8		
	2695 SGMR	3	1717.7	1717.9	4.1	14.0	5.8		
	7000 SAOP	3	1718.5	1719	1.3	48.5	27.1		
	2800 OTTA	29	1718.5		6	3.4	1.7		
	7000 SAOP	29	1719.8		2				
	4995 BOUL	3	1719.5	1720	1.5			1	
	2800 OTTA	20	1730	1810	70	5.0	2.5		
	2700 PENN	24	1735.4	1809.5		10.1			
	960 PENN	41	1811.4	1815.6	6.1	8.8			
	2800 OTTA	20	1840	1853	65	10.6	5.2		
	7000 SAOP	22	1842.9	1852.4	90.7	42.9			
	10700 PENN	20	1845.8	1851.2	43.2	33.2	7.3		
	9400 HUAN	5	1846	1853.3	14.3	27.6	12.9		
	8800 SGMR	3	1846.3	1851.3	17.9	33.6	15.0		
	4995 SGMR	22	1847.4	1853.3	20	33.6	15.0		
	2695 SGMR	2	1848	1853	18.8	9.0	4.5		
	15400 SGMR	3	1849	1851.3	6.6	21.0	9.1		
	2700 PENN	20	1849.2	1853.4	22.2	10.2	3.5		
	9400 HUAN	5	1850.8	1851.3	1.3	18.4	11.0		
	1415 SGMR	1	1850.1	1853	5.9	7.5	3.7		
	960 PENN	41	1851	1852.9	2.7	13.3			
	9400 HUAN	5	1911.9	1925	25	17.5	8.3		
	18 MCMA	42	1914	2015	64			2	
	9400 HUAN	5	1946.2	2019.5	89.8	11.0	6.4		
	960 PENN	1	2021.6	2021.8	.4	8.8	1.8		
	7000 SAOP	20	2030.8						
	2800 OTTA	21	2030	2041	55	4.8	2.8		
	2800 OTTA	1	2038	2038.8	1	2.4	1.2		
	2695 BOUL	40	2056	2102.5	6.5			2	
	18 MCMA	42	2056	2059	6			1	
	2695 BOUL	40	2114.5	2125	48			2	
19	606 SGMR	4	-- U	1537.2	U	120.8	24.2		
	200 GORK	44	0638 E		352 D		5.0		
	100 GORK	44	0639 E		351 D		10.0		
	204 KIEV	44	0700 E	1242.4	420 D	126.0	29.0		
	260 ONDR	41	0820	1301	350	80.0			
	245 SGMR	44	1215 E		560 D				
	950 GORK	2	0713.3	0715.8	3.4	9.3	4.5		
	606 MANI	2	0714.3	0716.5	2.2	7.1	3.0		
	650 GORK	2	0813.7	0816	2.8	6.0			
	1490 BERL	20	1027	1027.7	3.5	2.1	0.8		
	950 GORK	4	1027.4	1027.7	1.6	65.0	10.0		
	930 BORD	45	1027	1027.6	2	55.0	4.0		
	650 GORK	4	1027.4	1028	.6	13.0			
	600 UCCL	41	1030	1030.5	3.5	8.0	3.0		
	7000 SAOP	3	1302.5	1303.6	2.1	31.9	12.5		
	600 UCCL	41	1303	1303.2	5	11.0	3.0		
	2695 SGMR	3	1309.7	1311.5	5.1	49.5	10.9		
	10500 BERN	3	1311.9	1312.5	3	19.0			
	9500 BERL	4	1311.7	1312.5	1.3	27.0	8.5		
	8800 SGMR	4	1311.1	1311.5	1	24.5	5.0		
	4995 SGMR	3	1311.8	1312.5	1.2	26.5	5.1		
	2800 SLOU	3	1311.7	1312.4	2	53.0			
	1490 BERL	4	1311	1312.6	7.5	83.0	26.0		
	1415 SGMR	4	1311.1	1312.5	7	138.3	27.3		
	930 BORD	45	1311	1312.4	5	672.0	10.0		
	15400 SGMR	3	1312.1	1312.5	1	16.3	3.3		
	9400 SLOU	4	1312.5	1312.8	1	38.0			
	9400 HUAN	5	1312	1312.5	4.2	39.4	20.6		
	4995 CANR	1	1312	1312.5	1.5			1	
	2695 CANR	4	1312.5	1313.5	5			2	
	1420 CANR	3	1312.5	1313	5			1	
	808 ONDR	45	1312	1312.5	4				
	606 SGMR	4	1312	1312.5	4	1720.0	360.0		
	536 ONDR	45	1312	1312.5	2	250.0			
	600 UCCL	8	1314.5	1315	.6	235.0	90.0		
	7000 SAOP	22	1347.4			15.9			
	2800 OTTA	20	1350	1355	20	5.4			
	7000 SAOP	4	1407.3	1410.8	14.7	31.0	14.9		
	606 SGMR	4	1438.8	1443.5	7	40.4	8.1		
	600 UCCL	41	1441.2	1445.8	6	45.0	8.0		
	4995 SGMR	20	1442.3	1442.6	11.4	8.6	1.3		
	2800 OTTA	21	1442	1445	20	2.6	1.3		
	2800 OTTA	1	1442.5	1443	1	2.8	1.4		
	2700 PENN	1	1442.5	1442.9	6.3	3.6	1.8		
	2695 SGMR	1	1442.9	1443.1	3	3.5	.7		
	1415 SGMR	1	1442.5	1442.8	4.3	3.2	.6		
	960 PENN	45	1442.3	1443	5.9	8.5	1.9		
	930 BORD	45	1442	1443.4	5	19.0	5.0		
	10700 PENN	28	1523.6	1525.8	9.5	15.7	9.5		
	8800 SGMR	1	1524.6	1525.8	9.3	5.9	1.2		

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			UT	UT	MINUTES	PEAK	MEAN		
19	7000 SAOP	45	1524.6	1528.2	5.1	97.6	37.9		
	7000 SAOP	3	1524.6	1526.1	2.4	75.8	46.0		
	4995 SGMR	1	1524.8	1526	9.2	5.9	1.1		
	7000 SAOP	3	1527	1528.2	1.4	97.6	79.3		
	7000 SAOP	3	1528.4	1528.9	1.3	88.4	91.9		
	7000 SAOP	29	1529.7		29.8				
	10700 PENN	45	1533.1	1534.8	5.4	118.0	49.1		
	9400 HUAN	45	1533.6	1534.9	4.3	101.8	56.2		
	8800 SGMR	46	1533.9	1534.8	10.5	84.0	16.8		
	15400 SGMR	4	1534.5	1534.8	20.8	102.1	20.1		
	10500 BERN	45	1534 U	1535 U	6	29.0			
	10500 BERN		1534 U	1537.2U		20.0			
	10500 BERN		1534 U	1537.7U		18.0			
	4995 CANR	45	1534.5	1537.5	5			1	
	4995 SGMR	46	1534	1537.1	7.8	111.0	22.2		
	2800 OTTA	45	1534	1534.9	8	40.0	20.0		
	2800 OTTA	45	1534	1534.9	2.5	40.0			
	2800 OTTA	45	1536.5	1537.8	5.5	37.0			
	2700 PENN	45	1534.1	1534.9	5.9	53.9	28.6		
	2695 SGMR	46	1534	1534.9	14.6	43.0	8.6		
	960 PENN	45	1534.1	1535.6	3.8	159.0	36.4		
	930 BORD	41	1534	1535.7	6	487.0	20.0		
	2695 BOUL	45	1535.5	1536	8.5			1	
	2695 CANR	45	1535	1536	5.5			1	
	1420 CANR	45	1535	1535.5	8			1	
	4995 BOUL	45	1536.5	1539.5	6.5			1	
	1420 BOUL	3	1536	1536.5	2.5			1	
	9400 HUAN	29	1537.9	1537.9	37.1	48.7	13.1		
	960 PENN	29	1537.9	1537.9	66.3	4.2	2.1		
	600 UCCL	41	1537.5	1539.5	3	160.0	50.0		
	10700 PENN	29	1538.5	1538.5	51	39.2	17.6		
	2700 PENN	29	1540	1540	64	18.0	9.0		
	4995 SGMR	29	1541.8	1541.8	31.4	16.4	7.6		
	2800 OTTA	29	1542		60	9.8	4.6		
	8800 SGMR	29	1544.4	1545.3	30	17.6	8.0		
	2695 SGMR	29	1548.6	1548.6	19.3	5.1	2.5		
	7000 SAOP	4	1633.6	1634.4	8	116.0	21.8		
	10700 PENN	3	1642.7	1643	5.5	103.0	13.3		
	9400 HUAN	5	1642.7	1643	8.1	121.9	14.1		
	8800 SGMR	3	1642.7	1643	5.8	117.0	22.3		
	4995 SGMR	3	1642.7	1643	5.4	81.0	16.2		
	4995 CANR	3	1643	1643.5	1.5			1	
	4995 BOUL	3	1645	1645.5	2.5			1	
	2800 OTTA	20	1655	1725	60	5.6	2.4		
	606 SGMR	45	1712	1713.6	2.2	40.9	8.2		
	245 SGMR	6	1712	1713.6	2.2	209.0	42.0		
	2700 PENN	20	1715.5	1724.2	33.5	9.0	4.5		
	10700 PENN	40	1751		126				
	7000 SAOP	4	1847	1847.7	2.6	15.0	19.7		
	7000 SAOP	3	1853.5		13.9	17.4	19.7		
	2695 BOUL	41	1939	1941.5	4.5			1	
20	3750 TYKW	5	0150	0215	120	5.0	3.0		
	3750 TYKW	5	0302	0304	3	5.0	2.0		
	3750 TYKW	5	0320	0324	5	3.0	1.0		
	200 GORK	44	0617 E		373 D		15.0		
	100 GORK	44	0618 E		372 D		800.0		
	204 KIEV	44	0700 E		420 D	372.0	110.0		
	260 ONDR	41	1053	1239	195	90.0			
	245 SGMR	44	1214 E		562 D				
	536 ONDR	45	0826.5	0826.5	1	70.0			
	260 ONDR	5	0826.5	0826.5	.5	75.0			
	260 ONDR	5	1022	1022	.5	60.0			
	237 TRST	45	1230	1230.1	.2	380.0	100.0		
	600 UCCL	3	1241.7	1241.9	.4	15.0	7.0		
	237 TRST	41	1413.8	1413	.5	400.0			
	2800 OTTA	20	1420	1425	20	2.6	1.3		
	9400 HUAN	5	1443.2	1455.6	23	6.6	1.9		
	930 BORD	41	1625	1627.7	4	11.0	2.0		
	2800 OTTA	20	1630	1640	60	2.8	1.4		
	9400 HUAN	5	1635	1639.3	10.5	5.7	2.8		
	7000 SAOP	1	1704.8		3.4	12.6	6.9		
	2800 OTTA	20	1730	1805	75	2.2	1.1		
	2695 BOUL	41	1756.5	1757	4			2	
	4995 SGMR	20	1858.3	1902.3	30.8	17.1	3.6		
	8800 SGMR	20	1859.5	1902.5	14.4	8.0	1.3		
	2800 OTTA	20	1900	1915	65	2.8	1.4		
	1415 SGMR	2	1914.3	1915.3	7.7	8.8	1.9		
	606 SGMR	4	1914.4	1916.2	4	51.9	10.1		
	8800 SGMR	1	1929.5	1931.5	3	9.0	1.7		
	4995 SGMR	20	1929.1	1931.5	11.9	22.2	4.1		
	9400 HUAN	5	1931.1	1931.5	.9	7.6	3.9		
	2695 BOUL	40	1938	1944.5	7.5			2	
	2695 BOUL	40	1948	1948.5	3.5			2	
	2695 BOUL	41	2020.5	2022.5	2.5			1	
	208 VORO	44	2300	2355	240	264.0			
21	9400 TYKW	5	0011.5	0011.8	3	26.0	7.0		
	8800 MANI	3	0011.4	0011.8	7.8	23.6	11.8		
	4995 MANI	22	0011.4	0012	13.8	8.3	2.8		

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JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22}Wm^{-2}$ Hz^{-1}		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
21	3750 TYKW	5	0011	0011.8	2	3.0	1.0		
	9400 TYKW	5	0159	0200.2	3	9.0	3.0		
	2695 MANI	4	0208.7	0210.1	6.2	27.7	9.2		
	2000 TYKW	45	0208.7	0210	7	23.0	4.0		
	1415 MANI	4	0208.7	0210.1	6.2	17.8	8.9		
	1000 TYKW	45	0208	0213	7	11.0	2.0		
	8800 MANI	1	0209.5	0209.6	.3	3.9	1.9		
	4995 MANI	1	0209.5	0209.6	.3	2.8	1.4		
	606 MANI	40	0211.8	0212.1	2.7	10.1	2.0		
	3750 TYKW	45	0440	0444.1	12	29.0	12.0		
	2000 TYKW	5	0440	0444.2	10	37.0	9.0		
	1415 MANI	4	0440.7	0444.3	10.3	28.5	14.2		
	9400 TYKW	5	0442	0448	80	20.0	8.0		
	8800 MANI	20	0442	0444.3	9	11.6	3.9		
	4995 MANI	4	0442	0444.3	9	36.9	17.0		
	2695 MANI	4	0442	0444.3	9	30.0	13.9		
	2665 CRON	1	0442	0444	4.5			1	
	1000 TYKW	5	0443	0444	4	4.0	2.0		
	1420 CRON	1	0444.5	0445	3			1	
	2000 TYKW	29	0450		70	9.0	4.0		
	3750 TYKW	29	0452		65	10.0	5.0		
	200 GORK	44	0618 E		378 D		25.0		
	100 GORK	44	0620 E		376 D		90.0		
	221 ABST	41	0700	0957	240	18.0			
	204 KIEV	44	0700 E		420 D	497.0	151.0		
	206 IZMI	44	0800		180	90.0			
	260 ONDR	44	0810	1359.5	360	75.0			
	245 SGMR	44	1213 E		564 D				
	600 UCCL	8	0952		.3	20.0	10.0		
	234 POTS	41	1126.1	1126.7	1.2	175.0	10.0		
	9400 HUAN	45	1318.8	1321.1	8.9	346.0	107.6		
	9400 ONDR	45	1318	1321	11				
	8800 SGMR	46	1318.9	1321.2	11.4	310.0	120.0		
	7000 SAOP	45	1318.8	1321.8	13.9	385.1	124.0		
	7000 SAOP	3	1318.8	1319.9	1.9	94.0	27.7		
	4995 SGMR	46	1318.8	1321.1	13.5	330.0	125.0		
	2695 SGMR	46	1318.8	1321.1	12.5	175.0	70.0		
	1490 BERL	46	1318.7	1320.5	11.3U	74.0	22.0		
	1415 SGMR	46	1318.8	1320.3	10.2	90.0	36.0		
	960 PENN	45	1318.8	1320.1	10.1	23.6	6.7		
	15400 SGMR	46	1319	1321.1	9.2	165.0	66.0		
	10700 PENN	45	1319	1321.2	9.2	318.0	93.5		
	9500 BERL	46	1319	1321.2	26	290.0	72.0		
	9400 SLOU	46	1319.2	1321.1	20	353.0			
	4995 CANR	40	1319	1321.5	13			2	
	2800 SLOU	45	1319	1321.2	10	185.0			
	2800 OTTA	46	1319	1321	9	160.0	56.0		
	2800 OTTA	46	1319	1319.5	1.3	130.0			
	2800 OTTA	46	1320.3	1321	7.7	160.0			
	2700 PENN	45	1319	1321.4		242.0			
	1420 CANR	45	1319.5	1322	9.5			2	
	930 BORD	45	1319	1322.7	8	40.0	7.0		
	808 ONDR	45	1319	1319.5	11				
	606 SGMR	46	1319.6	1321.9	13.7	24.5	9.8		
	600 UCCL	41	1319.8	1321.8	5.5	20.0	8.0		
	37000 SLOU	45	1320.8	1321.9	11	90.0			
	19000 SLOU	46	1320.3	1321.3	13	117.0			
	7000 SAOP	3	1320.7	1321.8	2.2	385.1	22.4		
	2695 CANR	4	1320	1321.5	10.5			2	
	1420 KIEL	45	1320	1320	5	120.0	40.0		
	536 ONDR	45	1320	1323.5	8	70.0			
	7000 SAOP	45	1322.9	1325.4	9.8	266.0	11.7		
	9400 HUAN	29	1327.7	1327.7	18.6	46.2	11.5		
	15400 SGMR	29	1328.2	1328.2	12.4	15.0	7.5		
	10700 PENN	29	1328.2	1328.2	19.5	47.3	18.3		
	2800 OTTA	29	1328		20	8.6	4.0		
	8800 SGMR	29	1330.3	1330.3	18.4	25.5	12.2		
	2695 SGMR	29	1331.3	1331.3	16	5.6	2.8		
	7000 SAOP	29	1332.7						
	4995 SGMR	29	1332.3	1332.3	23.7	18.8	9.4		
	2800 OTTA	22	1420	1430	140	3.8	1.8		
	113 POTS	45	1423.2	1424	1.6	1000.0	20.0		
	15400 SGMR	1	1452.8	1453.2	7.2	7.5	3.7		
	10700 PENN	3	1452.2	1453.4	6.6	17.2	2.8		
	8800 SGMR	3	1452.3	1453.3	7.2	23.0	8.2		
	4995 SGMR	1	1452.1	1453.2	8.4	5.7	2.8		
	9400 HUAN	5	1453.1E	1453.1U	2.4	22.1	13.5		
	9400 HUAN	5	1614.1	1614.5	1.3	5.8	2.9		
	930 BORD	41	1627	1627.3	2	65.0	2.0		
	2695 BOUL	40	1656.5	1657	12			2	
	2695 BOUL	40	1723	1723.5	5			2	
	2695 BOUL		1723	1725					
	2695 BOUL	41	1732	1732	3			1	
	9400 HUAN	5	1739.5	1742.3	8.1	61.5	9.6		
	15400 SGMR	3	1741.9	1742.4	3.1	18.0	5.0		
	10700 PENN		1741.2	1742.3	3.6	51.3	11.1		
	8800 SGMR	3	1741.5	1742.4	5	46.0	10.0		
	4995 SGMR	3	1741.6	1742.3	5.3	12.8	3.0		
	408 SANM	45	1750.4	1750.6	.8	137.0	47.0		
	2695 BOUL	40	1754.5	1755	53.5			2	

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JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	2695 BOUL		1754.5	1803.5					
	10700 PENN	1	1806.8	1807.7	7.2	9.0	3.1		
	9400 HUAN	5	1806.1	1808	54.9	9.6	2.9		
	9400 HUAN		1806.1	1822.5		9.6			
	8800 SGMR	4	1806.7	1807.8	14.3	10.5	2.1		
	4995 SGMR	22	1806.4	1808.1	11.6	5.8	1.5		
	15400 SGMR	3	1807.1	1808.5	7.5	10.8	2.8		
	8800 SGMR	1	1821.9	1822.3	2.5	5.5	2.0		
	4995 SGMR	4	1821.8	1823.8	6.4	11.0	4.0		
	2695 SGMR	20	1821.9	1832.4	14.4	3.2	1.0		
	7000 SAOP	1	1841.7	1842.3	3.1	20.0	9.8		
	2800 OTTA	20	1905	1955	80	2.0	1.6		
	2800 OTTA	20	2040	2050	30	3.6	2.0		
	2695 PENT	1	2154	2154.8	6	7.0	3.4		
22	9400 TYKW	5	0012	0025	40	10.0	5.0		
	3750 TYKW	5	0012	0028.7	50	6.0	3.0		
	606 MANI	3	0025.1	0025.6	1.4	24.0	4.5		
	9400 TYKW	5	0059	0059.7	3	20.0	6.0		
	3750 TYKW	5	0114	0240	150	8.0	4.0		
	2000 TYKW	5	0212.9	0213.1	.5	6.0	2.0		
	2000 TYKW	5	0238.8	0239	.7	20.0	7.0		
	1415 MANI	4	0238.8	0239	.6	18.2	5.5		
	1000 TYKW	5	0238.5	0239	1	5.0	2.0		
	606 MANI	4	0238	0238.8	1.4	19.6	5.5		
	3750 TYKW	5	0245	0245.3	1	3.0	1.0		
	3750 TYKW	5	0256	0259	18	4.0	2.0		
	9400 TYKW	5	0258	0302	20	4.0	2.0		
	9400 TYKW	5	0330	0334	15	3.0	2.0		
	3750 TYKW	5	0403	0406	10	4.0	2.0		
	9400 TYKW	5	0405	0406	8	4.0	2.0		
	100 GORK	44	0633 E		27 D		5.0		
	200 GORK	44	0639 E		21 D		5.0		
	204 KIEV	44	0700 E		420 D	102.0	17.0		
	200 GORK	44	0745 E		255 D		5.0		
	100 GORK	44	0745 E		255 D		10.0		
	260 ONDR	41	0918	1358.5	282	100.0D			
	245 SGMR	44	1212 E		566 D				
	9750 IRKU	1	0643.5	0644.4	4	38.0			
	9400 TYKW	45	0643	0644.2	9	28.0	7.0		
	9100 GORK	3	0643.9	0644.5	4.8	41.0	12.0		
	206 IZMI	6	0806.8	0807.1	.5	130.0	90.0		
	260 ONDR	45	0851.5	0852.5	2	45.0			
	221 ABST	3	0851.3	0853.1	2	27.0	8.0		
	200 GORK	6	0958.7	0959	.6	180.0	50.0		
	100 GORK	41	1014.7	1015	5.5	40.0			
	100 GORK		1014.7	1019		40.0			
	200 GORK	6	1034.4	1034.7	.5	150.0	65.0		
	9500 BERL	4	1103.5	1106.3	166.5	210.0	63.0		
	9400 SLOU	46	1103	1106	13 U	242.0			
	4995 CANR	45	1103.5	1107.5	13			2	
	2950 GORK	4	1103	1106.3	34.5	192.0			
	1490 BERL	4	1103.2	1107.3	193.3	112.0D	31.0		
	950 GORK	46	1103.8	1106.2U	45.1	165.0	17.0		
	950 GORK		1103.8	1106.5		165.0			
	650 GORK	46	1103	1105.5	47	96.0			
	650 GORK		1103	1107.4		69.0			
	408 TRST	41	1103	1104.5	4	90.0D			
	100 GORK	41	1103	1105.6	3	40.0			
	9100 GORK	45	1104.1	1106.2	5	338.0	125.0		
	9100 GORK		1104.1	1107.3		280.0			
	2695 CANR	45	1104.5	1107.5	17.5			2	
	2695 CANR		1104.5	1108					
	600 UCCL	4	1104	1106	40 U	135.0	10.0		
	19000 SLOU	46	1105	1106.1	3	52.0			
	10500 BERN	45	1105	1105.6	11	98.0			
	10500 BERN		1105	1106.1		130.0			
	10500 BERN		1105	1107.2		100.0			
	9400 ONDR	45	1105.5	1106.5	8.5				
	1420 CANR	45	1105	1107.5	17.5			2	
	1420 CANR		1105	1108.5					
	808 ONDR	45	1106 E		14 D				
	536 ONDR	45	1106		14 D	120.0D			
	9100 GORK	29	1108.3	1108.3	12.4	73.0	21.0		
	950 GORK	29	1109	1109	39.9	50.0	8.5		
	650 GORK	29	1109	1109	41	20.0	4.6		
	2950 GORK	29	1112	1112	25.5	29.0	8.4		
	113 POTS	41	1133.4	1156.4	23.4	200.0	7.0		
	600 UCCL	1	1233		.5	8.0	4.0		
	1490 BERL	3	1358	1358.5	1.5	9.7	4.2		
	600 UCCL	4	1457.5	1458	.9	75.0	30.0		
	9400 HUAN	5	1538	1540.7	9.2	3.8	1.9		
	2800 OTTA	21	1900	1910	125	6.0	3.0		
	9400 HUAN	5	1901.4	1925.6	161.6	22.8	5.7		
	8800 SGMR	1	1901.2	1902.5	4.3	9.9	4.9		
	7000 SAOP	3	1901.9	1902.7	3.1	23.5	11.8		
	4995 SGMR	3	1901.1	1902.3	5.6	46.6	21.3		
	2800 OTTA	1	1901.5	1902	2	4.2	2.1		
	2695 SGMR	1	1901.4	1902.3	4.7	4.5	2.3		
	4995 BOUL	3	1903.5	1904	1.5			1	

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	7000 SAOP	40	1910.7	1911.4	9.6	12.9	9.6		
	7000 SAOP	22	1920.3	1925.1	16.5	28.2			
	15400 SGMR	20	1921.6	1926.6	13.9	5.7	2.8		
	960 PENN	40	1921.3		23.8				
	10700 PENN	20	1922.3	1925.9	20.9	13.8	7.6		
	8800 SGMR	20	1922.6	1925.3	11.8	10.4	5.2		
	4995 SGMR	20	1923.6	1925.8	13.2	46.0	20.1		
	2800 OTTA	20	1923	1926	30	11.6	5.4		
	2695 SGMR	20	1923	1925.7	13	8.7	4.2		
	4995 BOUL	3	1925.5	1927	7			1	
	4995 SGMR	1	1937	1937.5	1	7.1	3.5		
	2695 SGMR	1	1937.4	1937.9	1.3	9.3	4.6		
	18 MCMA	41	2025	2029	6			1	
23	8800 MANI	4	0009.5	0010.2	8	22.9	11.5		
	4995 MANI	4	0009.5	0010.2	12	8.5	4.3		
	9400 TYKW	5	0121	0122.1	6	13.0	2.0		
	3750 TYKW	5	0121	0122.1	10	5.0	2.0		
	9400 TYKW	45	0213	0214	4	9.0	3.0		
	9400 TYKW	5	0226.7	0227.2	3.5	10.0	2.0		
	9400 TYKW	5	0247	0247.9	4	8.0	2.0		
	9400 TYKW	45	0406	0408.2	40	22.0	7.0		
	3750 TYKW	45	0406	0439.5	50	8.0	4.0		
	8800 MANI	3	0407.2	0408.2	33.3	14.8	7.4		
	4995 MANI	3	0407.2	0408.2	17.8	20.2	8.6		
	3750 TYKW	5	0513	0514.2	2	3.0	1.0		
	2000 TYKW	45	0513.5	0513.6	1	9.0	2.0		
	200 GORK	44	0621 E		237		5.0		
	100 GORK	44	0621 E		217 D		100.0		
	204 KIEV	44	0700 E		420 D	69.0	16.0		
	113 POTS	45	0705 U	0741 U	163 U	100.0	30.0		
	100 GORK	44	0958 E		122 D		5.0		
	245 SGMR	44	1212 E		568 D				
	9400 TYKW	5	0632	0632.8	4	20.0	3.0		
	9100 GORK	1	0632.4	0632.7	.9	17.0	8.7		
	9400 TYKW	5	0636	0642.9	15	20.0	2.0		
	8800 MANI	22	0636.7	0641.3	14.8	29.7	11.1		
	4995 MANI	22	0636.7	0641.3	20	28.8	11.5		
	2695 MANI	22	0636.7	0641.3	16	17.9	5.0		
	1415 MANI	22	0636.7	0641.3	16	14.6	5.5		
	650 GORK	1	0640.3	0642.4	3.9	3.6	1.8		
	9100 GORK	1	0641	0642.8	2.9	20.0	10.0		
	3750 TYKW	5	0641	0642.6	3	5.0	2.0		
	606 MANI	40	0641	0641.7	2.7	70.0	17.7		
	2950 GORK	21	0726.1	0733.6	18.4	5.2	2.7		
	2950 GORK	3	0727	0727.6	1.9	12.0	4.7		
	600 UCCL	1	1124	1124.3	.6	10.0	5.0		
	7000 SAOP	20	1247.4	1310.4	27.7	26.3			
	536 ONDR	45	1252.5	1252.5	2.5	235.0			
	600 UCCL	3	1257.8	1258	.3	15.0	7.0		
	260 ONDR	45	1333	1333	1	35.0			
	260 ONDR	5	1347.5	1347.5	.5	50.0			
	2800 OTTA	21	1500	1540	75	3.6	1.8		
	2695 SGMR	3	1533.8	1534.9	2.6	18.0	3.7		
	2700 PENN	3	1534.7	1536	4.2	27.5	6.9		
	1415 SGMR	1	1534.3	1535	4.5	3.9	.8		
	2800 OTTA	3	1535	1536	3	17.6	6.0		
	2695 BOUL	3	1536	1537	4.5			1	
	2800 OTTA	20	1650	1710	55	2.4	1.2		
	2800 OTTA	20	1810	1900	90	2.8	1.4		
	2695 PENT	20	2200	2210	30	2.8	2.0		
	9400 HUAN	5	2203	2205.5	10.4	25.9	3.7		
	2695 PENT	1	2245.5	2246	5	4.0	2.0		
	2695 PENT	5	2314	2316	4	5.2	2.6		
	9400 TYKW	5	2315	2316	2	10.0	5.0		
	9400 TYKW	29	2317		15	4.0	2.0		
24	9400 TYKW	5	0317	0317.5	2	8.0	3.0		
	200 HIRA	45	0318	0318.3	1	240.0	50.0		
	200 HIRA	45	0548.5	0549	1	130.0	40.0		
	100 GORK	44	0627 E		333 D		5.0		
	204 KIEV	42	0935		265	43.0	8.0		
	200 GORK	6	0857.7	0857.8	.3	300.0	150.0		
	100 GORK	41	0857.6	0857.8	1.5	50.0			
	536 ONDR	5	1004.5	1004.5	.5	80.0			
	9500 BERL	3	1020 E	1020		15.0			
	9100 GORK	1	1020	1020.2	.7	23.0	12.0		
	2950 GORK	1	1020	1020.3	1.5	10.0	3.4		
	9400 HUAN	45	1152.5	1155.3	8.1	18.7	7.5		
	9400 HUAN		1152.5	1156.4		16.9			
	950 GORK	40	1153.8	1155.3	1.9	20.0			
	650 GORK	41	1153	1154	3.2	2.9	1.4		
	650 GORK		1153.7	1155.3		2.9			
	536 ONDR	45	1153.5	1155.5	6.5	75.0			
	408 TRST	42	1153.7		12	220.0D			
	600 UCCL	41	1154.5	1156	1.8	27.0	7.0		
	9500 BERL	1	1155.3E	1155.3		25.0			
	9100 GORK	1	1155	1155.2	2	23.0	12.0		
	1490 BERL	41	1155.3E	1155.3		6.4			
	930 BORD	5	1155	1155.2	1	43.0	2.0		

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JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ MEAN	INT	REMARKS
24	260 ONDR	45	1200	1204	7.5	110.0			
	237 TRST	41	1200.7	1202	4.1	300.0			
	204 KIEV	48	1200.8	1202.1	5	290.0			
	113 POTS	45	1200.9	1201.9	3.4	1400.0	100.0		
	200 GORK	41	1201.7	1201.8	2.7	300.0			
	200 GORK		1201.7	1203.4		300.0			
	100 GORK	41	1201.5	1201.8	3.3	90.0			
	100 GORK		1201.5	1203.4		90.0			
	600 UCCL	41	1202.5	1203.6	1.8	8.0	3.0		
	9400 HUAN	5	1247.1	1249.2	14.4	6.6	0.9		
	10700 PENN	1	1309.6	1310.2	1.4	6.3	2.8		
	204 KIEV	6	1314.7	1315.8	1.8	63.0			
	204 KIEV	6	1320.1	1320.3	.4	56.0			
	536 ONDR	5	1325	1325	1	70.0			
	2800 OTTA	20	1340	1448	110	10.4	5.0		
	4995 SGMR	20	1436.8	1445.1	24.1	21.7	5.0		
	9400 HUAN	5	1437.3	1438.7	45.5	8.4	4.7		
	2695 SGMR	20	1437.3	1448	18.3	4.5	1.0		
	408 SANM	45	1438.6	1441.5	6.4	41.5	7.0		
	2800 OTTA	20	1618	1620	12	3.4	1.7		
	8800 SGMR	22	1705.8	1726.5	50.7	25.5	5.1		
	2800 OTTA	21	1705	1735	55	7.0	4.0		
	15400 SGMR	22	1706.7	1728.9	51.5	13.4	4.2		
	4995 SGMR	22	1706.4	1726.7	54.6	49.6	9.8		
	2695 SGMR	22	1707.5	1723	49.5	8.7	1.9		
	9400 HUAN	5	1713.2E	1726.7	40.7	23.4	11.2		
	10700 PENN	20	1720.8	1727.1	32.5	14.1	5.2		
	2800 OTTA	1	1722	1723	4	2.8	1.4		
	10700 PENN	20	1805.9	1824.2	52.2	9.5	4.6		
	8800 SGMR	20	1805.8	1806.6	26.5	4.0	1.0		
	4995 SGMR	22	1805.3	1806.5	35.7	37.2	9.3		
	2800 OTTA	4	1805	1817	27	33.0	20.0		
	2695 SGMR	22	1805.5	1823.3	28.5	30.0	7.5		
	960 PENN	24	1805.1	1927.7		5.6			
	606 SGMR	22	1805.4	1806.8	25.3	5.0	1.0		
	960 PENN	45	1806.6	1818.2	25.6	6.0	1.9		
	408 SANM	45	1806.2	1809.5	6.3	86.0	15.0		
	9400 HUAN	5	1811.5	1829.3	47.1	11.2	5.6		
	1415 SGMR	22	1811.2	1826.8	21.1	10.5	2.6		
	2695 BOUL	40	1814	1818	18.5			1	
	2695 BOUL		1814	1824.5					
	2800 OTTA	30	1832		120	12.2	6.0		
	2695 SGMR	20	1841	1848.4	14	14.4	2.5		
	960 PENN	45	1842.9	1848.5	7.8	11.2	2.2		
	1415 SGMR	22	1843.7	1848.5	11.5	15.6	3.7		
	4995 SGMR	1	1846.7	1848.5	5.3	8.1	1.6		
	2800 OTTA	3	1846.5	1848.5	4.5	12.2	6.0		
	606 SGMR	1	1847.9	1848.5	1.5	6.8	1.3		
	2695 BOUL	3	1848.5	1849	4			1	
	7000 SAOP	3	1856.1	1856.6	11.6	16.5	11.1		
	2800 OTTA	20	1945	1952	15	6.0	3.0		
	9400 HUAN	5	2035	2048.4	90	31.8	18.7		
	8800 SGMR	22	2036	2048.3	28.4	22.0	5.5		
	4995 SGMR	22	2036.2	2047.5	31.3	67.6	16.4		
	2800 OTTA	21	2036	2230	180 D	18.0			
	2695 SGMR	22	2037	2047.5	36	42.9	10.7		
	2800 OTTA	4	2040	2047.5	15	52.0	26.0		
	960 PENN	45	2042.1	2045.5		25.9			
	2695 BOUL	40	2044	2049	14			2	
	10700 PENN	3	2045.3	2048.7	11	13.9	7.4		
	4995 BOUL	3	2046.5	2049	10			1	
	1415 SGMR	1	2047.1	2048.2	7.9	5.5	1.4		
	606 SGMR	4	2047	2047.4	7.2	13.5	3.8		
	408 SANM	45	2049.4	2049.7	2.4	67.0	13.5		
	2800 OTTA	29	2055		65	24.0	11.0		
	18 MCMA	41	2131	2137	9			1	
	200 HIRA	45	2233.8	2233.8	.5	830.0	410.0		
	4995 MANI	47	2303.8	2323.2	29.1	6300.0	2500.0		
	3750 TYKW	47	2303	2324	52	3540.0	850.0		
	2695 PENT		2303	2324	33 D	2375.0			
	2695 MANI	47	2303.8	2323.2	29.1	2300.0	1280.0		
	2665 CRON	4	2303.5	2324	91.5			3	
	2000 TYKW	47	2303	2324	57	1270.0	390.0		
	9400 TYKW	47	2304	2322.4	51	6900.0	1400.0		
	4995 CRON	41	2304	2323.5	83.5			3	
	1415 MANI	47	2304.9	2320.3	28	640.0	460.0		
	1000 TYKW	45	2304	2322.1	55	810.0	250.0		
	500 HIRA	45	2304.7	2322.5	80	650.0	100.0		
	4995 BOUL	45	2305.5	2324.5	41.5D			3	
	2695 BOUL	45	2305	2325	41.5D			3	
	1420 CRON	4	2305	2325	54.5			3	
	200 HIRA	45	2305	2320	70	1000.0	100.0		
	1420 BOUL	4	2306	2325	40 D			2	
	8800 MANI	47	2307.6	2323.1	25.3	9100.0	3300.0		
	606 MANI	47	2307.6	2322.2	25.1	1330.0	540.0		
	208 VORO	45	2315	2320	28	580.0	188.0		
	606 MANI	30	2323.7	2323.7	112.8	280.0	102.0		
	8800 MANI	29	2332.9	2332.9	95.3	1000.0	360.0		
	4995 MANI	29	2332.9	2332.9	95.3	1040.0	310.0		
	2695 MANI	29	2332.9	2332.9	95.3	770.0	285.0		

