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(Comprehensive Reports)

NUMBER 321-PART II
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NOVEMBER 1970
OCTOBER 1970
& MISCELLANEA

DATA COMPILED BY AERONOMY AND SPACE DATA CENTER
BOULDER, COLORADO

WASHINGTON, D.C.
MAY 1971

SOLAR-GEOPHYSICAL DATA

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SOLAR FLARES
Confirmed
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OBSERVATORY	OBSERVED UT DATE 1970 NOV	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
GRP34554	01	0141	0152	0143	N23	E60	.872	11018	5.6	11	--F				.53				2 2 2 4
VORO	01	0141	0148	0143	N26	E60	.876	11018	5.6	7	-F		C	0143	.65	1.30		74	EJ
CRON	01	0146	0155		N20	E60	.869	11018	5.6	9	-N		V		.41				
GRP34556	01	0213	0255	0230	N15	W48	.747	11002	28.5	42	1N				1.62				3 3 3 4
CRON	01	0207	0232	0210	N15	W51	.780	11002	28.3	25	-N		V		.41				
CULG	01	0210	0318	0231	N17	W47	.740	11002	28.6	68	1N		C	0231	2.17	3.15			
VORO	01	0222	0238	0229	N13	W47	.733	11002	28.6	16	1N		C	0229	1.66	2.40		77	EJ
CRON	01	0231	0249		N16	W48	.749	11002	28.5	18	-N		V		1.03				
557 CRON	01	0349	0358	0350	N16	W34	.578	11002	29.6	9	--N	1	C	0350	.11	.13			2
GRP34558	01	0547	0614	0555	S10	E13	.332	11012	2.2	27	--F				.55				2 2 2 2
TEHR	01	0541	0618	0555	S10	E13	.332	11012	2.2	37	-F		C		.27				DE
CRON	01	0553	0610	0555	S10	E13	.332	11012	2.2	17	-F		V		.83				
559 CRON	01	0553	0603		S09	E19	.394	11012	2.7	10	--F		V		.62				2
560 TEHR	01	0602	0610	0604	N18	E37	.625	11014	4.0	8	--F		C		.36				DE 2
GRP34562	01	0656	0742	0701	S09	E14	.331	11012	2.3	46	-N				1.54				6 6 6 6
TEHR	01	0653	0752	0700	S09	E14	.331	11012	2.3	59	-N		C		1.27				FDE
CATA	01	0655	0745	0700	S10	E12	.321	11012	2.2	50	-B			0700	1.44	1.52		211	
CATA	01	0655	0745	0710	S08	E18	.372	11012	2.6	50	-N			0710	.93	1.00		168	
CRON	01	0655	0725	0701	S11	E12	.334	11012	2.2	30	-N	1	C	0701	.67	.68			
TACH	01	0657	0734	0700	S09	E15	.343	11012	2.4	37	1N		C	0700	2.37	2.53	1.60	63	E
CAPE	01	0658	0730	0702	S09	E13	.320	11012	2.3	32	-N		C	0702	1.24	1.30			
BUCA	01	0700	0755		S09	E12	.308	11012	2.2	55	-F		P	0700	1.99	2.00			B
CRON	01	0700	0736	0705	S09	E19	.394	11012	2.7	36	-N	1	C	0705	.23	.23			
GRP34563	01	0932	0951	0942	S10	E12	.321	11012	2.3	19	--F				.40				2 2 2 6
MONT	01	0927	0949	0941	S10	E12	.321	11012	2.3	22	-N		C	0941	.52				
TEHR	01	0937	0953	0942	S10	E11	.311	11012	2.2	16	-F		C		.27				DE
GRP34564	01	1000	1010	1004	S11	E09	.306	11012	2.1	10	--F				1.14				2 2 2 6
CANR	01	0958	1010	1002	S11	E08	.298	11012	2.0	12	-F	2	C	1002	.21	.21			
MONT	01	1001	1009	1006	S11	E09	.306	11012	2.1	8	-N		C	1006	2.06				
GRP34568	01	1143	1151	1145	S12	E07	.306	11012	2.0	8	--F				.34				2 2 2 6
RAMY	01	1142	1150	1145	S12	E07	.306	11012	2.0	8	-F		C		.36				DE
CANR	01	1143	1152	1145	S11	E07	.291	11012	2.0	9	-F	2	C	1145	.32	.32			
GRP34570	01	1205	1221	1206	N17	E34	.582	11014	4.1	16	--F				.24				2 2 2 6
TEHR	01	1204	1224	1206	N18	E33	.574	11014	4.0	20	-F		C		.27				DEH
CANR	01	1205	1218	1206	N16	E34	.578	11014	4.1	13	-F	2	C	1206	.21	.26			
CANR	01	1205	1218	1212	N16	E34	.578	11014	4.1	13	-F	2	C	1212	.21	.26			
6 STATIONS REPORTING GROUP 34571. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34571	01	1211	1343	1247	N16	W50	.771	11002	28.8	92	1B				1.28				5 5 5 5
CAPE	01	1210	1320D	1251	N16	W50	.771	11002	28.8	70D	1B			1251	1.56	2.40			
RAMY	01	1210	1345	1243	N16	W48	.749	11002	28.9	95	1B		C		.72				F
CATA	01	1210	1340	1246	N17	W51	.783	11002	28.7	90	1B			1246	1.62	2.64		251	
CANR	01	1213	1310D	1250	N15	W50	.769	11002	28.8	57D	1B	2	C	1250	1.94	3.05			
TEHR	01	1228	1323D	1243	N16	W50	.771	11002	28.8	55D	-N		C		.57				UF
34571	01	1211	1315	1216	N15	W49	.758	11002	28.8	64	*-N				1.06				5 5 5 6
RAMY	01	1154	1210	1154	N15	W40	.653	11002	29.5	16	-F		C		.31				DE
CAPE	01	1210	1320D	1216	N16	W50	.771	11002	28.8	70D	1B		P	1216	1.64	2.80			HK
RAMY	01	1210	1345	1216	N16	W48	.749	11002	28.9	95	-N		C		1.03				
TEHR	01	1211	1223	1215	N16	W52	.791	11002	28.6	12	-N		C		1.00				DEH
ZURI	01	1213	1218	1214	N16	W52	.791	11002	28.6	5	-N		C	1214	1.09	1.80			
CANR	01	1213	1310D	1217	N14	W49	.757	11002	28.8	57D	-N	2	C	1217	.54	.83			
577 RAMY	01	1521	1539	1524	S09	E08	.269	11012	2.2	18	--N		C		.41				DE 3
GRP34579	01	1631	1647	1637	N23	E54	.822	11018	5.7	16	--F				.31				2 2 1 4
LOCK	01	1630	1650	1640	N23	E54	.822	11018	5.7	20	-F		C						H
RAMY	01	1632	1643	1633	N23	E53	.813	11018	5.7	11	-F		C		.31				DE
583 LOCK	01	2113	2125	2117	S08	W81	.990	11000	26.8	12	--F		C						H 3
GRP34585	01	2148	2206	2151	S12	E85	.998	11019	8.3	18	--F				.41				3 3 2 3
LOCK	01	2147	2207	2151	S11	E81	.990	11019	8.0	20	-F		C						
HUAN	01	2148	2153D	2150U	S13	E88	1.000	11019	8.5	5D	-F	1	P	2150	.25				D
PALE	01	2150	2205	2153	S13	E86	.999	11019	8.4	15	-N		C		.56				
586 PALE	01	2202	2225	2206	S11	W80	.988	11000	26.9	23	--F		C		.44				2