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JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	1415 MANI	29	2332.9	2332.9	103.6	480.0	196.0		
	606 MANI	4	2349	2350	2.8	127.0	64.0		
	9400 TYKW	29	2355		225	185.0	50.0		
	3750 TYKW	29	2355		225	140.0	40.0		
	1000 TYKW	29	2359		175	15.0	7.0		
	2000 TYKW	29	2400		180	30.0	14.0		
25	1000 TYKW	45	--	0020	24	35.0	14.0		
	1000 TYKW	5	0026	0030.5	8	12.0	5.0		
	1000 TYKW	5	0038	0039.6	4	6.0	3.0		
	2000 TYKW	5	0047	0048.6	5	29.0	7.0		
	1000 TYKW	5	0047	0048.7	8	80.0	13.0		
	1420 CRON	8	0048	0049.5	4			2	
	1000 TYKW	45	0057	0058.5	6	16.0	5.0		
	1000 TYKW	5	0108	0111	22	12.0	5.0		
	1000 TYKW	45	0130	0148.5	22	14.0	5.0		
	606 MANI	22	0153.2	0157.9	10.8	17.0	5.3		
	1000 TYKW	45	0154	0157.5	35	42.0	13.0		
	606 MANI	4	0242.5	0246.3	6.2	18.1	5.7		
	9400 TYKW	45	0254	0254.2	3	28.0	9.0		
	8800 MANI	4	0254	0254.2	2.2	18.6	7.4		
	4995 MANI	4	0254	0254.2	2.2	11.2	5.6		
	3750 TYKW	45	0254	0254.2	4	8.0	3.0		
	1000 TYKW	5	0309	0313	15	14.0	7.0		
	221 ABST	41	0700		120	9.0			
	204 KIEV	44	0700 E		420 D	87.0	16.0		
	200 GORK	44	0700 E		135		40.0		
	100 GORK	44	0700 E		162		25.0		
	600 UCCL	1	0806	0806.2	.8	7.0	4.0		
	260 ONDR	41	0810	1059	370	40.0			
	1490 BERL	22	0819.5	0836.5	25.5U	10.0	3.1		
	600 UCCL	20	0851.8	0922.5	97	13.0	5.0		
	100 GORK	6	0900 E	0907	.9E	700.0	150.0		
	200 GORK	44	0915		195 D		25.0		
	100 GORK	44	0942		189 D		5.0		
	650 GORK	21	0919.2		48		2.0		
	420 KIEL	48	0920	1003	60	260.0	150.0		
	408 TRST	47	0920	1003.5	60	230.0			
	650 GORK	3	0927.5	0929.9	6.4	22.0	9.5		
	600 UCCL	3	0927.8	0930.5	7.5	65.0	30.0		
	536 ONDR	45	0927.5	0930	10	180.0			
	2950 GORK	1	0928.3	0928.6	1	6.0	3.0		
	100 GORK	42	1107.6	1139.7	52		60.0		
	200 GORK	6	1113.9	1114.1	.6	180.0	35.0		
	408 TRST	41	1125.7	1126	.3	50.0D			
	9400 HUAN	5	1326.3	1326.8	1.1	10.9	6.4		
	2700 PENN	1	1430.8	1431.3	6	6.6	1.1		
	960 PENN	45	1430.8	1431.6	2	3.8	0.5		
	408 SANM	45	1432.7	1434.3	2.3	33.5	12.0		
	2800 OTTA	20	1455	1620	190	5.0	2.5		
	7000 SAOP	22	1500.8	1522.8	30	30.0			
	2800 OTTA	20	1810	1935	140	3.0	1.5		
	9400 HUAN	5	1928.9	1937.2	50.4	10.9	5.5		
	9400 HUAN	5	2036.1	2058.5	41.6	9.1	4.6		
	2695 PENT	20	2040	2045	20	2.0	1.4		
	10700 PENN	40	2055.2		20.8				
	2695 PENT	26	2215		20	2.8			
26	9400 TYKW	5	0249.5	0249.9	1	3.0	1.0		
	3750 TYKW	5	0249.5	0249.9	1.5	5.0	2.0		
	200 HIRA	45	0615	0616.5	3	580.0	60.0		
	200 GORK	41	0754.4	0756.8	5.1	30.0			
	200 GORK		0754.4	0758.9		80.0			
	100 GORK	41	0755.8	0757.1	4	50.0			
	100 GORK		0755.8	0757.9		50.0			
	204 KIEV	6	0756.1	0758.8	3.6	39.0			
	600 UCCL	1	0824.5		.6	5.0	3.0		
	237 TRST	41	0943.7	0944	.3	140.0			
	204 KIEV	6	0943.3	0943.9	1.2	33.0			
	9500 BERL	2	1030.7E	1030.7		6.1			
	237 TRST	42	1031	1028.8	8.7	860.0			
	204 KIEV	41	1031.6	1038.2	9.5	108.0			
	200 GORK	41	1031	1032.3	9.4	70.0			
	200 GORK		1031	1039		550.0			
	100 GORK	41	1032.1	1032.3	8.7	55.0			
	100 GORK		1032.1	1039		55.0			
	100 GORK		1032.1	1039.5		350.0			
	2950 GORK	1	1036.9	1039.1	4.7	4.7	2.3		
	930 BORD	45	1036	1038.7	6	30.0	4.0		
	1490 BERL	46	1037	1038.7	3	10.0	3.9		
	950 GORK	40	1037	1038.7	3.5	14.0			
	650 GORK	40	1037.6	1038.9	2.4	10.5			
	536 ONDR	45	1037.5	1038.5	2.5	60.0			
	260 ONDR	45	1037.5	1038.5	2.5	70.0			
	600 UCCL	4	1038.8	1040	2.5	15.0	10.0		
	234 POTS	45	1038.5	1038.9	1.3	450.0	45.0		
	221 ABST	3	1038.3	1039	1	100.0	14.0		
	206 IZMI	6	1038.5	1039	1.5	140.0	90.0		
	113 POTS	45	1038.6	1038.9	1.3	200.0	20.0		
	260 ONDR	45	1325.5	1327.5	4.5	50.0			

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JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	204 KIEV	6	1325.2	1328.2	3.8	97.0			
	4995 SGMR	4	1326.9	1328.1	5.7	27.5	9.0		
	2695 SGMR	2	1326.7	1328.1	3.2	6.7	2.0		
	9400 HUAN	5	1327.5	1328.1	3.6	8.3	3.6		
	8800 SGMR	2	1327.7	1328	6.8	8.3	2.5		
	2800 OTTA	1	1327.5	1328	2.5	6.4	3.6		
	1490 BERL	4	1327	1328	3	31.0	15.0		
	1415 SGMR	4	1327.3	1328.1	5.4	52.0	13.0		
	930 BORD	45	1327	1328	3	122.0	15.0		
	808 ONDR	45	1327	1327.5	3				
	606 SGMR	4	1327.3	1327.9	4.2	16.2	4.0		
	536 ONDR	45	1327.5	1328	2.5	60.0			
	245 SGMR	6	1327.2	1327.8	4.2	93.0	8.0		
	240 KIEL	6	1327	1328	2	190.0	20.0		
	113 POTS	41	1327	1328.1	15.4	200.0	2.0		
	9500 BERL	22	1328	1329	2.5	8.6	5.8		
	1420 CANR	42	1328.5	1329	2.5			1	
	600 UCCL	3	1328	1328.8	3.5	27.0	10.0		
	237 TRST	42	1328	1327	3.7	270.0			
	2800 OTTA	20	1337	1339	6	3.0	1.5		
	2800 OTTA	21	1425	1540	95	3.8	1.9		
	2800 OTTA	1	1435	1435.4	2.5	5.0	2.0		
	2800 OTTA	21	1655	1710	30	2.6	1.3		
	18 MCMA	42	1656	1712	17			1	
	245 SGMR	6	1704.8	1708.2	8.8	105.0	10.0		
	2695 SGMR	22	1705.3	1708	13.4	6.0	2.5		
	2800 OTTA	1	1706	1707.9	2.5	4.6	2.2		
	4995 SGMR	4	1707	1708.1	5.4	18.8	4.5		
	18 BOUL	41	1735	1737	6			1	
	18 BOUL	41	1803	1804	9			1	
	2800 OTTA	20	1900	1910	25	2.4	1.2		
	2800 OTTA	20	1950	1953	25	2.4	1.2		
	2695 PENT	1	2202	2203	2	2.8	1.4		
27	3750 TYKW	45	0240	0306.6	80	5.0	2.0		
	9400 TYKW	5	0248	0254	50	6.0	2.0		
	2000 TYKW	5	0305	0307	15	3.0	1.0		
	9400 TYKW	5	0549	0549.3	6	27.0	4.0		
	8800 MANI	3	0549	0549.5	1.6	15.1	7.5		
	600 UCCL	3	0822.8	0823	.8	11.0	5.0		
	930 BORD	41	0844	0849.6	9	41.0	2.0		
	2800 OTTA	20	1735	1810	70	3.4	1.7		
	18 MCMA	42	1909	1912	14			1	
28	4995 MANI	3	0048.6	0050.2	3.9	30.8	8.4		
	3750 TYKW	5	0048	0050.1	4	15.0	5.0		
	9400 TYKW	5	0049	0050	3	4.0	2.0		
	8800 MANI	1	0049.4	0050.2	2.6	3.8	1.9		
	606 MANI	1	0049.1	0049.5	1	6.8	3.4		
	3750 TYKW	29	0052		18	3.0	2.0		
	9750 IRKU	3	0519	0520	5	52.0	13.0		
	100 GORK	6	0745	0745.4	2.2	40.0			
	237 TRST	45	1000.3	1000.8	.5	110.0	30.0		
	600 UCCL	8	1002.7		.3	34.0	10.0		
	808 ONDR	45	1054		31				
	100 GORK	6	1228.1	1228.2	.5	30.0	15.0		
	930 BORD	5	1244	1244.9	1	122.0	2.0		
	9500 BERL	20	1310	1315	10	7.0	4.3		
	1490 BERL	20	1310	1312.5	4	3.1	2.5		
	9400 HUAN	5	1311.4	1313.7	13.5	5.8	1.6		
	930 BORD	5	1320	1320.5	1	12.0	1.0		
	2800 OTTA	20	1335	1355	75	3.0	1.5		
	9400 HUAN	5	1402.2	1415.8	22	5.8	3.7		
	113 POTS	45	1416	1416.1	.5	140.0	20.0		
	7000 SAOP	8	1729.6	1730	1	10.4	5.8		
	2800 OTTA	1	2032.5	2032.7	4	2.8	1.4		
29	200 GORK	44	0612 E		399 D		15.0		
	100 GORK	44	0612 E		399 D		70.0		
	200 GORK	6	0613.4	0613.5	.5	200.0	100.0		
	204 KIEV	44	0700 E		420 D	105.0	15.0		
	260 ONDR	41	0820	1134	360	50.0			
	200 GORK	42	1051	1039.7	120	400.0			
	245 SGMR	44	1206 E		582 D				3
	10500 BERN	1	0935	0935.3	1	8.0			
	9100 GORK	1	0935	0935.3	1	19.0	8.0		
	221 ABST	3	1043	1043.1	1	28.0	9.0		
	930 BORD	5	1056	1056.2	1	77.0	2.0		
	113 POTS	45	1112.3	1112.7	.6	700.0	140.0		
	113 POTS	45	1213.3	1213.5	1.3	700.0	100.0		
	9500 BERL	1	1214 E	1214		3.0			
	1490 BERL		1214 E	1214		1.2			
	408 SANM	45	1233.4	1234.4	1.6	58.5	18.0		
	930 BORD	5	1300	1300.6	1	105.0	2.0		
	600 UCCL	4	1338.2	1339	2.6	18.0	8.0		
	23 POTS	5	1350.7	1350.8	.3	9000.0	3000.0		
	408 SANM	45	1521.2	1523.2	2.8	34.5	9.0		
	15400 SGMR	1	1534.7	1534.9	.4	7.2	2.0		
	10700 PENN	3	1534.5	1534.9	6	23.1	5.8		
	9400 HUAN	5	1534.5	1534.7	1.3	27.2	10.0		

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JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	8800 SGMR	3	1534.7	1534.9	1	15.8	4.0		
	4995 SGMR	1	1534.7	1534.9	1	3.9	1.5		
	2800 OTTA	1	1534.8	1535	6	4.0	1.4		
	2695 SGMR	1	1534.7	1534.9	.4	2.0	1.0		
	2800 OTTA	20	1635	1639	15	2.8	1.4		
	18 MCMA	42	1719	1733	33			2	
	2695 BOUL	41	1814	1816	2.5			1	
	2695 PENT	20	2245	2255	20	4.4	2.2		
	2695 BOUL	40	2341.5	2342	5			2	
30	100 GORK	44	0618 E		162 D		100.0		
	200 GORK	44	0620 E		160 D		30.0		
	221 ABST	41	0700		120	20.0			
	204 KIEV	44	0700 E	0740	240	230.0	40.0		
	113 POTS	45	0707 U	0753 U	143 U	70.0	15.0		
	234 POTS	45	0830.6	0830.7	1	200.0	3.0		
	200 GORK	44	0900 E		210 D		5.0		
	100 GORK	44	0900		210 D		10.0		
	100 GORK	41	0941	0941.1	4.2	200.0			
	100 GORK		0941	0942.2		700.0			
	100 GORK		0941	0944.7		100.0			
	245 SGMR	43	1422.8		446.2D				
	600 UCCL	3	1549.2		.3	25.0	12.0		
	10700 PENN	20	1759	1800.7	32.2	9.0	4.0		
	9400 HUAN	5	1759	1800.9	67	13.4	5.5		
	8800 SGMR	20	1759.4U	1801	17.5U	8.1	2.0		
	4995 SGMR	22	1759.4	1801.1	16.4	15.2	3.5		
	2800 OTTA	20	1805	1810	45	2.8	1.4		
	408 SANM	40	1925		10				
	408 SANM	45	2016.4	2016.8	1.4	83.5	27.5		
	408 SANM	40	2100		15				
	2695 PENT	20	2105	2125	65	2.6	1.3		
	9400 HUAN	5	2127.9	2129	24.4	9.6	2.3		
31	9400 TYKW	5	0100	0109	20	9.0	5.0		
	3750 TYKW	5	0100	0109	20	3.0	2.0		
	9400 TYKW	45	0130	0131.8	20	44.0	13.0		
	8800 MANI	4	0130.4	0131.6	9.4	55.0	23.9		
	4995 CRON	20	0130	0131	11			1	
	4995 MANI	4	0130.4	0131.6	8.6	33.8	13.0		
	3750 TYKW	45	0130	0130.6	20	13.0	4.0		
	3750 TYKW	45	0215	0217	80	6.0	3.0		
	9400 TYKW	5	0225	0227	15	4.0	2.0		
	3750 TYKW	5	0607	0607.3	2	3.0	1.0		
	3750 TYKW	5	0611	0612.8	2.5	3.0	1.0		
	3750 TYKW	5	0618	0618.6	2	7.0	2.0		
	100 GORK	44	0621 E		381 D		30.0		
	200 GORK	44	0625 E		377 D		60.0		
	221 ABST	41	0700	0835	240	15.0			
	204 KIEV	44	0740	1325	350 D	450.0	25.0		
	206 IZMI	44	0800		180	140.0			
	260 ONDR	44	0840	1203	320	105.0			
	240 KIEL	44	1202 E	1202		400.0	25.0		
	245 SGMR	44	1204 E		586 D				
	650 GORK	22	0628.5		83.6	7.7	3.6		
	8800 MANI	22	0711.8	0717.9	36.3	53.0	26.6		
	4995 MANI	22	0711.8	0720.8	36.3	49.4	13.0		
	9400 TYKW	45	0712	0718	18	40.0	12.0		
	9100 GORK	21	0712.5E	0720.3	29.5E	44.0	18.0		
	9100 GORK	2	0712.3	0713.1	.7	21.0	12.0		
	9100 GORK	3	0717.3	0718	2.8	30.0	13.0		
	2950 GORK	1	0732.8	0732.9	1.2	3.8	1.5		
	100 GORK	6	0756.9	0758.8	3.1	550.0			
	650 GORK	40	0806	0828.7	36	13.7			
	650 GORK	40	0909.8	0914.6	9.9	6.3			
	650 GORK	40	1033	1038.1	18	9.8			
	600 UCCL	2	1037	1038.4	3.2	11.0	4.0		
	600 UCCL	2	1044.5	1047	3.8	8.0	3.0		
	234 POTS	45	1048.5	1048.6	.4	175.0	35.0		
	7000 SAOP	22	1050 E	1102.5	20				
	7000 SAOP	45	1110	1116.8	27.3	119.0	63.5		
	7000 SAOP	3	1110	1116.8	12	119.0	77.1		
	9500 BERL	22	1111	1123.5	3.4	25.0	14.0		
	9400 SLOU	22	1112	1123	22	24.0			
	9100 GORK	20	1114.8	1123.4	22.7	30.0	9.5		
	113 POTS	45	1117 U	1428 U		140.0U			
	7000 SAOP	3	1122	1123.3	15.3	9.0	49.9		
	600 UCCL	8	1139.8		.2	44.0	22.0		
	650 GORK	40	1149	1201.5	22.3	8.6			
	234 POTS	45	1214.8	1215.2	.5	250.0	40.0		
	200 GORK	6	1215	1215.6	1.4	400.0			
	408 SANM	45	1401.6	1404.5	4.9	70.5	17.0		
	930 BORD	41	1433	1434.5	2	87.0	2.0		
	2800 OTTA	22	1458	1500	20	2.0	1.0		
	930 BORD	5	1519	1519.1	1	16.0	1.0		
	2800 OTTA	20	1605	1615	70	2.0	1.0		
	18 MCMA	42	1709	1712	45			1	
	2800 OTTA	21	1730	1825	165	10.0	5.0		
	2800 OTTA	1	1742	1742.6	2	2.2	1.0		
	2700 PENN	1	1742.5	1742.8	1.2	4.1	1.7		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1971

JAN. 1971	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
31	960 PENN	8	1742.6	1742.7	.3	4.8			
	9400 HUAN	5	1748.7	1833.3	109.9	11.3	7.5		
	9400 HUAN		1748.7	1908.8		9.4			
	10700 PENN	3	1904	1915.8	21.5	21.6	2.5		
	7000 SAOP	41	1911.7	1912.7	6	54.3			
	7000 SAOP	3	1911.7	1912.7	1.8	54.3	24.3		
	7000 SAOP	3	1913.4	1914	4.2	30.0	20.8		
	9400 HUAN	5	1915.2	1915.7	1.2	23.6	7.5		
	8800 SGMR	3	1915.4	1915.7	1.2	21.1	4.0		
	4995 SGMR	3	1915.3	1915.8	1.4	23.4	4.4		
	2800 OTTA	1	1915.5	1915.9	1	4.8	2.4		
	2700 PENN	3	1915	1915.9	3.4	11.0	1.8		
	2695 SGMR	1	1915.5	1915.9	1.4	3.7	.8		
	18 MCMA	6	2033	2036	4			1	
	408 SANM	42	2140	2140.3	5	261.0	78.0		
	208 VORO	44	2300	2303	240	252.0			

Observatories:

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

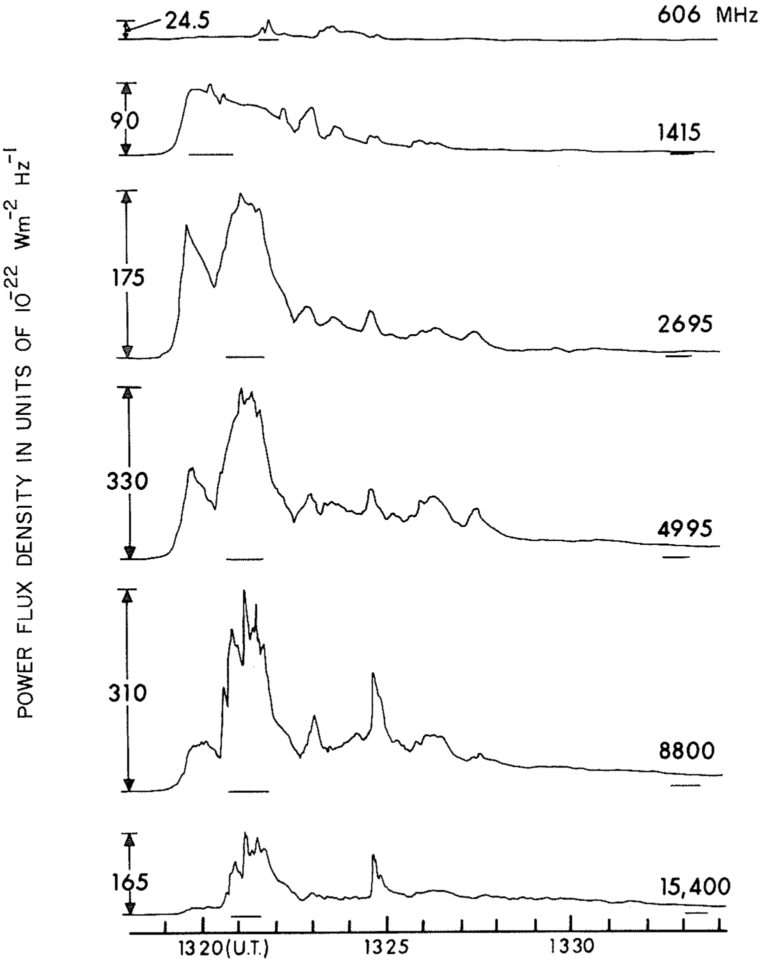
Explanation of Type Code:

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

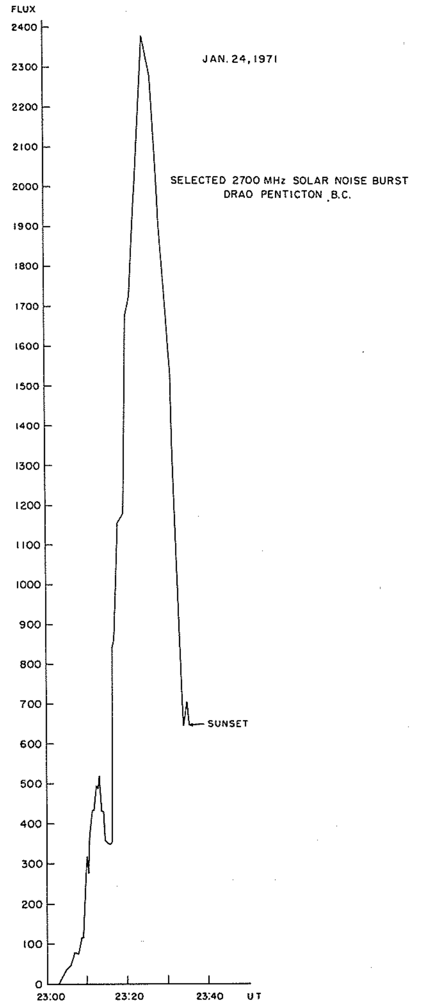
Radio bursts observed at Boulder, Canary Islands and Carnarvon (1420, 2695 and 4995 MHz) are scaled on a relative intensity scale of 1-3 where, within a factor of three or less, 1 = <100 fu ($10^{-22} Wm^{-2} Hz^{-1}$), 2 = 100-1000 fu and 3 = >1000 fu.

SELECTED SOLAR NOISE BURSTS

21-24 JANUARY 1971



COMPLEX F RADIO BURST OBSERVED ON 21 JANUARY, 1971 AT SAGAMORE HILL RADIO OBSERVATORY HAMILTON, MASS.



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

January 1971

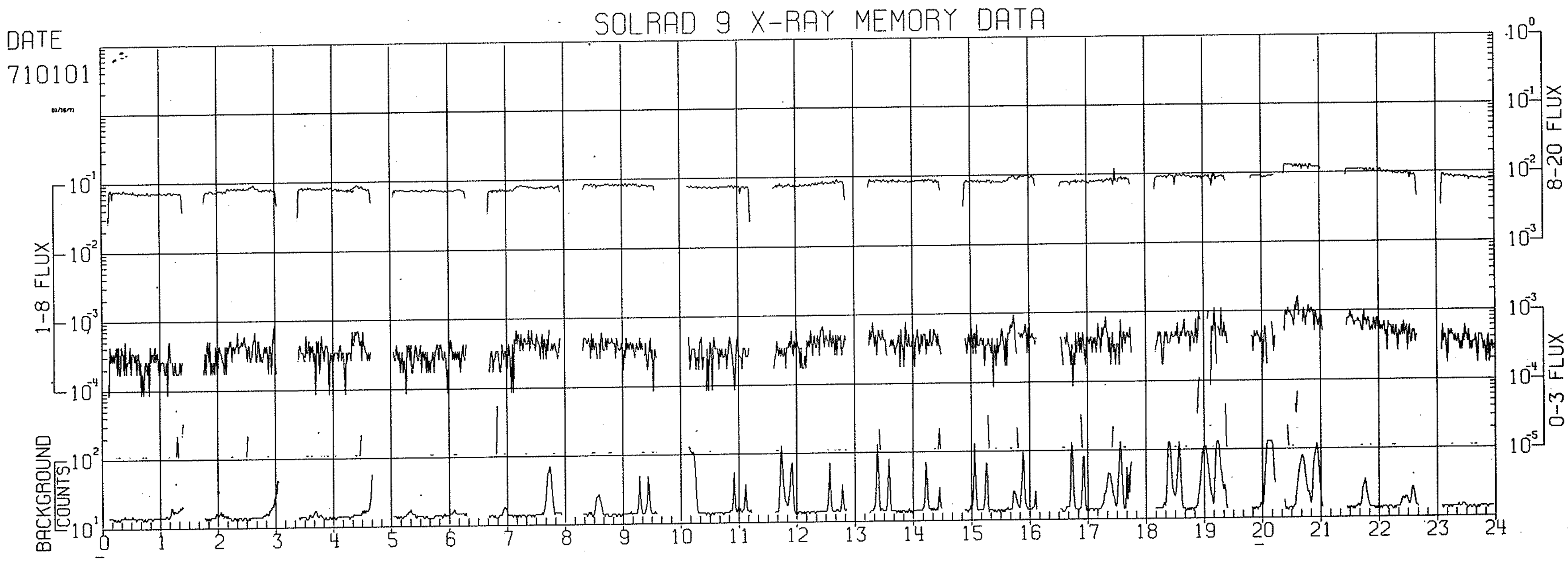
University of Iowa

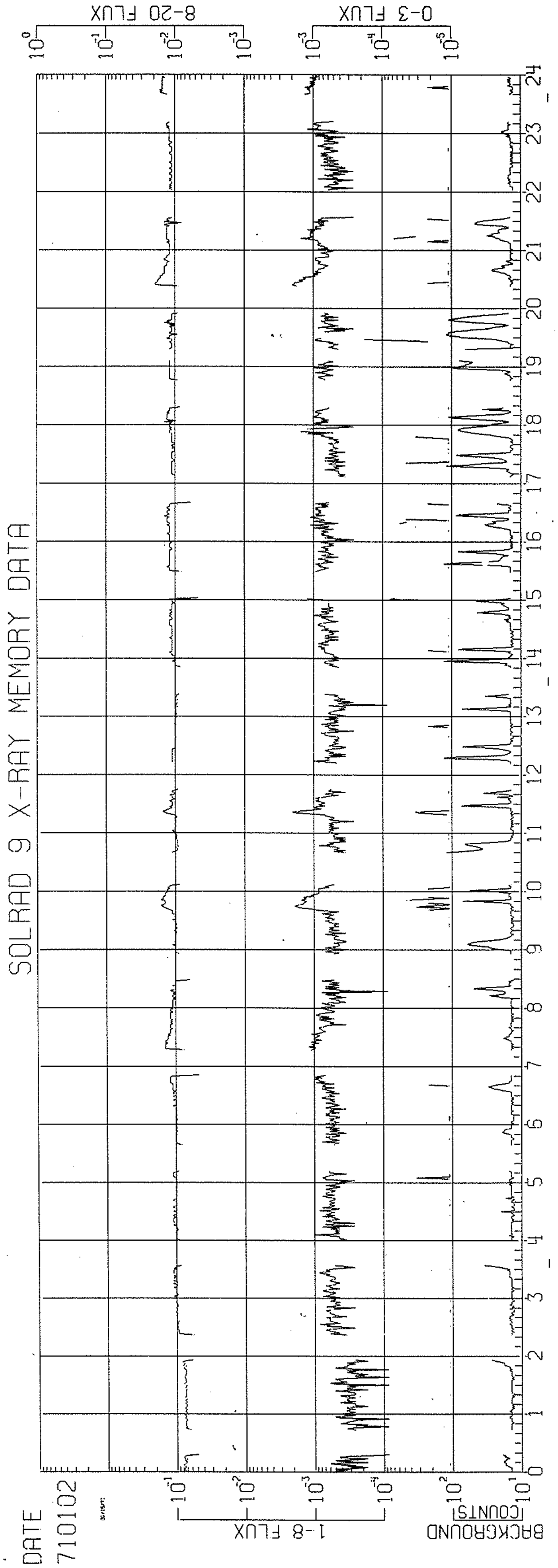
Date 1971	Onset U.T.	Maximum U.T.	Peak-Ratio to Quiet Sun	Remarks and Values of Maximum Flux F(2-12 A°) in erg $(cm^2\ sec)^{-1}$
1,2,3,4 January	--	--	--	An unusually quiet period
5 January	--	--	--	Several minor flares
6 January	2106	2115	5	
7 January	0319	0326	4	
9 January	1458 2258	1525 2319	4- 4-	
10 January	< 1742	1751	5	Onset not observed
13 January	2104	2108	4-	Rapid rise, rapid decline
14 January	2033	2041	18	0.036
15 January	0401	0403	10	Rapid rise, rapid decline 0.022
	1545	1552	5	
16 January	~ 0750	~ 0836	> 10	Data quality poor Slow rise, slow decline
19 January	1533	1544	5	
21 January	1318	1326	16	0.042
22 January	1102	1108	6	
24 January	-- 1807 2034 2307	1729 1827 2105 2329	4- 4 4 60	Onset not observed 0.190 Major electron, proton, alpha particle event
27 January	0549	0553	4	
29 January	0451	0525	8	
31 January	0129 1111 1122	0135 1119 1125	9 5 6	

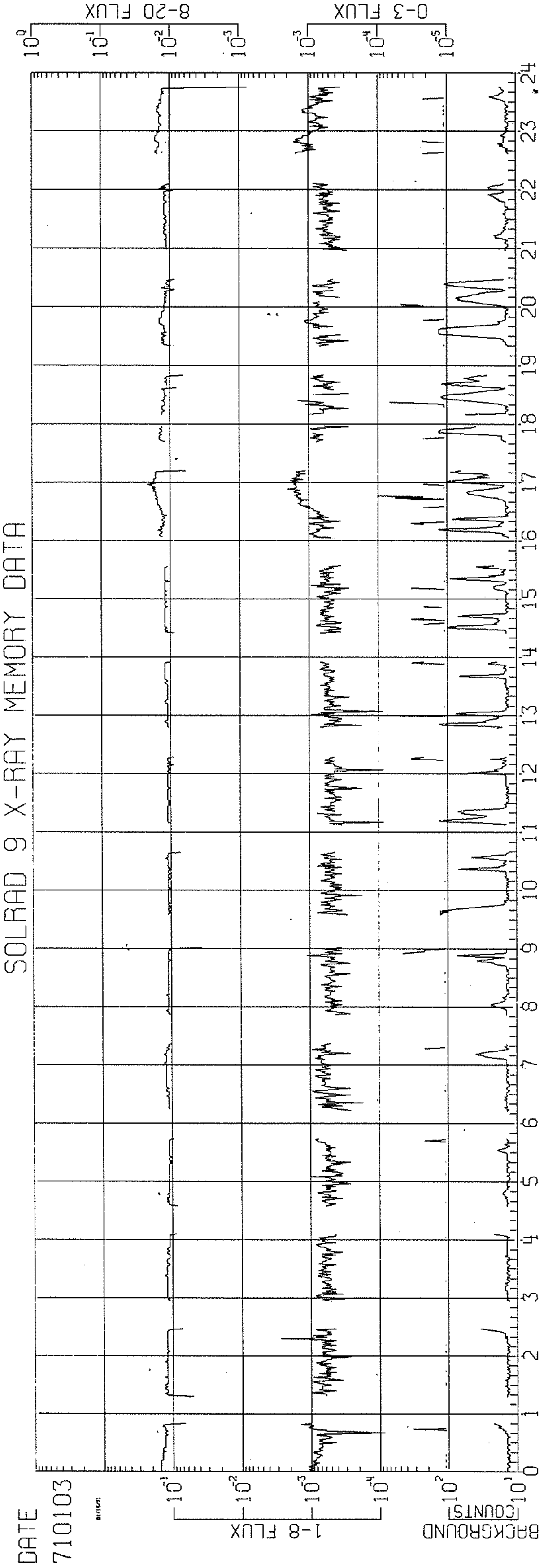
Note: Coverage 1-15 January 81%
16-31 January 52%

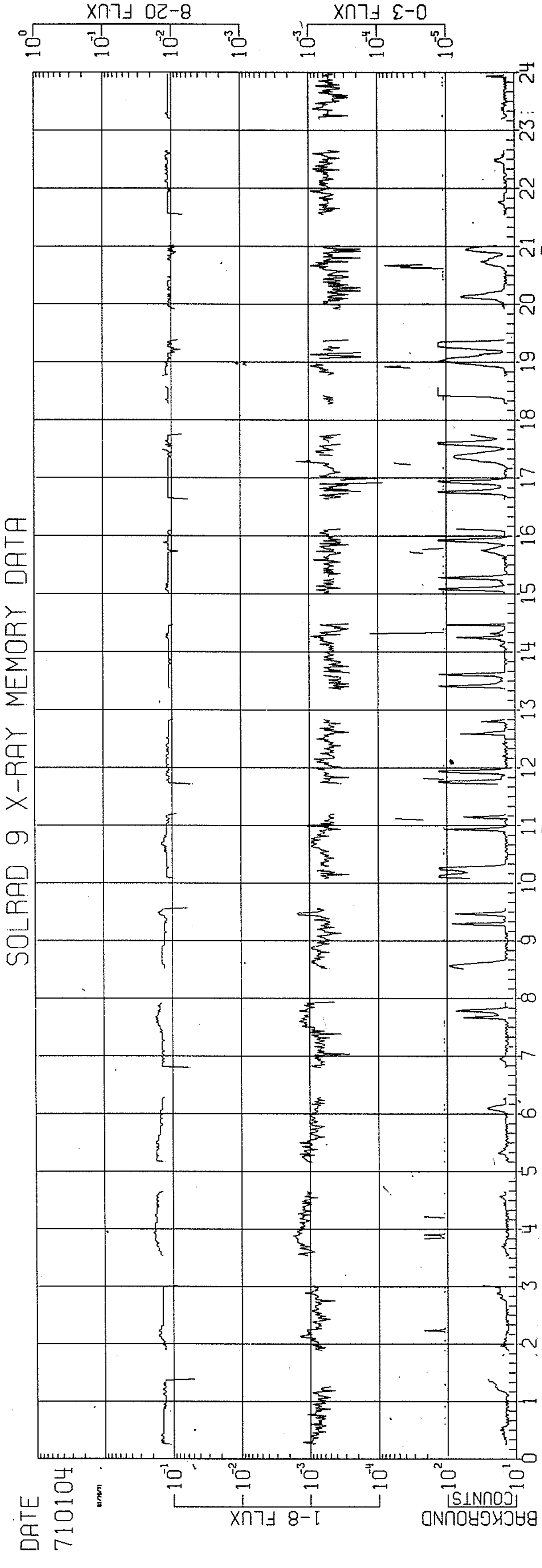
SOLAR X-RAYS MEASURED BY SATELLITE SOLRAD 9-EXPLORER 37

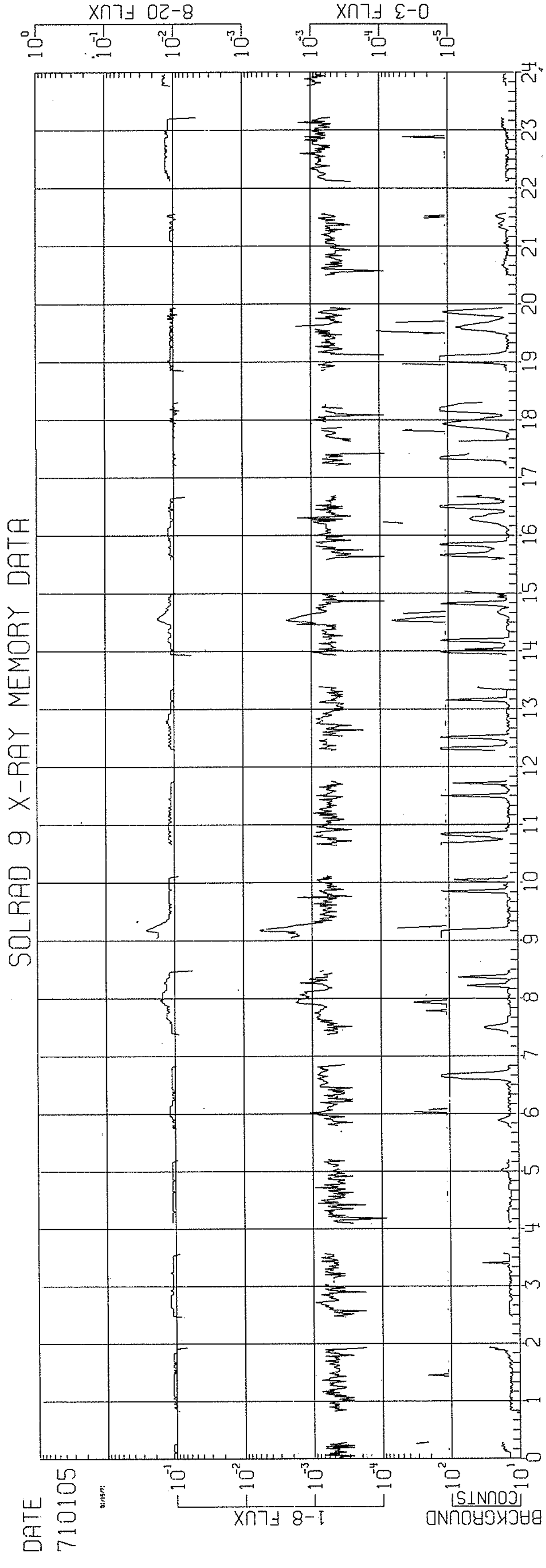
JANUARY 1971




SOLRAD 9 X-RAY MEMORY DATA
DATE
710102
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
COUNTS


SOLRAD 9 X-RAY MEMORY DATA
DATE
710103
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
COUNTS


SOLRAD 9 X-RAY MEMORY DATA
DATE
710104
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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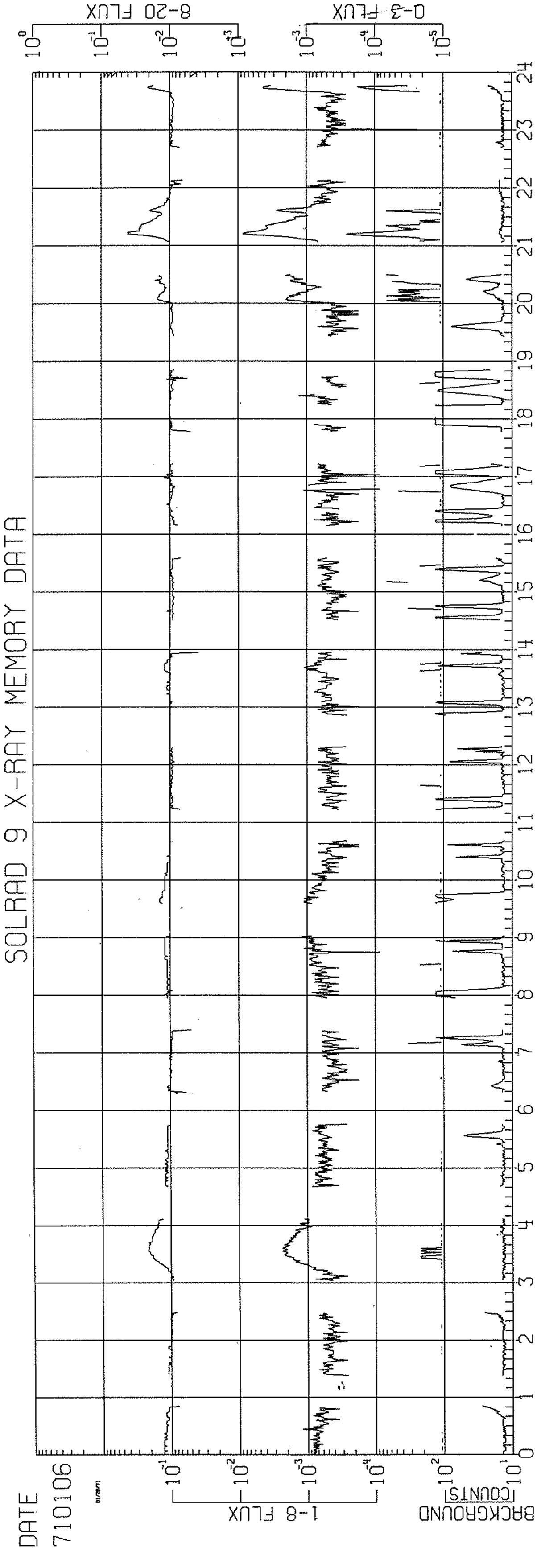
DATE
710105
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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DATE
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8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
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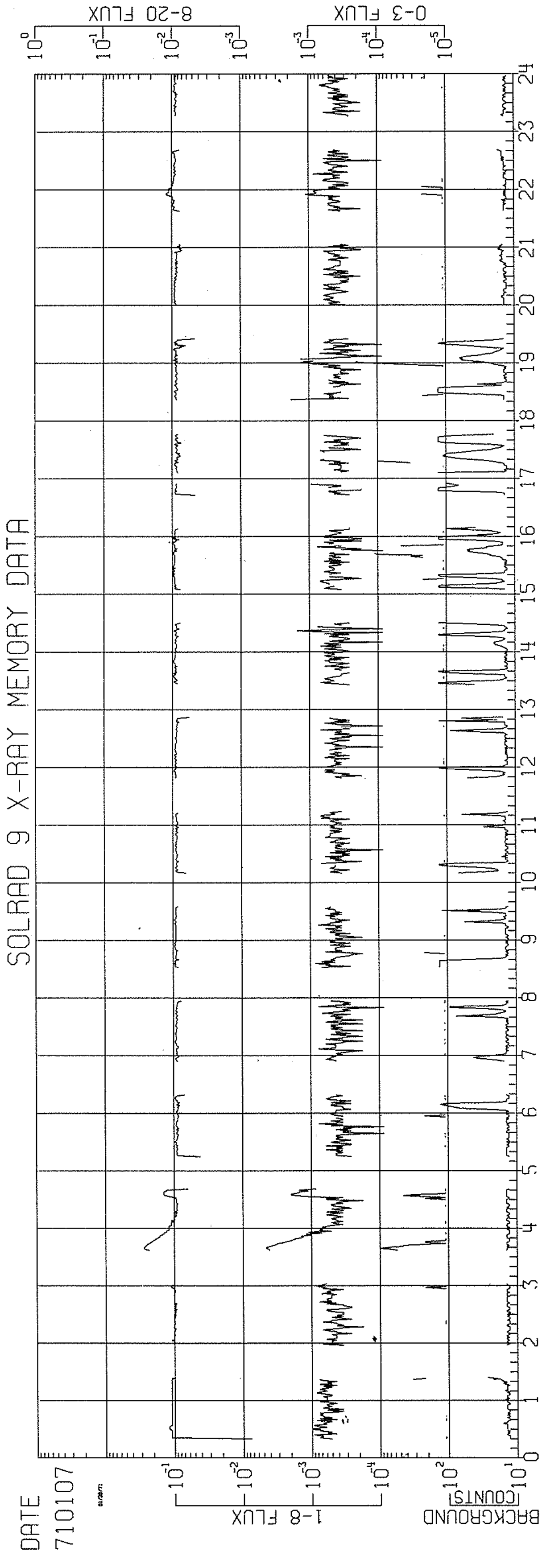
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DATE
710107
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
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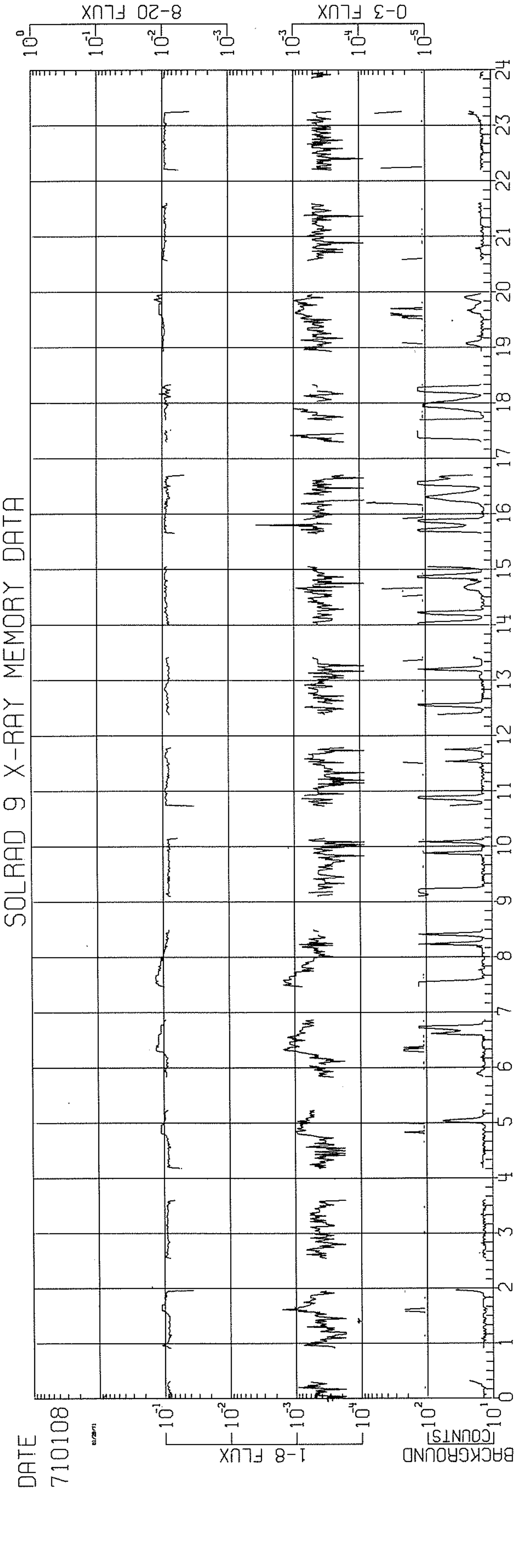
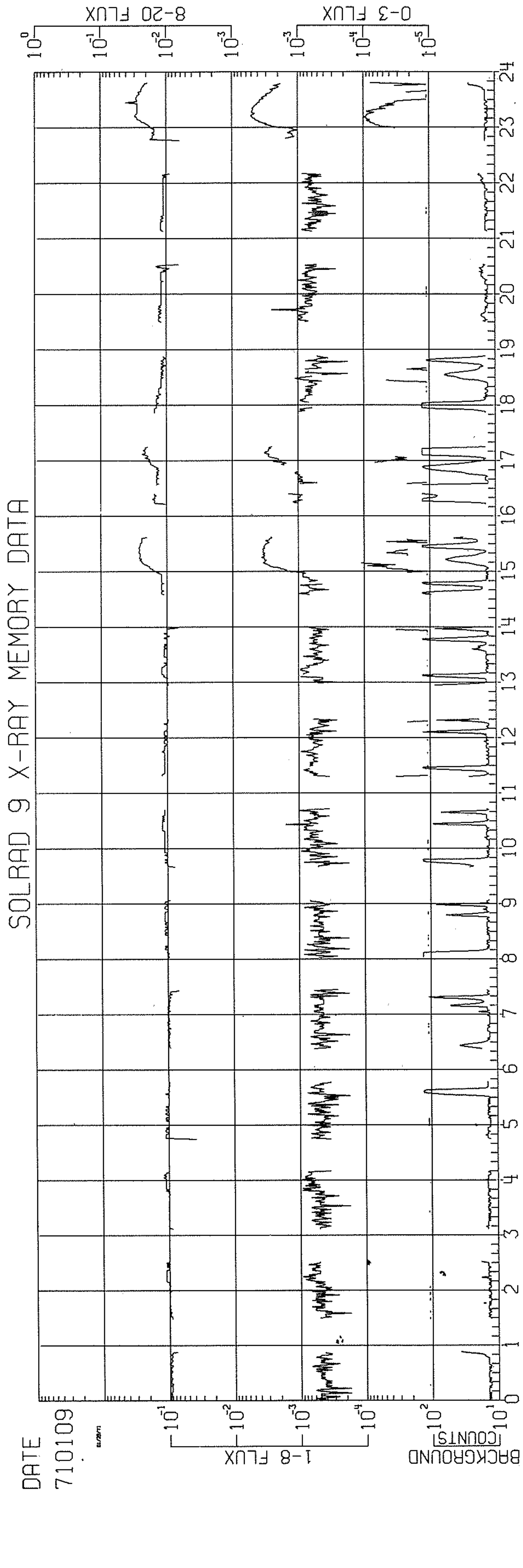

SOLRAD 9 X-RAY MEMORY DATA
DATE
710108
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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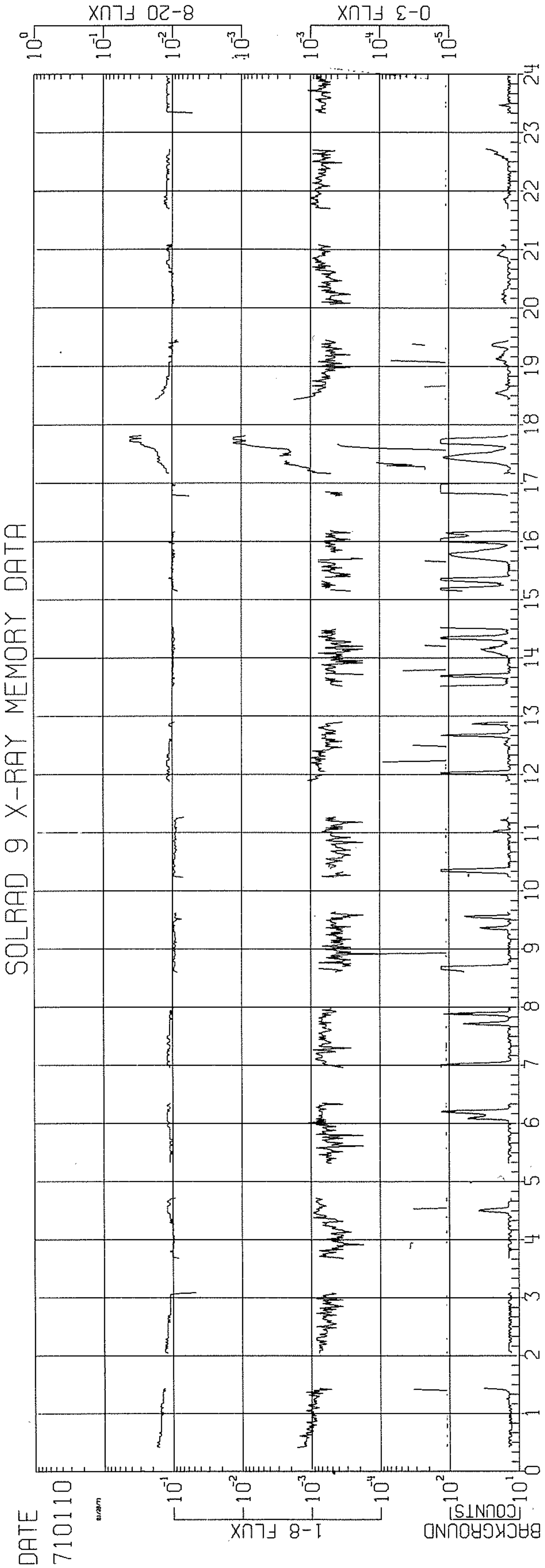
DATE
710109
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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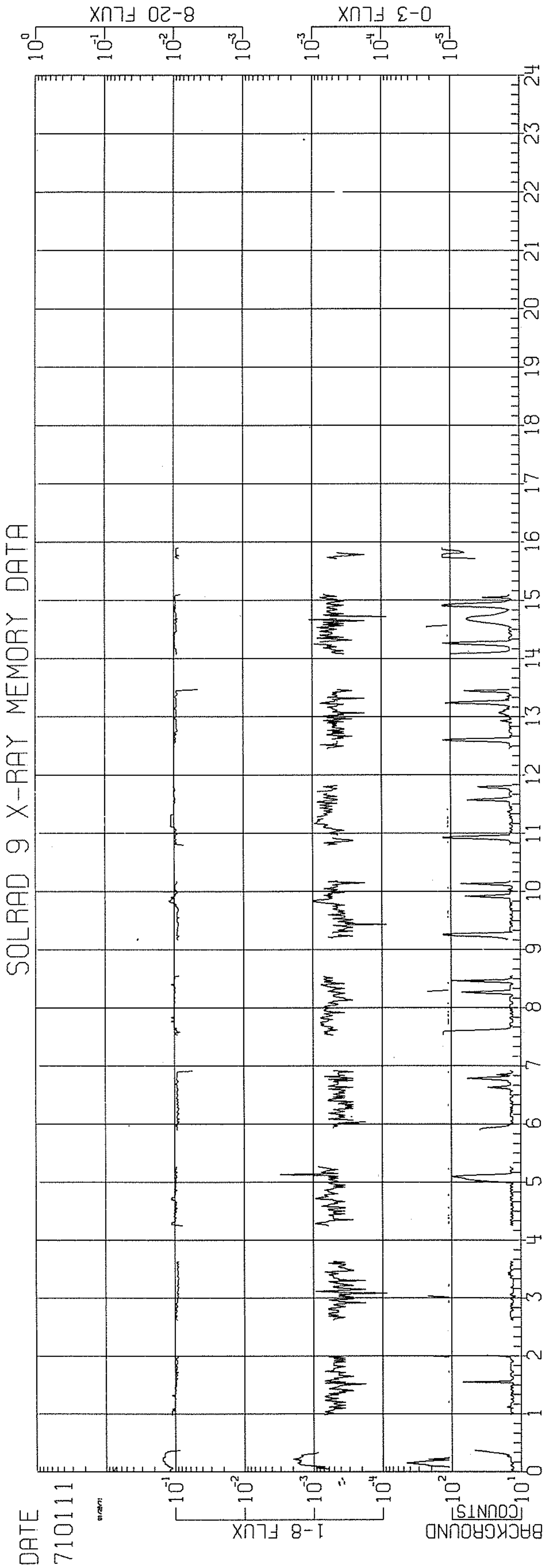
DATE
710110
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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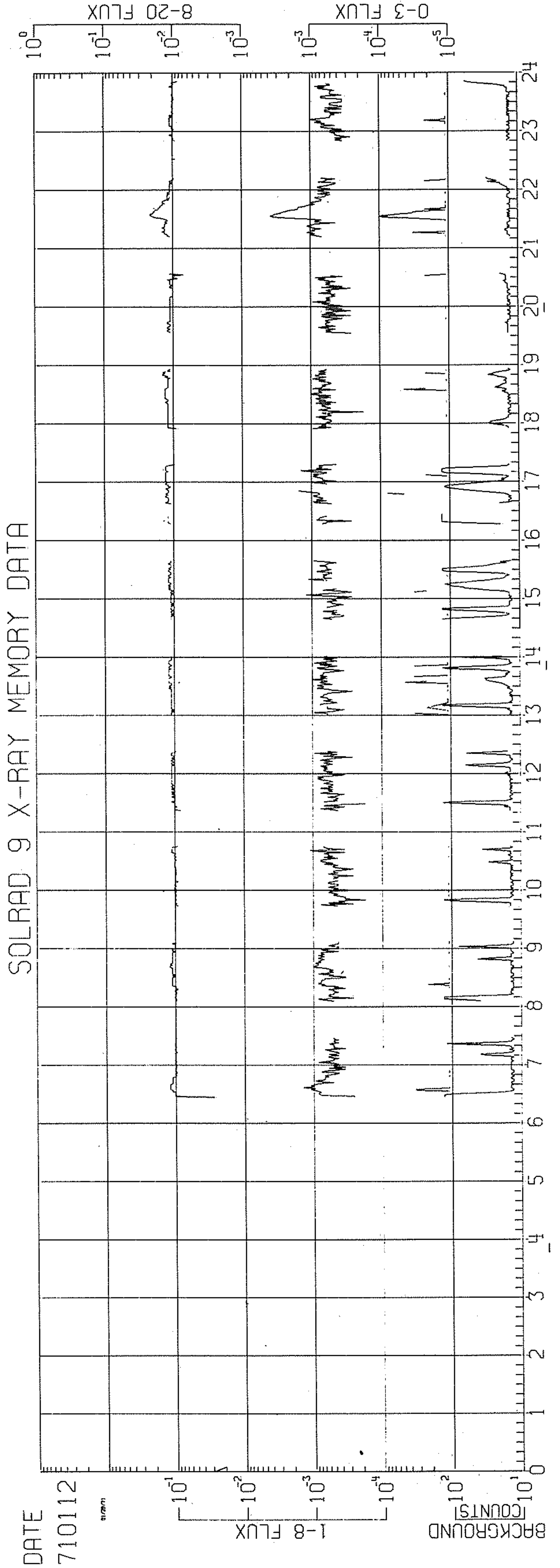
DATE
710111
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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DATE
710112
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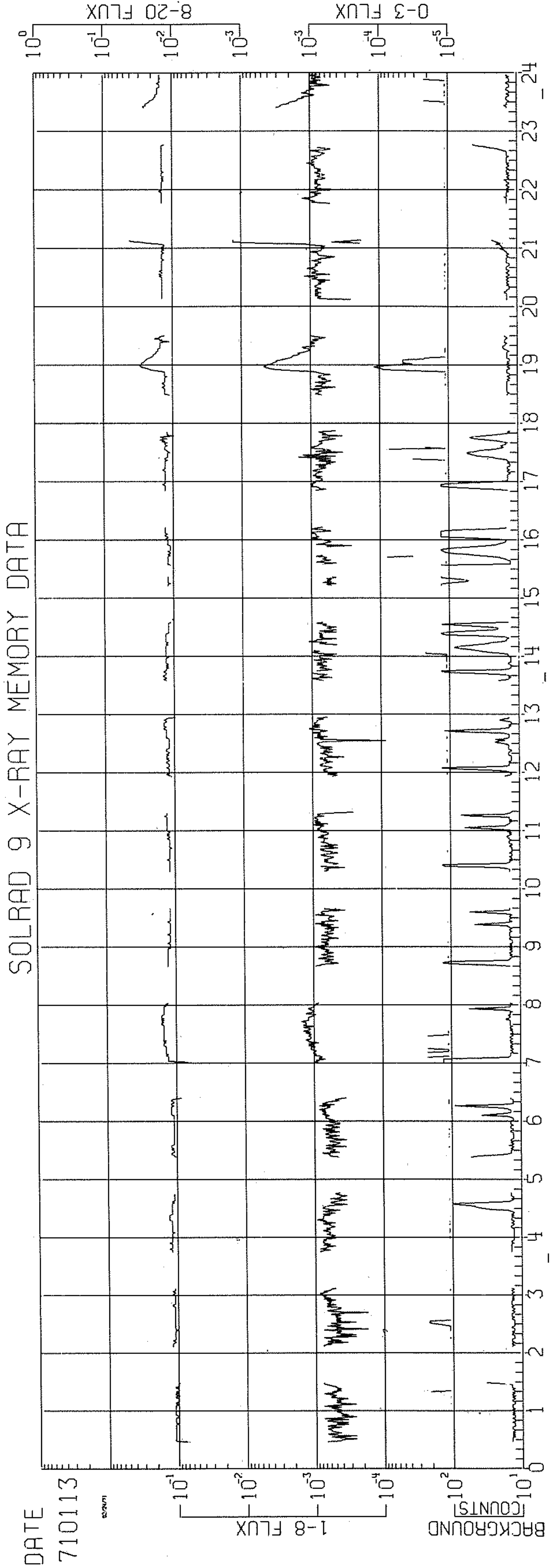
1-8 FLUX
BACKGROUND
(COUNTS)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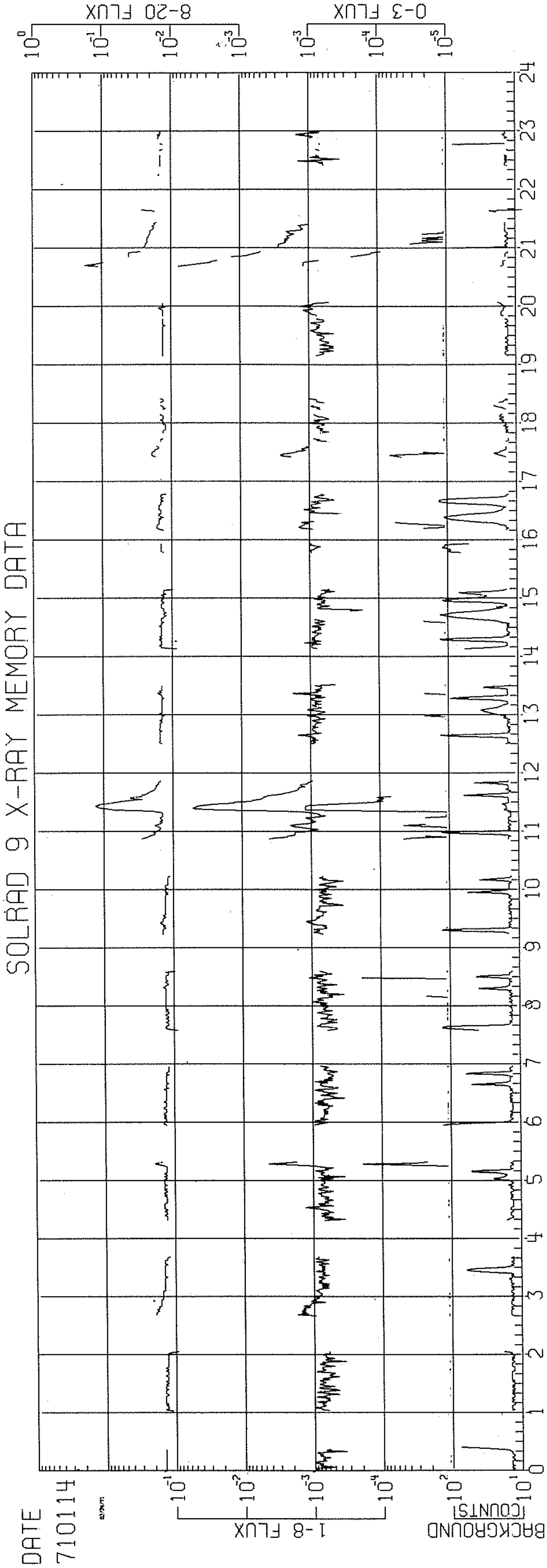
DATE
710113
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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DATE
710114
8-20 FLUX
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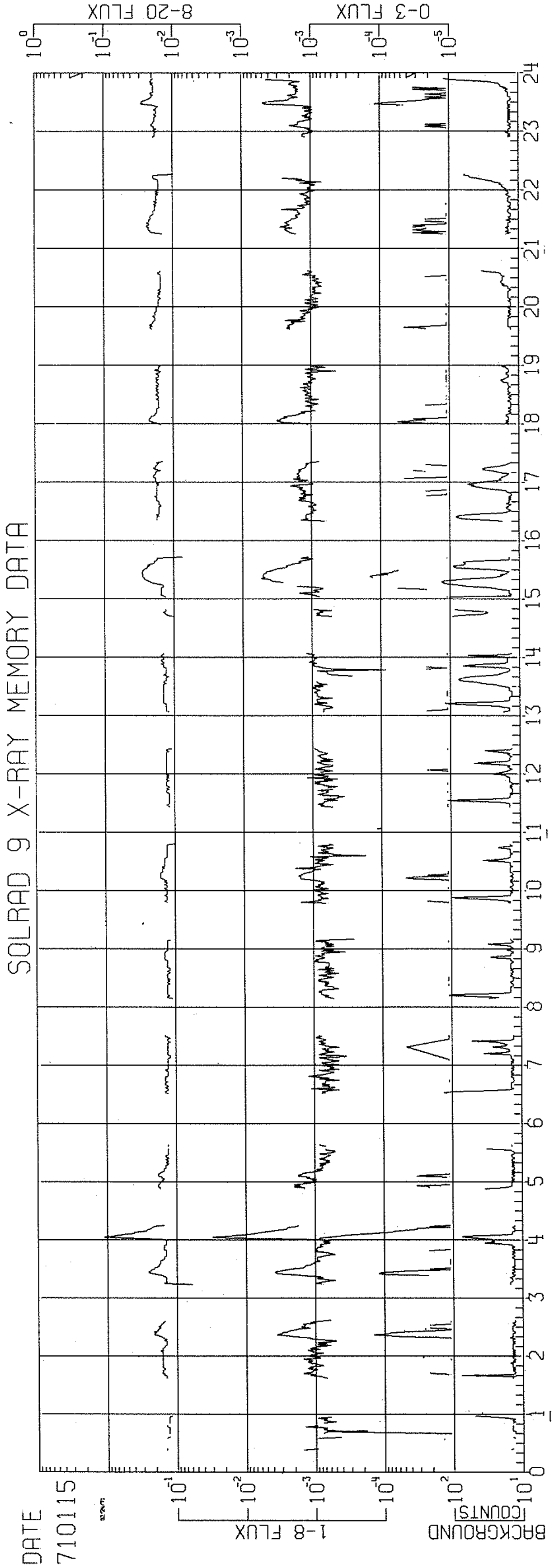
1-8 FLUX
BACKGROUND
(COUNTS)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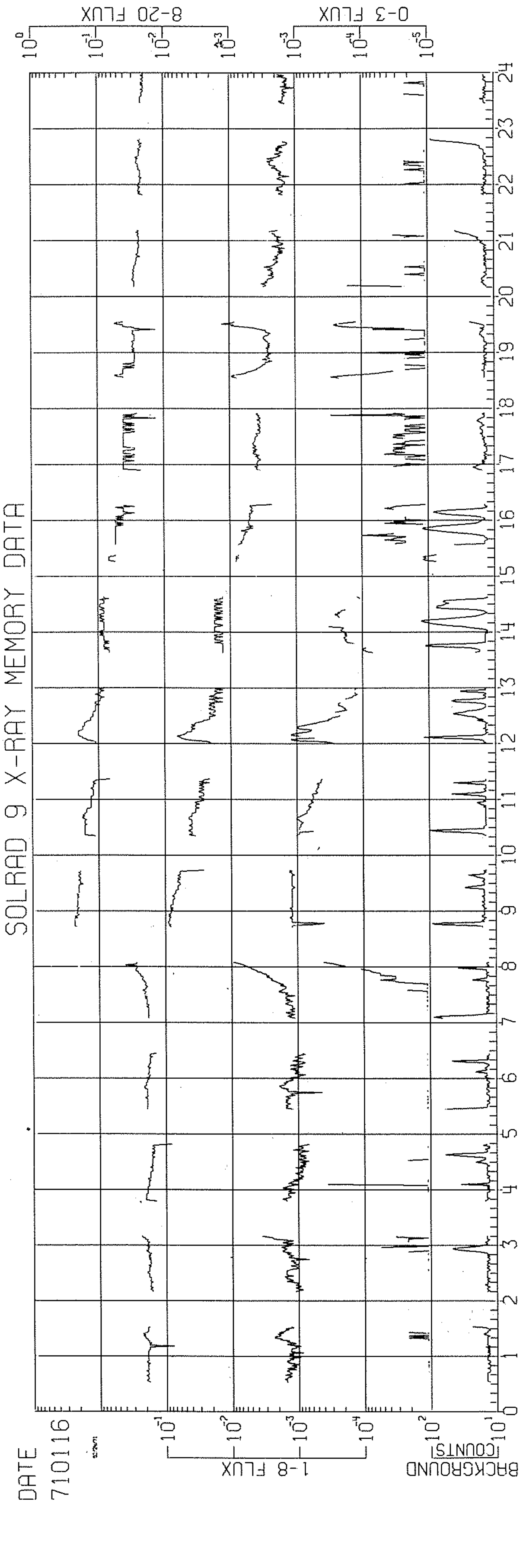
710115
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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DATE
710116
8-20 FLUX
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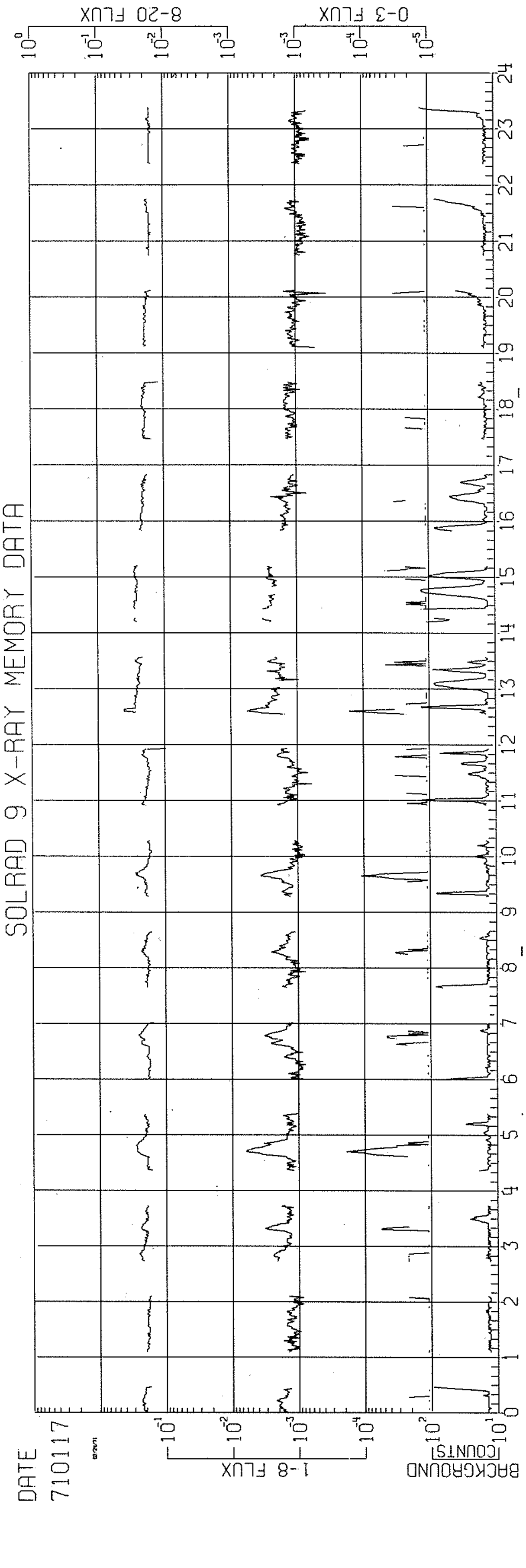
1-8 FLUX
BACKGROUND
COUNTS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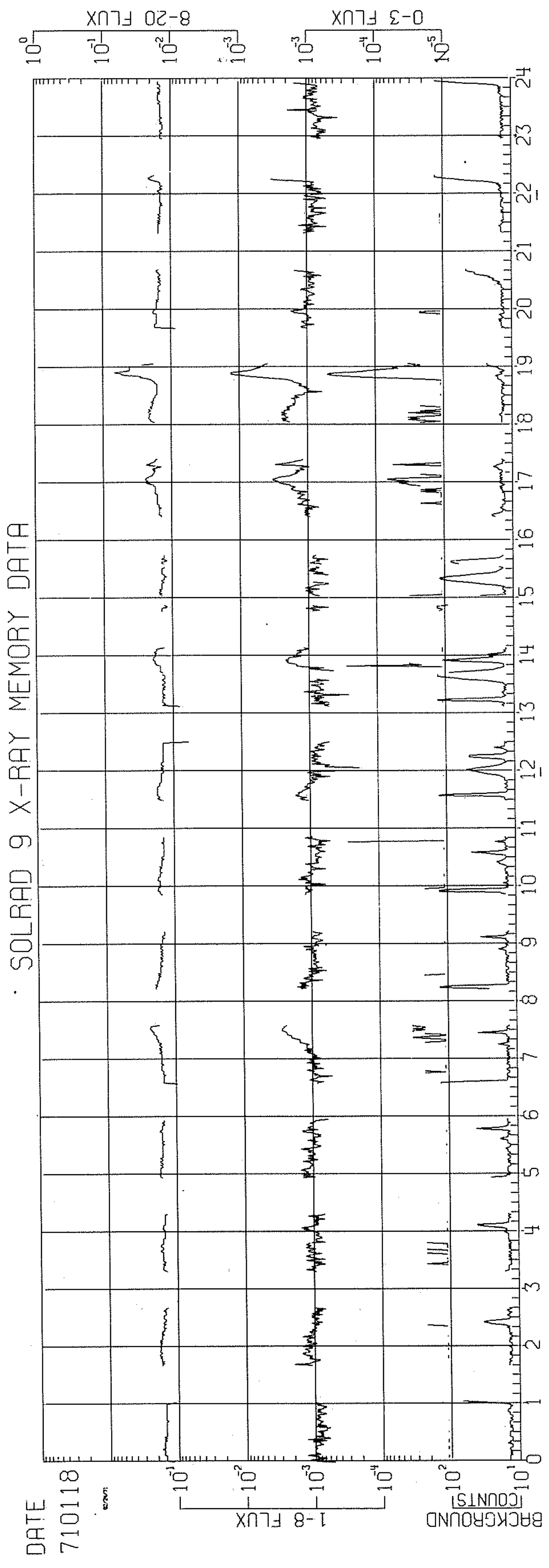
DATE
710117
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
COUNTS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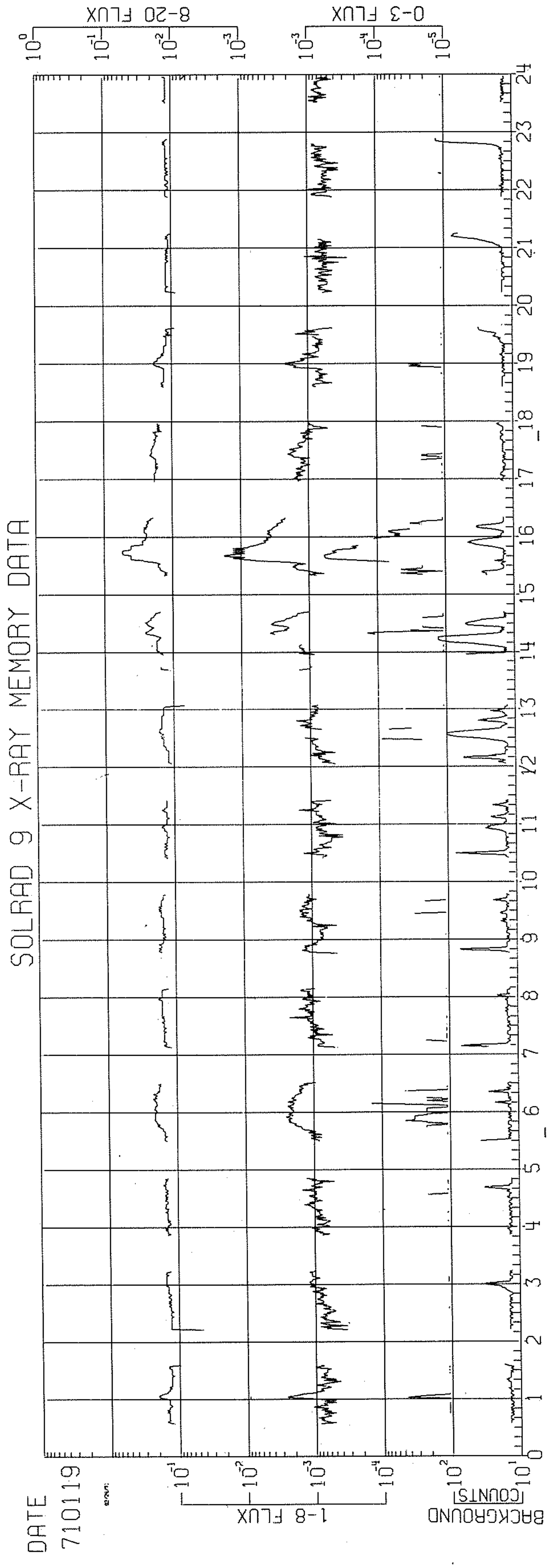
DATE 710118
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND (COUNTS)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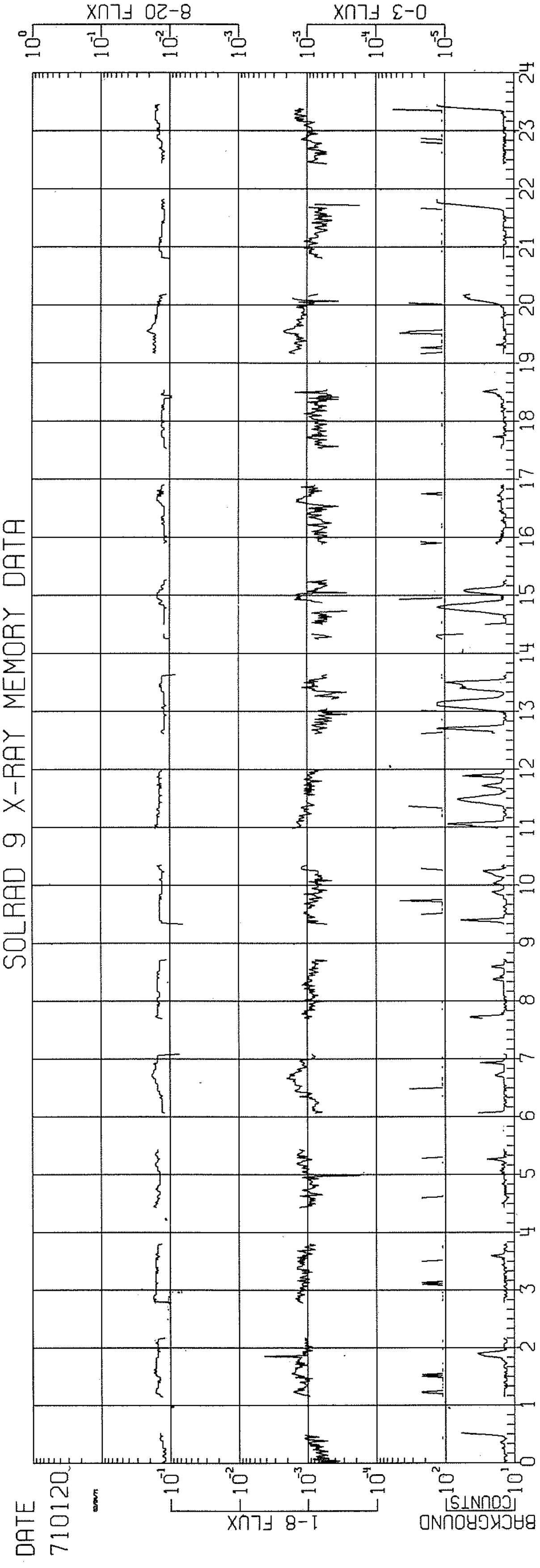
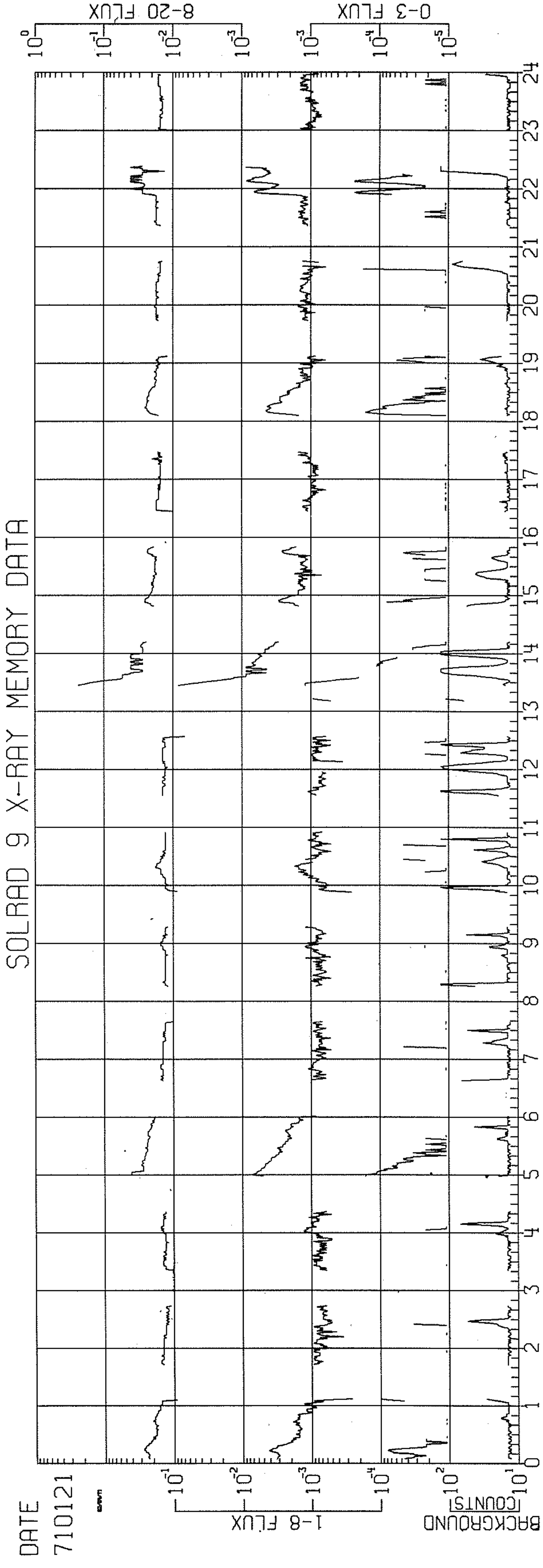
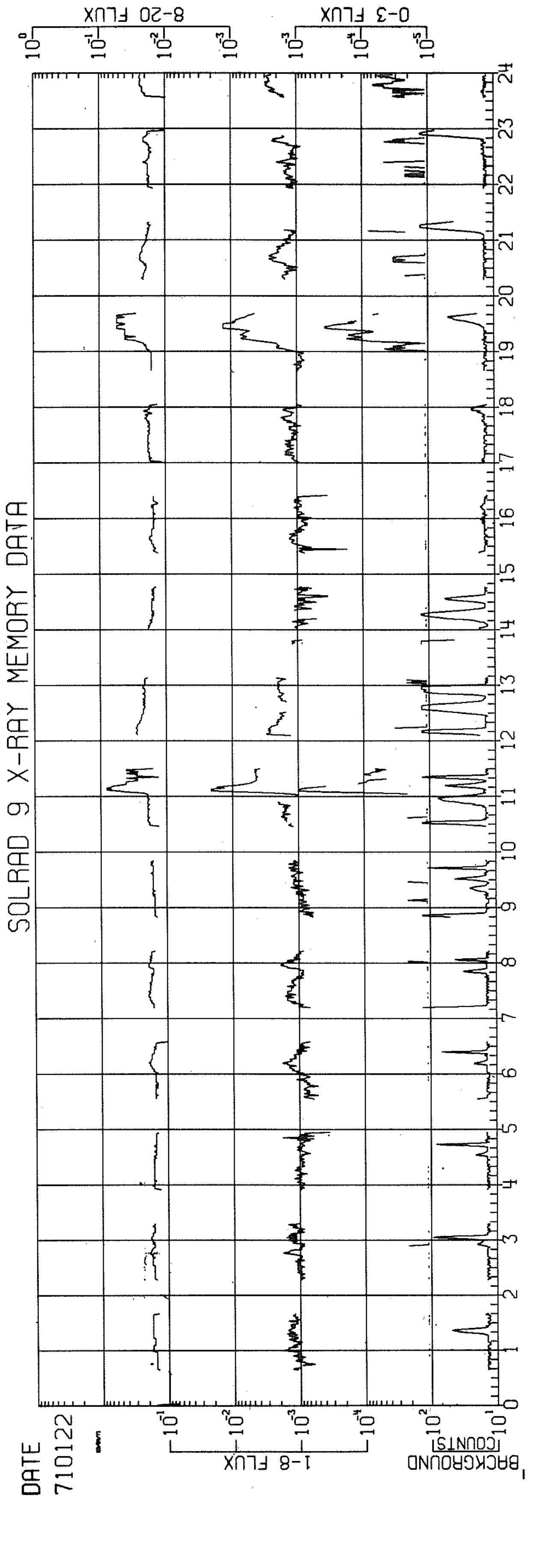
DATE 710119
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND (COUNTS)