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OBSERV-ATORY	OBSERVED UT DATE 1970 NOV	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
GRP34590	02	0321	0351	0336	S12	E79	.985	11019	8.1	30	1N				1.12				3 3 3 6
CULG	02	0312	0358	0337	S13	E79	.986	11019	8.1	46	1N		C	0337	1.65				R
CRON	02	0325	0350		S11	E80	.988	11019	8.1	25	1F		V		1.34				
TEHR	02	0327	0346	0334	S12	E78	.982	11019	8.0	19	-N		C		.36				DE
GRP34591	02	0410	0459	0426	S11	E77	.979	11019	7.9	49	-N				.92				5 5 5 7
TEHR	02	0404	0452	0422	S09	E75	.970	11019	7.8	48	-N		C		.55				DE
MITK	02	0405	0437D	0428	S12	E75	.972	11019	7.8	32D	1N		C	0428	1.03				E
CULG	02	0412E	0520	0430	S13	E75	.972	11019	7.8	68D	1N		P	0430	1.86				RU
CRON	02	0418	0445	0424	S12	E73	.963	11019	7.7	27	-N	1	C	0424	.33				
CRON	02	0420	0428		S13	E85	.998	11019	8.6	8	-N		V		.31				
MANI	02	0421E	0442D		S10	E79	.985	11019	8.1	21D	-B	1		0423	.83	2.10			
GRP34592	02	0422	0434	0427	N16	W45	.716	11002	29.8	12	--N				.56				5 5 5 7
TEHR	02	0420	0434	0424	N14	W45	.712	11002	29.8	14	-N		C		.28				DE
CRON	02	0420	0433	0429	N17	W44	.706	11002	29.9	13	-N	1	C	0429	.23	.31			
MANI	02	0421E	0436		N18	W42	.686	11002	30.0	15D	-B	1		0423	.83	1.16			
MITK	02	0424	0430D	0428	N17	W46	.729	11002	29.7	6D	-N		C	0428	.52	.70			D
VORO	02	0424	0432	0427	N14	W45	.712	11002	29.8	8	-F		C	0427	.93	1.30		81	DH
CRON	02	0433	0437		N15	W46	.725	11002	29.7	4	-F		V		.21				
GRP34594	02	0452	0540	0500	N02	W66	.913	11015	28.3	48	1N				1.34				5 4 4 6
TEHR	02	0450	0553	0457	N01	W65	.906	11015	28.3	63	-N		C		.73				FS
CULG	02	0451	0549D	0507	N05	W66	.912	11015	28.3	58D	2N		P	0507	2.89				RSU
CRON	02	0453	0535	0500	N03	W66	.913	11015	28.3	42	1N	1	C	0500	1.00				
VORO	02	0453	0521	0456	S01	W65	.907	11015	28.3	28	-F		C	0456	.74	1.60		75	EJ
SIBE	02	0501E	0530	0508	N05	W70	.938	11015	28.0	29D	1F		C	0508	1.25	3.70		61	EJ
GRP34597	02	0810	0841	0811	N15	W47	.737	11002	29.8	31	-N				1.21				2 2 2 8
MONT	02	0809E	0841	0812	N15	W46	.725	11002	29.9	32D	-N		C	0812	2.27				
CATA	02	0810	0815D	0810	N15	W47	.737	11002	29.8	5D	-N			0810	.14	.22		199	
GRP34598	02	0835	0851	0837	S13	E08	.326	11012	3.0	16	-N				.93				7 7 6 7
CANR	02	0833	0855	0837	S14	E10	.355	11012	3.1	22	-N	2	C	0837	.64	.69			
MONT	02	0834	0851	0839	S12	E12	.345	11012	3.3	17	-N		C	0839	2.06				
MONT	02	0834	0854	0838	S15	E08	.356	11012	3.0	20	-N		C	0838	.77				
TEHR	02	0835	0849	0837	S13	E10	.341	11012	3.1	14	-N		C		.28				DE
CATA	02	0835	0905	0835	S13	E10	.341	11012	3.1	30	-N			0835	.93	.99		182	
CRON	02	0835	0850	0837	S13	E08	.326	11012	3.0	15	-N	1	C	0837	.33	.34			
ISTA	02	0835	0835		S10	E02	.249	11012	2.5		-B								
CRIM	02	0837E	0853D		S14	E08	.341	11012	3.0	16D	-F		P	0838	1.35	1.40			E
GRP34599	02	0854	0907	0857	S13	E79	.986	11019	8.3	13	-N				1.01				3 3 3 7
TEHR	02	0852E	0901	0855	S10	E77	.978	11019	8.1	9D	-N		C		.45				DE
MONT	02	0853	0911	0859	S16	E81	.992	11019	8.4	18	-N		C	0859	1.55				
CRON	02	0857	0910		S12	E80	.988	11019	8.4	13	1F		V		1.03				
GRP34604	02	1214	1254	1223	S13	E73	.964	11019	8.0	40	-N				1.25				4 4 4 5
RAMY	02	1213	1256	1226	S13	E73	.964	11019	8.0	43	-N		C		.83				DE
HUAN	02	1214	1316	1234U	S17	E80	.990	11019	8.5	62	-F	1	C	1234	.45				E
CANR	02	1215	1258	1218	S12	E73	.963	11019	8.0	43	-N	2	C	1218	.64				
ABST	02	1216E	1240D	1227	S10	E70	.946	11019	7.8	24D	1N		P	1227	2.43			66	FK
HUAN	02	1216	1248	1221	S13	E74	.968	11019	8.1	32	1F	1	C	1221	1.08				E
GRP34607	02	1441	1502	1446	S15	E74	.969	11019	8.2	21	--F				.45				3 3 2 7
CANR	02	1439	1505		S12	E70	.948	11019	7.9	26	-F	3	V			1.50			
RAMY	02	1440	1459	1442	S16	E75	.974	11019	8.2	19	-F		C		.52				DE
HUAN	02	1445	1452D	1450U	S17	E76	.978	11019	8.3	7D	-F	2	P	1450	.37				E
GRP34609	02	1553	1606	1555	N16	W53	.802	11002	29.7	13	--N				.38				4 4 4 4
RAMY	02	1552	1607	1554	N16	W52	.792	11002	29.8	15	-N		C		.36				DE
CANR	02	1553	1606	1555	N17	W52	.793	11002	29.8	13	-N	2	C	1555	.54	.88			
HUAN	02	1555E	1602D	1555U	N15	W54	.811	11002	29.6	7D	-B	2	P	1555	.31	.50			E
BOUL	02	1557E	1605	1557U	N14	W52	.789	11002	29.8	8D	-N	2	C	1557	.32	.53			
GRP34611	02	1604	1614	1606	S13	E73	.964	11019	8.1	10	--F				.45				2 2 2 5
RAMY	02	1603	1613	1605	S12	E73	.963	11019	8.1	10	-F		C		.62				DE
HUAN	02	1604	1615	1606	S13	E72	.959	11019	8.1	11	-N	2	P	1606	.28				E
GRP34612	02	1732	1749	1736	S14	E72	.960	11019	8.1	17	--F				.37				2 2 2 4
BOUL	02	1732	1744U	1738U	S14	E72	.960	11019	8.1	12D	-F	1	C	1738	.22				
RAMY	02	1732	1749	1734	S13	E72	.959	11019	8.1	17	-F		C		.52				DE
GRP34613	02	1807	1836	1822	N09	W76	.968	11015	28.1	29	1N				1.27				4 4 3 4
RAMY	02	1805	1836	1820	N10	W75	.964	11015	28.1	31	1N		C		1.46				DE
LOCK	02	1808	1835	1822	N09	W76	.968	11015	28.1	27	1N		C						
PALE	02	1808	1836	1824	N08	W75	.964	11015	28.1	28	1N				1.70				
PALE	02	1808	1836	1812	N08	W75	.964	11015	28.1	28	-N		C		.83				F
BOUL	02	1820U	1832U	1821U	N10	W76	.968	11015	28.1	12D	1N	1	C	1821	.64				

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	NOV																		
GRP34615	02	1833	1905	1838	S11	E70	.947	11019	8.0	32	--F				.54				2 2 2 4
RAMY	02	1832	1915	1837	S12	E70	.948	11019	8.0	43	-F		C		.72				DE
PALE	02	1834	1855	1838	S10	E70	.946	11019	8.0	21	-F		V		.36				F
GRP34616	02	1858	1912	1901	S09	E69	.940	11019	8.0	14	-N				.78				3 3 2 4
RAMY	02	1832	1915	1857	S12	E70	.948	11019	8.0	43	-N		C		.83				
BOUL	02	1858	1903	1902	S07	E68	.932	11019	7.9	5	-N	1	V						
PALE	02	1858	1917	1903	S09	E69	.940	11019	8.0	19	-N		V		.72				F
GRP34617	02	1920	1935	1923	S11	W07	.289	11012	2.3	15	--N				.90				4 4 3 4
LOCK	02	1918	1934	1923	S11	W07	.289	11012	2.3	16	-N		C						
RAMY	02	1920	1935	1923	S11	W06	.283	11012	2.4	15	-N		C		1.03				DE
PALE	02	1921	1935	1925	S12	W08	.311	11012	2.2	14	-N		V		1.03				F
BOUL	02	1922E	1929D	1922E	S10	W06	.267	11012	2.4	7D	-N	1	C	1922	.64	.64			
GRP34618	02	2015	2032	2016	S10	E67	.929	11019	7.9	17	--F				.11				2 1 1 4
BOUL	02	2015U	2032D	2016U	S10	E67	.929	11019	7.9	17D	-F	1	C	2016	.11				
PALE	02	2022	2036	2027	S11	E64	.910	11019	7.6	14	-F		C		.31				H
620 RAMY	02	2103	2110	2105	N16	W68	.925	11002	28.8	7	--N		C		.31				DE 3
621 PALE	02	2125E	2144	2125E	S08	E70	.945	11019	8.1	19D	--F		C		.26				F 2
622 LOCK	02	2158	2212	2201	N19	E14	.343	11014	4.0	14	-N		C						1
GRP34623	02	2244	2255	2247	S33	E21	.673	11013	4.5	11	--F				.46				2 2 1 3
LOCK	02	2243	2250	2245	S33	E21	.673	11013	4.5	7	-F		C						
PALE	02	2245	2300	2249	S33	E20	.667	11013	4.4	15	-F		C		.46				
GRP34624	02	2255	2335	2312	S15	E67	.934	11019	8.0	40	-F				1.44				2 2 1 3
CULG	02	2255	2349	2311	S15	E67	.934	11019	8.0	54	1N		C	2311	1.44				
LOCK	02	2255	2309	2301	S11	E66	.923	11019	7.9	14	-F		C						
LOCK	02	2310	2320	2312	S18	E69	.949	11019	8.1	10	-F		C						
GRP34625	02	2355	0004	2357	S12	W09	.319	11012	2.3	9	--N				.74				3 3 2 4
LOCK	02	2353	0005	2357	S12	W10	.327	11012	2.2	12	-N		C						
MITK	02	2355	0003	2356	S12	W10	.327	11012	2.2	8	-N		C	2356	.83	.80			E
PALE	02	2357	0000D	2359	S12	W08	.311	11012	2.4	3D	-N		C		.65				F
4 STATIONS REPORTING GROUP 34626. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34626	03	0154	0211	0156	S09	W10	.285	11012	2.3	17	-N				.92				4 4 4 5
VORO	03	0153	0202	0155	S09	W08	.266	11012	2.5	9	-F		C	0155	.56	.60		86	E
MANI	03	0154E	0213D	0156	S10	W11	.308	11012	2.3	19D	-B	1		0156	1.13	1.18			
MITK	03	0154	0214	0155	S09	W12	.306	11012	2.2	20	-N		C	0155	.93	.90			E
PALE	03	0156E	0215D	0156E	S08	W09	.261	11012	2.4	19D	-N		C		1.07				DE
626 MANI	03	0156	0213D	0159	S06	W02	.180	11012	2.9	17D	*-N	1		0159	.41	.42			6
GRP34629	03	0505	0535	0512	N20	E34	.597	11018	5.8	30	-N				.93				5 5 5 5
TEHR	03	0503	0533	0507	N22	E35	.620	11018	5.8	30	-N		C		.36				F
CULG	03	0504	0551D	0516	N20	E37	.634	11018	6.0	47D	1N		P	0516	1.75	2.21			
CRON	03	0505	0525	0511	N19	E31	.555	11018	5.5	20	-N	1	C	0511	.56	.65			
TACH	03	0506	0530	0509	N21	E33	.590	11018	5.7	24	-N		C	0509	.83	1.01	1.87	66	E
MANI	03	0509E	0534	0517	N19	E32	.567	11018	5.6	25D	-N	2		0517	1.13	1.86			
5 STATIONS REPORTING GROUP 34633. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34633	03	0800	0913	0848	S12	E58	.865	11019	7.7	73	-N				1.44				3 3 2 6
BUCA	03	0755	0920		S12	E60	.881	11019	7.8	85	1N		P	0855	2.21	4.60			
ISTA	03	0805	0900		S11	E58	.863	11019	7.7	55	-B								
CRON	03	0845	0920U	0848U	S13	E56	.850	11019	7.6	35D	-N	1	C	0847	.67	1.22			
34633	03	0753	0910	0801	S12	E60	.881	11019	7.8	77	*-B				.40				2 2 2 6
CRON	03	0750	0835U	0756U	S11	E60	.880	11019	7.8	45D	-N	1	C	0756	.33	.68			
CATA	03	0755	0910	0805	S12	E59	.873	11019	7.8	75	-B			0805	.46	1.02		216	
34633	03	0837	0905	0839	S11	E57	.855	11019	7.6	28	*-N				.36				2 2 1 6
TEHR	03	0835	0904	0839	S11	E59	.872	11019	7.8	29	-F		C		.36				DE
ISTA	03	0838	0905		S10	E55	.835	11019	7.5	27	-B								
GRP34638	03	1200	1218	1208	N18	W73	.954	11002	29.0	18	--F				1.19				2 2 2 5
RAMY	03	1200	1219	1204	N17	W73	.954	11002	29.0	19	-F		C		.83				DE
MONT	03	1205E	1217	1211	N19	W73	.954	11002	29.0	12D	-N		C	1211	1.55				
GRP34640	03	1306	1319	1310	N19	E31	.555	11018	5.9	13	--N				.41				3 3 3 5
RAMY	03	1304	1305	1305	N20	E28	.523	11018	5.6	1	-F		C		.46				DE
CANR	03	1305	1323	1309	N19	E36	.617	11018	6.2	18	-N	2	C	1309	.43	.51			
CATA	03	1310	1330	1315	N18	E29	.523	11018	5.7	20	-N			1315	.34	.41		162	