SOLRAD 9 X-RAY MEMORY DATA
DATE
710120
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)


SOLRAD 9 X-RAY MEMORY DATA
DATE
710121
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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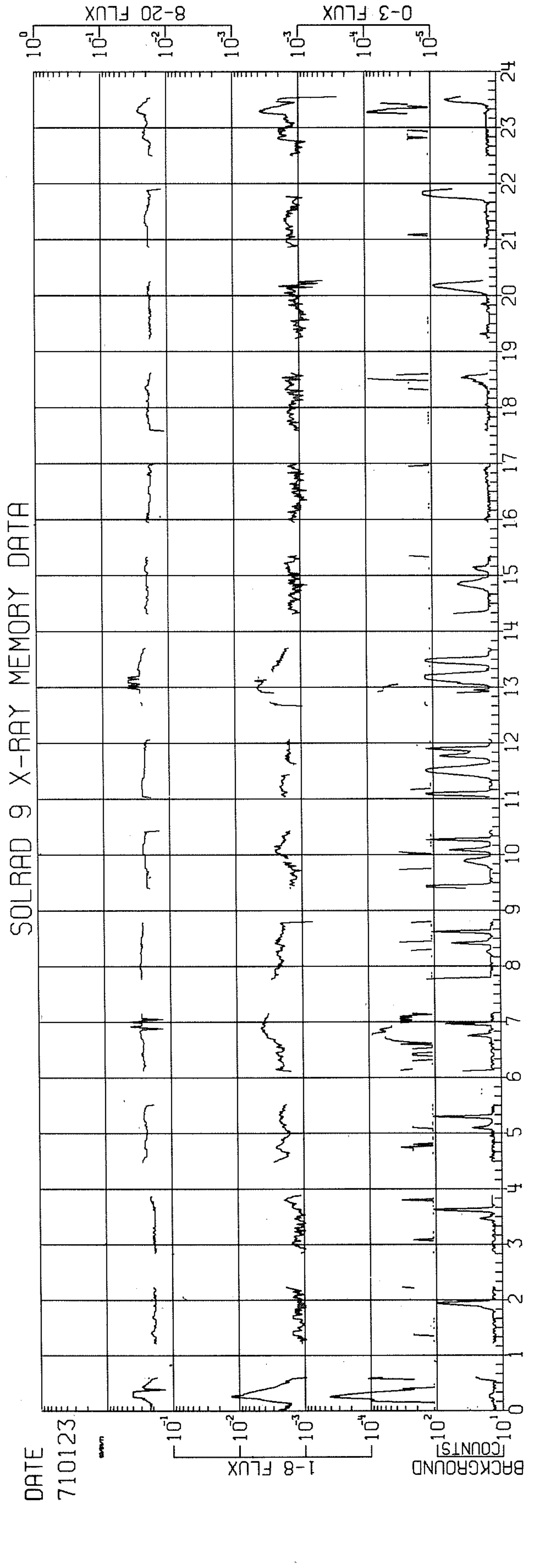
DATE
710122
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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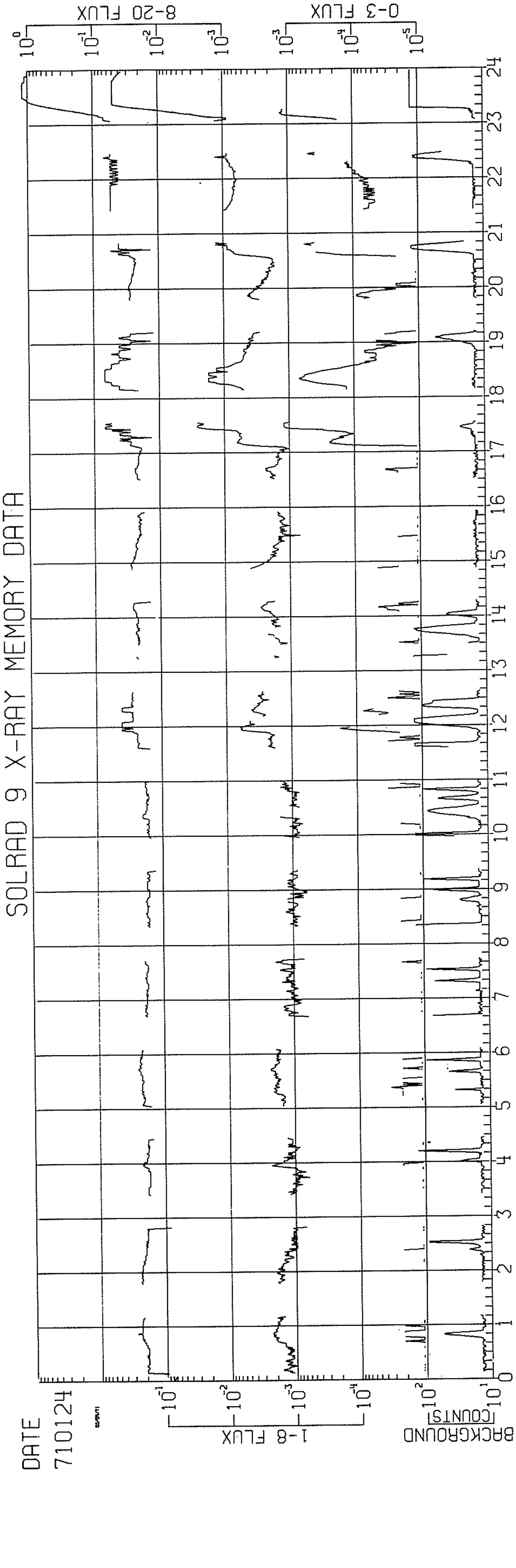
DATE
710123
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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DATE
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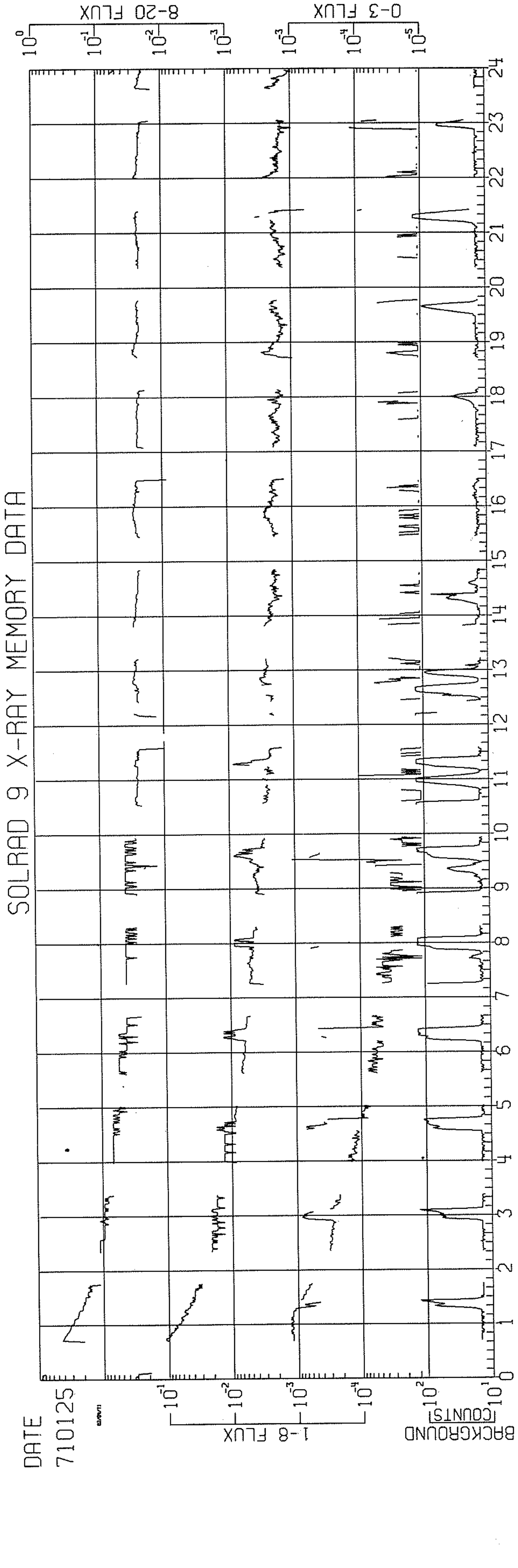
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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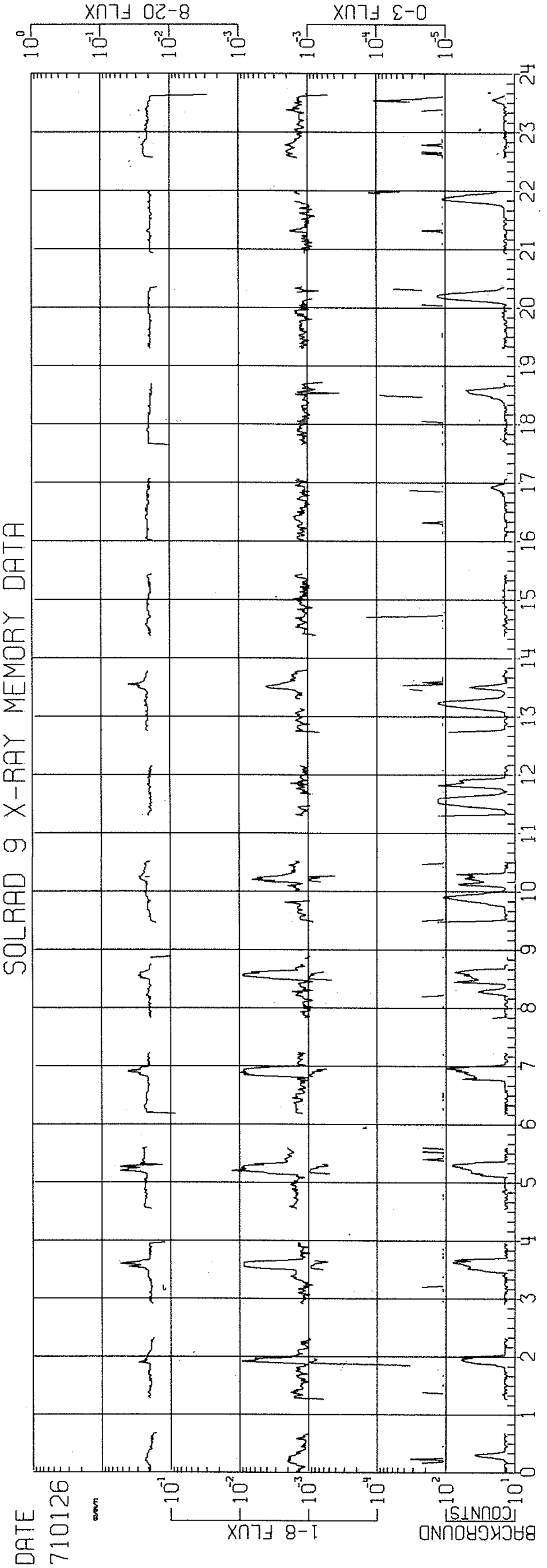
DATE
710125
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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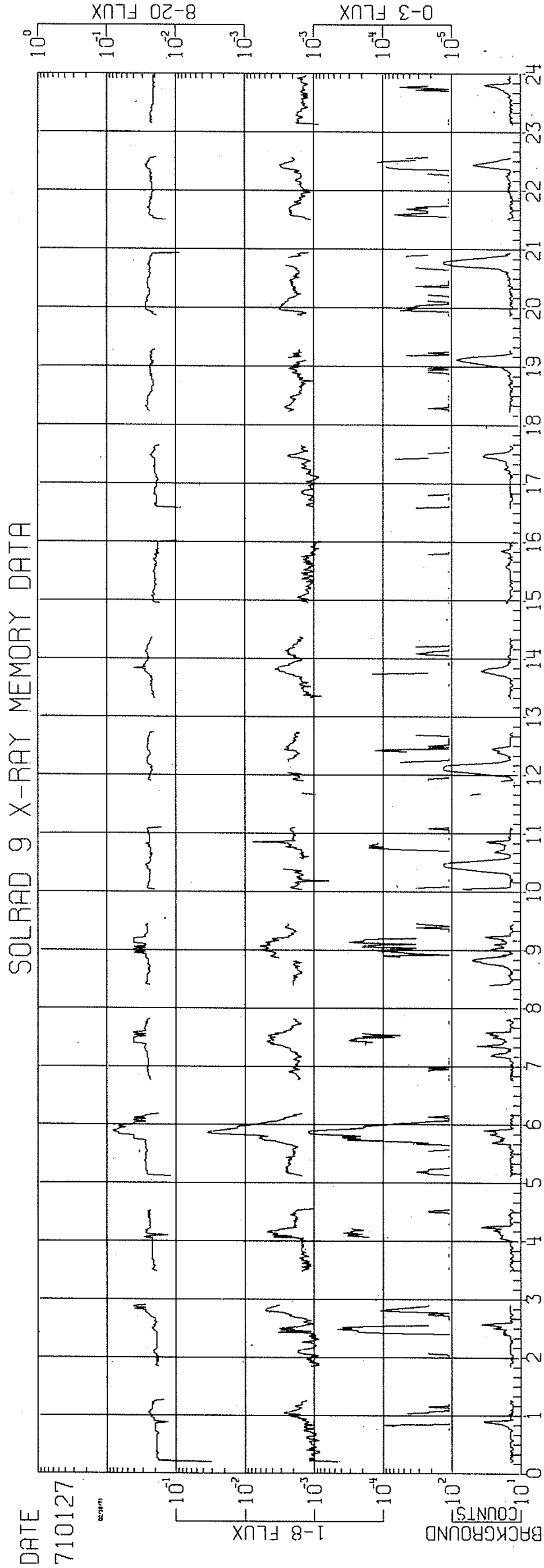
DATE
710126
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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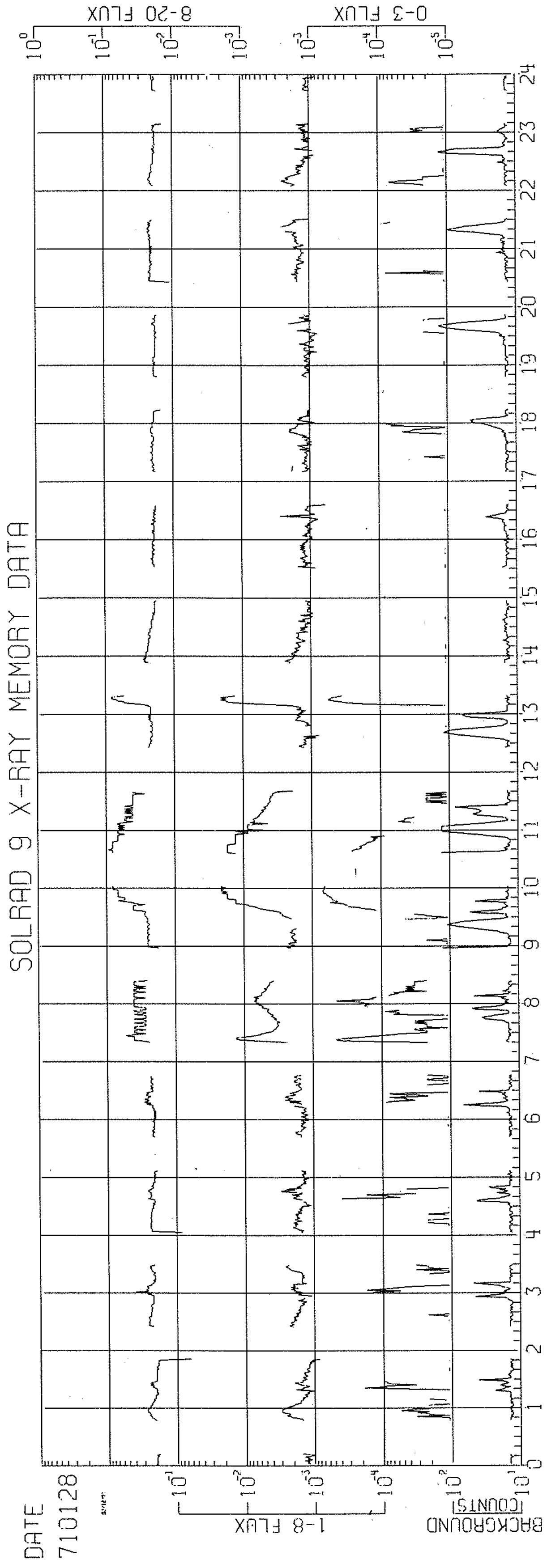
710127
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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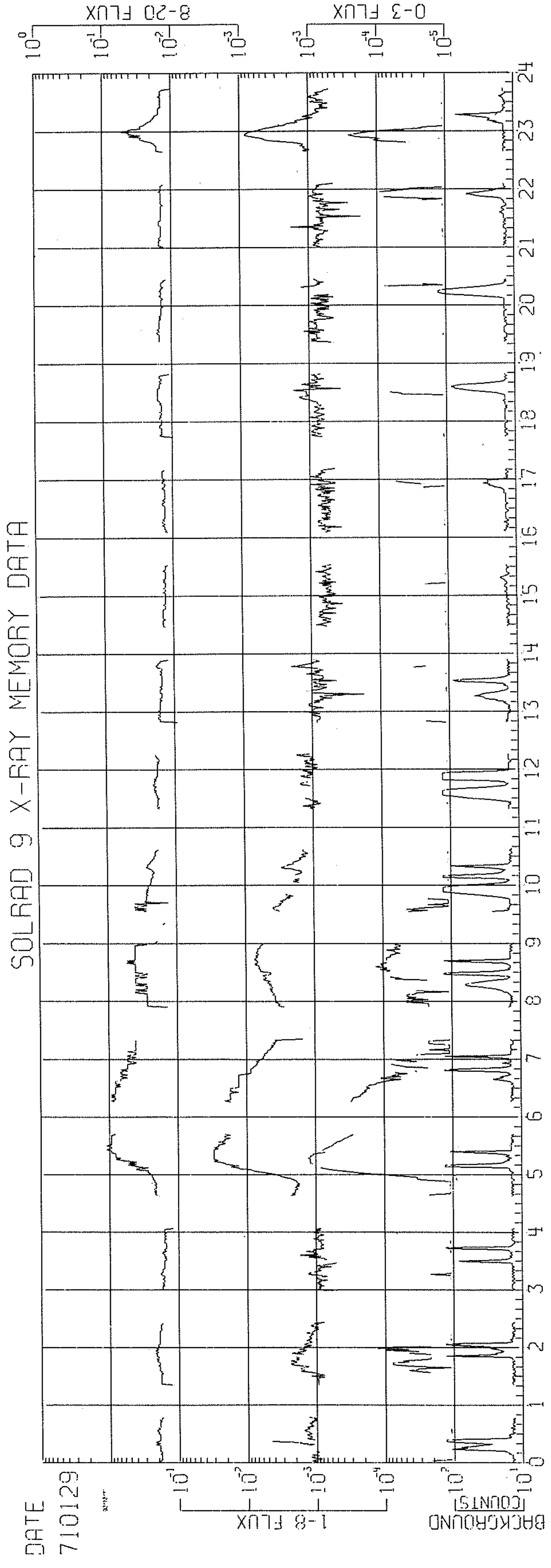
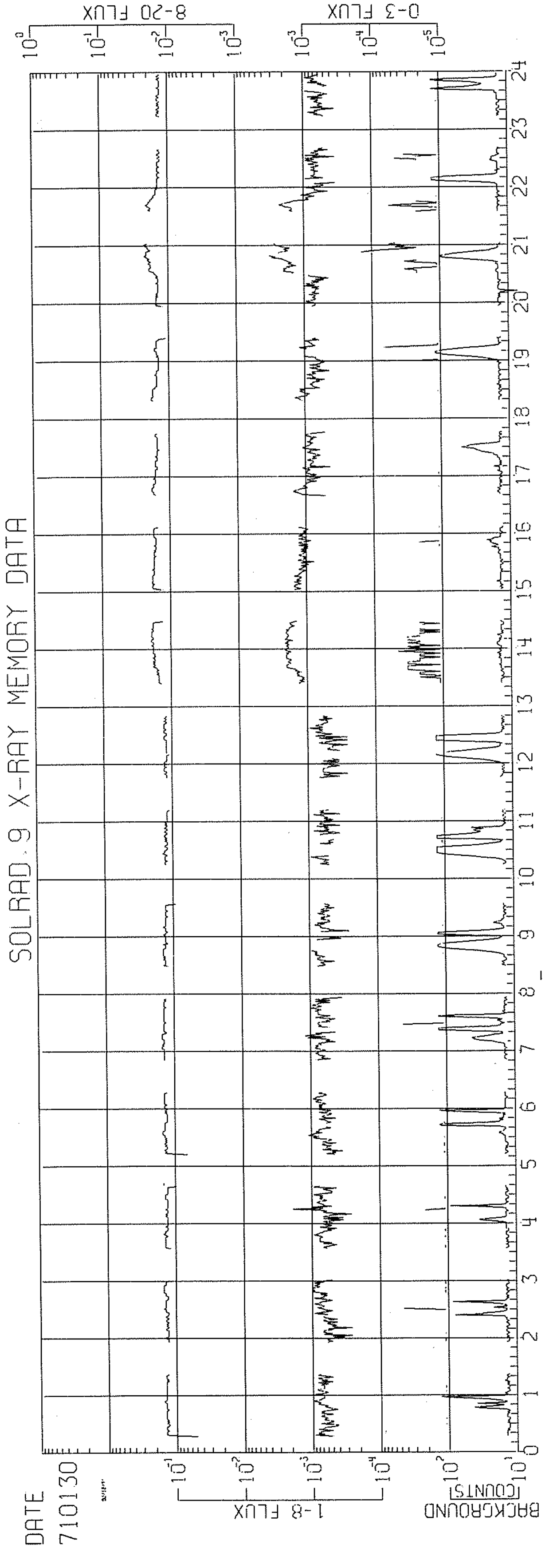
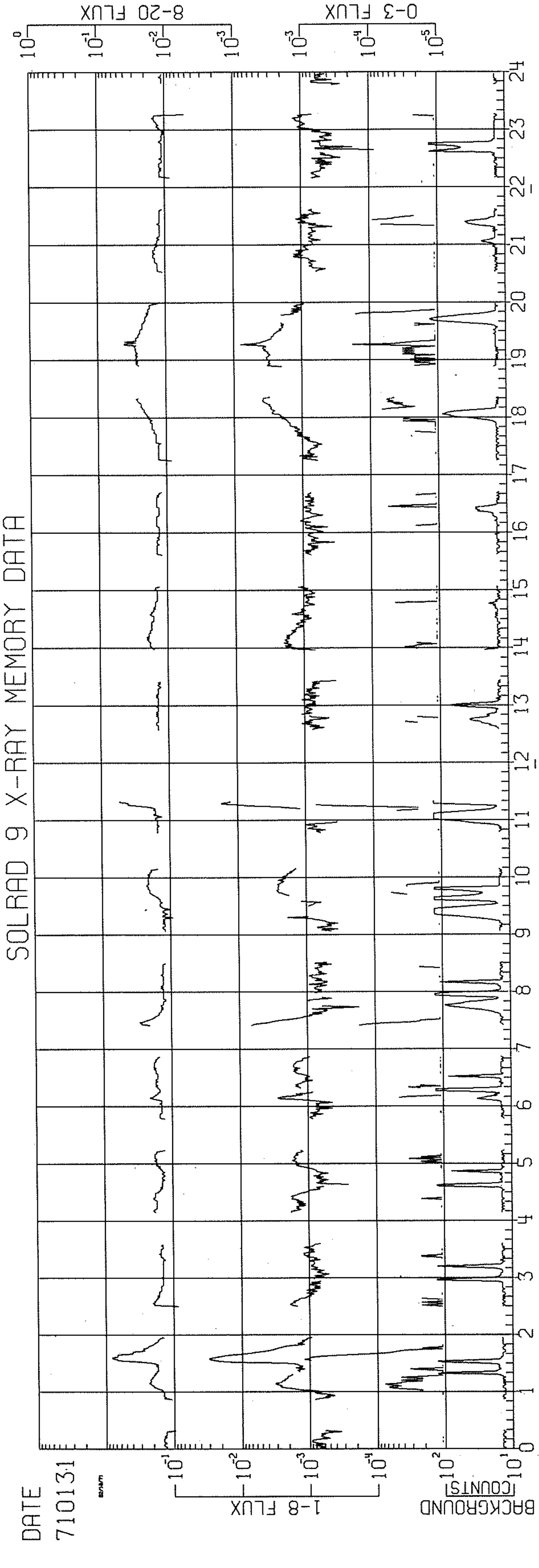
DATE
710128
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)


SOLRAD 9 X-RAY MEMORY DATA
DATE
710129
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)


SOLRAD 9 X-RAY MEMORY DATA
DATE
710130
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)


SOLRAD 9 X-RAY MEMORY DATA
DATE
710131
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)

MAGNETOGRAMS OF GEOMAGNETIC STORMS

27-28 JANUARY 1971

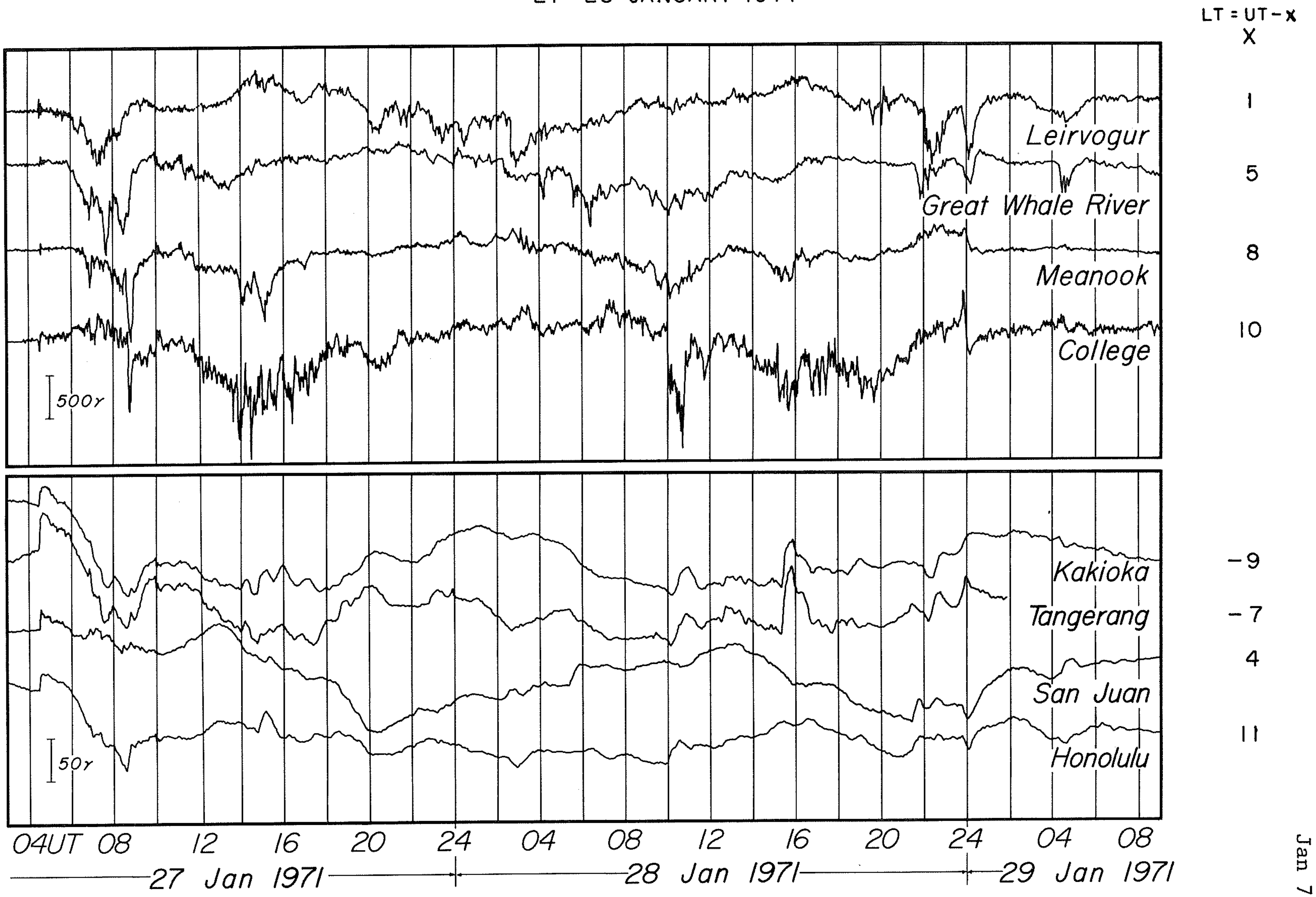


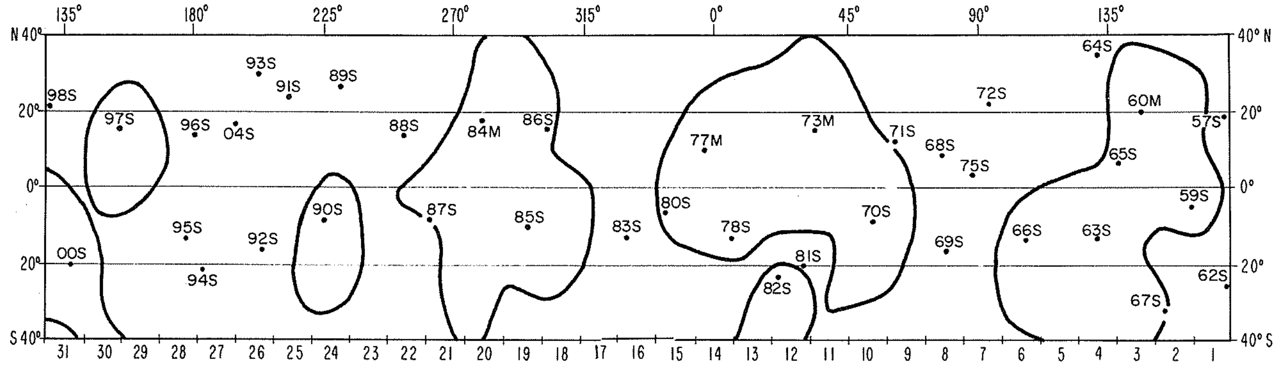
Table of Contents
for December 1970 Data

Errata: See page 78.

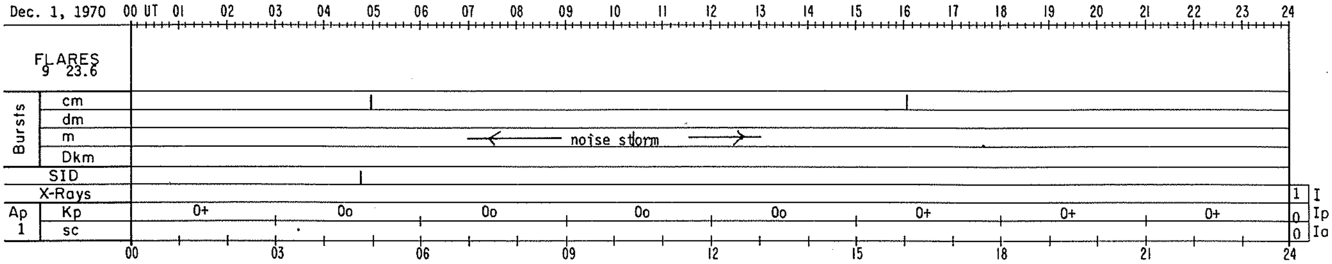
For explanations of the data contained herein see "Descriptive Text" published in February 1971.