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	DATE 1970 NOV	START	END	MAX. PHASE	APPROX. LAT.	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. %	
GRP34641	03	1437	1451	1443	S10	W16	.364	11012	2.4	14	--F				.72				3 3 3 5
RAMY	03	1437	1452	1442	S11	W16	.375	11012	2.4	15	-F		C		.52				DE
MONT	03	1437	1449	1444	S10	W16	.364	11012	2.4	12	-N		C	1444	1-13				
CAPS	03	1444E	1453D		S10	W16	.364	11012	2.4	9D	-F	2	V	1446	.50	.50			
3 STATIONS REPORTING GROUP 34642. 3 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34642	03	1450	1544	1459	S12	E56	.848	11019	7.8	54	--F				1.40				2 2 2 6
MONT	03	1444	1505D	1459	S12	E53	.820	11019	7.6	21D	-N		C	1459	2.27				
RAMY	03	1455	1544	1459	S12	E59	.873	11019	8.0	49	-F		C		.52				DE
34642	03	1455	1544	1513	S12	E60	.881	11019	8.1	49	*-F				.56				2 2 2 4
RAMY	03	1455	1544	1513	S12	E59	.873	11019	8.0	49	-F		C		.52				
CAPS	03	1500E	1520D		S12	E60	.881	11019	8.1	20D	-F	1	V	1513	.60	1.40			
643 RAMY	03	1513	1523	1517	N20	E27	.510	11018	5.7	10	--F		C		.41				DE 3
GRP34644	03	1621	1642	1624	S14	E57	.861	11019	8.0	21	-N				.70				3 3 2 4
HUAN	03	1616E	1652	1624	S11	E57	.855	11019	8.0	36D	-N	1	C	1624	.25	.47			E
RAMY	03	1618	1647	1624	S13	E57	.859	11019	8.0	29	-N		C		.93				F
HUAN	03	1623	1637	1625	S16	E59	.881	11019	8.1	14	-F	1	C	1625	.21	.44			E
CANR	03	1625E	1625D		S15	E55	.846	11019	7.8		-N	2	V			1.70			
GRP34646	03	1639	1657	1643	N18	E04	.248	11014	4.0	18	-N				.96				3 3 2 4
RAMY	03	1637	1657	1641	N18	E04	.248	11014	4.0	20	-N		C		1.57				DE
HUAN	03	1640	1654	1642	N17	E03	.227	11014	3.9	14	-N	1	C	1642	.35	.36			E
LOCK	03	1645E	1700	1645E	N18	E04	.248	11014	4.0	15D	-F		C						
GRP34647	03	1646	1659	1649	N20	E25	.485	11018	5.6	13	--F				.93				2 2 1 4
RAMY	03	1645	1657	1648	N20	E25	.485	11018	5.6	12	-N		C		.93				DE
LOCK	03	1646	1700	1650	N20	E25	.485	11018	5.6	14	-F		C						
GRP34648	03	1726	1742	1729	N21	E24	.481	11018	5.5	16	--N				.43				4 4 2 6
LOCK	03	1723	1740	1729	N20	E25	.485	11018	5.6	17	-F		C						
BOUL	03	1726	1739	1728	N22	E22	.466	11018	5.4	13	-N	2	V						
HUAN	03	1727	1747	1730	N19	E25	.478	11018	5.6	20	-N	1	C	1730	.31	.35			E
PALE	03	1729	1730D	1730	N21	E24	.481	11018	5.5	1D	-N		C		.55				DE
GRP34649	03	1759	1812	1803	N20	E25	.485	11018	5.6	13	--F				.25				4 4 3 5
HUAN	03	1758	1811D	1802	N19	E25	.478	11018	5.6	13D	-F	1	P	1802	.28	.32			E
LOCK	03	1800	1807	1802	N19	E24	.465	11018	5.6	7	-F		C						
BOUL	03	1800U	1820U	1802U	N19	E25	.478	11018	5.6	20D	-F	1	C	1802	.22	.25			
PALE	03	1804E	1808	1805U	N21	E25	.493	11018	5.6	4D	-F		V		.26				F
GRP34651	03	1854	1909	1857	S11	W19	.411	11012	2.4	15	--F				.56				4 4 3 4
PALE	03	1854	1911	1856	S11	W19	.411	11012	2.4	17	-N		C		.63				DE
BOUL	03	1854	1903U	1857	S11	W19	.411	11012	2.4	9D	-F	1	C	1857	.32	.35			
LOCK	03	1854	1904D	1900	S12	W19	.421	11012	2.4	10D	-F		C						
RAMY	03	1856E	1906	1856U	S11	W19	.411	11012	2.4	10D	-N		C		.72				DE
654 PALE	03	2049	2101	2051	N20	E22	.448	11018	5.5	12	--N		C		.32				F 3
GRP34657	04	0046	0132	0058	S12	E48	.770	11019	7.6	46	--F				.60				2 2 2 4
MANI	04	0046	0124	0058	S11	E46	.745	11019	7.5	38	-N	2		0058	.52	.77			
CRON	04	0048U	0140U	0058U	S12	E49	.780	11019	7.7	52D	-F	1	C	0058	.67	1.03			
GRP34658	04	0444	0501	0448	N20	E20	.425	11018	5.7	17	--N				.31				2 2 2 3
TEHR	04	0444	0501	0446	N21	E19	.423	11018	5.6	17	-N		C		.28				DE
CRON	04	0448E	0500	0449U	N19	E20	.416	11018	5.7	12D	-N	1	C	0448	.33	.36			
GRP34659	04	0514	0537	0521	N17	W03	.229	11014	4.0	23	--F				.54				3 3 3 3
TEHR	04	0511	0540	0518	N17	W05	.239	11014	3.8	29	-N		C		.55				DE
MANI	04	0512E	0537	0524	N18	W02	.243	11014	4.1	25D	-F	2		0524	.62	.65			
CRON	04	0519	0535	0521U	N17	W02	.226	11014	4.1	16	-F	1	C	0521	.44	.43			
GRP34661	04	0657	0718	0659	N20	E19	.413	11018	5.7	21	--N				.75				3 3 3 6
TEHR	04	0654	0714	0658	N20	E18	.402	11018	5.6	20	-N		C		.36				DE
CATA	04	0655	0715	0700	N19	E19	.404	11018	5.7	20	-N			0700	.80	.89		162	
BUCA	04	0702	0725		N20	E20	.425	11018	5.8	23	-N		P	0705	1.10	1.20			B
GRP34664	04	0955	1011	0959	N19	E15	.357	11018	5.5	16	-N				1.15				6 6 6 10
CATA	04	0955	1015	1000	N18	E15	.346	11018	5.5	20	-N			1000	.63	.68		162	
TEHR	04	0955	1010	0957	N20	E14	.358	11018	5.5	15	-N		C		.51				F
MONT	04	0955	1009	0959	N16	E17	.350	11018	5.7	14	-N		C	0959	2.27				
HTPR	04	0956	1007	1001	N20	E15	.368	11018	5.5	11	-F		C	1001	.72	.80			E
CAPS	04	0957E	1013D		N18	E15	.346	11018	5.5	16D	-F	2	V	0958	1.50	1.60			
CAPF	04	0957E	1010D		N20	E15	.368	11018	5.5	13D	-N		P	1002	1.24	1.32			H

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GRP34665	04	1043	1101	1046	N19	E17	.380	11018	5.7	18	--N				.75				6 6 6 9
CANR	04	1040	1057	1043	N21	E18	.412	11018	5.8	17	-N	2	C	1043	.64	.71			
TEHR	04	1040	1111	1043	N20	E16	.379	11018	5.6	31	-N		C		.45				SF
CAPE	04	1042	1100	1048	N20	E16	.379	11018	5.6	18	-N		C	1048	1.16	1.30			
HTPR	04	1043	1101	1048	N20	E18	.402	11018	5.8	18	-F		C	1048	.52	.50			E
CATA	04	1045	1105	1050	N13	E17	.326	11018	5.7	20	-N			1050	.75	.82		182	
ZURI	04	1045	1052	1046	N20	E16	.379	11018	5.6	7	-N		C	1046	.95	1.00			
GRP34667	04	1149	1200	1152	S12	W29	.545	11012	2.3	11	--N				.56				4 3 3 8
TEHR	04	1148	1200	1151	S12	W29	.545	11012	2.3	12	-N		C		.28				DE
HTPR	04	1149	1159	1152	S11	W30	.551	11012	2.2	10	-F		C	1152	.62	.70			
CANR	04	1149	1159	1152	S05	W17	.330	11012	3.2	10	-N	2	C	1152	.43	.46			
ZURI	04	1151	1152D	1152	S12	W29	.545	11012	2.3	1D	-N		P	1152	.79	.90			
GRP34668	04	1232	1305	1238	S09	E44	.717	11019	7.8	33	--F				.33				4 4 3 9
TEHR	04	1232	1320D	1236	S09	E43	.705	11019	7.7	48D	-N		C		.36				F
RAMY	04	1232	1248	1239	S09	E40	.669	11019	7.5	16	-F		C		.21				DE
CANR	04	1232	1235D		S10	E46	.742	11019	8.0	3D	-N	2	V			.80			
HTPR	04	1233	1306	1239	S08	E45	.725	11019	7.9	33	-F		C	1239	.41	.60			
GRP34669	04	1252	1327	1300	S09	E45	.728	11019	7.9	35	--N				.43				6 5 4 8
TEHR	04	1232	1320	1256	S09	E43	.705	11019	7.7	48	-B		C		.73				
RAMY	04	1249	1328	1253	S09	E46	.739	11019	8.0	39	-N		C		.52				DE
CATA	04	1255	1325	1305	S11	E44	.723	11019	7.8	30	-N			1305	.29	.42		174	
HURB	04	1300E	1311D	1301	S08	E47	.748	11019	8.1	11D	1F						1.75		
HUAN	04	1303E	1336	1305U	S10	E46	.742	11019	8.0	33D	-N	1	P	1305	.18	.26			D
HTPR	04	1312E	1314D		S08	E45	.725	11019	7.9	2D	-F		C	1313	.52	.70			
GRP34672	04	1459	1512	1502	S11	W30	.551	11012	2.4	13	--F				.18				3 3 3 7
RAMY	04	1458	1520	1503	S12	W29	.545	11012	2.4	22	-F		C		.31				DE
BOUL	04	1459	1510	1501	S11	W30	.551	11012	2.4	11	-F	1	C	1501	.11	.13			
HUAN	04	1501E	1505	1502U	S11	W30	.551	11012	2.4	4D	-N	2	P	1502	.12	.15			D
GRP34674	04	1617	1636	1621	S10	E44	.720	11019	8.0	19	--N				.43				2 2 2 2
HUAN	04	1617	1633	1622	S10	E43	.708	11019	7.9	16	-N	2	C	1622	.23	.33			E
RAMY	04	1617	1639	1620	S09	E44	.717	11019	8.0	22	-N		C		.62				DE
GRP34675	04	1714	1740	1721	S28	W19	.601	11013	3.3	26	--F				.36				2 2 1 3
PALE	04	1709	1743	1722	S27	W17	.576	11013	3.4	34	-F		C		.36				F
BOUL	04	1718	1737	1720	S29	W20	.619	11013	3.2	19	-F	2	V						
676 PALE	04	1748	1807	1754	N17	E38	.635	11022	7.6	19	--N		C		.45				F 3
GRP34677	04	1859	1926	1904	S10	E42	.696	11019	7.9	27	--F				.21				2 2 2 3
PALE	04	1859	1926	1904	S09	E41	.681	11019	7.9	27	-N		C		.19				
BOUL	04	1900U	1925U	1903U	S10	E43	.708	11019	8.0	25D	-F	1	C	1903	.22	.31			
678 BOUL	04	2001	2018	2004	N12	W85	.995	11002	29.5	17	-N	2	V						3
GRP34681	04	2110	2118	2112	N12	W87	.998	11002	29.4	8	-N								2 2 0 2
PALE	04	2109	2118	2111	N12	W88	.999	11002	29.3	9	-N		C						
BOUL	04	2110	2118	2113	N12	W85	.995	11002	29.5	8	-N	2	V						
GRP34682	04	2119	2239	2147	N22	E16	.402	11018	6.1	80	1B				4.41				3 3 3 3
PALE	04	2119	2330	2149	N24	E16	.426	11018	6.1	131	2B		C		7.13				US
BOUL	04	2135E	2243D	2145	N23	E16	.414	11018	6.1	68D	1B	2	C	2145	3.00	3.32			
CRON	04	2145E	2235		N20	E15	.368	11018	6.0	50D	1B		V		3.09				
34682	04	2214	2359	2215	N26	E16	.450	11018	6.1	105	*1N				3.09				2 1 1 5
CULG	04	2214E	2359	2215	N26	E16	.450	11018	6.1	105D	1N		P	2215	3.09	3.30			
MANI	04	2325E	2359	2325	N22	E17	.412	11018	6.3	34D	1F	2		2325	2.17	2.40			
GRP34683	04	2250	2305	2252	N14	W85	.995	11002	29.6	15	1B				.80				3 3 2 3
CULG	04	2250	2314D	2252	N15	W85	.995	11002	29.6	24D	1B		C	2252	1.03				RV
PALE	04	2250	2302	2253	N13	W88	.999	11002	29.4	12	-B		C						
CRON	04	2250	2259	2251	N15	W83	.991	11002	29.7	9	1N	1	C	2251	.56				
GRP34685	05	0219	0301	0235	S18	E36	.666	11019	7.8	42	-N				.94				4 4 4 5
MITK	05	0216	0302	0237	S17	E37	.671	11019	7.9	46	-N		C	0237	1.03	1.40			E
CRON	05	0222	0300	0232	S19	E39	.704	11019	8.0	38	-N	1	C	0232	.67	.90			
KODA	05	0224E	0248D	0237	S17	E37	.671	11019	7.9	24D	-N		P	0236	1.32	1.30	1.60		CE
PALE	05	0231E	0235D	0234U	S17	E32	.615	11019	7.5	4D	-N		C		.72				F