ABBREVIATED CALENDAR RECORD

DECEMBER 1970

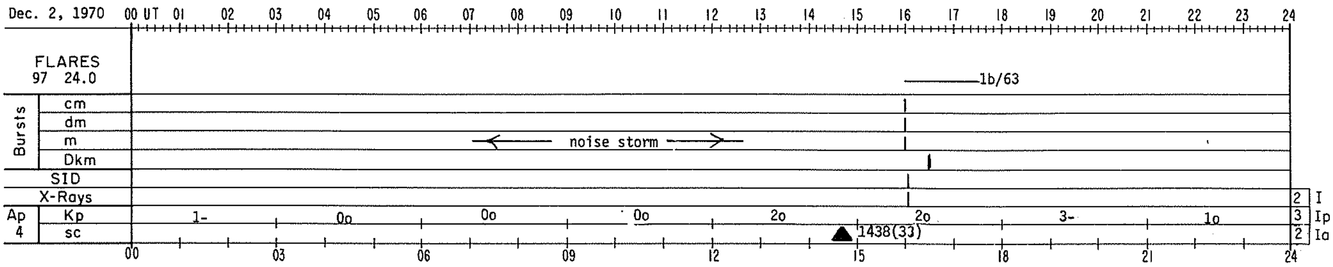


Day of Central Meridian Passage



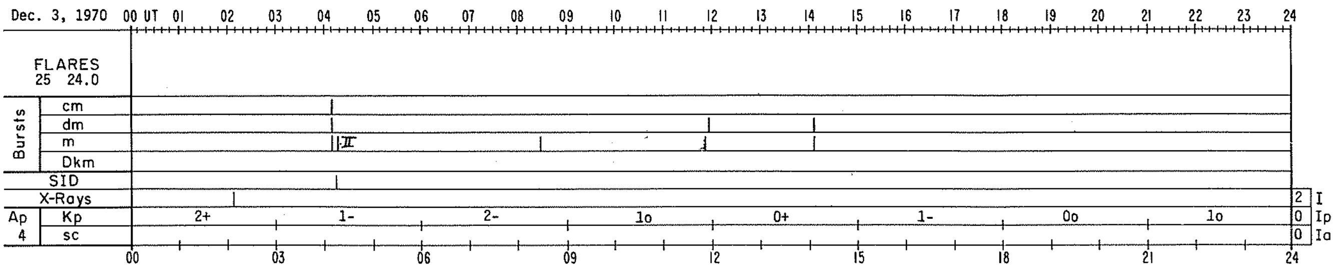
151 10 cm flux
91 Rz (Final)
CMP 11062 S26 (2)
11057 N19 (2)

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



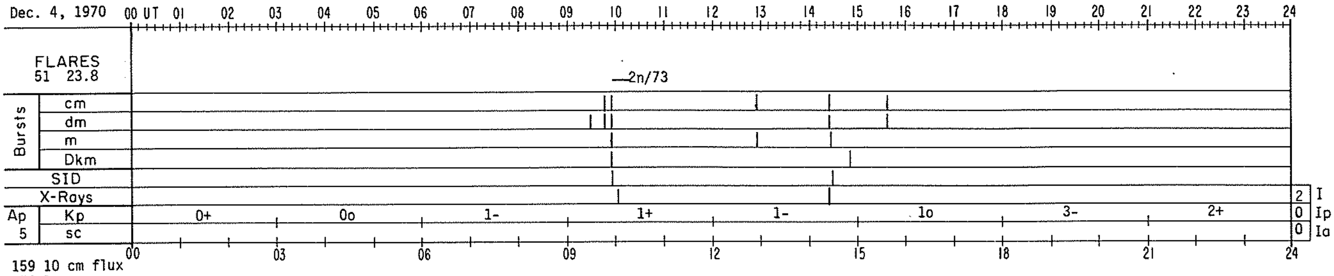
153 10 cm flux
78 Rz
CMP 11059 S05 (2)
11067 S32

Very br. green corona 7 days earlier on NE and SE limb.



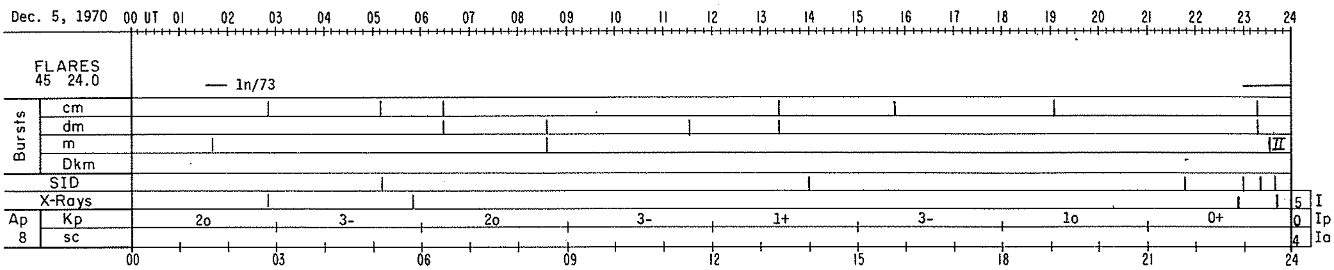
152 10 cm flux
78 Rz
CMP 11060 N20 (2&1)
18225 N15 (βp)6 CMP Dec. 2
18226 N21 (βp)5

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



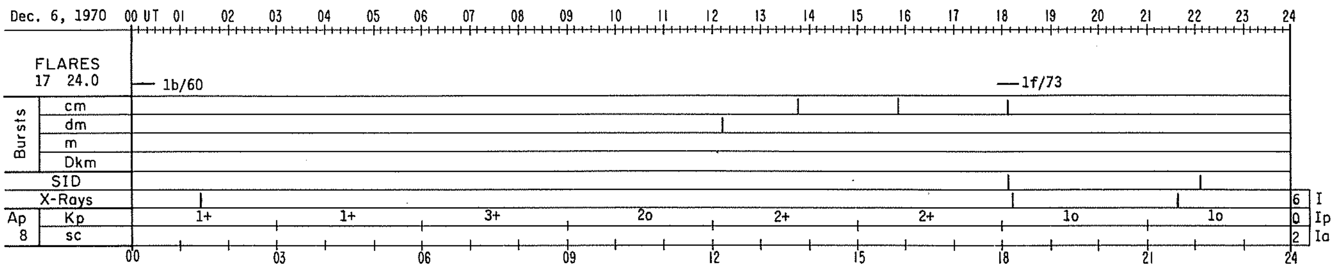
159 10 cm flux
76 Rz
CMP 11065 N07 18227 N06 (βp)2
11063 S13 (3) (18228) S08 αp
18229 S18 (βp)3
(18233) S08 (α)2
(11064) N35

Very br. green corona 7 days later on NW and SW limb, br. green corona 7 days earlier on NE limb, moderately br. green corona 7 days earlier on SE limb.



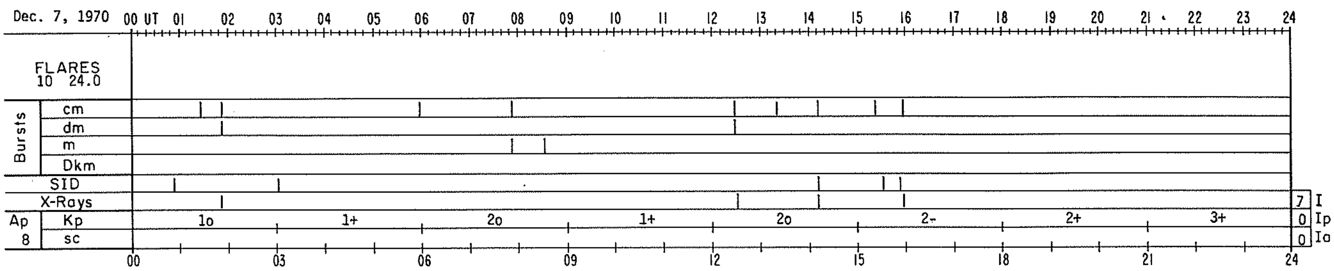
167 10 cm flux
88 Rz

Very br. green corona 7 days later on SW limb, moderately br. green corona 7 days earlier on SE limb.



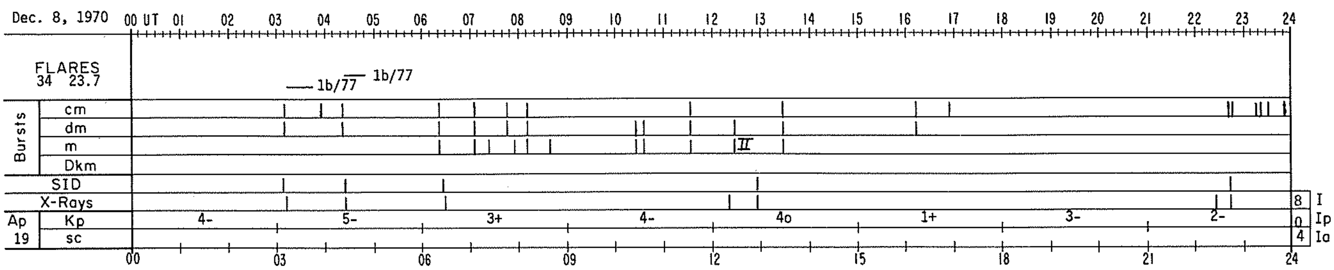
172 10 cm flux
90 Rz
CMP 11066 S14 18230 S11 (βp)5

Aurora overhead over USSR at ϕ = 59° 2200-2300, ϕ = 58° 2400; br. green corona 7 days later on SW limb, moderately br. green corona 7 days earlier on SE limb.



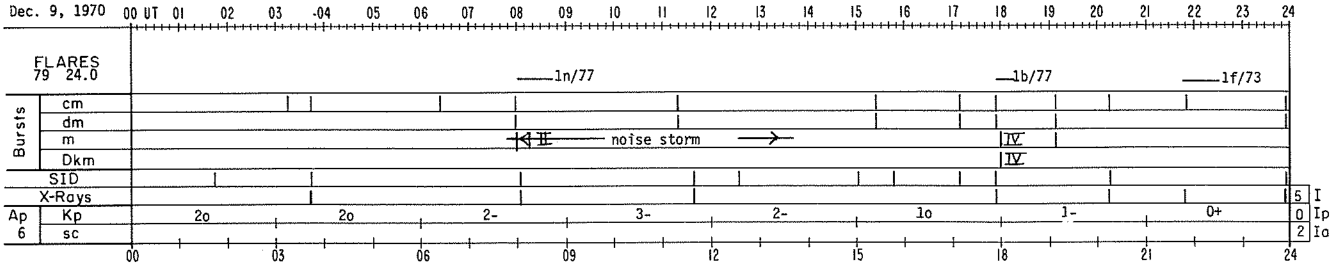
172 10 cm flux
91 Rz
CMP 11072 N22
11075 N03

Aurora overhead over USSR at ϕ = 59° 0100-0400, auroral veil seen over W. Europe to ϕ = 58° 2300-0200; very br. green corona 7 days earlier on SE limb and 7 days later on NW and SW limb, moderately br. green corona 7 days earlier on NE limb.



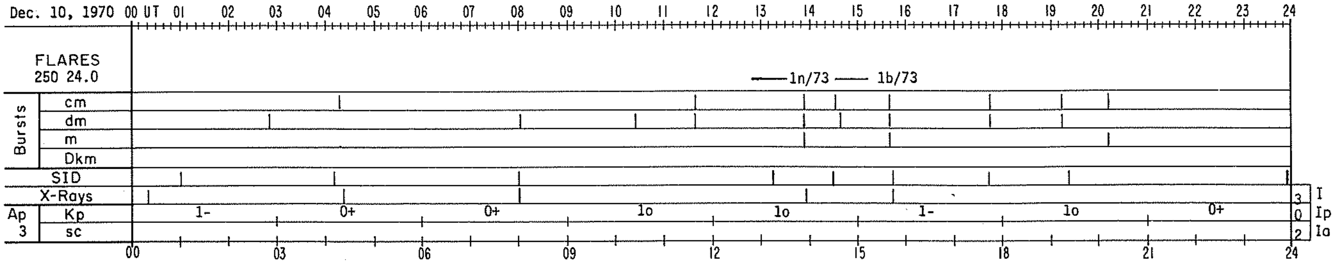
172 10 cm flux
100 Rz
CMP 11069 S16 (4) 18237 S18 (β)1
11068 N08 (4) (18231) N03 (αp)2

One of five most magnetically disturbed days with moderate activity until 1500; aurora overhead over USSR at ϕ = 49° 0500, auroral veil seen over W. Europe to ϕ = 58° 0000-0200; no coronal data 7 days earlier on E. limb.



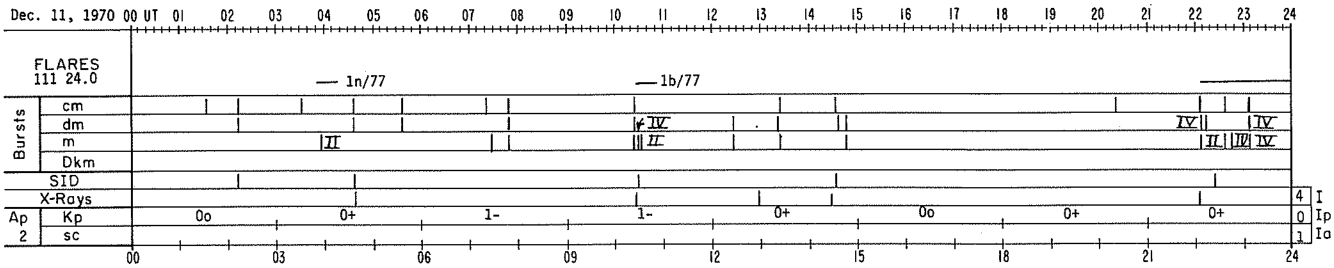
177 10 cm flux
96 Rz
CMP 11071 N12

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



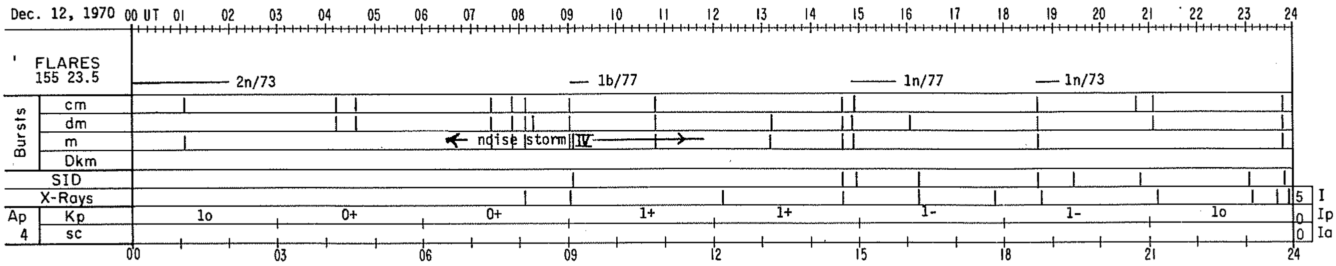
176 10 cm flux
110 Rz
CMP 11070 S09 (2&3) 18232 S09 (βf)2
18234 S10 (βp)2
18241 S04 (βp)2

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



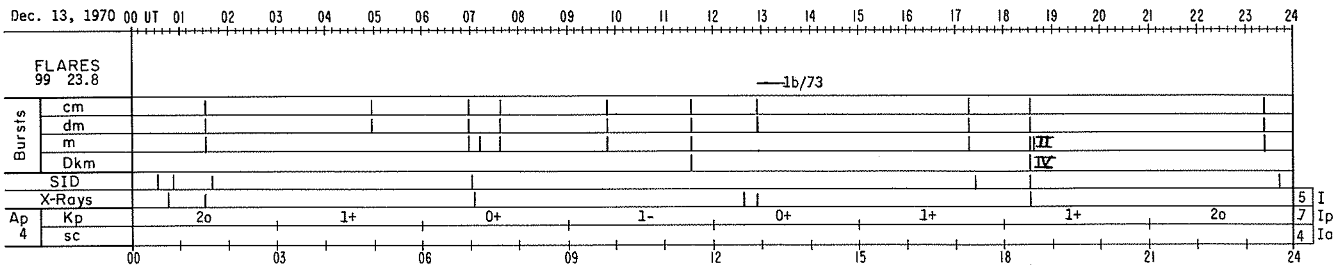
178 10 cm flux
120 Rz
CMP 11073 N15 (2) 18235 N14 (δ)5

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



184 10 cm flux
110 Rz
CMP (11081) S20 (18248) S19 (βf)1
(11082) S23

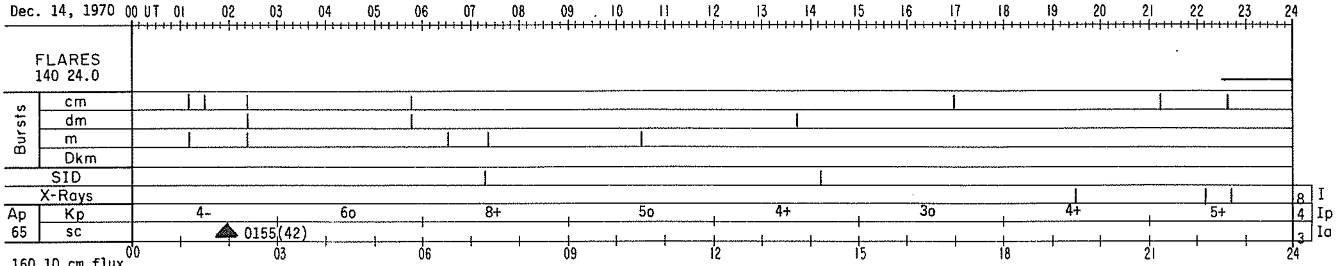
One of ten most magnetically quiet days; no coronal data 7 days earlier on E. limb, br. green corona 7 days later on NW limb.



170 10 cm flux
90 Rz

Moderately br. green corona 7 days earlier on NE limb.

Dec. 14, 1970

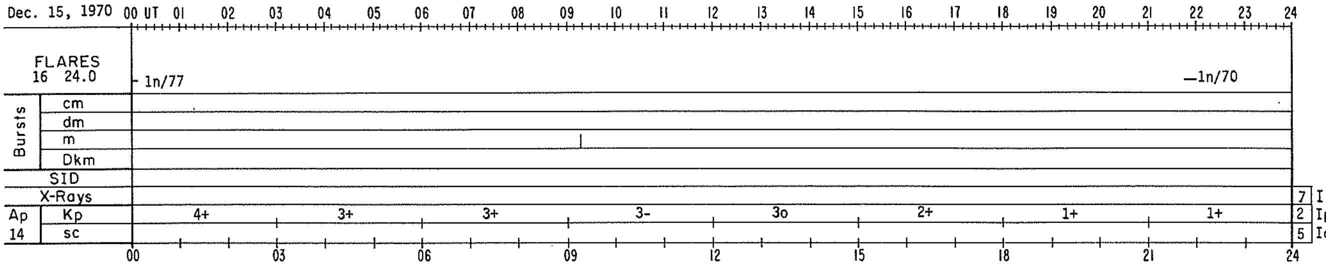


160 10 cm flux
85 Rz
CMP 11078 S13 (2)
11077 N10 (2&3)

18238 N16 (αp)4 CMP Dec. 13
18239 N12 ($\beta\gamma$)3
18240 N04 (β)1
(18242) N08 αp
18243 N02 (βp)1 CMP Dec. 15
18245 N06 (αp)1 CMP Dec. 15

One of five most magnetically disturbed days with severe storm after the sc at 0155 until 0900 and moderate activity thru remainder of day; aurora overhead over USSR at ϕ = 60° 1300-1900, auroral veil and bright bands seen over W. Europe to ϕ = 56° 2255-2315; cosmic ray decrease of about 5% begins about 0200, reaches a maximum at about 2000 and returns to normal on Dec. 16; very br. green corona 7 days earlier on NE limb and 7 days later on NW limb, br. green corona 7 days later on SW limb, moderately br. green corona 7 days earlier on SE limb.

Dec. 15, 1970

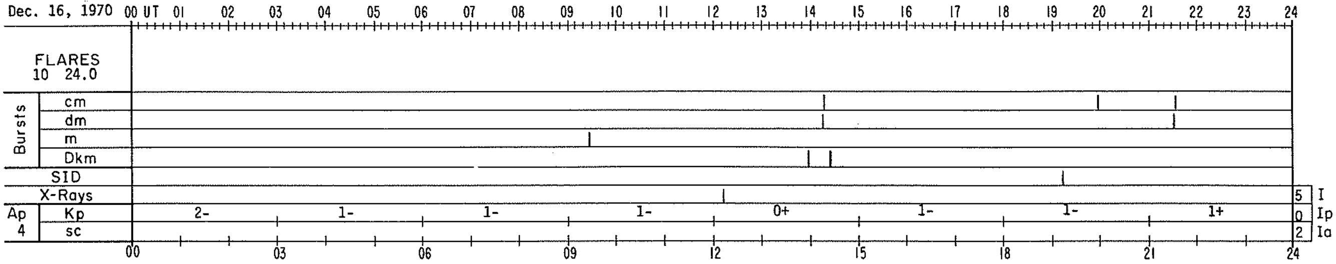


159 10 cm flux
84 Rz
CMP 11080 S07

(18244) S06 (αp)1
18249 S08 (αp)1
18250 S06 (αp)2

One of five most magnetically disturbed days with slight-to-moderate activity to 1500; aurora overhead over USSR at ϕ = 58° 1300; moderately br. green corona 7 days earlier on NE limb and 7 days later on NW limb.

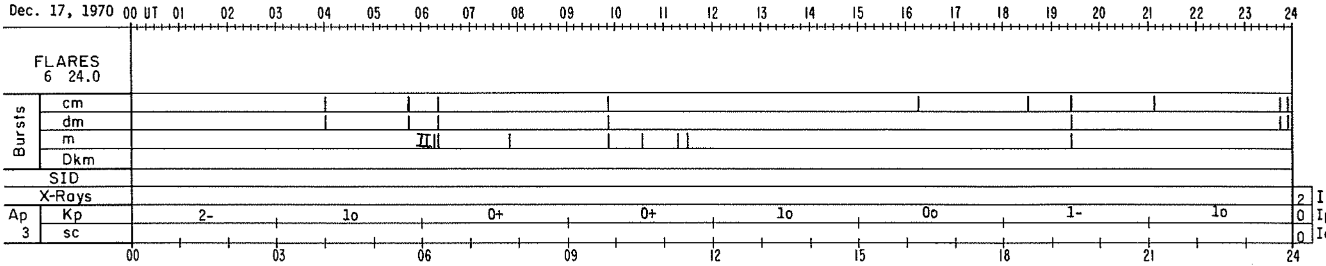
Dec. 16, 1970



152 10 cm flux
68 Rz
CMP (11083) S13

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

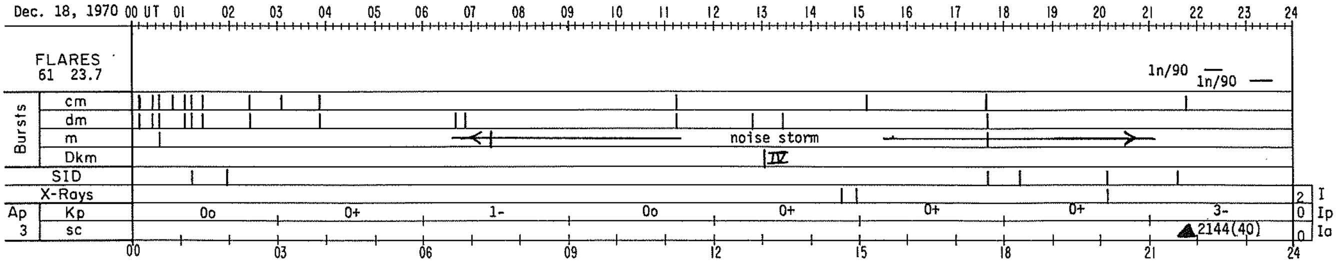
Dec. 17, 1970



152 10 cm flux
63 Rz

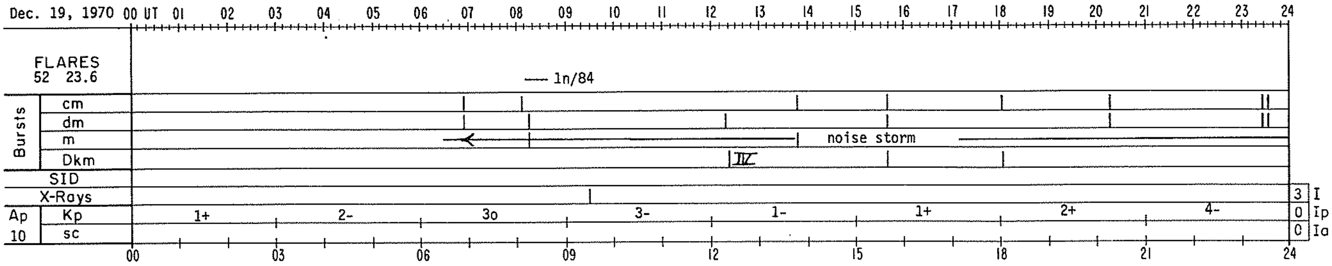
One of five most magnetically quiet days; moderately br. green corona 7 days earlier on NE limb.

Dec. 18, 1970



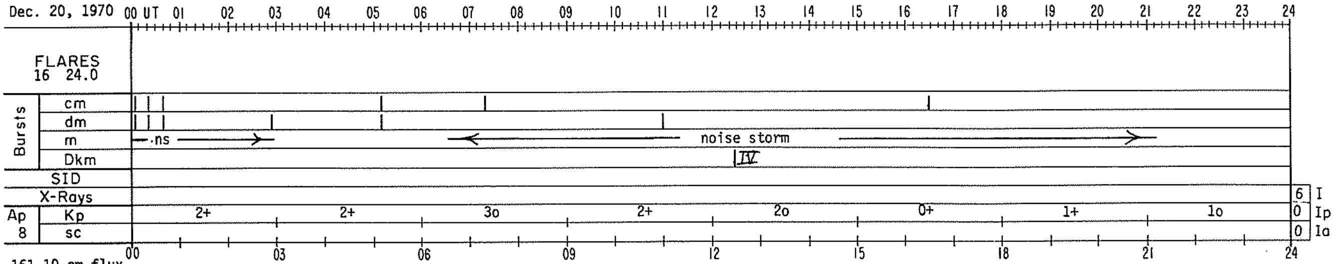
157 10 cm flux
79 Rz
CMP (11086) N15 (4)

One of ten most magnetically quiet days, quiet until sc at 2144 followed by slight activity; very br. green corona 7 days earlier on SE limb and br. green corona 7 days earlier on NE limb.



157 10 cm flux
95 Rz
CMP 11085 S10 (5) 18251 S10 βp

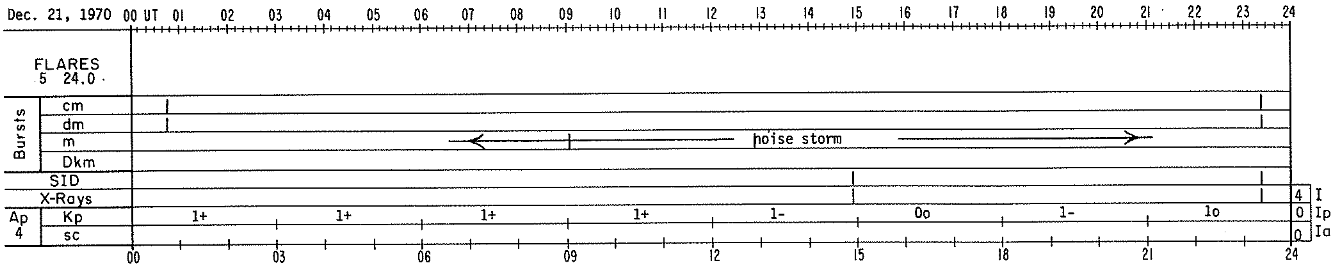
Auroral rays seen over W. Europe to ϕ = 59° 2150-0050; br. green corona 7 days earlier on NE limb and moderately br. green corona 7 days earlier on SE limb.



161 10 cm flux
104 Rz
CMP 11084 N18

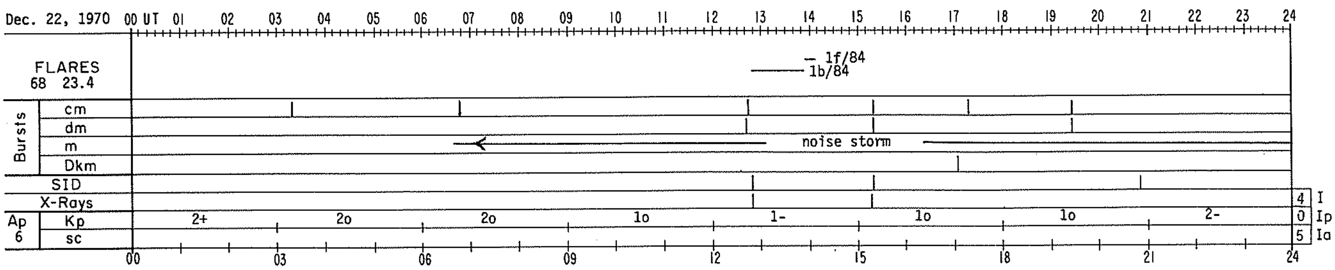
18246 N20 αp CMP Dec. 19
18247 N14 γ
18252 N23 β
(18255) N05 βp
(18256) N08 αp CMP Dec. 21

Auroral rays seen over W. Europe to ϕ = 59° 0000-0050; moderately br. green corona 7 days earlier on SE limb.



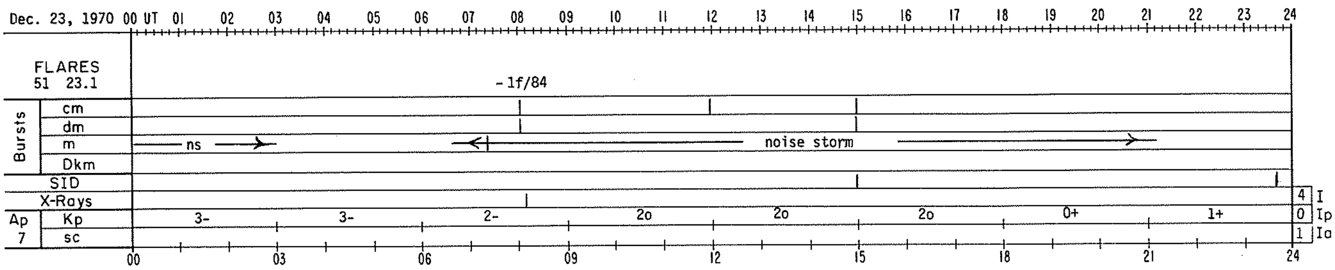
151 10 cm flux
101 Rz
CMP 11087 S08

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



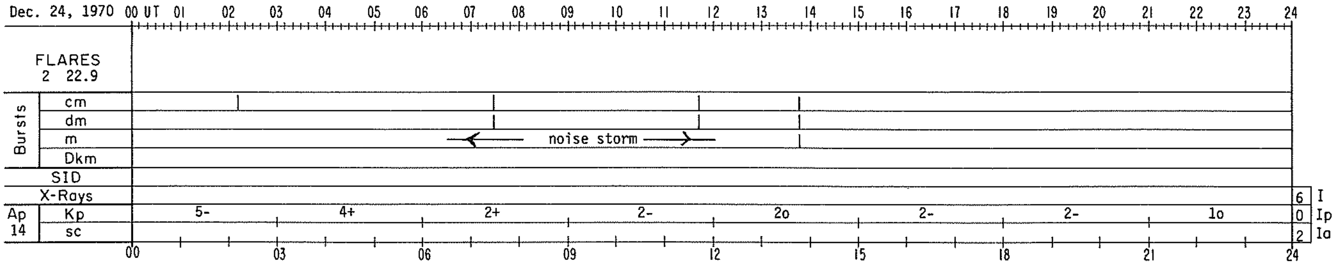
141 10 cm flux
97 Rz
CMP 11088 N13 (2)

Moderately br. green corona 7 days earlier on NE limb.



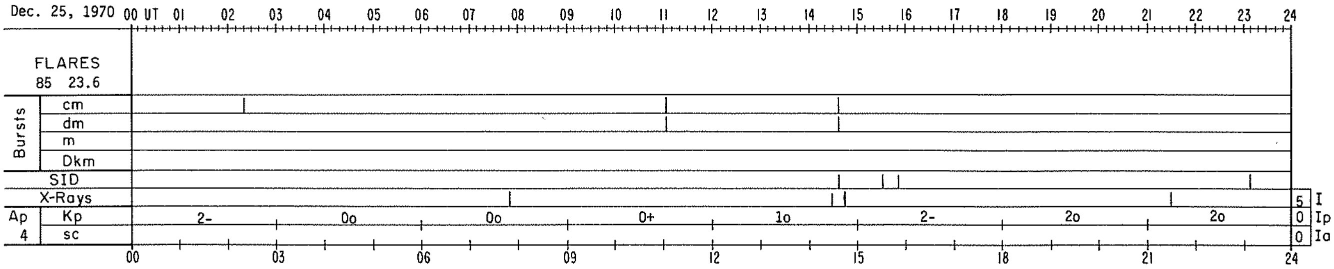
137 10 cm flux
85 Rz

Auroral forms seen over W. Europe through cloud to ϕ = 58° 2350-0600; very br. green corona 7 days earlier on NE limb, moderately br. green corona 7 days later on NW limb.



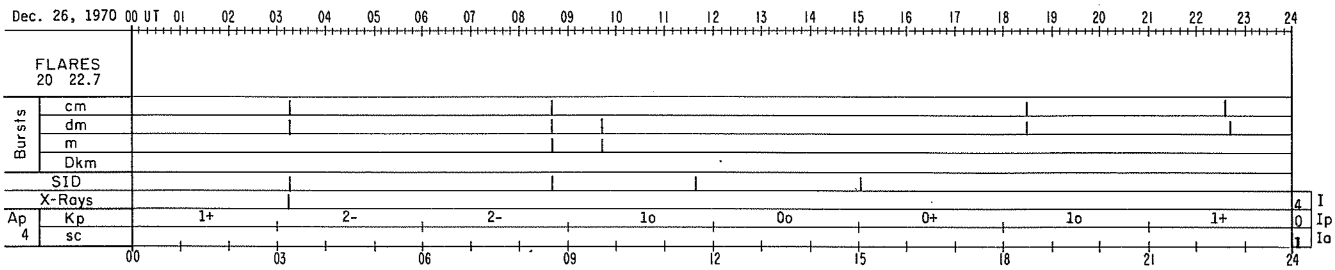
129 10 cm flux
66 Rz
CMP 11089 N26 (18253) N13 αp
11090 S08 18254 S10 β

One of five most magnetically disturbed days with moderate activity 0000-0600 followed by very slight activity; aurora forms seen overhead over W. Europe through cloud to ϕ = 58° 0000-0600; moderately br. green corona 7 days earlier on NE limb, no coronal data 7 days later on W. limb.



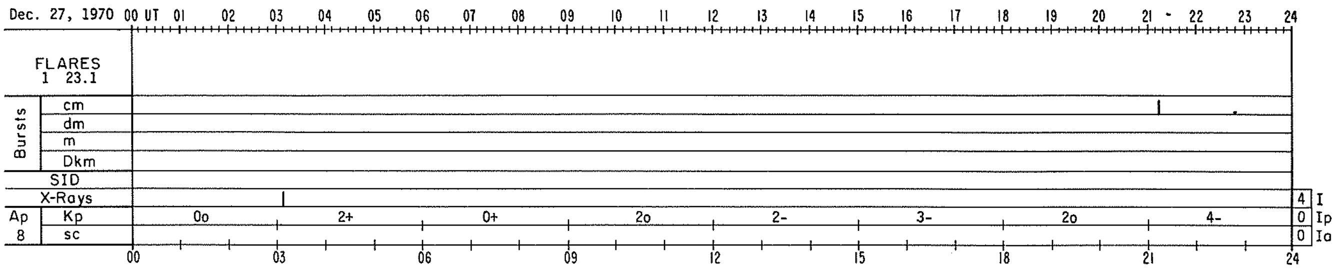
128 10 cm flux
75 Rz
CMP 11091 N23 18257 N15 αp

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



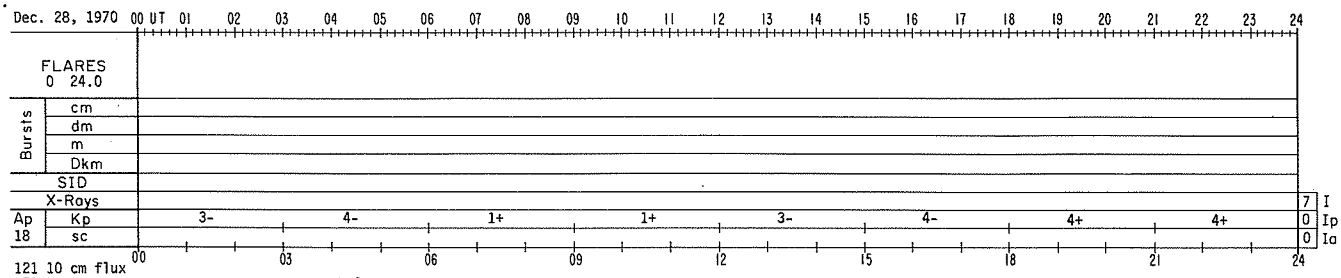
126 10 cm flux
64 Rz
CMP 11092 S16 (4)
11093 N29

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



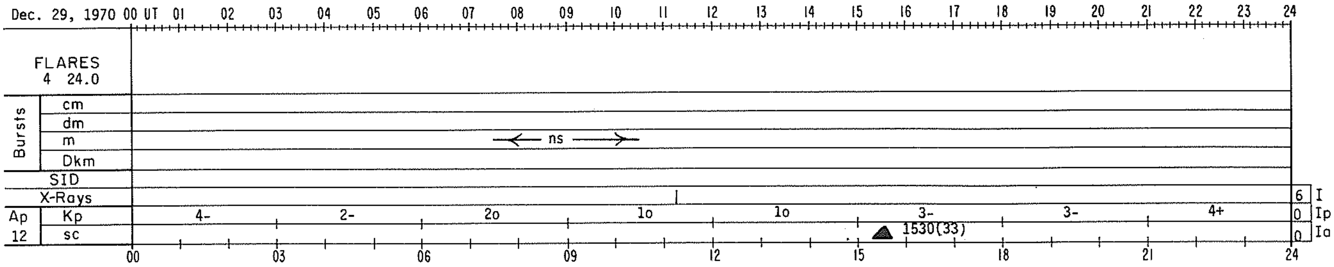
124 10 cm flux
53 Rz
CMP (11104) N16
11094 S21

No coronal data 7 days later on W. limb.



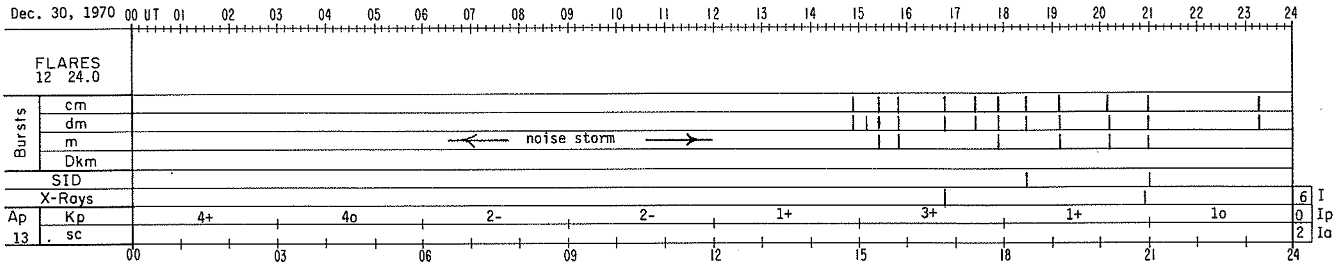
121 10 cm flux
50 Rz
CMP 11096 N13 (18263) N11 βf
11095 S14 (4) (18260) S15 α

One of five most magnetically disturbed days with slight-to-moderate activity; aurora overhead over USSR at ϕ = 58° 0000-0100, ϕ = 56° 2300, moderately bright homogeneous auroral arc, base overhead over W. Europe to ϕ = 64°, later becoming rayed arc, seen to ϕ = 58° 1750-2250, aurora overhead over N. America at ϕ = 59° 0600-1100; moderately br. green corona 7 days earlier on NE and SE limb and 7 days later on NW limb.



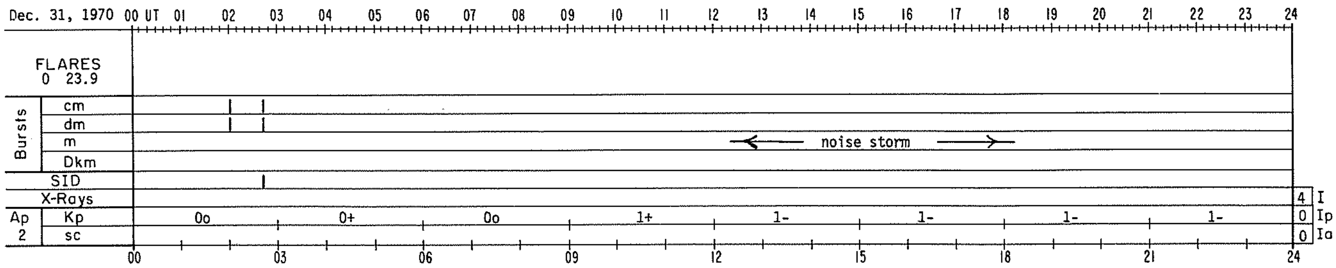
128 10 cm flux
59 Rz

Aurora overhead over USSR at ϕ = 56° 0000, 0100, 0200, 0300, ϕ = 58° 0400, 0500 and ϕ = 59° 0600, homogeneous auroral arc, base overhead over W. Europe to ϕ = 65°, seen to ϕ = 58° 2050-0350; moderately br. green corona 7 days earlier on NE limb and 7 days later on NW and SW limb.



133 10 cm flux
74 Rz
CMP 11097 N15 (3)
18258 N14 αp
18259 N10 βp CMP Dec. 29
(18265) N13 βp

Aurora overhead over USSR at ϕ = 57° 0000, 0100, ϕ = 58° 0200, 1900, 2100, 2200-2300, ϕ = 59° 1800, homogeneous auroral arc, base overhead over W. Europe to ϕ = 65°, seen to ϕ = 58° 0000-0350.



138 10 cm flux
68 Rz
CMP 11100 S20 (4)
11098 N21 (2)
(18261) N20 αp
(18266) N20 βp CMP Jan. 1

One of five most magnetically quiet days; aurora overhead over USSR at ϕ = 58° 0100-0400; moderately br. green corona 7 days later on SW limb.

Errata: The Ionospheric F-region Indices (I) published with the Abbreviated Calendar Record for Novmeber 1970 in SGD 322-Part II were Preliminary Indices based on fewer than the usual number of observations. The following Final Indices are different from those published:

Nov.	I	Nov.	I
6	7	24	7
8	6	25	4
11	7	30	2
12	6		

REGIONAL FLARE INDEX

DECEMBER 1970

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
11060	N20	70/12/03.3	70/11/27	70/12/06	132.11	13.21	12
11063	S14	70/12/04.5	70/11/28	70/12/05	115.59	14.45	11
11066	S13	70/12/06.4	70/11/30	70/12/07	27.98	3.50	7
11070	S10	70/12/10.5	70/12/10	70/12/15	45.05	7.51	7
11073	N15	70/12/11.8	70/12/04	70/12/13	1026.20	102.62	36
11081	S20	70/12/12.2	70/12/19	70/12/19	0.98	0.98	1
11078	S13	70/12/14.0	70/12/19	70/12/19	1.32	1.32	2
11077	N11	70/12/14.8	70/12/07	70/12/20	430.22	30.73	28
11084	N18	70/12/20.7	70/12/14	70/12/26	298.81	22.99	28
11087	S 8	70/12/21.9	70/12/16	70/12/16	1.84	1.84	1
11090	S 9	70/12/24.8	70/12/18	70/12/21	56.77	14.19	11
11091	N22	70/12/25.7	70/12/30	70/12/30	7.22	7.22	1
11096	N12	70/12/28.1	71/01/01	71/01/01	4.37	4.37	1
11095	S14	70/12/28.2	70/12/29	71/01/02	5.12	1.02	2
11097	N15	70/12/30.0	70/12/25	71/01/04	34.20	3.11	4

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.

Table of Contents
for Miscellaneous Data

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

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1970

OCT. 1970	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
01	1545	2329	CLRO										2031	2030.1	2	III
02	1555	2333	CLRO										1717.5	1717.5	1	III
			CLRO										1810	1814.3	2	IIIG
03	1657	2130	CLRO										1757.1	1758.1	2	IIIG
			CLRO										1851	1855	2	IIIG
04	1649	0020	CLRO										1733.3	1734.2	1	IIIG
			CLRO										1739.3	1740	1	III
			CLRO										2020.1	2020.3	1	III
05	1540	2330	CLRO										2037	2037.1	1	III
06	1540	2330	CLRO										1842.1	1842.3	2	III
07	1545	2330	CLRO										1652	1652.3	1	III
			CLRO										1654	1654.3	2	III
			CLRO										1656.3	1657	2	III
			CLRO										1749.4	1750.1	1	III
08	1615	2332	CLRO										1625	1622	2	III
			CLRO										1628.3	1632	1	I
			CLRO										1659.3	1700	2	III
			CLRO										1859	2030	2	IIIN
09	1555	2340	CLRO										1749	1749.2	1	III
			CLRO										1753.5	1757	2	IIIG
			CLRO										1944.5	1945	1	III
			CLRO										1952	1952.5	1	III
			CLRO										2042.5	2043	1	III
10	1515	0038	CLRO										1555	1602	2	CONT
			CLRO										1615	1617	2	IIIG
			CLRO										1707	1707.3	2	IIIG
			CLRO										1738	1738.2	2	III
			CLRO										1745	1745.3	1	III
			CLRO										1756.3	1756.6	1	III
			CLRO										1800	1810	1	IIIG
			CLRO										1855	1856	2	IIIG
			CLRO										2018	2021	1	IIIG
			CLRO										2041.5	2045.3	1	CONT
			CLRO										2101.2	2103.5	2	IIIG
11	1530	2320	CLRO										1738.6	1739.2	1	IIIG
			CLRO										1904	1906	2	IIIG
			CLRO										1914.4	1915.2	2	IIIG
13	1655	2330	CLRO										1657.5	1657.7	2	III
			CLRO										1719.2	1719.6	1	III
			CLRO										1854	2100	2	CONT
			CLRO										1903.9	1904.5	3	III
14	1535	2333	CLRO										1827.5	1831	2	IIIG
			CLRO										1833	1833.1	2	III
			CLRO										2043	2044.5	1	CONT
			CLRO										2054	2106	1	CONT
			CLRO										2120.5	2121.5	2	IIIG
			CLRO										2208.5	2209.5	2	III
15	1617	2350	CLRO										1638.8	1639	1	III
			CLRO										1727	1729	1	IIIG
16	1717	2330	CLRO										1923	1923.5	2	III
			CLRO										2021.5	2022	2	III
17	1611	2325	CLRO										2016.7	2027.3	2	IIIG
			CLRO										2044.8	2046.6	2	IIIG
18	1555	2328	CLRO										1816	1816.5	1	III
			CLRO										1909.8	1910.2	2	III
			CLRO										1919.5	1923	2	IIIG
			CLRO										2124	2134	1	CONT
19	1551	2338	CLRO										1640.5	1640.9	2	III
			CLRO										1742	1744	1	CONT
			CLRO										1749.8	1758	2	CONT
			CLRO										1935	1935.2	1	III
			CLRO										1939.8	1940.3	2	IIIG
			CLRO										1945	1945.3	1	III
20	1618	2329	CLRO										1649	1649.2	2	III
			CLRO										1743	1743.2	2	III
			CLRO										1751.6	1751.8	1	III
			CLRO										1800	2100	2	CONT
21	1613	2328	CLRO										1615	2130	2	CONT
			CLRO										2142.8	2143	2	III
22	1603	2320	CLRO										1610	2130	2	CONT

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

OCTOBER 1970

OCT. 1970	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
22			CLRO										1804	1805.3	2	IIIG
			CLRO										1926	1927.3	2	IIIG
23	1620	2320	CLRO										1645	1645.2	1	III
			CLRO										1649.6	1649.9	2	III
			CLRO										1737	1737.2	1	III
			CLRO										1842	1956	1	IIIN
			CLRO										1956	2026	1	CONT
			CLRO										2110	2132	1	IIIN
24	1638	2315	CLRO										1647.6	1647.7	1	III
			CLRO										1911.5	1911.9	1	III
			CLRO										1952	2120	1	IIIN
25	1633	2337	CLRO										1815	2103	1	IIIN
26	1633	2359	CLRO										1633	1642	1	IIIG
			CLRO										1742	2030	1	CONT,IIIN
			CLRO										2033	2102	1	IIIN
			CLRO										2129.4	2138	1	IIIG
27	1640	2357	CLRO										1650	1852	1	IIIN
			CLRO										1854	2018	1	CONT,IIIN
			CLRO										1914.6	1915	2	III
			CLRO										2018	2118	1.	IIIN
			CLRO										2242.4	2307	2	V
			CLRO										2242.8	2243	1	IIIG
28	1545	0009	CLRO										1614.5	1615.3	1	IIIG
			CLRO										1648	2206	2	CONT,IIIN
			CLRO										2156.5	2156.7	1	III
			CLRO										2243.9	2244.1	1	III
29	1624	0030	CLRO										1624	2154	1	CONT,IIIN
30	1840	0044	CLRO										1840	2034	1	CONT
			CLRO										1848.5	1848.8	2	III
			CLRO										1922.9	1923.2	2	III
			CLRO										2020.6	2023.8	1	IIIG
			CLRO										2034	2120	1	IIIN
			CLRO										2151	2151.2	1	III
31	1630	0016	CLRO										1739.4	1739.6	1	III
			CLRO										1749.3	1749.5	1	III
			CLRO										1830.8	1831	1	III
			CLRO										1839.6	1839.8	1	III
			CLRO										1909.2	1909.3	1	III
			CLRO										1922.4	1922.8	2	III
			CLRO										1944.1	1944.3	1	III
			CLRO										2003.2	2009.3	1	IIIG
			CLRO										2113.7	2115.7	1	IIIG

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

December 1970

University of Iowa

Date 1970	Onset U.T.	Maximum U.T.	Peak-Ratio to Quiet Sun	Remarks and Values of Maximum Flux F(2-12 A°) in erg $(cm^2 sec)^{-1}$
2 December	1556	1610	11	
4 December	0953	1005	10	0.024
	1424	1429	5	
5 December	2300	2343	4-	Slow rise, slow decline
7 December	0157	0204	4	
8 December	0309	> 0321	> 5	Peak not observed
	0426	0430	18	0.047
9 December	0758	0806	10	0.029
	0812	0818	11	0.032
	1136	1140	4	
	1751	1758	5	
	2354	2359	4-	
10 December	0802	0807	4	
	--	--	--	Also numerous small flares
11 December	0436	0443	5	
	1026	1031	47	Rapid rise, rapid decline Note 1 0.131
	1430	1439	4	
	1450	1453	5	
	2202	2339	14	Slow rise, slow decline 0.051
12 December	0902	0904	25	Rapid rise, rapid decline Note 1 0.094
	1449	> 1459	> 4	Peak not observed
	1840	1845	4	
	2347	2353	12	0.036
	2355	2358	11	0.032
13 December	0046	0055	4	
	0135	0147	5	
	1252	1259	8	
14 December	2214	2325	4-	Slow rise, slow decline
22 December	1243	1259	27	0.034 Note 2
	1511	1524	33	0.040 Note 2
23 December	0801	0815	5	
25 December	0747	0751	5	
	1433	1451	4	Note 3
	2131	2146	4-	Note 3
26 December	0315	0319	5	Rapid rise, rapid decline
27 December	0310	0328	4	
29 December	1113	1139	4	
30 December	--	< 1651	> 4	Onset and peak not observed
	2059	2100	4-	Rapid rise, rapid decline

Notes 1, 2, 3: Pairs of homologous flares.

Note 4: Coverage this month is 79%.

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

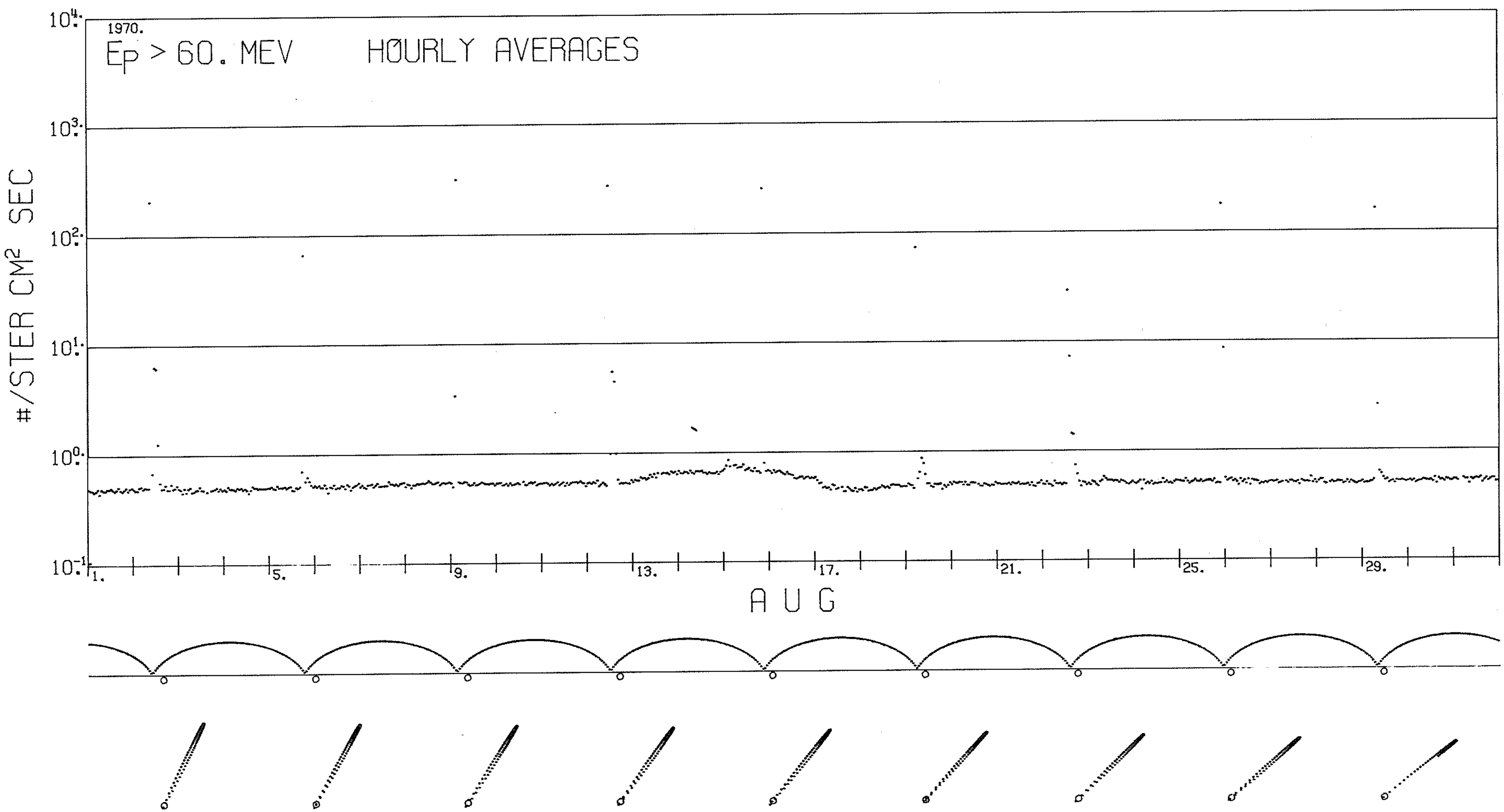
AUGUST 1970

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

YEAR 1970

DATE		DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8	1	213	0.49	0.48	0.49	0.46	0.47	0.49	0.45	0.49	0.48	0.48	0.49	0.49	0.50	0.49	0.47	0.49	0.51	0.48	0.47	0.49	0.51	0.48	0.50	0.51
8	2	214	0.49	0.48	0.48	0.51	0.52	0.50	0.51	0.50	0.50	206.	0.68	6.37	6.19	1.26	0.56	0.49	0.50	0.53	0.49	0.48	0.54	0.49	0.50	0.53
8	3	215	0.50	0.49	0.45	0.50	0.46	0.49	0.51	0.46	0.46	0.48	0.48	0.51	0.48	0.48		0.46		0.48	0.48	0.49	0.50	0.48	0.50	0.48
8	4	216	0.49	0.48	0.51	0.49	0.49	0.49	0.48	0.50	0.49	0.50	0.48	0.50	0.48	0.45	0.48	0.52	0.50	0.50	0.49	0.50	0.50	0.49	0.49	0.50
8	5	217	0.50	0.51	0.49	0.49	0.52	0.50	0.50	0.50	0.51	0.49	0.51	0.52	0.48	0.47	0.50	0.49	0.51	0.70	66.2	0.57	0.62	0.57	0.53	0.51
8	6	218	0.52	0.51	0.52	0.50	0.50	0.53	0.50	0.45	0.51	0.50	0.53	0.49	0.50	0.50	0.52	0.52	0.49	0.53	0.51	0.47	0.50	0.52	0.53	0.55
8	7	219	0.50	0.52	0.50	0.49	0.52	0.53	0.53	0.50	0.52	0.54	0.51	0.51	0.51	0.51	0.52	0.56	0.53	0.53	0.52	0.53	0.52	0.54	0.54	0.55
8	8	220	0.50	0.53	0.52	0.49	0.52	0.52	0.54	0.53	0.54	0.54	0.54	0.55	0.57	0.55	0.54	0.53	0.54	0.55	0.52	0.54	0.55	0.54	0.54	0.55
8	9	221	0.54	0.50	3.39	317.	0.55	0.54	0.54	0.55	0.55	0.53	0.51	0.52	0.54	0.52	0.52	0.53	0.55	0.54	0.53	0.53	0.52	0.53	0.54	0.51
8	10	222	0.53	0.54	0.54	0.51	0.52	0.53	0.51	0.54	0.52	0.52	0.53	0.54	0.52		0.55	0.52	0.51	0.53	0.55	0.54	0.55	0.51	0.52	0.53
8	11	223	0.53	0.54	0.54	0.53	0.51	0.53	0.51	0.53	0.54	0.51	0.53	0.54	0.50	0.54	0.51	0.53	0.54	0.54	0.55	0.54	0.55	0.54	0.53	0.50
8	12	224	0.53	0.53	0.52	0.54	0.53	0.56	0.50	0.52	0.54	0.52	0.50	274.	0.98	5.55	4.48	0.98	0.57	0.52	0.53	0.53	0.53	0.52	0.52	0.56
8	13	225	0.54	0.56	0.56	0.56	0.60	0.58	0.59	0.57	0.59	0.63	0.59	0.64	0.59	0.65		0.64	0.65	0.65	0.65	0.63	0.67	0.65	0.66	0.63
8	14	226	0.68	0.65	0.64	0.66	0.66	0.64	0.68	0.65	0.64	0.67	0.67	0.67	0.67	0.65	0.65	0.63	0.66	0.64	0.64	0.64	0.66	0.63	0.66	0.67
8	15	227	0.70	0.75	0.84	0.74		0.75	0.76	0.72	0.72	0.73	0.77	0.68	0.69	0.71	0.67	0.66	0.71	0.66	0.67	0.64	255.	0.79	0.67	0.68
8	16	228	0.67	0.64	0.68	0.65	0.66	0.67	0.65	0.63	0.62	0.65	0.62	0.62	0.61	0.57	0.57	0.57	0.59	0.59	0.57	0.58	0.59	0.57	0.58	0.57
8	17	229	0.58	0.55	0.51	0.52	0.47	0.48	0.46	0.47	0.45	0.50	0.49	0.45	0.46		0.47	0.43	0.43	0.47	0.45	0.44	0.43	0.46	0.42	0.45
8	18	230	0.45	0.44	0.47	0.47	0.43	0.44	0.44	0.46	0.44	0.46	0.46	0.49	0.47	0.46	0.47	0.46	0.49	0.50	0.49	0.49	0.49	0.48	0.47	0.47
8	19	231	0.47	0.50	0.49	0.48	0.46	72.5	0.56	0.64	0.86	0.77	0.61	0.50	0.50	0.47	0.47	0.50	0.50	0.50	0.50	0.45	0.48	0.47	0.48	0.51
8	20	232	0.49	0.52	0.51	0.50	0.52	0.51	0.49	0.51	0.49	0.48	0.51	0.51	0.51		0.50	0.48	0.47	0.50	0.49	0.48	0.47	0.48	0.48	0.51
8	21	233	0.50	0.50	0.49	0.49	0.49	0.49	0.50	0.48	0.50	0.50	0.50	0.51	0.49	0.49	0.49	0.49	0.50	0.48	0.51	0.47	0.47	0.50	0.50	0.53
8	22	234	0.49	0.49	0.52	0.49	0.48	0.47	0.52	0.50	0.49	0.50	0.48	0.50	0.49	29.1	7.21	1.43	1.40	0.73	0.61	0.52	0.47	0.51	0.51	0.48
8	23	235	0.50	0.43	0.52	0.51	0.49	0.47	0.51	0.53	0.57	0.55	0.53	0.53	0.53	0.52	0.53	0.52	0.50	0.53	0.52	0.51	0.49	0.48	0.50	0.52
8	24	236	0.50	0.49	0.50	0.52	0.43	0.53	0.49	0.50	0.49	0.51	0.48	0.49	0.49	0.49	0.50	0.54	0.50	0.51	0.49	0.50	0.49	0.51	0.52	0.52
8	25	237	0.52	0.51	0.51	0.54	0.51	0.49	0.50	0.51	0.53	0.51	0.51	0.53	0.50	0.51	0.52	0.53	0.52	0.51	0.54	0.49	0.50	0.49	175.	8.50
8	26	238	0.55	0.52	0.53	0.54	0.51	0.53	0.51	0.47	0.54	0.50	0.52	0.49	0.53	0.48	0.53	0.52	0.52	0.51	0.48	0.49	0.49	0.50	0.49	0.51
8	27	239	0.51	0.51	0.51	0.51	0.49	0.49	0.50		0.51	0.49	0.51	0.51	0.50	0.50	0.51	0.48	0.52	0.51	0.51	0.51	0.50	0.56	0.50	0.52
8	28	240	0.49	0.51	0.53	0.53	0.49	0.48		0.50	0.51	0.50	0.50	0.51	0.51	0.51	0.49	0.50	0.52	0.49	0.51	0.50	0.49	0.48	0.50	0.50
8	29	241	0.51	0.49	0.49	0.49	0.50	0.51	0.53	158.	2.58	0.63	0.60	0.55	0.52	0.53	0.49	0.50	0.51	0.49	0.52	0.51	0.51	0.52	0.51	0.50
8	30	242	0.51	0.52	0.51	0.52	0.49	0.50	0.51	0.51	0.53	0.52	0.52	0.51	0.52	0.50	0.55	0.48	0.54	0.52	0.52	0.51	0.53	0.52	0.51	0.51
8	31	243	0.53	0.53	0.51			0.54	0.53	0.53	0.48	0.53	0.52	0.53	0.54	0.53	0.55	0.49	0.52	0.54	0.51	0.52	0.54	0.54	0.50	0.50

SOLAR PROTONS BY SATELLITE
EXPLORER 41 (1969-53A)
AUGUST 1970



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

AUGUST 1970

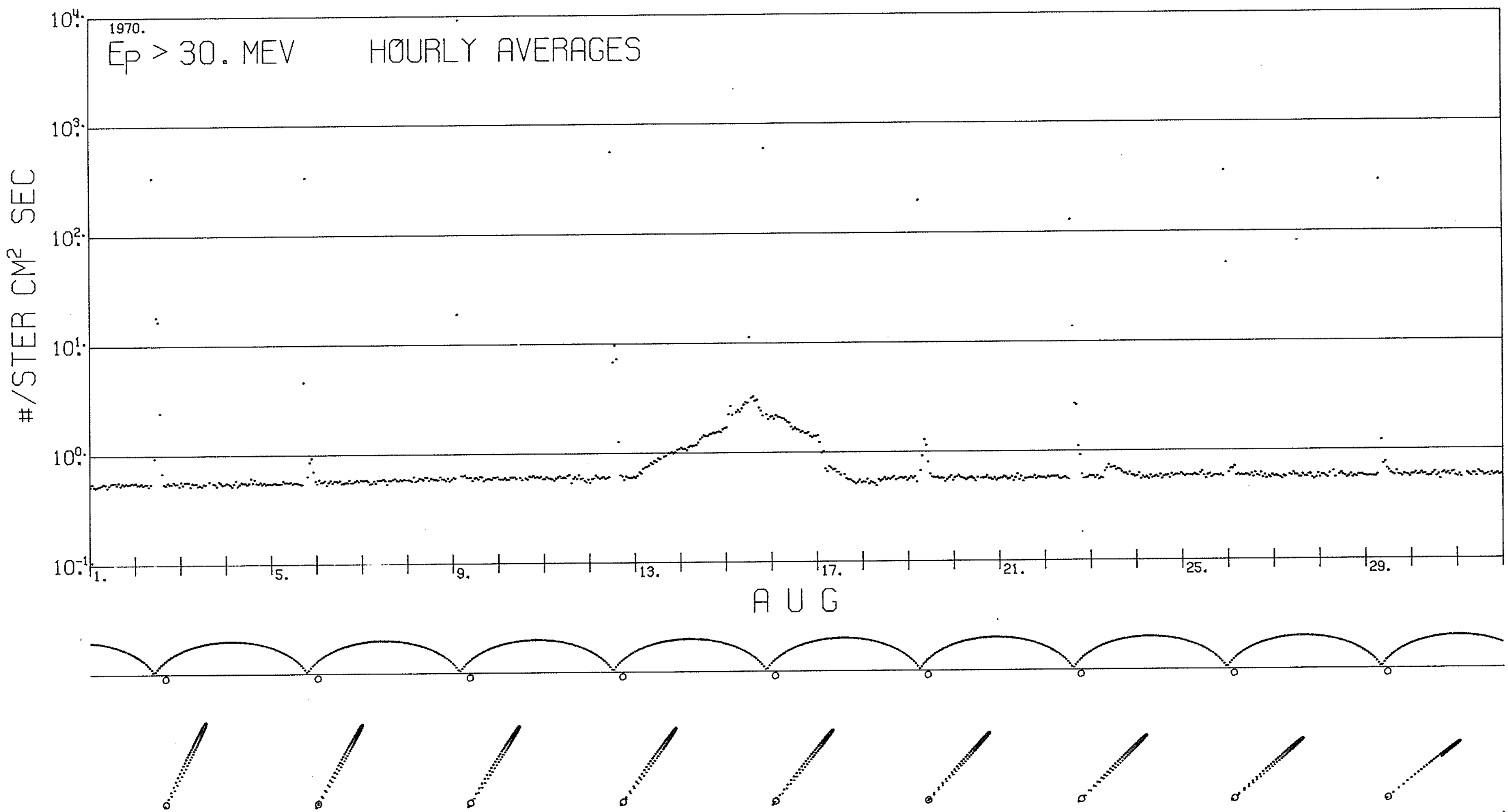
PROTON ENERGY GREATER THAN 30 MEV. HOURLY AVERAGES. IMPG SOLAR PROTON MONITOR. JHU/APL AND GSFC

YEAR 1970

DATE		DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8	1	213	0.52	0.55	0.52	0.51	0.52	0.53	0.54	0.55	0.55	0.51	0.54	0.56	0.56	0.56	0.54	0.57	0.53	0.56	0.54	0.56	0.55	0.55	0.57	0.56
8	2	214	0.56	0.54	0.54	0.56	0.53	0.55	0.55	0.52	0.55	338.	0.94	18.2	16.5	2.43	0.68	0.55	0.53	0.56	0.55	0.54	0.57	0.55	0.55	0.52
8	3	215	0.57	0.54	0.57	0.57	0.57	0.52	0.56	0.55	0.55	0.53	0.53	0.52	0.55	0.54		0.57		0.55	0.55	0.52	0.57	0.56	0.54	0.54
8	4	216	0.56	0.55	0.54	0.52	0.55	0.59	0.52	0.54	0.56	0.56	0.55	0.54	0.55	0.61	0.56	0.60	0.55	0.55	0.57	0.54	0.56	0.54	0.55	0.55
8	5	217	0.54	0.55	0.55	0.55	0.54	0.55	0.58	0.56	0.56	0.56	0.56	0.54	0.55	0.55	0.55	0.54	0.54	4.59	337.	0.63	0.85	0.93	0.70	0.57
8	6	218	0.54	0.59	0.56	0.55	0.58	0.53	0.56	0.58	0.55	0.57	0.57	0.57	0.58	0.54	0.55	0.56	0.56	0.59	0.55	0.55	0.57	0.59	0.57	0.59
8	7	219	0.58	0.58	0.59	0.57	0.54	0.54	0.57	0.55	0.58	0.58	0.58	0.59	0.58	0.53	0.58	0.58	0.59	0.60	0.58	0.57	0.59	0.58	0.59	0.58
8	8	220	0.58	0.58	0.57	0.62	0.57	0.58	0.60	0.60	0.58	0.62	0.61	0.58	0.60	0.59	0.59	0.59	0.58	0.62	0.59	0.59	0.57	0.60	0.56	0.59
8	9	221	0.61	0.60	18.9	16309	0.63	0.63	0.64	0.61	0.60	0.61	0.57	0.60	0.60	0.59	0.62	0.61	0.56	0.59	0.59	0.59	0.58	0.61	0.60	0.62
8	10	222	0.59	0.58	0.58	0.60	0.58	0.58	0.61	0.61	0.61	0.59		0.60	0.57		0.60	0.58	0.62	0.61	0.62	0.60	0.61	0.60	0.62	0.58
8	11	223	0.58	0.61	0.59	0.59	0.58	0.57	0.59	0.60	0.62	0.59	0.60	0.59	0.63	0.64	0.53	0.59	0.61	0.58	0.63	0.58	0.59	0.56	0.54	0.58
8	12	224	0.54	0.58	0.59	0.63	0.60	0.59	0.59	0.61	0.59	0.59	0.60	559.	6.75	9.61	7.21	1.26	0.63	0.61	0.57	0.61	0.60	0.59	0.59	0.61
8	13	225	0.60	0.62	0.67	0.65	0.72	0.74	0.75	0.77	0.81	0.79	0.84	0.83	0.90	0.88		0.93	0.94	0.99	0.99	1.01	0.99	1.01	1.07	1.09
8	14	226	1.11	1.09	1.09	1.05	1.13	1.16	1.15	1.16	1.18	1.23	1.32	1.38	1.45	1.42	1.42	1.47	1.49	1.53	1.50	1.55	1.57	1.53	1.63	1.68
8	15	227	1.70	2.24	2.68	2.21		2.33	2.45	2.34	2.54	2.73	2.89	2.84	11.3	3.15	3.25	2.95	3.03	2.57	2.41	2.16	592.	2.21	2.02	2.12
8	16	228	2.14	2.02	2.18	2.11	2.09	2.05	2.04	1.96	1.89	1.86	1.71	1.61	1.68	1.62	1.59	1.52	1.54	1.49	1.47	1.52	1.40	1.36	1.41	1.40
8	17	229	1.41	1.22	0.98	1.01	0.70	0.66	0.74	0.72	0.69	0.70	0.65	0.65	0.61		0.62	0.57	0.56	0.56	0.54	0.53	0.51	0.52	0.55	0.52
8	18	230	0.53	0.53	0.56	0.51	0.53	0.52	0.51	0.49	0.56	0.54	0.55	0.58	0.55	0.57	0.56	0.57	0.59	0.55	0.56	0.57	0.58	0.57	0.58	0.54
8	19	231	0.57	0.59	0.57	0.59	0.53	197.	0.67	0.91	1.28	1.14	0.80	0.62	0.58	0.58	0.58	0.58	0.57	0.57	0.57	0.53	0.56	0.58	0.60	0.54
8	20	232	0.57	0.58	0.60	0.58	0.57	0.56	0.55	0.57	0.57	0.58	0.56	0.53	0.58		0.56	0.57	0.57	0.60	0.56	0.56	0.55	0.57	0.54	0.55
8	21	233	0.56	0.56	0.59	0.58	0.55	0.56	0.58	0.53	0.57	0.62	0.55	0.59	0.53	0.56	0.56	0.56	0.57	0.56	0.59	0.55	0.57	0.57	0.56	0.57
8	22	234	0.55	0.58	0.57	0.58	0.58	0.57	0.58	0.56	0.55	0.56	0.58	0.56	0.54	128.	13.6	2.71	2.63	1.10	0.91	0.60	0.55	0.56	0.56	0.59
8	23	235	0.58	0.58	0.56	0.58	0.54	0.56	0.55	0.65	0.69	0.74	0.69	0.70	0.71	0.66	0.67	0.66	0.64	0.61	0.62	0.59	0.62	0.59	0.59	0.57
8	24	236	0.58	0.62	0.55	0.57	0.55	0.57	0.55	0.59	0.56	0.57	0.58	0.56	0.60	0.55	0.57	0.58	0.59	0.55	0.60	0.58	0.59	0.59	0.59	0.61
8	25	237	0.59	0.57	0.59	0.59	0.58	0.58	0.60	0.59	0.58	0.61	0.64	0.58	0.55	0.59	0.61	0.56	0.58	0.59	0.59	0.58	0.59	0.57	354.	51.4
8	26	238	0.62	0.67	0.67	0.71	0.58	0.60	0.58	0.59	0.58	0.59	0.59	0.57	0.60	0.56	0.62	0.58	0.57	0.61	0.55	0.59	0.55	0.57	0.55	0.58
8	27	239	0.57	0.53	0.57	0.55	0.54	0.57	0.56		0.59	0.58	0.61	0.59	0.58	0.56	0.56	0.59	0.56	0.57	0.59	0.60	0.55	0.54	0.55	0.60
8	28	240	0.55	0.59	0.58	0.57	0.55	0.60		0.64	0.55		0.58	0.61	0.58	0.57	0.55	0.57	0.59	0.55	0.57	0.56	0.59	0.58	0.59	0.57
8	29	241	0.57	0.56	0.57	0.56	0.56	0.56	0.58	287.	1.21	0.73	0.77	0.67	0.64	0.60	0.59	0.58	0.63	0.58	0.58	0.56	0.59	0.58	0.57	0.56
8	30	242	0.59	0.58	0.61	0.57	0.58	0.61	0.58	0.59	0.56	0.56	0.57	0.59	0.62	0.56	0.58	0.53	0.59	0.61	0.58	0.60	0.57	0.60	0.62	0.56
8	31	243	0.56	0.58	0.55			0.60	0.58	0.56	0.59	0.59	0.56	0.62	0.60	0.59	0.56	0.57	0.59	0.55	0.60	0.57	0.58	0.59	0.57	0.58

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

AUGUST 1970



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

AUGUST 1970

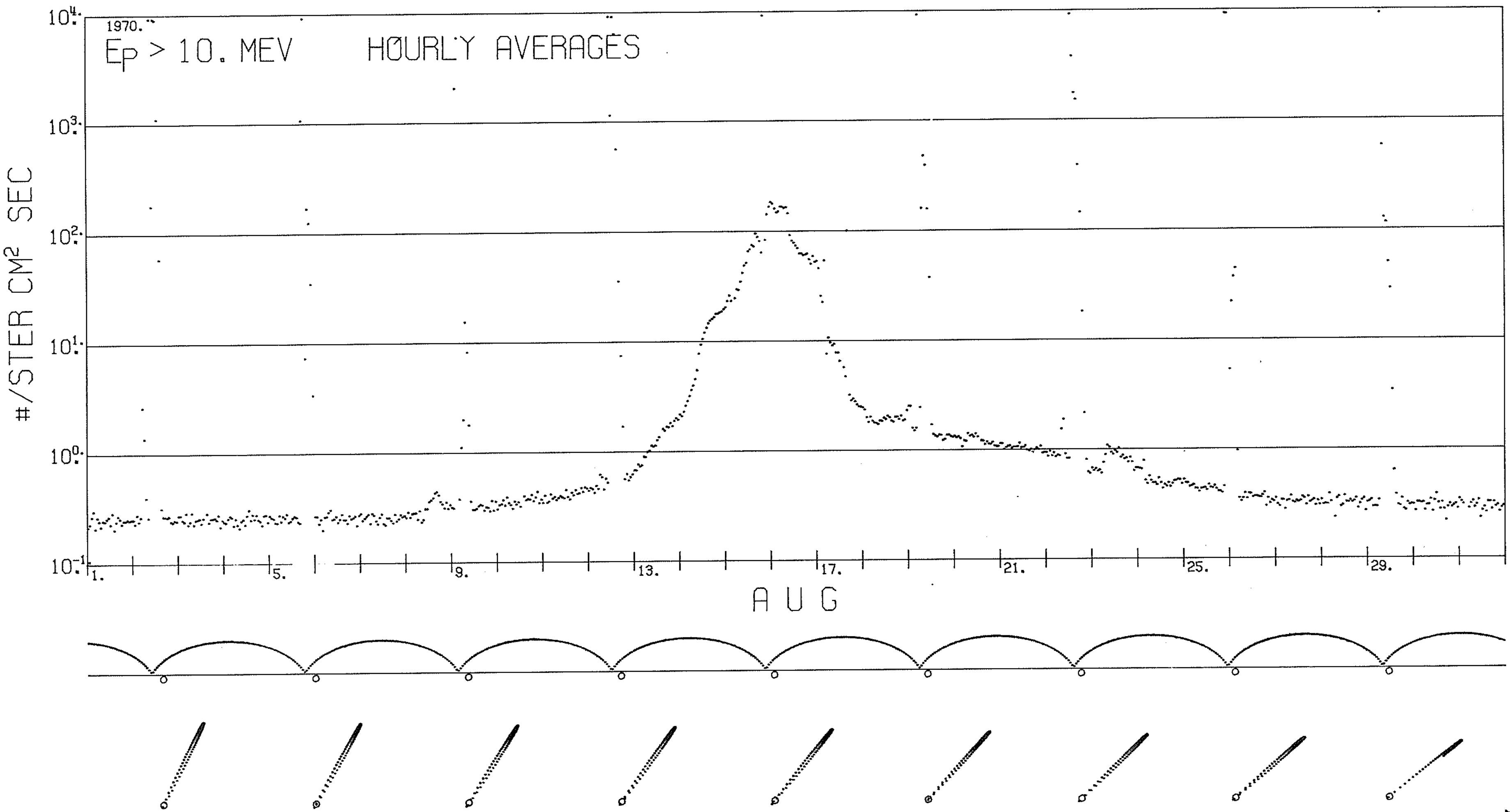
PROTON ENERGY GREATER THAN 10 MEV. HOURLY AVERAGES. IMPG SOLAR PROTON MONITOR. JHU/APL AND GSFC