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OBSERV-ATORY	OBSERVED UT DATE 1970 NOV	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
9 STATIONS REPORTING GROUP 34686. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34686	05	0308	0719	0330	S12	E36	.632	11019	7.8	251	3B				17.13				7 7 7 7
SIBE	05	0227E	0825D	0332	S13	E33	.601	11019	7.6	358D	4N		C	0332	20.11	26.00		157	FKTU
CRON	05	0307	0715	0329	S13	E35	.625	11019	7.8	248	2B	1	C	0329	8.76	10.83			
CRON	05	0307	0715	0345	S13	E35	.625	11019	7.8	248	2B	1	C	0344	7.77	9.60			
MITK	05	0308	0458D	0329	S12	E37	.644	11019	7.9	110D	4B		C	0329	22.28	28.00			FHU
PALE	05	0310E	0437D	0335U	S12	E36	.632	11019	7.8	87D	3B		C		19.49				UF
TEHR	05	0311E	0720	0323	S12	E34	.607	11019	7.7	249D	3B		C		15.95				UF
KODA	05	0316E	0708D	0329	S13	E37	.649	11019	7.9	232D	3B		C	0336	19.38	19.39	2.68		CFHIJK
MANI	05	0322E	0723D		S12	E37	.644	11019	7.9	241D	3B	2		0335	13.92	18.20			
34686	05	0600	0800	0625	S13	E32	.588	11019	7.7	120	*-N				2.60				2 2 1 9
ISTA	05	0600	0725		S15	E34	.625	11019	7.8	85	-N								
ISTA	05	0600	0800		S09	E29	.525	11019	7.4	120	-N								
CATA	05	0620E	0705D	0625	S15	E30	.577	11019	7.5	45D	1N			0625	1.62	2.01		199	T
CATA	05	0620E	0705D	0625	S12	E37	.644	11019	8.0	45D	-N			0625	.98	1.29		174	T
34686	05	0355	0630	0435	S15	E35	.636	11019	7.8	155	*3N				13.79				4 2 2 9
TACH	05	0355E	0630		S15	E35	.636	11019	7.8	155D	3F		C	0402	15.50	20.38	2.42	88	BU
CULG	05	0404E	0407D		S14	E35	.631	11019	7.8	3D	3B		P	0406	12.07	14.62			U
CRON	05	0435E	0503	0435E	S14	E41	.700	11019	8.3	28D	-N		V		1.34				
CRIM	05	0518E	0547D		S11	E33	.589	11019	7.7	29D	2F		P	0521	8.11	10.00			BE
GRP34688	05	0803	0833	0809	S11	W41	.688	11012	2.3	30	-B				1.08				8 7 6 11
TEHR	05	0800	0836	0807	S12	W41	.692	11012	2.3	36	-B		C		1.00				F
CATA	05	0800	0845	0817	S10	W40	.672	11012	2.3	45	-B			0817	1.16	1.59		219	
HTPR	05	0801	0830	0807	S12	W42	.704	11012	2.2	29	-B		C	0807	.72	1.00			CE
BUCA	05	0805	0845		S10	W40	.672	11012	2.3	40	-N		C	0814	1.55	2.00			
ISTA	05	0805	0820	0807	S10	W41	.684	11012	2.3	15	-B								
CRIM	05	0806	0819D	0807	S12	W40	.680	11012	2.3	13D	-N		C	0807	1.35	1.90			E
CRON	05	0806	0822	0807	S11	W41	.688	11012	2.3	16	-N	1	C	0807	.67	.89			
CAPS	05	0822E	0825D		S10	W40	.672	11012	2.3	3D	1F	1	V	0823	1.50	2.10			B
691 HUAN	05	1515	1528	1519	S06	W01	.174	11021	5.6	13	--F	2	C	1519	.21	.21			D 3
692 HUAN	05	1539	1550	1542	S06	E01	.174	11021	5.7	11	--F	2	C	1542	.33	.33			D 3
693 HUAN	05	1551	1627	1556	S06	W01	.174	11021	5.6	36	--N	2	C	1556	.61	.62			H 3
694 HUAN	05	1717	1724	1719	S09	W48	.761	11012	2.1	7	--F	2	C	1719	.23	.24			D 3
695 HUAN	05	1741	1745	1743	S07	W02	.194	11021	5.6	4	--N	2	C	1743	.35	.36			H 2
696 PALE	05	1937E	1950	1938U	S12	W48	.770	11012	2.2	13D	--F		V		.26				F 1
697 BOUL	05	2030	2038	2032	S05	W05	.179	11021	5.5	8	--F	1	V						2
698 BOUL	05	2038	2050	2039	N20	W05	.288	11018	5.5	12	--F	1	V						2
GRP34699	06	0318	0339	0322	S28	W36	.732	11013	3.4	21	--N				.68				3 3 3 4
PALE	06	0317	0343D	0321	S27	W35	.717	11013	3.5	26D	-N		C		1.03				
MANI	06	0319	0330		S28	W37	.741	11013	3.4	11	-N	2		0325	.72	1.10			
TEHR	06	0323E	0344	0323U	S28	W35	.724	11013	3.5	21D	-N		C		.28				DE
GRP34700	06	0508	0544	0512	N20	W07	.301	11018	5.7	36	--N				.41				2 1 1 2
TEHR	06	0508	0544	0512	N20	W07	.301	11018	5.7	36	-N		C		.41				DE
MANI	06	0528	0542		N20	W08	.307	11018	5.6	14	-N	2		0530	1.03	1.10			
GRP34701	06	0755	0820	0800	N20	W11	.331	11018	5.5	25	--F				1.39				2 2 1 6
CATA	06	0755	0830	0800	N20	W10	.323	11018	5.6	35	-N			0800	1.39	1.48		176	
HTPR	06	0755	0809	0800	N20	W11	.331	11018	5.5	14	-F		C						E
GRP34702	06	0858	0933	0912	N20	W09	.315	11018	5.7	35	--N				.90				4 4 3 5
CATA	06	0850	0950	0910	N19	W08	.293	11018	5.8	60	-N			0910	1.33	1.40		182	
TEHR	06	0858	0930	0914U	N20	W09	.315	11018	5.7	32	-N		C		.28				DE
ARCE	06	0900E	0935		N20	W09	.315	11018	5.7	35D	-N		P	0910	1.09	1.10			
HTPR	06	0905	0915		N20	W09	.315	11018	5.7	10	-N		C						
GRP34704	06	1136	1204	1144	S27	W40	.760	11013	3.5	28	-N				1.28				4 4 3 5
CATA	06	1135	1205	1150	S25	W41	.757	11013	3.4	30	-N			1150	1.04	1.62		186	
HTPR	06	1135	1205		S28	W40	.766	11013	3.5	30	-N		C						
CAPE	06	1137	1152D	1140	S27	W40	.760	11013	3.5	15D	1N		P	1140	1.46	2.30			H
RAMY	06	1140E	1201	1142	S28	W39	.757	11013	3.6	21D	-B		C		1.35				UH
709 HUAN	06	1554	1641	1604	N19	W12	.328	11018	5.8	47	--N	2	C	1604	.33	.35			E 3
710 HUAN	06	1642	1728	1648	S17	E13	.415	11019	7.7	46	--N	2	C	1648	.25	.27			D 3
713 RAMY	06	1840	1852D	1844	N13	E90	1.000	11026	13.5	12D	-N		C						DE 4

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1970	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. %	
	NOV																		
GRP34714	06	1953	2003	1959	N19	W14	.348	11018	5.8	10	--F				.42				2 2 2 4
RAMY	06	1951	1956D	1955U	N20	W15	.371	11018	5.7	5D	-F		C		.41				DE
BOUL	06	1954	2003D	2003D	N18	W13	.326	11018	5.9	9D	-N	2	C	2003	.43	.46			
	06	2035	2106	NO FLARE PATROL															
715 LOCK	06	2115	2145	2125	N11	E82	.989	11026	13.0	30	--F		C						1
	06	2220	2238	NO FLARE PATROL															
	06	2248	2313	NO FLARE PATROL															
716 CRON	06	2259E	2323		S11	E10	.307	11019	7.7	24D	-N		V		1.03				1
GRP34717	06	2353	0018	0000	N18	E10	.295	11022	7.7	25	--F				.62				2 2 2 4
CRON	06	2350E	0016		N17	E10	.282	11022	7.7	26D	-F		V		.83				
MANI	06	2355	0020	0000	N18	E09	.286	11022	7.7	25	-N	2		0000	.41	.43			
GRP34718	07	0816	0838	0822	N22	W18	.426	11018	6.0	22	-N			-	1.17				5 3 3 5
CRON	07	0815	0840	0822	N23	W18	.437	11018	6.0	25	-N	1	C	0822	.44	.48			
CANR	07	0816	0845D		N24	W18	.449	11018	6.0	29D	-N	2	V			.70			
CAPE	07	0817	0835	0822	N23	W17	.427	11018	6.1	18	-N		C	0822	1.56	1.70			
CAPS	07	0817E	0830D		N20	W19	.417	11018	5.9	13D	-N		S	0820	1.50	1.60		164	
ARCE	07	0830E	0835D		N23	W18	.437	11018	6.0	5D	-F		P	0835	.85	.90			T
GRP34719	07	1049	1110	1053	S14	E07	.327	11019	8.0	21	--N				.25				3 3 3 4
CANR	07	1048	1100	1053	S14	E08	.333	11019	8.0	12	-N	2	C	1053	.32	.34			
TEHR	07	1050	1054D	1051	S13	E07	.312	11019	8.0	4D	-N		C		.23				DE
HUAN	07	1055E	1120	1055U	S14	E07	.327	11019	8.0	25D	-N	1	P	1055	.21	.22			D
720 HUAN	07	1147	1212	1150	S27	W58	.897	11013	3.1	25	--N	1	C	1150	.21	.45			D 2
721 HUAN	07	1153	1255	1242	S10	W73	.961	11012	2.0	62	--F	1	C	1242	.91				2
722 HUAN	07	1237	1248	1240	S27	W58	.897	11013	3.2	11	--N	1	C	1240	.15	.34			D 2
723 HUAN	07	1237	1305D	1245	S06	W26	.465	11021	5.6	28D	--N	2	P	1245	.47	.54			E 2
GRP34724	07	1348	1404	1352	N23	W20	.458	11018	6.1	16	--N				.72				2 2 2 3
HUAN	07	1348	1409	1353	N23	W20	.458	11018	6.1	21	-N	2	C	1353	.89	1.01			E
CANR	07	1348	1359	1350	N22	W19	.437	11018	6.1	11	-N	2	C	1350	.54	.60			
725 HUAN	07	1505	1517	1508	N19	W25	.481	11018	5.8	12	--N	2	C	1508	.21	.24			E 3
726 CANR	07	1506	1548	1512	S19	E03	.390	11019	7.9	42	--N	2	C	1512	.43	.46			3
GRP34727	07	1604	1629	1612	S14	E05	.316	11019	8.0	25	--N				.36				3 3 3 4
MCMA	07	1601	1629	1614	S14	E06	.321	11019	8.1	28	-N		C	1614	.31	.30			EH
RAMY	07	1606	1620D	1609U	S14	E04	.312	11019	8.0	14D	-F		C		.52				DE
HUAN	07	1606	1629	1614	S14	E04	.312	11019	8.0	23	-B	2	C	1614	.25	.26			D
GRP34728	07	1633	1701	1638	S14	E03	.309	11019	7.9	28	--N				.36				4 3 3 5
HUAN	07	1631	1701D	1641	S14	E02	.307	11019	7.8	30D	-N	2	P	1641	.25	.26			D
MCMA	07	1632	1710	1636	S13	E02	.290	11019	7.8	38	-N		C	1636	.41	.40			E
CANR	07	1633	1653	1636	S15	E03	.326	11019	7.9	20	-N	2	C	1636	.43	.45			
HUAN	07	1634	1701D	1638	S14	E04	.312	11019	8.0	27D	-N	2	P	1638	.21	.22			D
PALE	07	1648E	1656	1650	S15	E03	.326	11019	7.9	8D	-F		C		.36				F
GRP34730	07	1726	1754	1729	N19	W31	.558	11018	5.4	28	--F				.72				4 4 4 6
PALE	07	1725	1749	1729	N18	W30	.539	11018	5.5	24	-F		C		.91				F
RAMY	07	1726	1754	1729	N19	W30	.545	11018	5.5	28	-F		C		.93				DE
HUAN	07	1726	1733D	1730	N19	W32	.570	11018	5.3	7D	-N	1	P	1730	.42	.52			E
MCMA	07	1728E	1759		N19	W32	.570	11018	5.3	31D	-N		C	1728	.62	.80			E
732 LOCK	07	2105	2130	2115	S27	W64	.933	11013	3.1	25	--F		C						2
733 LOCK	07	2214	2220	2216	S16	E00	.338	11019	7.9	6	--F		C						1
GRP34736	08	0517	0533	0522	S13	W06	.304	11019	7.8	16	--F				.69				3 3 3 5
CRON	08	0516	0538	0523	S15	W04	.327	11019	7.9	22	-F	1	C	0523	.33	.34			
TEHR	08	0517	0526	0521U	S14	W06	.320	11019	7.8	9	-F		C		.45				DE
MANI	08	0518E	0536D	0522	S11	W08	.287	11019	7.6	18D	-N	2		0522	1.29	1.36			
GRP34739	08	0847	0857	0849	S10	W09	.281	11019	7.7	10	--N				.48				3 3 3 4
TEHR	08	0846	0855	0848	S10	W09	.281	11019	7.7	9	-F		C		.55				DE
CRON	08	0846	0856	0848	S10	W09	.281	11019	7.7	10	-N	1	C	0848	.44	.43			
CATA	08	0850	0900	0850	S10	W09	.281	11019	7.7	10	-N			0850	.46	.48		182	