YEAR 1970

REC'D WDC-A JUN '71

DATE		DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
8	1	213	0.22	0.23	0.27	0.30	0.21	0.27	0.25	0.22	0.25	0.24	0.26	0.27	0.23	0.29	0.20	0.24	0.27	0.26	0.23	0.25	0.25	0.25	0.25	0.25
8	2	214	0.25	0.23	0.28	0.24	0.27	2.64	1.37	0.40	0.26	18237	179.	10320	8956	1107	58.7	0.32	0.27	0.27	0.26	0.27	0.24	0.24	0.25	0.24
8	3	215	0.27	0.28	0.25	0.24	0.29	0.23	0.24	0.29	0.23	0.25	0.25	0.26	0.23	0.26		0.29	0.24	0.26	0.26	0.26	0.25	0.28	0.22	0.25
8	4	216	0.24	0.24	0.26	0.27	0.27	0.22	0.26	0.23	0.21	0.24	0.25	0.23	0.28	0.31	0.25	0.28	0.25	0.28	0.25	0.24	0.22	0.27	0.28	0.24
8	5	217	0.27	0.26	0.26	0.24	0.23	0.28	0.24	0.27	0.26	0.28	0.24	0.24	0.26	0.27	0.26	0.24	0.23	107330064		7.35	170.	126.	34.8	3.38
8	6	218	0.27	0.27	0.23	0.25	0.20	0.26	0.27	0.29	0.31	0.25	0.25	0.27	0.24	0.25	0.28	0.25	0.25	0.23	0.27	0.25	0.26	0.27	0.22	0.27
8	7	219	0.28	0.24	0.26	0.27	0.28	0.23	0.28	0.27	0.24	0.23	0.26	0.28	0.23	0.22	0.26	0.26	0.24	0.23	0.28	0.24	0.25	0.28	0.26	0.27
8	8	220	0.26	0.29	0.26	0.28	0.28	0.28	0.25	0.30	0.23	0.25	0.31	0.31	0.36	0.37	0.39	0.43	0.44	0.41	0.36	0.34	0.31	0.36	0.31	0.34
8	9	221	0.32	0.31	2064	5979	0.38	1.12	2.01	15.4	8.20	1.79	0.36	0.30	0.30	0.31	0.33	0.34	0.33	0.30	0.32	0.32	0.29	0.37	0.30	0.36
8	10	222	0.31	0.33	0.34	0.37	0.33	0.39	0.35	0.33	0.31	0.36	0.34	0.35	0.32		0.40	0.37	0.38	0.37	0.41	0.36	0.39	0.44	0.34	0.37
8	11	223	0.35	0.40	0.35	0.36	0.41	0.38	0.39	0.37	0.38	0.40	0.39	0.38	0.45	0.39	0.37	0.43	0.41	0.45	0.42	0.42	0.47	0.43	0.48	0.47
8	12	224	0.44	0.47	0.46	0.42	0.49	0.46	0.62	0.59	0.45	0.57	0.53	13129	1144	9144	6337	563.	35.4	7.45	1.69	0.56	0.63	0.55	0.59	0.62
8	13	225	0.68	0.68	0.76	0.73	0.75	0.90	0.89	0.99	1.02	1.13	1.11	1.13	1.27	1.36		1.61	1.55	1.69	1.66	1.82	1.70	1.90	2.02	1.94
8	14	226	2.18	2.11	2.30	2.61	2.88	3.20	3.63	3.97	4.55	5.47	7.75	9.42	10.6	12.0	13.3	14.7	15.5	16.1	16.7	17.8	18.0	18.3	18.7	19.6
8	15	227	20.4	23.2	26.2	23.2		24.7	29.7	29.3	34.7	41.8	48.9	51.5	65.7	68.4	74.9	72.8	95.3	88.7	81.1	63.9	14887	82.8	142.	166.
8	16	228	183.	177.	160.	147.	150.	166.	165.	161.	164.	145.	91.2	81.4	77.9	73.7	59.9	62.2	52.5	60.1	60.7	62.2	55.1	50.2	59.1	52.0
8	17	229	53.4	45.5	25.7	22.5	53.9	7.61	10.7	9.64	9.03	9.34	7.78	7.81	6.54		5.74	4.72		3.21	2.85	2.97	2.80	2.62	2.51	2.51
8	18	230	2.46	2.35	2.00	1.80	2.02	1.86	1.79	1.77	1.74	1.86	1.85	1.98	1.92	2.06	1.99	1.85	1.81	2.01	2.02	1.91	2.07	1.85	1.90	2.32
8	19	231	2.53	2.52	1.58	1.56	1.59	43121	2.45	158.	475.	389.	157.	37.1	1.70	1.39	1.34	1.32	1.37	1.36	1.22	1.25	1.37	1.37	1.33	1.30
8	20	232	1.34	1.30	1.32	1.27	1.07	1.21	1.20	1.41	1.34	1.36	1.31	1.40	1.31		1.21	1.20	1.12	1.18	1.13	1.12	1.17	1.08	1.07	1.07
8	21	233	1.14	1.13	1.00	1.05	1.08	1.08	1.03	1.06	1.05	1.06	1.14	1.04	1.04	1.08	0.99	0.97	1.00	0.94	1.00	1.03	1.00	1.07	0.92	0.93
8	22	234	0.93	0.86	0.96	0.87	0.93	0.85	0.89	0.87	1.53	1.88	0.90	0.82	0.83	63291	3768	1743	1520	384.	143.	18.0	2.16	0.80	0.62	0.60
8	23	235	0.67	0.63	0.66	0.63	0.64	0.60	0.75	0.89	1.08	1.04	0.93	0.90	0.97	0.93	1.02	0.84	0.87	0.81	0.82	0.76	0.84	0.76	0.63	0.67
8	24	236	0.67	0.66	0.66	0.78	0.52	0.48	0.57	0.51	0.49	0.49	0.47	0.54	0.49	0.44	0.47	0.45	0.49	0.45	0.48	0.51	0.51	0.53	0.52	0.48
8	25	237	0.53	0.49	0.49	0.45	0.46	0.47	0.43	0.43	0.41	0.43	0.44	0.44	0.42	0.47	0.44	0.44	0.46	0.43	0.41	0.41	0.40	0.45	28324	10914
8	26	238	5.29	21.9	37.0	43.9	0.96	0.35	0.33	0.35	0.39	0.35	0.39	0.39	0.36	0.37	0.37	0.36	0.36	0.38	0.40	0.30	0.35	0.32	0.34	0.33
8	27	239	0.35	0.31	0.30	0.34	0.34	0.28	0.33	0.34	0.37	0.32	0.32	0.33	0.32	0.33	0.36	0.35	0.31	0.36	0.32	0.33	0.34	0.30	0.33	0.31
8	28	240	0.34	0.31	0.31	0.31	0.38	0.33		0.23	0.35	0.36	0.29	0.30	0.37	0.32	0.32	0.33	0.32	0.33	0.35	0.28	0.31	0.33	0.35	0.27
8	29	241	0.32	0.33	0.34	0.29	0.29	0.29	0.34	13241	570.	126.	114.	49.7	28.8	3.42	0.63	0.38	0.30	0.30	0.35	0.28	0.27	0.32	0.30	0.31
8	30	242	0.31	0.27	0.32	0.32	0.31	0.32	0.27	0.30	0.30	0.34	0.26	0.33	0.38	0.31	0.27	0.32	0.28	0.22	0.29	0.31	0.29	0.30	0.31	0.28
8	31	243	0.34	0.32	0.31			0.28	0.31	0.33	0.28	0.30	0.33	0.23	0.27	0.29	0.26	0.32	0.32	0.27	0.32	0.29	0.30	0.26	0.28	0.29

SOLAR PROTONS BY SATELLITE
EXPLORER 41 (1969 53A)
AUGUST 1970



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

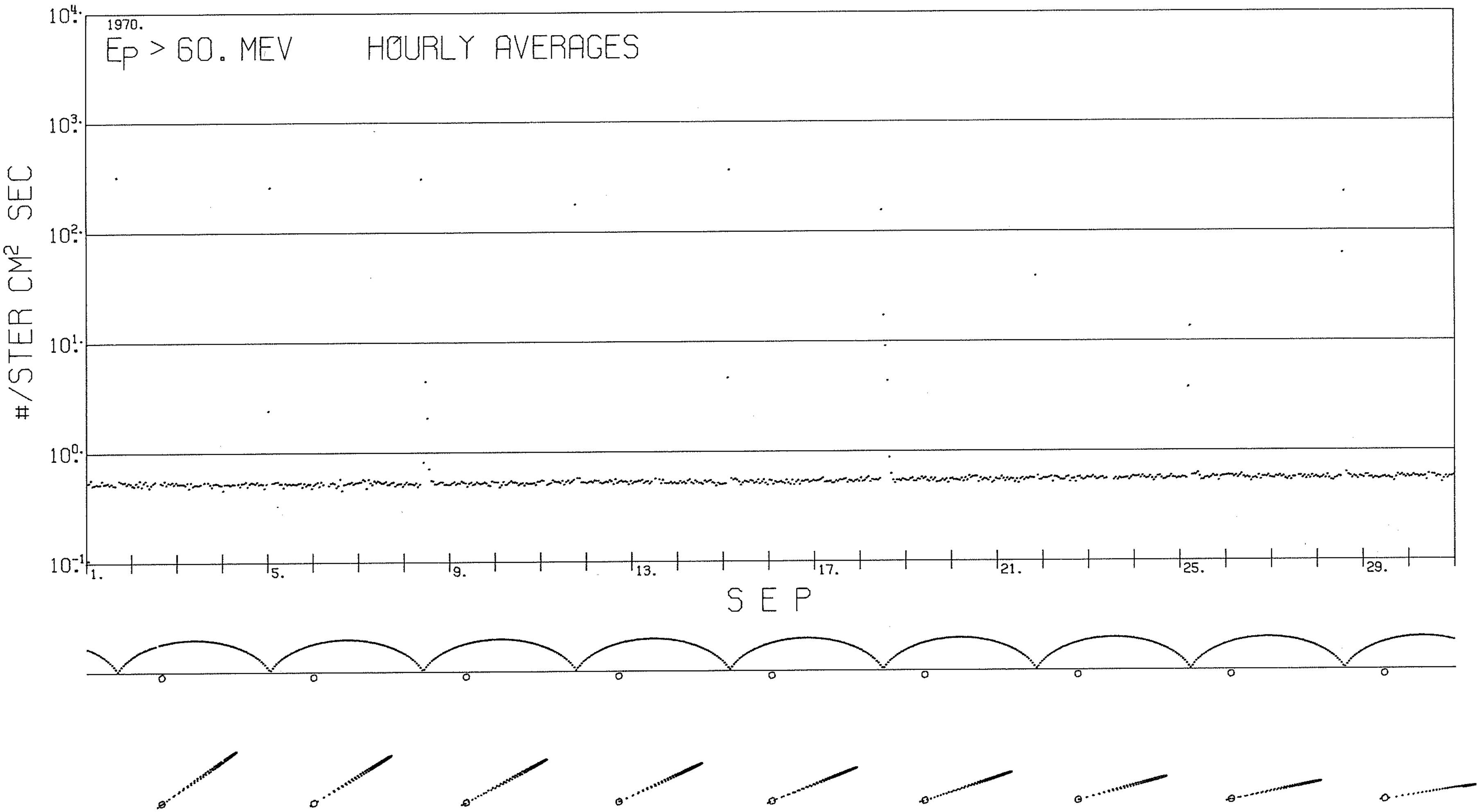
SEPTEMBER 1970

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

YEAR 1970

DATE		DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
9	1	244	0.53	0.54	0.57	0.51	0.51	0.52	0.52	0.52	0.56	0.52	0.53	0.54	0.51	0.53	0.51	0.50	324.	0.55	0.55	0.54	0.54	0.52	0.54	0.53
9	2	245	0.51	0.50	0.53	0.51	0.56	0.49	0.54	0.56	0.52	0.48	0.51	0.53	0.55			0.53	0.52	0.56	0.51	0.54	0.53	0.54	0.52	0.54
9	3	246	0.52	0.52	0.52	0.52	0.51	0.54	0.48	0.54	0.50	0.51	0.51	0.51	0.52		0.54		0.54	0.51	0.49	0.52	0.53	0.52	0.51	0.51
9	4	247	0.46	0.52	0.52	0.52	0.50	0.52	0.51		0.52	0.49	0.53	0.53	0.54	0.49	0.52	0.54	0.53	0.52	0.54	0.52	0.52	0.52	0.48	0.52
9	5	248	2.42	260.	0.53	0.53	0.54	0.54	0.52	0.52	0.48	0.53	0.51	0.52	0.51	0.52	0.52	0.51	0.53	0.53	0.49	0.53	0.50	0.52	0.52	0.47
9	6	249	0.51	0.52	0.53	0.49	0.54	0.51			0.50	0.53	0.53	0.52	0.48	0.50	0.57	0.45	0.51	0.52	0.53	0.53	0.54	0.52	0.53	0.53
9	7	250	0.54	0.54	0.57	0.55	0.47	0.57	0.53	0.51	0.55	0.53	0.55	0.53	0.52	0.53	0.54	0.51	0.51	0.53	0.54	0.50	0.51	0.52	0.52	0.49
9	8	251	0.52	0.54	0.52	0.52	0.51	0.51	0.53	0.49	0.51	307.	0.81	4.42	2.06	0.70	0.55	0.55	0.51	0.51	0.53	0.54	0.53	0.51	0.51	0.50
9	9	252	0.51	0.52	0.54	0.51	0.52	0.52	0.54	0.53	0.52	0.49	0.52	0.53	0.50	0.51	0.53	0.52	0.51	0.52	0.53	0.52	0.50	0.49	0.55	0.53
9	10	253	0.53	0.53	0.48	0.50	0.54	0.50	0.51	0.53	0.55	0.53	0.53	0.52	0.50	0.51	0.52	0.50	0.52	0.51	0.52	0.52	0.52	0.50	0.54	0.54
9	11	254	0.55	0.55		0.50	0.51	0.52	0.55	0.53	0.53	0.53	0.52	0.55	0.50	0.53	0.55	0.52	0.54	0.56	179.	0.58	0.57	0.53	0.53	0.52
9	12	255	0.52	0.53	0.54	0.52	0.55	0.54	0.54	0.52	0.51	0.52	0.53	0.52	0.55	0.54	0.51	0.56	0.52	0.54	0.54	0.53	0.54	0.53	0.50	0.54
9	13	256	0.51	0.53	0.53	0.54	0.54	0.55	0.52	0.53	0.54	0.51	0.53		0.57		0.55	0.51	0.56	0.52	0.51	0.51	0.53	0.51	0.52	0.51
9	14	257	0.51	0.54	0.52	0.53	0.51	0.54	0.56	0.52	0.51	0.54	0.53	0.52	0.52	0.50	0.55	0.53	0.54	0.55	0.52	0.51	0.49	0.52	0.50	0.50
9	15	258	0.51	0.51	4.70	364.	0.57	0.55	0.56	0.55	0.53	0.49	0.51	0.54	0.53	0.52	0.54	0.54	0.51	0.52	0.55	0.51	0.53	0.55	0.51	0.49
9	16	259	0.55	0.54	0.50	0.53	0.52	0.52	0.53	0.52	0.51	0.55	0.51	0.50	0.55	0.50	0.52	0.54	0.50	0.53	0.53	0.54	0.54	0.52	0.53	0.54
9	17	260	0.53	0.53	0.54	0.55	0.57	0.52	0.53	0.53	0.53	0.51	0.51	0.54	0.53	0.55	0.54	0.55	0.55	0.52	0.54	0.53	0.52	0.53	0.54	0.53
9	18	261	0.57	0.53	0.54	0.56	0.58	0.52	0.55	0.54	0.54	0.54	0.56	156.	17.2	9.03	4.37	0.87	0.62	0.54	0.51	0.54	0.54	0.53	0.55	0.55
9	19	262	0.53	0.53	0.55	0.56	0.53	0.53	0.55	0.54	0.58	0.55	0.57	0.54	0.52	0.55	0.54	0.56	0.52	0.52	0.53	0.55	0.53	0.55	0.51	0.56
9	20	263	0.56	0.54	0.54	0.54	0.53	0.56	0.53	0.56	0.54	0.59	0.56	0.58	0.59	0.58	0.52	0.56	0.54	0.55	0.55	0.53	0.56	0.51	0.52	0.55
9	21	264	0.54	0.54	0.58	0.55	0.53	0.56	0.54	0.55	0.55	0.52	0.55	0.51	0.55	0.57	0.54	0.56	0.55	0.56	0.56	0.56	39.2	0.59	0.54	0.54
9	22	265	0.56	0.56	0.56	0.57	0.58	0.52	0.58	0.57	0.56	0.54	0.54	0.54	0.57	0.58	0.52	0.55	0.55	0.51	0.57	0.57	0.55	0.54	0.55	0.57
9	23	266	0.56	0.56	0.58	0.56	0.54	0.55	0.56	0.57	0.55	0.55				0.54	0.55	0.54	0.56	0.55	0.56	0.56	0.56	0.54	0.56	0.58
9	24	267	0.57	0.57	0.58	0.56	0.59	0.57	0.55	0.56	0.58	0.55	0.53	0.55	0.58	0.58	0.55	0.54	0.54	0.56	0.57	0.59	0.56	0.56	0.55	0.56
9	25	268	0.55	0.57	0.56	0.55	3.76	13.5	0.59	0.60	0.60	0.62	0.57	0.53	0.54	0.56	0.56	0.55	0.56	0.59	0.57	0.58	0.53	0.57	0.58	0.58
9	26	269	0.59	0.59	0.58	0.59	0.57	0.59	0.56	0.58	0.60	0.57	0.55	0.57	0.55	0.52	0.55	0.56	0.54	0.59	0.54	0.57	0.57	0.57	0.58	0.56
9	27	270	0.55	0.55	0.57	0.56	0.58	0.56	0.57	0.55	0.53	0.56	0.53	0.55	0.56		0.58	0.58	0.55	0.58	0.54	0.57	0.55	0.58	0.55	0.57
9	28	271	0.55	0.54	0.55	0.57	0.55	0.59	0.55	0.53	0.52	0.54	0.55	0.57	0.56	62.0	224.	0.62	0.59	0.57	0.55	0.57	0.56	0.54	0.57	0.56
9	29	272	0.55	0.59	0.58	0.56	0.56	0.54	0.55	0.55	0.54	0.55	0.56	0.57	0.55	0.56	0.54	0.54	0.52	0.56	0.59	0.57	0.59	0.57	0.55	0.58
9	30	273	0.56	0.56	0.59	0.57	0.57	0.56	0.57	0.56	0.57	0.52	0.60		0.59	0.53	0.55	0.57	0.56	0.50	0.54	0.57	0.54	0.57	0.56	0.58

SOLAR PROTONS BY SATELLITE
EXPLORER 41 (1969-53A)
SEPTEMBER 1970



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

SEPTEMBER 1970

PROTON ENERGY GREATER THAN 30 MEV. HOURLY AVERAGES. IMPG SOLAR PROTON MONITOR. JHJ/APL AND GSFC

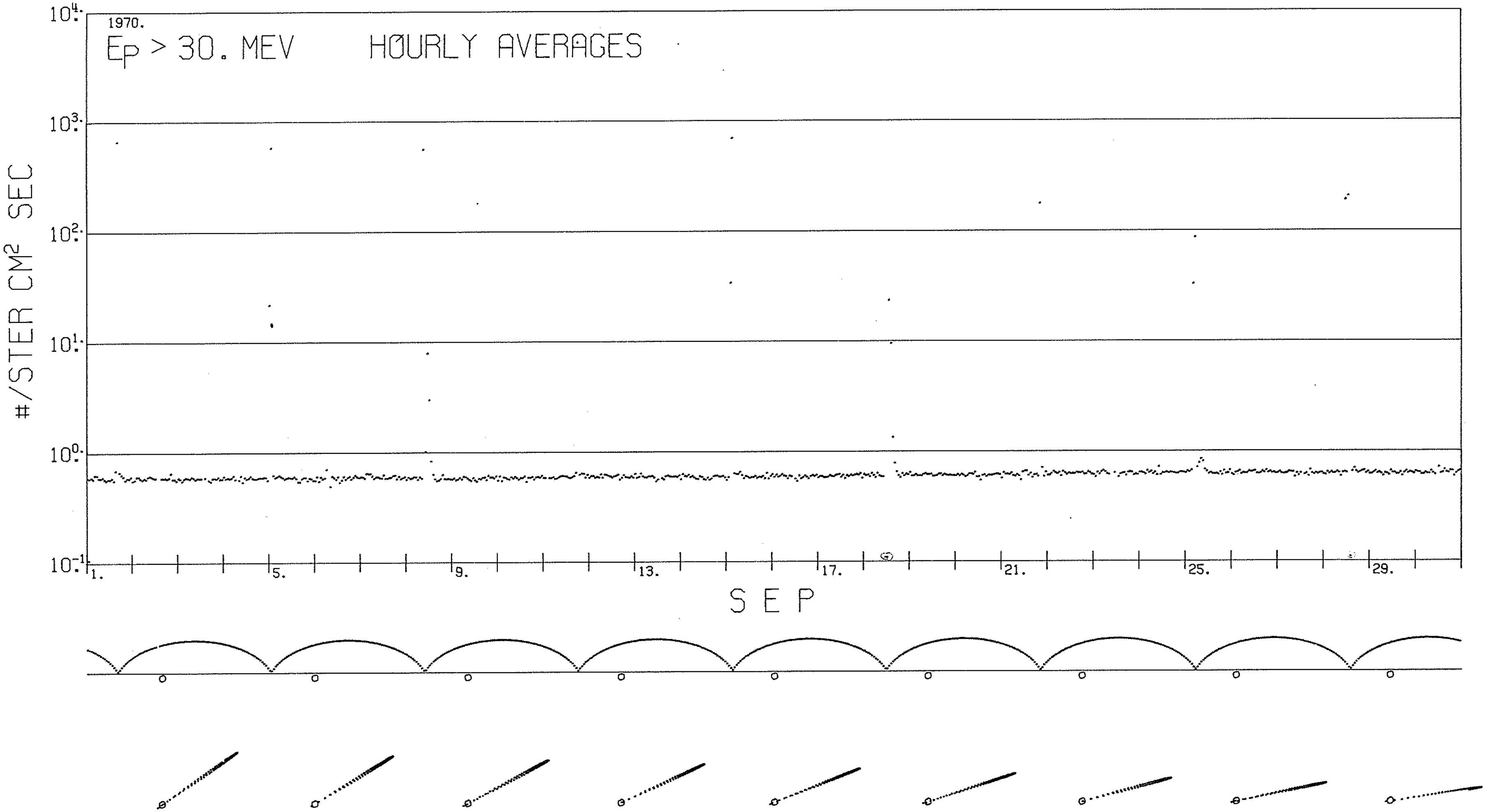
YEAR 1970

DATE		DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
9	1	244	0.59	0.58	0.59	0.58	0.63	0.62	0.59	0.58	0.59	0.57	0.56	0.57	0.57	0.59	0.56	0.59	565.	0.65	0.63	0.61	0.56	0.58	0.58	0.61
9	2	245	0.56	0.57	0.60	0.60	0.58	0.57	0.59	0.57	0.60	0.61	0.60	0.59	0.59			0.59	0.58	0.59	0.58	0.59	0.65	0.57	0.57	0.55
9	3	246	0.59	0.57	0.55	0.58	0.59	0.59	0.58	0.60	0.59	0.57	0.58	0.53	0.58		0.59		0.56	0.55	0.59	0.59	0.58	0.60	0.57	0.58
9	4	247	0.61	0.58	0.59	0.58	0.59	0.62	0.57		0.56	0.62	0.54	0.60	0.58	0.59	0.61	0.58	0.58	0.57	0.59	0.59	0.59	0.60	0.59	0.56
9	5	248	21.8	578.	0.62	0.59	0.60	0.62	0.60	0.59	0.57	0.59	0.59	0.59	0.59	0.60	0.58	0.54	0.54	0.58	0.59	0.59	0.55	0.58	0.58	0.56
9	6	249	0.55	0.60	0.55	0.60	0.57	0.59	0.71		0.49	0.61	0.59	0.57	0.60	0.53	0.56	0.61	0.57	0.59	0.60	0.57	0.59	0.62	0.60	0.59
9	7	250	0.60	0.60	0.58	0.64	0.64	0.64	0.61	0.58	0.60	0.60	0.59	0.58	0.62	0.58	0.58	0.59	0.59	0.62	0.62	0.57	0.60	0.57	0.59	0.60
9	8	251	0.56	0.59	0.58	0.58	0.60	0.59	0.57	0.60	0.58	560.	1.01	7.93	2.99	0.83	0.63	0.57	0.55	0.55	0.58	0.63	0.57	0.57	0.58	0.57
9	9	252	0.56	0.58	0.56	0.57	0.58	0.57	0.60	0.59	0.58	0.56	0.55	0.58	0.56	0.54	0.58	0.57	0.59	0.59	0.56	0.61	0.59	0.59	0.58	0.60
9	10	253	0.55	0.61	0.55	0.59	0.58	0.57	0.56	0.59	0.58	0.60	0.58	0.56	0.58	0.58	0.60	0.54	0.59	0.58	0.60	0.56	0.59	0.60	0.58	0.61
9	11	254	0.59	0.58		0.58	0.58	0.59	0.57	0.57	0.59	0.61	0.60	0.60	0.60	0.59	0.58	0.59	0.60	0.65	5226	0.62	0.64	0.63	0.58	0.62
9	12	255	0.58	0.60	0.60	0.58	0.59	0.58	0.62	0.58	0.62	0.61	0.60	0.59	0.59	0.60	0.61	0.62	0.56	0.58	0.61	0.59	0.58	0.58	0.60	0.58
9	13	256	0.63	0.58	0.59	0.63	0.60	0.59	0.58	0.60	0.60	0.60	0.58	0.54	0.56		0.58	0.56	0.50	0.61	0.60	0.59	0.59	0.60	0.59	0.61
9	14	257	0.56	0.62	0.60	0.59	0.61	0.59	0.60	0.58	0.56	0.56	0.60	0.59	0.56	0.55	0.58	0.55	0.57	0.60	0.60	0.61	0.59	0.59	0.60	0.58
9	15	258	0.55	0.58	33.9	699.	0.63	0.62	0.62	0.65	0.61	0.57	0.60	0.59	0.57	0.58	0.58	0.50	0.57	0.59	0.58	0.60	0.57	0.64	0.57	0.60
9	16	259	0.62	0.59	0.61	0.59	0.60	0.62	0.60	0.59	0.57	0.60	0.59		0.56	0.54	0.60	0.56	0.58	0.60	0.59	0.57	0.59	0.61	0.59	0.61
9	17	260	0.58	0.59	0.59	0.58	0.58	0.58	0.61	0.59	0.59	0.60	0.61	0.62	0.58	0.61	0.57	0.50	0.59	0.61	0.60	0.61	0.62	0.61	0.63	0.57
9	18	261	0.62	0.60	0.61	0.59	0.63	0.60	0.58	0.63	0.60	0.59	0.59	*****	*****	23.5	9.52	1.33	0.78	0.65	0.60	0.58	0.63	0.60	0.62	0.61
9	19	262	0.65	0.60	0.60	0.62	0.60	0.60	0.60	0.62	0.62	0.61	0.61	0.62	0.59	0.59	0.60	0.62	0.52	0.60	0.61	0.60	0.60	0.60	0.60	0.60
9	20	263	0.60	0.61	0.59	0.62	0.60	0.58	0.60	0.62	0.62	0.61	0.64	0.58	0.58	0.54	0.60	0.61	0.59	0.61	0.60	0.60	0.61	0.62	0.62	0.61
9	21	264	0.57	0.64	0.62	0.62	0.61	0.63	0.60	0.59	0.61	0.59	0.55	0.64	0.66	0.66	0.60	0.63	0.57	0.61	0.61	0.59	177.	0.71	0.59	0.65
9	22	265	0.60	0.61	0.62	0.65	0.63	0.62	0.64	0.59	0.65	0.63	0.61	0.63	0.62	0.62	0.62	0.64	0.63	0.63	0.64	0.61	0.62	0.65	0.63	0.61
9	23	266	0.61	0.58	0.64	0.62	0.65	0.67	0.65	0.62	0.61			0.63		0.58	0.62	0.62	0.63	0.60	0.64	0.64	0.64	0.60	0.61	0.61
9	24	267	0.64	0.64	0.63	0.61	0.66	0.63	0.65	0.62	0.64	0.60	0.72	0.61	0.63	0.63	0.64	0.63	0.54	0.64	0.63	0.62	0.62	0.64	0.64	0.63
9	25	268	0.63	0.65	0.64	0.66	32.8	86.7	0.71	0.78	0.85	0.80	0.68	0.65	0.62	0.63	0.62	0.61	0.62	0.51	0.64	0.60	0.66	0.62	0.62	0.66
9	26	269	0.61	0.59	0.63	0.64	0.65	0.61	0.63	0.62	0.63	0.65	0.64	0.65	0.66	0.62	0.62	0.63	0.55	0.64	0.67	0.63	0.65	0.63	0.63	0.62
9	27	270	0.62	0.64	0.62	0.61	0.62	0.62	0.64	0.64	0.64	0.58	0.62	0.59	0.62		0.61	0.62	0.59	0.67	0.62	0.61	0.62	0.61	0.63	0.63
9	28	271	0.61	0.60	0.64	0.61	0.64	0.62	0.62	0.64	0.63	0.58	0.63	0.64	0.63	206.	*****	0.65	0.59	0.65	0.63	0.64	0.65	0.66	0.62	0.64
9	29	272	0.61	0.61	0.63	0.65	0.62	0.63	0.62	0.59	0.62	0.62	0.60	0.65	0.63	0.63	0.61	0.51	0.63	0.59	0.63	0.65	0.63	0.64	0.63	0.62
9	30	273	0.65	0.63	0.63	0.61	0.61	0.63	0.62	0.61	0.65	0.63	0.60		0.71	0.62	0.63	0.67	0.53	0.63	0.66	0.65	0.59	0.62	0.64	0.66

SOLAR PROTONS BY SATELLITE

EXPLORER 41 (1969-53A)

SEPTEMBER 1970



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

SEPTEMBER 1970

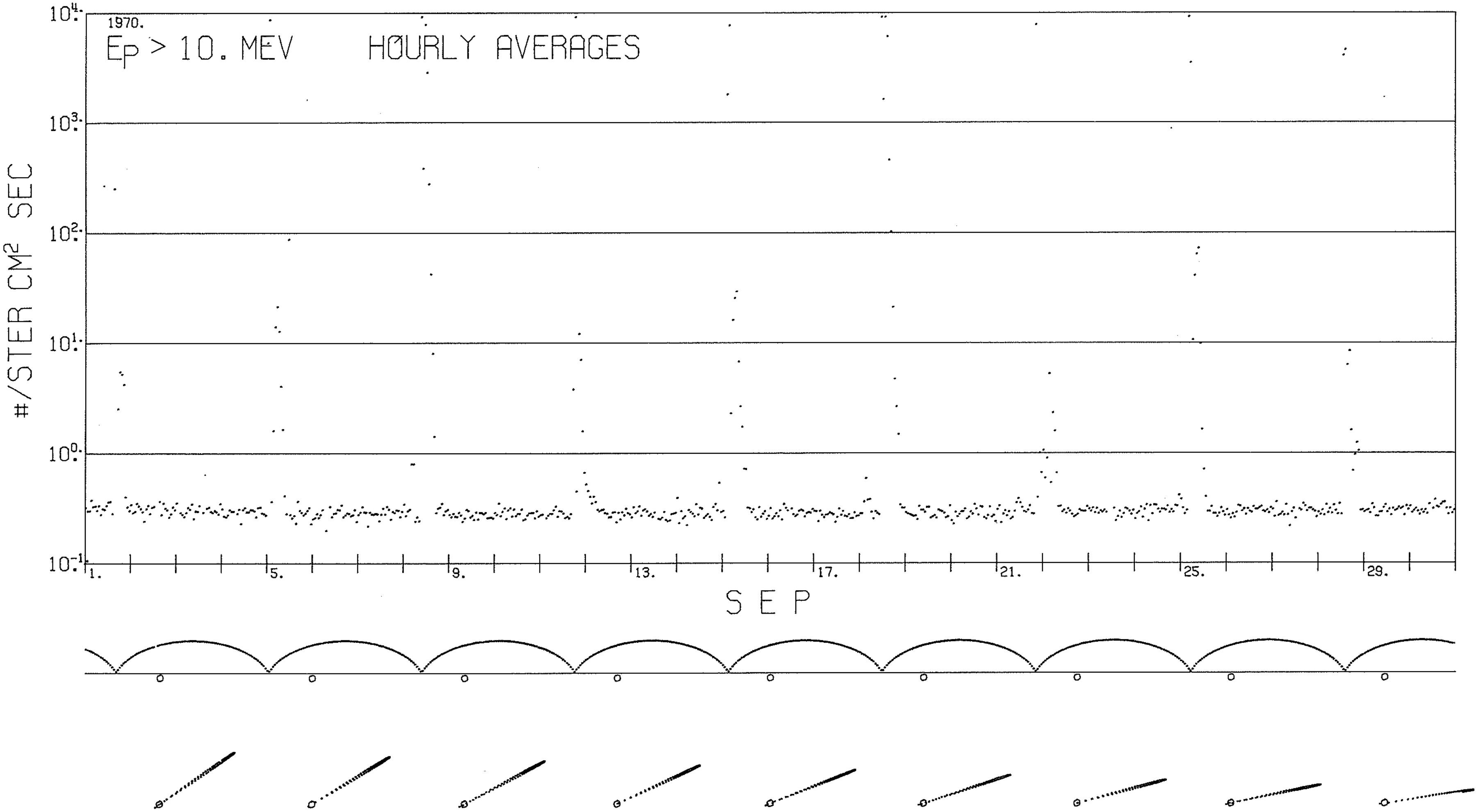
PROTON ENERGY GREATER THAN 10 MEV. HOURLY AVERAGES. IMPG SOLAR PROTON MONITOR. JHU/APL AND GSFC

YEAR 1970

DATE	DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
9 1	244	0.32	0.30	0.30	0.38	0.33	0.33	0.30	0.33	0.28	0.31	0.31	0.34	0.36	0.36	0.28	252.	10736	2.53	5.52	5.24	4.21	0.40	0.33	0.30
9 2	245	0.34	0.29	0.30	0.35	0.33	0.31	0.29	0.24	0.31	0.34	0.28	0.32	0.33			0.37	0.28	0.35	0.32	0.31	0.26	0.28	0.33	0.31
9 3	246	0.35		0.29	0.28	0.27	0.29	0.32	0.31	0.35	0.26	0.30	0.30	0.33		0.29		0.32	0.32	0.30	0.29	0.30	0.29	0.28	0.35
9 4	247	0.31	0.27	0.26	0.27	0.31	0.30	0.30		0.28	0.31	0.23	0.31	0.32	0.29	0.29	0.31	0.31	0.30	0.25	0.32	0.32	0.29	0.28	0.27
9 5	248	5299	8659	0.36	1.61	14.1	21.5	12.8	4.03	1.64	0.41	0.28	87.6	0.28	0.26	0.27	0.23	0.37	0.30	0.29	0.28	0.28	0.30	0.32	0.23
9 6	249	0.25	0.26	0.28	0.26	0.28	0.31		0.20		0.33	0.27	0.29	0.29	0.31	0.31	0.34	0.26	0.28	0.29	0.28	0.27	0.27	0.31	0.24
9 7	250	0.28	0.29	0.33	0.29	0.29	0.22	0.29	0.28	0.28	0.28	0.28	0.24	0.28	0.32	0.28	0.33	0.31	0.25	0.30	0.29	0.30	0.30	0.27	0.30
9 8	251	0.34	0.27	0.30	0.31	0.80	0.80	0.24	0.26	0.24	14926	384.	7815	2839	277.	42.1	8.03	1.41	0.29	0.32	0.32	0.35	0.27	0.30	0.31
9 9	252	0.28	0.26	0.28	0.27	0.26	0.29	0.27	0.24	0.26	0.31	0.30	0.26	0.27	0.25	0.29	0.25	0.29	0.29	0.28	0.29	0.26	0.26	0.26	0.26
9 10	253	0.29	0.28	0.35	0.27	0.30	0.32	0.25	0.30	0.32	0.27	0.31	0.27	0.28	0.28	0.31	0.25	0.25	0.27	0.29	0.29	0.29	0.26	0.30	0.27
9 11	254	0.28	0.28		0.26	0.27	0.28	0.28	0.31	0.33	0.27	0.30	0.30	0.28	0.26	0.27	0.26	0.28	3.80	10300	0.45	12.1	7.06	1.58	0.66
9 12	255	0.52	0.46	0.40	0.35	0.40	0.36	0.31	0.30	0.30	0.31	0.29	0.28	0.26	0.26	0.29	0.29	0.24	0.29	0.25	0.29	0.27	0.31	0.29	0.28
9 13	256	0.26	0.32	0.29	0.30	0.33	0.27	0.30	0.31	0.30	0.27	0.28	0.26	0.29		0.25	0.25	0.26	0.29	0.25	0.24	0.24	0.28	0.28	0.29
9 14	257	0.40	0.23	0.30	0.26	0.27	0.22	0.31	0.29	0.28	0.27	0.34	0.28	0.32	0.31	0.26	0.27	0.28	0.26	0.25	0.32	0.35	0.30	0.54	0.29
9 15	258	0.30	0.26	1797	7662	2.29	16.2	25.6	29.4	6.75	2.65	1.73	0.72	0.71	0.32	0.32	0.29	0.31	0.26	0.25	0.32	0.26	0.28	0.30	0.25
9 16	259	0.27	0.32	0.25	0.27	0.28	0.27	0.30	0.25	0.35	0.32	0.30		0.31	0.28	0.27	0.28	0.30	0.31	0.30	0.27	0.28	0.29	0.29	0.31
9 17	260	0.30	0.30	0.24	0.30	0.27	0.26	0.28	0.28	0.29	0.28	0.28	0.24	0.26	0.31	0.27	0.30	0.27	0.27	0.28	0.26	0.26	0.29	0.27	0.27
9 18	261	0.28	0.28	0.36	0.59	0.38	0.38	0.29	0.25	0.30	0.28	0.28	14736	16251	5058	5073	455.	102.	21.1	4.71	2.64	1.48	0.34	0.32	0.32
9 19	262	0.29	0.28	0.28	0.27	0.27	0.27	0.25	0.33	0.30	0.30	0.29	0.32	0.32	0.25	0.26	0.27	0.26	0.31	0.30	0.29	0.28	0.26	0.26	0.33
9 20	263	0.24	0.23	0.29	0.26	0.28	0.29	0.29	0.31	0.25	0.26	0.29	0.28	0.34	0.31	0.27	0.33	0.32	0.26	0.25	0.27	0.32	0.26	0.27	0.24
9 21	264	0.31	0.33	0.23	0.28	0.30	0.27	0.29	0.25	0.26	0.30	0.36	0.39	0.35	0.32	0.29	0.29	0.30	0.33	0.28	0.28	7808	0.39	1.00	0.66
9 22	265	1.06	0.59	0.90	5.28	0.53	2.34	1.58	0.66	0.33	0.33	0.29	0.30	0.28	0.31	0.30	0.28	0.26	0.27	0.28	0.31	0.30	0.29	0.30	0.33
9 23	266	0.31	0.30	0.32	0.29	0.31	0.28	0.30	0.29	0.30	0.29				0.32	0.24	0.26	0.30	0.26	0.28	0.31	0.31	0.30	0.28	0.30
9 24	267	0.25	0.28	0.29	0.32	0.26	0.31	0.34	0.24	0.33	0.28	0.34	0.33	0.31	0.29	0.31	0.31	0.30	0.33	0.29	0.31	0.29	0.33	0.33	0.41
9 25	268	0.38	0.32	0.28	0.30	11280	3502	10.6	41.1	64.2	72.5	9.80	1.63	0.71	0.40	0.29	0.29	0.33	0.28	0.28	0.26	0.28	0.32	0.29	0.27
9 26	269	0.30	0.27	0.25	0.28	0.26	0.29	0.33	0.33	0.30	0.31	0.28	0.31	0.29	0.29	0.32	0.31	0.31	0.32	0.33	0.30	0.29	0.30	0.28	0.32
9 27	270	0.31	0.26	0.35	0.27	0.27	0.29	0.27	0.34	0.27	0.22	0.29	0.31	0.25		0.31	0.30	0.34	0.33	0.30	0.31	0.32	0.30	0.29	0.26
9 28	271	0.29	0.28	0.30	0.27	0.34	0.28	0.31	0.28	0.33	0.30	0.28	0.34	0.28	4083	4601	6.31	3.44	1.60	0.68	0.97	1.24	1.04	0.30	0.30
9 29	272	0.29	0.30	0.30	0.28	0.34	0.31	0.26	0.26	0.29	0.29	0.32	0.34	0.29	0.31	0.27	0.31	0.30	0.30	0.32	0.31	0.32	0.27	0.33	0.30
9 30	273	0.33	0.29	0.30	0.31	0.29	0.27	0.30	0.28	0.30	0.28	0.34		0.31	0.38	0.32	0.32	0.34	0.35	0.35	0.31	0.28	0.32	0.28	0.30

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

SEPTEMBER 1970



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

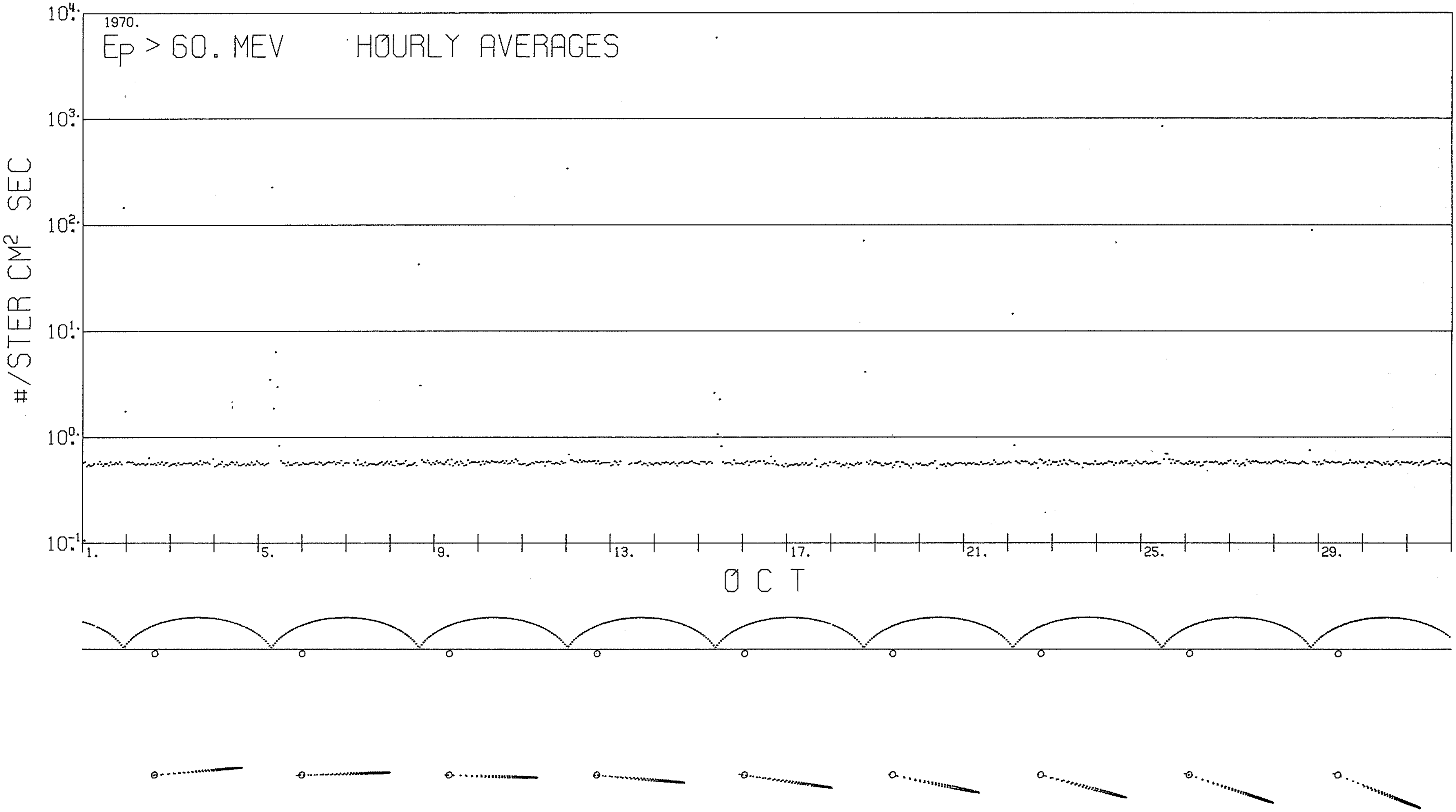
OCTOBER 1970

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

YEAR 1970

DATE		DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
10	1	274	0.57	0.59	0.53	0.55	0.53	0.54	0.56		0.56	0.59	0.56	0.54	0.56	0.56	0.54	0.58	0.55	0.56	0.58	0.56	0.59	0.55	146.	1.75
10	2	275	0.58	0.58	0.58	0.58	0.56	0.55	0.57	0.55	0.57	0.56	0.55	0.56	0.64	0.56	0.55	0.56	0.55	0.58	0.56	0.59	0.55	0.57	0.58	0.53
10	3	276	0.55	0.56	0.56	0.55	0.57	0.55	0.55	0.57	0.56	0.56	0.57	0.57	0.55	0.57	0.57	0.55	0.60	0.55	0.58	0.57	0.58	0.56		0.63
10	4	277	0.53	0.54	0.56	0.56	0.59	0.53	0.55	0.54	0.56	0.58	0.58	0.55	0.58	0.54	0.54	0.55	0.56	0.54	0.56	0.55	0.58	0.55	0.56	0.59
10	5	278	0.57	0.55	0.56	0.54	0.56	0.57	3.49	228.	1.87	6.36	2.97	0.83	0.60	0.57	0.57	0.54	0.58	0.55	0.54	0.57	0.58	0.58	0.55	0.55
10	6	279	0.58	0.56	0.56	0.56	0.57	0.57	0.58	0.56	0.55	0.58	0.57	0.55	0.56	0.57	0.59	0.58	0.58	0.59	0.55	0.58	0.57	0.60	0.54	0.57
10	7	280	0.57	0.57			0.57	0.55	0.61	0.55	0.56	0.54	0.58	0.54	0.55	0.56	0.56	0.56	0.55	0.55	0.57	0.58	0.55	0.57	0.59	0.56
10	8	281	0.59	0.54	0.54	0.60	0.56	0.55	0.56	0.57	0.60	0.54	0.55	0.54	0.55	0.57	0.54	42.6	3.06	0.61	0.58	0.57	0.60	0.57	0.55	0.58
10	9	282	0.56	0.60	0.57	0.58	0.56	0.55	0.58	0.61	0.55	0.62	0.54	0.57	0.59	0.55	0.59	0.56	0.54	0.55	0.61	0.57	0.58	0.58	0.58	0.58
10	10	283	0.58	0.55	0.59	0.56	0.59	0.58	0.57	0.60	0.59	0.57	0.59	0.57	0.58	0.60	0.57	0.60	0.56	0.57	0.59	0.58	0.62	0.60	0.56	0.55
10	11	284	0.56	0.56	0.54	0.55	0.56	0.57	0.56	0.59	0.58	0.58	0.59	0.58	0.53	0.58	0.59	0.59	0.56	0.56	0.58	0.56	0.55	0.59	0.57	0.57
10	12	285	340.	0.68	0.61	0.60	0.59	0.59	0.58	0.61	0.58	0.60	0.59	0.58	0.60	0.59	0.59	0.60	0.56	0.60	0.56	0.57	0.57	0.57	0.58	0.58
10	13	286	0.54	0.55	0.59	0.58	0.55	0.59					0.55	0.57		0.56	0.57	0.58	0.59	0.55	0.57	0.56	0.54	0.58	0.56	0.55
10	14	287	0.56	0.57	0.56	0.55	0.58	0.57	0.58	0.57	0.55	0.57	0.58	0.56	0.53	0.56	0.57	0.58	0.56	0.56	0.57	0.58	0.59	0.58	0.57	0.56
10	15	288	0.55	0.59	0.58	0.58	0.56	0.58	0.59	0.57	2.62	5809	1.06	2.27	0.82	0.58	0.56	0.57	0.57	0.57	0.55	0.61	0.56	0.56	0.56	0.57
10	16	289	0.56	0.58	0.59	0.54	0.58	0.59	0.59	0.57	0.59	0.59		0.59	0.55	0.57	0.56	0.66	0.56	0.59	0.55	0.54		0.54	0.53	0.56
10	17	290	0.53	0.54	0.55	0.54	0.55	0.56	0.54	0.55	0.57	0.55	0.57	0.54	0.55	0.57		0.62	0.53		0.52	0.55	0.57	0.56	0.53	0.58
10	18	291		0.57	0.59	0.56	0.56	0.53	0.55	0.54	0.56	0.51	0.56	0.54	0.54	0.56	0.57	0.55	0.57	71.2	4.11	0.58	0.56	0.60	0.55	0.58
10	19	292	0.58	0.57	0.56	0.54	0.53	0.56	0.55	0.55	0.57	0.51	0.54	0.58	0.58	0.52	0.58	0.57	0.55	0.55	0.53	0.51	0.55		0.56	0.55
10	20	293	0.56	0.54	0.54	0.55	0.53	0.55	0.57	0.56	0.60	0.50		0.55	0.54	0.55	0.53	0.56	0.55	0.54	0.55	0.56	0.56	0.57	0.57	0.56
10	21	294	0.56	0.54	0.56	0.56	0.55	0.57	0.55	0.55	0.54	0.58	0.55	0.56	0.56	0.57	0.55	0.55	0.60	0.58	0.55	0.55	0.56	0.58	0.56	0.57
10	22	295	0.59	0.57	14.5	0.83	0.59	0.57	0.56	0.59	0.59	0.59	0.58	0.57	0.55	0.55	0.57	0.56	0.51	0.62	0.60	0.56	0.58	0.54	0.60	0.55
10	23	296	0.58	0.58	0.58	0.54	0.59	0.55	0.60	0.56	0.55	0.60	0.58	0.58	0.56	0.57	0.55		0.51	0.56	0.56	0.55	0.55	0.56	0.55	0.59
10	24	297	0.55	0.55	0.57	0.55	0.56	0.56	0.59	0.58	0.58	0.54	0.57		0.56	0.59	0.57	0.59	0.59	0.56	0.56	0.54	0.56	0.60	0.58	0.56
10	25	298	0.56	0.58	0.58	0.56	0.56	0.57	0.56	0.58	0.58	0.56	0.56	845.	0.62	0.70	0.69	0.62	0.56	0.61	0.56	0.59	0.59	0.57	0.56	0.55
10	26	299	0.57	0.55	0.59	0.56	0.58	0.54	0.57	0.58	0.53	0.54	0.58	0.59		0.58	0.58	0.57	0.59	0.58	0.55	0.57	0.55	0.57	0.56	0.60
10	27	300	0.60		0.56	0.60	0.56	0.53	0.55	0.57	0.54	0.61	0.59	0.57	0.59	0.58	0.60	0.58	0.57	0.57	0.57	0.58	0.56	0.58	0.56	0.58
10	28	301	0.59	0.60	0.59	0.58	0.58	0.56	0.60	0.57	0.58	0.57	0.57	0.57	0.56	0.56	0.57	0.59	0.58	0.56	0.56	0.75	89.4	0.58	0.58	0.55
10	29	302	0.58	0.55	0.56	0.60	0.59	0.58	0.57	0.59	0.58	0.57	0.58	0.58	0.58	0.55	0.56	0.57	0.57	0.61	0.57	0.57	0.59	0.56	0.59	0.57
10	30	303	0.58	0.52	0.56	0.58	0.57	0.57	0.60	0.59	0.58	0.56	0.54	0.57	0.55	0.59	0.55	0.54	0.56	0.59	0.60	0.57	0.55	0.58	0.58	0.58
10	31	304	0.58	0.57	0.58	0.55	0.57	0.58	0.54	0.59	0.59	0.55	0.56	0.56	0.57	0.59	0.59	0.59	0.56	0.61	0.57	0.55	0.56	0.57	0.56	0.55

SOLAR PROTONS BY SATELLITE
EXPLORER 41 (1969-53A)
OCTOBER 1970



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

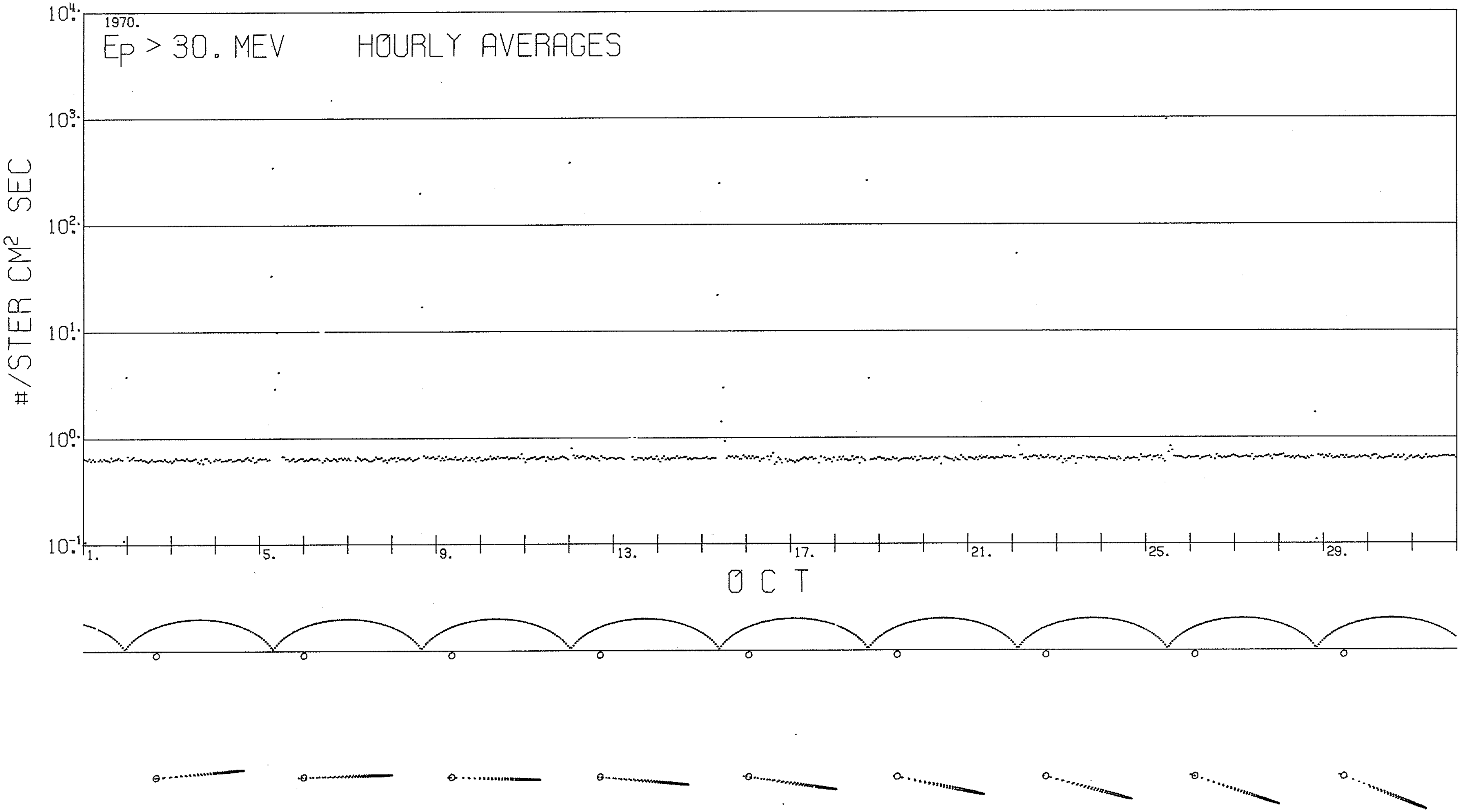
OCTOBER 1970

PROTON ENERGY GREATER THAN 30 MEV. HOURLY AVERAGES. IMPG SOLAR PROTON MONITOR. JHU/APL AND GSFC

YEAR 1970

DATE		DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
10	1	274	0.65	0.63	0.62	0.65	0.61	0.64	0.62		0.62	0.64	0.62	0.65	0.63	0.63	0.61	0.67	0.62	0.64	0.64	0.66	0.64	0.63	*****	3.79
10	2	275	0.68	0.63	0.65	0.67	0.63	0.63	0.63	0.64	0.62	0.63	0.61	0.60	0.62	0.64	0.62	0.61	0.63	0.63	0.63	0.62	0.64	0.62	0.60	0.62
10	3	276	0.60	0.62	0.65	0.63	0.63	0.64	0.63	0.62	0.65	0.63	0.62	0.63	0.64	0.65	0.60	0.58	0.63	0.58	0.65	0.65	0.62	0.60		0.62
10	4	277	0.64	0.63	0.64	0.61	0.62	0.62	0.62	0.64	0.64	0.61	0.62	0.63	0.64	0.64	0.61	0.62	0.65	0.67	0.63	0.62	0.66	0.60	0.60	0.64
10	5	278	0.65	0.64	0.64	0.64	0.62	0.63	33.6	344.	2.91	9.81	4.14	1.00	0.67	0.67	0.64	0.64	0.61	0.63	0.65	0.61	0.62	0.63	0.65	0.64
10	6	279	0.61	0.63	0.62	0.64	0.65	0.63	0.63	0.65	0.63		0.59	0.62	0.65	0.63	0.62	0.62	0.65	0.63	0.61	0.64	0.65	0.63	0.65	0.62
10	7	280	0.65	0.62			0.61	0.66	0.64	0.62	0.64	0.64	0.63	0.61	0.60	0.61	0.63	0.67	0.64	0.64	0.66	0.61	0.62	0.59	0.63	0.65
10	8	281	0.64	0.66	0.60	0.66	0.63	0.64	0.64	0.62	0.64	0.66	0.63	0.61	0.62	0.64	0.65	199.	17.1	0.68	0.65	0.66	0.65	0.66	0.67	0.64
10	9	282	0.65	0.68	0.62	0.65	0.62	0.67	0.63	0.64	0.63	0.63	0.66	0.63	0.63	0.64	0.61	0.65	0.66	0.62	0.62	0.66	0.63	0.60	0.65	0.66
10	10	283	0.62	0.61	0.63	0.63	0.63	0.67	0.63	0.65	0.64	0.67	0.65	0.66	0.65	0.65	0.66	0.63	0.65	0.65	0.65	0.64	0.67	0.64	0.71	0.64
10	11	284	0.59	0.63	0.63	0.65	0.65	0.66	0.63	0.63	0.65	0.65	0.66	0.60	0.66	0.64	0.63	0.66	0.63	0.64	0.64	0.66	0.67	0.66	0.65	0.63
10	12	285	379.	0.80	0.68	0.64	0.68	0.65	0.66	0.68	0.67	0.63	0.65	0.63	0.67	0.66	0.64	0.64	0.61	0.67	0.65	0.65	0.63	0.64	0.65	0.65
10	13	286	0.64	0.63	0.64	0.65	0.64	0.63				0.91	0.66	0.62	0.62	0.65	0.64	0.64	0.62	0.64	0.63	0.64	0.66	0.63	0.63	0.67
10	14	287	0.62	0.59	0.64	0.67	0.62	0.64	0.62	0.64	0.64	0.64	0.67	0.64	0.65	0.65	0.66	0.66	0.62	0.64	0.62	0.64	0.65	0.63	0.63	0.63
10	15	288	0.64	0.64	0.66	0.63	0.63	0.64	0.64	0.64	21.9	242.	1.41	2.95	0.92	0.64	0.67	0.66	0.66	0.64	0.67	0.65	0.63	0.63	0.68	0.66
10	16	289	0.64	0.66	0.63	0.67	0.63	0.65	0.65	0.59	0.63	0.63		0.66	0.61	0.66	0.71	0.56	0.58	0.64	0.62	0.57		0.62	0.59	0.61
10	17	290	0.60	0.60	0.58	0.60	0.60	0.62	0.62	0.65	0.63	0.62	0.64	0.65	0.62	0.63		0.57	0.66		0.64	0.61	0.63	0.62	0.58	0.64
10	18	291		0.61	0.65	0.61	0.65	0.61	0.61	0.60	0.61	0.66	0.61	0.64	0.64	0.57	0.64	0.62	0.60	256.	3.59	0.61	0.62	0.63	0.62	0.64
10	19	292	0.65	0.63	0.62	0.60	0.62	0.61	0.61	0.64	0.62	0.63	0.59	0.61	0.62	0.62	0.62	0.63	0.62	0.64	0.62	0.65	0.59	0.61	0.66	0.62
10	20	293	0.63	0.62	0.62	0.63	0.64	0.60	0.64	0.63	0.65	0.56		0.65	0.64	0.63	0.62	0.62	0.60	0.64	0.61	0.60	0.67	0.64	0.62	0.61
10	21	294	0.64	0.64	0.63	0.61	0.64	0.61	0.65	0.62	0.65	0.64	0.66	0.63	0.64	0.64	0.62	0.65	0.64	0.63	0.64	0.67	0.65	0.66	0.65	0.66
10	22	295	0.63	0.63	52.7	0.83	0.67	0.68	0.63	0.64	0.61	0.65	0.64	0.67	0.66	0.65	0.62	0.67	0.64	0.63	0.64	0.67	0.63	0.65	0.64	0.64
10	23	296	0.61	0.62	0.65	0.57	0.62	0.59	0.63	0.62	0.66	0.65	0.56	0.63	0.63	0.62	0.66		0.65	0.63	0.65	0.63	0.63	0.60	0.63	0.64
10	24	297	0.62	0.63	0.62	0.61	0.64	0.63	0.62	0.62	0.60	0.64	0.62		0.59	0.62	0.63	0.62	0.62	0.64	0.63	0.63	0.60	0.68	0.64	0.64
10	25	298	0.64	0.65	0.66	0.60	0.64	0.65	0.66	0.63	0.66	0.61	0.59	955.	0.71	0.82	0.75	0.66	0.65	0.65	0.65	0.64	0.63	0.62	0.63	0.65
10	26	299	0.63	0.64	0.64	0.65	0.65	0.61	0.63	0.64	0.65	0.65	0.66	0.63		0.61	0.68	0.65	0.64	0.63	0.64	0.63	0.64	0.64	0.66	0.67
10	27	300	0.65	0.65	0.63	0.64	0.65	0.65	0.66	0.64	0.64	0.68	0.61	0.64	0.63	0.65	0.64	0.63	0.65	0.65	0.67	0.64	0.61	0.67	0.66	0.66
10	28	301	0.67	0.68	0.68	0.64	0.64	0.65	0.63	0.65	0.62	0.64	0.65	0.63	0.64	0.63	0.62	0.64	0.62	0.66	0.65	1.70	*****	0.68	0.66	0.67
10	29	302	0.63	0.66	0.64	0.68	0.65	0.62	0.63	0.64	0.63	0.66	0.66	0.62	0.66	0.63	0.63	0.64	0.65	0.62	0.63	0.65	0.63	0.65	0.66	0.65
10	30	303	0.64	0.61	0.66	0.68	0.67	0.62	0.64	0.62	0.62	0.63	0.63	0.64	0.64	0.67	0.63	0.63	0.66	0.62	0.63	0.66	0.59	0.61	0.64	0.65
10	31	304	0.62	0.63	0.65	0.65	0.62	0.61	0.63	0.67	0.63	0.64	0.63	0.65	0.64	0.64	0.65	0.65	0.65	0.66	0.66	0.66	0.65	0.66	0.65	0.63

SOLAR PROTONS BY SATELLITE
EXPLORER 41 (1969 53A)
OCTOBER 1970



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

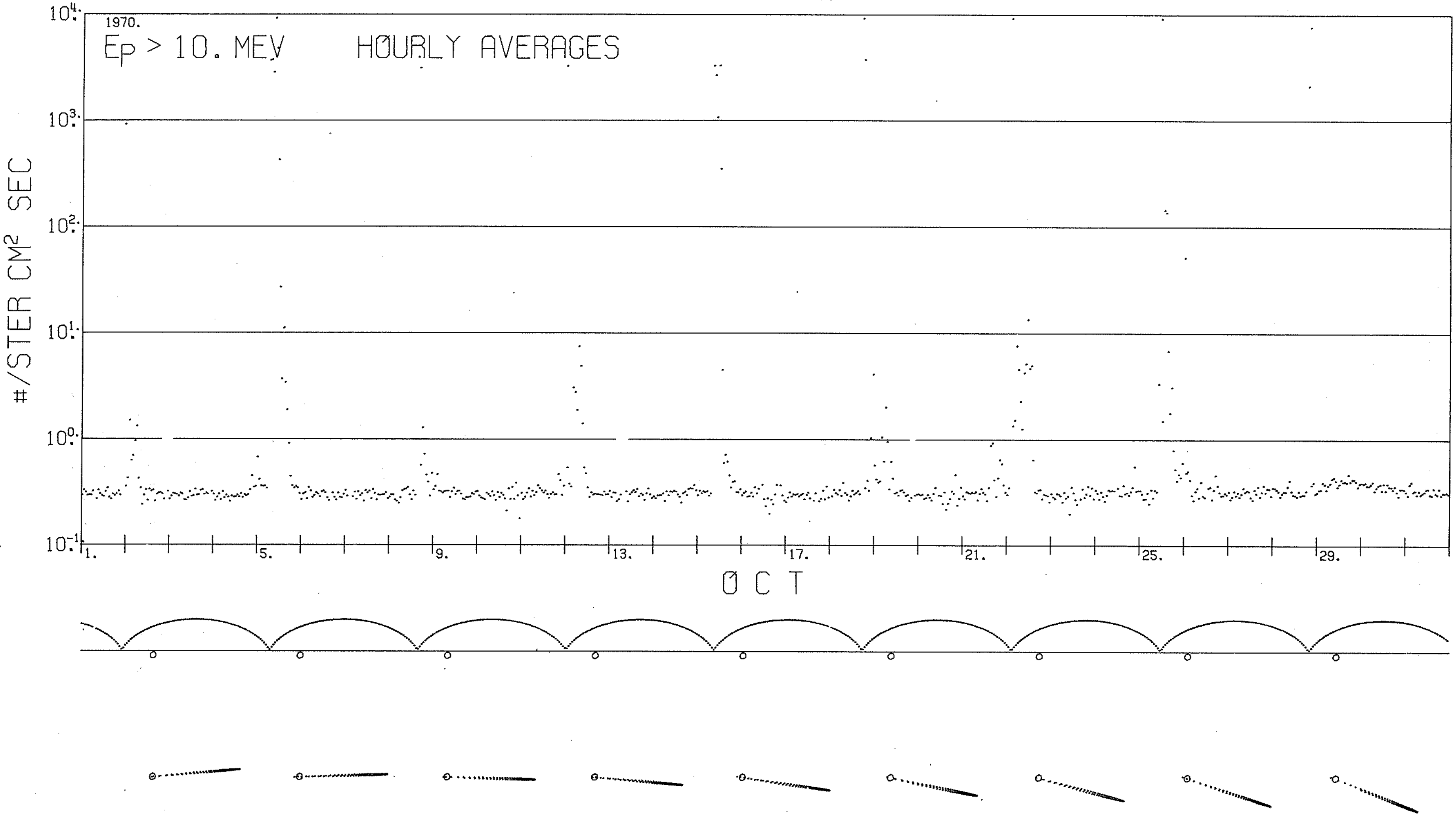
OCTOBER 1970

PROTON ENERGY GREATER THAN 10 MEV. HOURLY AVERAGES. IMPG SOLAR PROTON MONITOR. JHU/APL AND GSFC

YEAR 1970

DATE		DAY OF YEAR	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
10	1	274	0.30	0.33	0.31	0.29	0.30	0.29	0.32		0.27	0.33	0.30	0.29	0.29	0.32	0.35	0.28	0.27	0.30	0.29	0.30	0.32	0.30	12637	917.
10	2	275	0.36	0.43	1.50	0.63	0.70	0.96	1.33	0.42	0.34	0.24	0.30	0.33	0.26	0.34	0.32	0.33	0.26	0.30	0.31	0.31	0.30	0.27		0.32
10	3	276	0.27	0.29	0.31	0.32	0.30	0.29	0.31	0.30	0.27	0.26	0.28	0.32	0.29	0.29	0.34	0.30	0.30	0.33	0.33	0.30	0.31	0.30		0.32
10	4	277	0.30	0.26	0.28	0.31	0.27	0.32	0.28	0.30	0.28	0.26	0.29	0.28	0.28	0.30	0.29	0.31	0.28	0.30	0.29	0.30	0.33	0.45	0.35	0.36
10	5	278	0.68	0.42	0.36	0.36	0.36	0.34	3708	3749	2849	12231	4778	424.	27.0	3.67	11.2	3.41	1.88	0.91	0.44	0.36	0.35	0.36	0.35	0.31
10	6	279	0.27	0.30	0.31	0.27	0.35	0.33	0.28	0.29	0.31	0.30	0.29	0.32	0.33	0.31	0.28	0.26		0.31	0.28	0.27	0.31	0.28	0.28	0.30
10	7	280	0.33	0.29			0.29	0.32	0.27	0.32	0.29	0.31	0.26	0.33	0.31	0.32	0.27	0.34	0.31	0.27	0.30	0.30	0.30	0.30	0.31	0.27
10	8	281	0.28	0.30	0.30	0.27	0.26	0.25	0.28	0.33	0.34	0.34	0.35	0.30	0.27	0.32	0.30	3957	3116	0.57	1.29	0.72	0.46	0.39	0.29	0.48
10	9	282	0.33	0.36	0.46	0.32	0.32	0.31	0.32	0.32	0.32	0.28	0.32	0.35	0.30	0.32	0.32	0.30	0.27	0.27	0.28	0.28	0.29	0.31	0.30	0.32
10	10	283	0.32	0.29	0.28	0.27	0.27	0.31	0.30	0.29	0.32	0.29	0.27	0.32	0.28	0.31	0.30	0.27	0.21	0.34	0.27	0.35	0.27	0.39	0.29	0.18
10	11	284	0.31	0.27	0.28	0.31	0.34	0.29	0.32	0.29	0.32	0.36	0.34	0.33	0.31	0.33	0.30	0.28	0.30	0.31	0.30	0.30	0.47	0.41	0.36	0.36
10	12	285	3251	0.54	0.38	0.36	3.06	2.77	1.87	7.48	4.87	1.40	0.54	0.47	0.35	0.28	0.31	0.30	0.30	0.30	0.30	0.30	0.29	0.32	0.30	0.30
10	13	286	0.33	0.28	0.31	0.31	0.26	0.27	0.30			0.32	0.26	0.30	0.31	0.33	0.32	0.34	0.29	0.31	0.30	0.27	0.31	0.34	0.30	0.28
10	14	287	0.29	0.27	0.29	0.29	0.30	0.31	0.26	0.32	0.29	0.32	0.32	0.33	0.32	0.30	0.28	0.25	0.31	0.32	0.30	0.34	0.34	0.34	0.37	0.33
10	15	288	0.30	0.33	0.31	0.32	0.32	0.32	0.29	0.31	3285	2674	1071	3309	348.	4.49	0.59	0.72	0.61	0.45	0.35	0.40	0.40	0.32	0.31	0.34
10	16	289	0.30	0.31	0.32	0.29	0.29	0.31	0.29	0.35	0.31	0.34		0.37	0.27	0.23	0.28	0.20	0.27	0.24	0.30	0.37		0.37	0.30	0.26
10	17	290	0.25	0.28	0.32	0.29	0.30	0.30	0.30	0.29	0.30	0.31	0.27	0.30	0.31	0.28		0.26	0.31		0.26	0.28	0.33	0.27	0.36	0.28
10	18	291		0.29	0.34	0.31	0.30	0.33	0.29	0.39	0.31	0.30	0.27	0.29	0.33	0.30	0.31	0.33	0.30	11557	3733	0.35	0.41	0.33	1.04	4.11
10	19	292	0.57	0.42	0.39	0.40	1.05	0.62	2.01	0.95	0.34	0.62	0.43	0.31	0.32	0.30	0.33	0.33	0.32	0.29	0.30	0.26	0.28	1.11	0.29	0.30
10	20	293	0.30	0.30	0.30	0.28	0.28	0.30	0.28	0.27	0.31	0.35		0.30	0.29	0.25	0.32	0.22	0.25	0.28	0.33	0.31	0.46	0.24	0.28	0.35
10	21	294	0.29	0.27	0.32	0.31	0.31	0.32	0.31	0.32	0.27	0.31	0.34	0.32	0.30	0.26	0.35	0.87	0.93	0.41	0.29	0.43	0.64	0.59	0.37	0.32
10	22	295	0.30	0.35	18930	1.34	1.53	7.62	4.54	2.29	1.25	4.25	5.19	13.5	4.66	4.95	0.64	0.32	0.31	0.33	0.33	0.27	0.30	0.30	0.29	0.26
10	23	296	0.31	0.29	0.28	0.31	0.30	0.29	0.26	0.32	0.28	0.29	0.20	0.36	0.31	0.27	0.24		0.27	0.34	0.28	0.31	0.36	0.30	0.35	0.28
10	24	297	0.33	0.31	0.27	0.32	0.29	0.26	0.30	0.33	0.33	0.33	0.33		0.35	0.30	0.29	0.37	0.31	0.31	0.30	0.32	0.36	0.56	0.33	0.33
10	25	298	0.33	0.31	0.27	0.28	0.31	0.25	0.34	0.28	0.33	0.32	3.34	11385	1.50	145.	136.	6.81	1.77	3.10	0.79	0.53	0.41	0.47	0.44	0.60
10	26	299	51.9	0.49	0.50	0.42	0.30	0.27	0.33	0.35	0.28	0.40	0.29	0.29		0.35	0.36	0.27	0.34	0.46	0.37	0.32	0.30	0.30	0.31	0.30
10	27	300	0.32	0.27	0.29	0.33	0.30	0.32	0.29	0.31	0.35	0.32	0.33	0.32	0.29	0.27	0.34	0.31	0.36	0.29	0.32	0.37	0.32	0.35	0.34	0.29
10	28	301	0.35	0.35	0.34	0.33	0.29	0.31	0.32	0.32	0.36	0.41	0.33	0.30	0.30	0.29	0.32	0.30	0.30	0.30	0.33	2137	7676	0.37	0.39	0.31
10	29	302	0.32	0.34	0.34	0.39	0.38	0.34	0.37	0.39	0.43	0.44	0.41	0.36	0.38	0.42	0.40	0.40	0.39	0.47	0.40	0.42	0.42	0.40	0.36	0.38
10	30	303	0.39	0.38	0.39	0.37	0.37	0.38	0.40	0.33	0.35	0.37	0.38	0.33	0.39	0.33	0.38	0.36	0.36	0.34	0.36	0.32	0.29	0.34	0.34	0.34
10	31	304	0.32	0.30	0.38	0.40	0.32	0.33	0.30	0.33	0.30	0.31	0.32	0.34	0.34	0.30	0.30	0.35	0.31	0.30	0.34	0.30	0.31	0.31	0.32	0.31

SOLAR PROTONS BY SATELLITE
EXPLORER 41 (1969-53A)
OCTOBER 1970



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