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	NOV																		
GRP34740	08	0907	0919	0912	S10	W84	.996	11012	2.1	12	-N				.35				2 2 2 5
TEHR	08	0907	0920	0912	S11	W86	.998	11012	1.9	13	-N		C		.36				DE
CRON	08	0907	0918	0912	S09	W81	.990	11012	2.3	11	-N	1	C	0912	.33				
GRP34742	08	1209	1240	1215	S10	W88	1.000	11012	1.9	31	-N				1.00				2 2 2 6
CAPE	08	1207	1235	1219	S10	W86	.998	11012	2.1	28	1N		C	1219	1.41				
CATA	08	1210	1245	1210	S10	W90	1.000	11012	1.8	35	-N			1210	.58			180	W
GRP34744	08	1533	1551	1540	S10	W13	.323	11019	7.7	18	--N				.31				2 2 2 4
HUAN	08	1533	1550	1539	S09	W13	.311	11019	7.7	17	-N	2	C	1539	.40	.43			D
MCMA	08	1533	1551	1540	S10	W12	.312	11019	7.7	18	-N		C	1540	.21	.20			E
GRP34747	08	1642	1650	1645	N14	E64	.898	11026	13.5	8	--N				.29				2 2 2 5
CANR	08	1642	1649	1644	N14	E63	.890	11026	13.4	7	-N	1	C	1644	.21	.47			
HUAN	08	1643E	1650	1646	N14	E64	.898	11026	13.5	7D	-N	1	P	1646	.37	.85			D
GRP34751	08	2253	2315	2302	S07	W48	.756	11021	5.4	22	--N				.37				3 3 2 4
CRON	08	2250	2310	2301	S07	W48	.756	11021	5.4	20	-N	1	C	2301	.33	.49			
LOCK	08	2255	2325	2303	S07	W48	.756	11021	5.4	30	-F		C						
MANI	08	2258E	2310D	2302	S06	W48	.754	11021	5.4	12D	-N	2		2302	.41	.64			
GRP34757	09	1252	1306	1259	N15	W50	.772	11030	5.8	14	--F				.28				4 4 4 6
TEHR	09	1246	1258	1247	N16	W50	.774	11030	5.8	12	-F		C		.27				DE
HUAN	09	1252	1305	1258	N16	W50	.774	11030	5.8	13	-N	1	C	1258	.21	.31			D
CAPS	09	1254E	1312D		N12	W50	.768	11030	5.8	18D	-F	2	V	1255	.40	.60			
CATA	09	1255	1310	1300	N15	W49	.761	11030	5.9	15	-N			1300	.23	.36		174	
	09	1505	1528	NO FLARE PATROL															
761 HUAN	09	1535	1555	1541	S07	W58	.856	11021	5.3	20	--F	1	C	1541	.12	.23			D 2
762 HUAN	09	1605	1630	1625	N16	W53	.804	11030	5.7	25	--N	1	C	1625	.10	.17			D 3
GRP34764	09	1632	1730	1711	N16	E63	.892	11029	14.4	58	--F				.21				2 2 1 4
HUAN	09	1632	1741D	1712	N14	E66	.913	11029	14.6	69D	-F	1	P	1712	.21				D
BOUL	09	1707	1718	1710	N17	E60	.869	11029	14.2	11	-N	1	V						
GRP34765	09	1809	1823	1814	N15	E64	.899	11029	14.6	14	--N				.30				4 4 2 4
HUAN	09	1803	1823	1814	N14	E65	.906	11029	14.6	20	-B	1	P	1814	.23				D
PALE	09	1808	1822	1814	N16	E64	.899	11029	14.6	14	-N		C		.36				
LOCK	09	1810	1820	1813	N14	E66	.913	11029	14.7	10	-F		C						
BOUL	09	1813	1826	1815	N16	E60	.868	11029	14.3	13	-F	1	V						
HUAN	09	1825	1906	1832	N12	E68	.926	11029	14.9	41	-F	1	C	1832	.30				D
GRP34767	09	1940	2001	1948	N16	W55	.823	11030	5.7	21	--F				.36				2 2 1 5
PALE	09	1940	2001	1949U	N17	W55	.825	11030	5.7	21	-N		C		.36				
LOCK	09	1940	2000	1947	N15	W55	.822	11030	5.7	20	-F		C						
GRP34769	09	2239	2301	2245	N17	W56	.834	11018	5.7	22	-N				1.19				5 5 4 6
CULG	09	2214E	2252D	2246	N18	W57	.844	11018	5.7	38D	1B		P	2246	1.86	3.24			
LOCK	09	2239	2255	2243	N15	W55	.822	11018	5.8	16	-N		C						
CRON	09	2239	2251	2242	N16	W56	.833	11018	5.7	12	-N	1	C	2242	.33	.58			
MANI	09	2242E	2304		N18	W53	.807	11018	6.0	22D	-F	2		2246	1.13	1.86			
MITK	09	2249E	2325	2250	N16	W58	.851	11018	5.6	36D	1F		C	2250	1.44	2.80			E
GRP34770	09	2243	2334	2252	N17	E63	.892	11029	14.7	51	-F				1.03				2 2 2 6
MANI	09	2243E	2306D		N17	E63	.892	11029	14.7	23D	-F	2		2252	.93	1.77			
MITK	09	2249E	2334	2252	N16	E62	.884	11029	14.6	45D	1N		C	2252	1.13	2.40			D
GRP34773	10	0254	0321	0258	N16	E62	.884	11029	14.8	27	-N				.47				2 2 2 4
MITK	10	0254	0307D	0258	N15	E62	.884	11029	14.8	13D	-N		C	0258	.52	1.10			E
MANI	10	0304E	0321D		N17	E61	.877	11029	14.7	17D	-N	2		0304	.41	.76			
GRP34774	10	0257	0330	0305	S18	W29	.584	11019	7.9	33	--N				.61				4 4 4 4
MITK	10	0255	0307D	0306	S19	W28	.581	11019	8.0	12D	-N		C	0306	.62	.80			D
CRON	10	0259	0330	0305	S18	W29	.584	11019	7.9	31	-F	1	C	0304	.33	.40			
PALE	10	0303E	0328D	0305U	S17	W30	.588	11019	7.9	25D	-N		C		.54				F
MANI	10	0304E	0321D		S18	W27	.562	11019	8.1	17D	-N	2		0308	.93	1.10			
775 TEHR	10	0412	0430	0415	S17	W31	.599	11019	7.9	18	--F		C		.28				DE 2
776 TEHR	10	0537	0617	0547	N16	E43	.696	11026	13.5	40	-N		C		.83				FDE 3
777 TEHR	10	0734	0745	0737	N06	E90	1.000	11035	17.1	11	-N		C		.28				F 4

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OBSERV-ATORY	DATE 1970 NOV	START	END	MAX. PHASE	APPROX. LAT.	APPROX. 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
GRP34779	10	1130	1158	1150	N15	E56	.832	11029	14.7	28	--N				.48				4 4 3 7
HTPR	10	1130	1153	1149	N15	E55	.823	11029	14.6	23	-N		C	1149	.52	.80			
HUAN	10	1136E	1157	1149	N15	E57	.841	11029	14.8	21D	-N	2	C	1149	.25	.24			D
CAPS	10	1147E	1153D		N14	E56	.831	11029	14.7	6D	-N	1	V						
ZURI	10	1151E	1207	1153	N15	E56	.832	11029	14.7	16D	-N		P	1153	.67	1.20			
HUAN	10	1158	1210	1204	N15	E57	.841	11029	14.8	12	-F	2	C	1204	.40	.72			
GRP34780	10	1138	1149	1141	N16	W65	.907	11018	5.6	11	-N				.57				3 3 2 6
HUAN	10	1136E	1151	1140	N15	W66	.913	11018	5.5	15D	-B	2	C	1140	.25	.57			D
CAPE	10	1139	1147	1141	N16	W65	.907	11018	5.6	8	-N		C	1141	.88	2.00			
CAPS	10	1140	1146D		N16	W65	.907	11018	5.6	6D	-F	1	V						
GRP34787	10	1431	1455	1436	N19	W40	.670	11022	7.6	24	1N				2.31				8 8 7 8
CATA	10	1430	1510	1440	N20	W39	.662	11022	7.7	40	1N			1440	1.73	2.38		170	
MONT	10	1430	1433D	1433	N19	W39	.658	11022	7.7	3D	1B		C	1433	4.54				
CANR	10	1430	1450		N18	W37	.630	11022	7.8	20	-B	2	V			1.20			
CAPE	10	1431	1450	1435	N18	W39	.654	11022	7.7	19	1N		C	1435	1.68	2.30			H
CAPS	10	1431E	1447D		N18	W43	.701	11022	7.4	16D	1N	1	V	1432	2.00	2.80			
HTPR	10	1431	1444D		N20	W40	.674	11022	7.6	13D	1N		C	1436	1.86	2.30			
MCMA	10	1432E	1432D		N18	W40	.666	11022	7.6		-B		P	1432	1.24	1.70			E
CAPF	10	1433E	1450D		N20	W40	.674	11022	7.6	17D	1N		P	1435	3.09	4.20			BL
GRP34790	10	1615	1626	1617	N16	E52	.794	11029	14.6	11	--F								2 2 0 3
BOUL	10	1614	1630	1617	N16	E50	.774	11029	14.4	16	-F	1	V						
LOCK	10	1615	1621	1617	N16	E54	.814	11029	14.7	6	-F		C						
791 LOCK	10	1638	1650	1643	S07	W69	.938	11021	5.5	12	--F		C						2
792 LOCK	10	1705	1716	1712	N15	E54	.813	11029	14.8	11	--F		C						3
GRP34793	10	1722	1735	1724	N15	W66	.913	11018	5.8	13	-N				.54				2 2 1 2
PALE	10	1721	1733D	1724	N15	W65	.906	11018	5.8	12D	-N		C		.54				F
LOCK	10	1722	1735	1724	N14	W67	.920	11018	5.7	13	-N		C						
794 PALE	10	1828E	1832		N14	W67	.920	11018	5.7	4D	-N		C						F 3
GRP34795	10	1918	1932	1923	N15	E53	.803	11029	14.8	14	--F				.32				2 2 1 3
LOCK	10	1917	1932	1923	N15	E53	.803	11029	14.8	15	-F		C						
BOUL	10	1919	1932	1922	N14	E52	.792	11029	14.7	13	-F	1	C	1922	.32	.53			
796 LOCK	10	2018	2035	2024	N10	E82	.989	11035	17.0	17	1F		C						3
797 BOUL	10	2019U	2025U	2020U	N15	E52	.793	11029	14.7	6D	--F	1	C	2020	.22	.35			3
GRP34800	11	0413	0448	0420	N11	E27	.467	11026	13.2	35	--N				.65				3 3 3 5
TEHR	11	0412	0452	0417	N12	E27	.471	11026	13.2	40	-N		C		1.09				DE
MITK	11	0413	0441	0423	N11	E27	.467	11026	13.2	28	-F		C	0423	.52	.60			D
CRON	11	0415	0452	0421	N10	E28	.478	11026	13.3	37	-N	1	C	0421	.33	.37			
801 TEHR	11	0600	0640	0606	S08	W08	.240	11024	10.6	40	--N		C		.28				DE 3
GRP34804	11	0946	0953	0948	N14	E43	.691	11029	14.6	7	--N				.61				3 3 3 6
CRON	11	0945	0951	0947	N13	E42	.677	11029	14.6	6	-N	1	C	0947	.23	.29			
CAPE	11	0946	0955	0948	N14	E43	.691	11029	14.6	9	-N		C	0948	1.05	1.40			H
TEHR	11	0947E	0952	0948U	N15	E45	.717	11029	14.8	5D	-N		C		.55				DE
GRP34805	11	1012	1019	1017	N16	E42	.684	11029	14.6	7	-F				1.28				2 2 2 5
MONT	11	1012	1019	1017	N14	E41	.667	11029	14.5	7	-N		C	1017	.77				
ARCE	11	1012E	1015D		N17	E43	.699	11029	14.7	3D	1F		P	1012	1.78	2.50			
GRP34808	11	1528	1539	1532	N14	E39	.642	11029	14.6	11	--F				.46				2 2 2 4
HUAN	11	1523E	1537D	1532	N15	E40	.657	11029	14.6	14D	-N	1	P	1532	.48	.65			E
BOUL	11	1527	1539	1531	N14	E40	.654	11029	14.6	12	-F	1	C	1531	.43	.57			
HUAN	11	1528	1537D	1533	N14	E37	.616	11029	14.4	9D	-N	1	P	1533	.10	.13			D
812 LOCK	11	1700	1720	1708	N15	E41	.670	11029	14.8	20	--F		C						3
813 LOCK	11	1715	1740	1725	S07	W81	.989	11021	5.6	25	--F		C						3
GRP34814	11	1911	1955	1923	N17	E44	.710	11029	15.1	44	-N				.72				4 3 2 5
LOCK	11	1908	1955	1920	N18	E45	.724	11029	15.2	47	-N		C						
PALE	11	1914	1955	1928	N18	E43	.702	11029	15.0	41	-N		C		.72				SF
RAMY	11	1915E	1945D	1920	N16	E45	.719	11029	15.2	30D	-F		C		.72				DE
HUAN	11	1949E	1956	1949U	N18	E44	.713	11029	15.1	7D	-N	1	P	1949	.25	.35			D
815 LOCK	11	2020	2030	2023	N03	E79	.981	11035	17.8	10	--F		C						3

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OBSERV-ATORY	OBSERVED UT DATE 1970 NOV	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	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT. %	REMARKS
GRP34816	11	2111	2138	2117	S07	W17	.340	11024	10.6	27	--N				.64				3 3 2 3
LOCK	11	2110	2135	2115	S07	W17	.340	11024	10.6	25	-N		C						
PALE	11	2110	2144	2116	S07	W17	.340	11024	10.6	34	-N		C		.63				SDE
BOUL	11	2113	2136U	2119	S07	W16	.326	11024	10.7	23D	-N	1	C	2119	.64	.68			
GRP34821	12	0130	0328	0138	N15	W88	.999	11018	5.5	118	1B				4.31				2 2 2 5
MITK	12	0130	0153	0135	N16	W90	1.000	11018	5.3	23	1N		C	0135	.62				D
KODA	12	0138E	0347D	0141	N14	W85	.995	11018	5.7	129D	2B		C	0149	8.00	8.10	3.88		DK
MITK	12	0249	0309	0253	N16	W90	1.000	11018	5.4	20	1B		C	0253	.62				D
GRP34824	12	0406	0423	0410	N05	E74	.960	11035	17.7	17	-N				.31				2 2 2 3
CRON	12	0404	0428	0410	N04	E74	.960	11035	17.7	24	-N	1	C	0410	.33				
TEHR	12	0408	0418	0410	N06	E74	.960	11035	17.7	10	-N		C		.28				DE
34824	12	0422	0507	0425	N07	E72	.950	11035	17.6	45	*1F				.93				2 2 2 4
MITK	12	0422	0440	0425	N06	E72	.950	11035	17.6	18	1F		C	0425	.93				D
CULG	12	0435E	0533		N07	E72	.950	11035	17.6	58D	1N		P	0435	.93				
3 STATIONS REPORTING GROUP 34828. 10 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34828	12	0845	0930	0850	N12	W90	1.000	11018	5.6	45	1F				.38				2 2 1 13
ARCE	12	0845	0909D	0849	N17	W90	1.000	11018	5.6	24D	1F		P	0849	.38	2.10			
HURB	12	0849E	0930D	0851	N07	W90	1.000	11018	5.6	41D	1N						6.28		A
34828	12	0848	0939	0901	N16	W90	1.000	11018	5.6	51	*-B				.73				2 2 2 10
MONT	12	0844	0932	0901	N16	W90	1.000	11018	5.6	48	-N		C	0901	1.13				
ARCE	12	0851	0909D		N16	W90	1.000	11018	5.6	18D	-B		P	0909	.32	1.80			
ARCE	12	0920E	0945		N16	W90	1.000	11018	5.6	25D	1F		P	0920	.47	2.70			
GRP34829	12	0907	0924	0912	S11	E66	.922	11032	17.3	17	--F				1.29				3 3 2 10
MONT	12	0904	0924	0912	S10	E68	.933	11032	17.5	20	-N		C	0912	2.06				
CANR	12	0909	0916		S11	E64	.908	11032	17.2	7	-F	2	V			.70			
CRON	12	0911E	0931		S11	E65	.915	11032	17.3	20D	-F		V		.52				
GRP34832	12	1035	1055	1038	N14	E29	.509	11029	14.6	20	-N				1.78				4 4 4 9
CANR	12	1033	1052	1036	N14	E30	.523	11029	14.7	19	-N	2	C	1036	.54	.63			
CRON	12	1035	1040D	1040D	N14	E29	.509	11029	14.6	5D	-N		V		1.34				
MONT	12	1035	1059	1039	N15	E30	.527	11029	14.7	24	1N		C	1039	4.54				
ZURI	12	1037	1054	1038	N14	E27	.481	11029	14.5	17	-N		C	1038	.71	.80			
5 STATIONS REPORTING GROUP 34834. 6 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34834	12	1150	1226	1155	N13	E31	.532	11029	14.8	36	--N				.64				3 3 3 10
CANR	12	1147	1227	1152	N12	E32	.543	11029	14.9	40	-N	2	C	1152	.54	.61			
ZURI	12	1152	1220	1154	N14	E30	.523	11029	14.7	28	-N		C	1154	.69	.80			
HUAN	12	1158E	1230	1158U	N14	E31	.536	11029	14.8	32D	-N	2	P	1158	.70	.84			E
34834	12	1200	1227	1213	N13	E30	.518	11029	14.8	27	*-N				.81				2 2 2 11
CATA	12	1200E	1215D	1210	N13	E29	.504	11029	14.7	15D	-N			1210	.58	.68		174	
RAMY	12	1213E	1227	1215	N13	E30	.518	11029	14.8	14D	-N		C		1.03				F
GRP34836	12	1300	1313	1304	N07	E66	.912	11035	17.5	13	-N				.85				3 3 2 9
RAMY	12	1259	1315		N07	E63	.890	11035	17.3	16	-N		C						DE
TEHR	12	1300	1313D	1303	N06	E68	.926	11035	17.6	13D	-N		C		.28				DE
ZURI	12	1300	1310	1304	N07	E68	.926	11035	17.6	10	1N		C	1304	1.42				
GRP34838	12	1400	1412	1404	N13	E29	.504	11029	14.8	12	--F				.63				2 2 2 8
RAMY	12	1359E	1417	1405	N12	E29	.500	11029	14.8	18D	-F		C		.72				DE
ZURI	12	1400	1406	1402	N14	E29	.509	11029	14.8	6	-N		C	1402	.53	.60			
GRP34839	12	1420	1431	1421	N16	E27	.492	11029	14.6	11	--N				.74				6 5 5 9
BOUL	12	1419	1423D	1421	N16	E26	.478	11029	14.5	4D	-N	1	C	1421	.32	.37			
RAMY	12	1419	1433	1421	N17	E27	.498	11029	14.6	14	-N		C		.93				DE
CANR	12	1420	1431	1422	N15	E26	.472	11029	14.5	11	-N	2	C	1422	.86	.98			
CATA	12	1420	1430	1420	N15	E37	.620	11029	15.4	10	-N			1420	.46	.54		193	
ZURI	12	1421	1426	1422	N16	E26	.478	11029	14.5	5	-N		C	1422	.77	.90			
CAPS	12	1426E	1434D		N16	E30	.532	11029	14.9	8D	-F	3	V	1427	.80	1.00			
GRP34840	12	1448	1503	1452	N15	E28	.500	11029	14.7	15	--N				.78				6 6 5 8
CANR	12	1444	1451	1445	N12	E29	.500	11029	14.8	7	-F	2	C	1445	.21	.25			
ZURI	12	1445	1447	1446	N13	E29	.504	11029	14.8	2	-N		C	1446	.79	.90			
RAMY	12	1447	1500	1450	N16	E27	.492	11029	14.6	13	-N		C		.93				F
BOUL	12	1448	1506	1451	N15	E25	.459	11029	14.5	18	-N	2	C	1451	.54	.61			
CANR	12	1449	1500	1451	N16	E26	.478	11029	14.6	11	-N	2	C	1451	.97	1.10			
CATA	12	1450	1505	1455	N15	E36	.607	11029	15.3	15	-N			1455	.69	.79		186	
ONDR	12	1450E	1458		N17	E26	.485	11029	14.6	8D	-F		V	1450			2.20		CEJ
ZURI	12	1450	1508	1452	N16	E25	.465	11029	14.5	18	-N		C	1452	.69	.80			
RAMY	12	1457	1512	1500	N13	E28	.490	11029	14.7	15	-F		C		.62				DE

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1970	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. %	
	NOV																		
GRP34841	12	1500	1516	1502	N13	E27	.476	11029	14.7	16	--N				.86				3 3 1 8
CANR	12	1458	1514	1501	N12	E27	.472	11029	14.6	16	-N	2	C	1501	.86	.98			
ONDR	12	1500	1504D		N12	E28	.486	11029	14.7	4D	-N		V	1501			2.00		CDJ
BOUL	12	1502	1517	1502	N14	E26	.467	11029	14.6	15	-F	1	V						
843 RAMY	12	1527	1539	1529	N13	E28	.490	11029	14.7	12	--N		C		.72				DE 3
844 RAMY	12	1619	1639	1625	N09	E79	.980	11035	18.6	20	--F		C						DE 3
GRP34845	12	1722	1736	1723	N13	E27	.476	11029	14.7	14	-N				1.08				3 3 3 4
RAMY	12	1719	1739	1721	N13	E27	.476	11029	14.7	20	-N		C		1.14				F
PALE	12	1723	1733	1725	N13	E27	.476	11029	14.7	10	-N		C		1.34				
CANR	12	1723E	1728D	1723U	N12	E28	.486	11029	14.8	5D	-N	1	C	1723	.75	.86			
GRP34846	12	1746	1754	1748	N13	E22	.404	11029	14.4	8	--F				.52				2 2 1 3
RAMY	12	1745	1752	1747	N13	E22	.404	11029	14.4	7	-N		C		.52				DE
LOCK	12	1746	1756	1749	N13	E21	.390	11029	14.3	10	-F		C						
847 RAMY	12	1758	1812	1800	N09	E79	.980	11035	18.7	14	--F		C						DE 3
848 LOCK	12	1810	1825D	1820	N15	W82	.989	11018	6.6	15D	--F		C						3
849 RAMY	12	1853	1902	1855	N11	E23	.408	11029	14.5	9	--F		V		.52				DE 2
GRP34850	12	1946	2006	2003	N18	E26	.492	11029	14.8	20	--F				1.03				2 1 1 3
MCMA	12	1946E	2006D		N18	E26	.492	11029	14.8	20D	-F		P	1947	1.03	1.10			BE
LOCK	12	1958	2020	2003	N13	E19	.361	11029	14.3	22	-F		C						
GRP34851	12	2039	2048	2042	N09	E63	.890	11035	17.6	9	--F				.37				2 2 1 3
LOCK	12	2038	2050	2041	N09	E63	.890	11035	17.6	12	-F		C						
HUAN	12	2039	2045	2042	N09	E62	.882	11035	17.5	6	-N	1	C	2042	.37	.81			D
852 LOCK	12	2100	2135	2112	N15	W82	.989	11018	6.7	35	--F		C						2
854 PALE	12	2148	2208	2201	N07	E89	1.000	11035	19.6	20	-N		C		.45				2
855 PALE	12	2201E	2208	2201	N16	W90	1.000	11018	6.2	7D	-N		C		.84				2
4 STATIONS REPORTING GROUP 34856. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34856	12	2302	0107	2349	N23	E25	.519	11029	14.8	125	-N				1.96				3 2 2 4
CULG	12	2302	0107	2353	N23	E26	.530	11029	14.9	125	1N		C	2353	2.06	2.30			
CRON	12	2320	0009	2330	N20	E25	.494	11029	14.8	49	-N	1	C	2330	.56	.62			
PALE	12	2344E	0000D	2344E	N22	E24	.499	11029	14.8	16D	-N		C		1.86				F
34856	12	2224	2355	2247	N15	E21	.404	11029	14.5	91	*-F				.89				3 2 1 4
LOCK	12	2215	0005D	2248	N15	E21	.404	11029	14.5	110D	1F		C						
CULG	12	2224	2344	2302	N17	E20	.407	11029	14.4	80	1N		C	2302	3.20	3.41			L
CRON	12	2232	2344	2246U	N15	E21	.404	11029	14.5	72	-N	1	C	2246	.89	.94			
GRP34858	13	0335	0452	0400	S13	E54	.829	11032	17.2	77	1B				2.73				5 4 4 5
CULG	13	0332	0517	0357	S10	E53	.813	11032	17.1	105	2N		C	0357	3.20	5.58			
CRON	13	0338	0440	0400U	S14	E53	.822	11032	17.1	62	-B	1	C	0400	1.00	1.69			
TEHR	13	0338	0454	0345	S11	E54	.825	11032	17.2	76	-B		C		.36				F
KODA	13	0343E	0427D	0407	S14	E53	.822	11032	17.1	44D	1N		P	0414	5.05	5.10	1.96		EK
MITK	13	0351E	0438	0354	S12	E55	.836	11032	17.3	47D	1B		C	0354	1.65	2.90			E
GRP34860	13	0522	0530	(0527)	N16	E06	.245	11026	13.7	8	-F				.83				3 1 1 4
CULG	13	0450	0558D	0549	N20	E09	.326	11026	13.9	68D	1N		P	0549	3.61	3.50			
MITK	13	0522	0530D		N16	E06	.245	11026	13.7	8D	-F		C	0527	.83	.80			D
CRON	13	0528	0615	0632U	N15	E07	.238	11026	13.8	47	-N	1	C	0632	.44	.43			
GRP34866	13	1107	1130	1109	N13	E01	.173	11026	13.5	23	-N				2.34				8 8 7 8
RAMY	13	1106	1138	1109	N14	E03	.196	11026	13.7	32	-B		C		1.79				U
TEHR	13	1106	1131	1107	N13	E02	.175	11026	13.6	25	-N		C		1.37				F
HURB	13	1107E	1118	1108	N14	W02	.192	11026	13.3	11D	1N						2.47		
CAPS	13	1107E	1126D		N12	E00	.155	11026	13.5	19D	-B	2	P	1109	2.00	2.00		196	C
CANR	13	1107	1134	1109	N13	E02	.175	11026	13.6	27	-B	2	C	1109	1.40	1.40			
KIEV	13	1107	1115	1109	N14	E01	.190	11026	13.5	8	1F		C	1108	3.61	3.60		55	EI
LVOV	13	1108E	1143D	1114	N14	E00	.189	11026	13.5	35D	1F		C	1120	3.09	3.82		55	E
UCCL	13	1110	1131	1110	N13	E02	.175	11026	13.6	21	1N		C	1110	3.09	3.20			EIJ

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GRP34867	13	1136	1154	1138	N12	E12	.256	11029	14.4	18	--N				.91				6 6 6 10
CANR	13	1134	1158	1138	N11	E11	.233	11029	14.3	24	-N	2	C	1138	.98	.98			
CAPE	13	1135	1154	1138	N13	E12	.266	11029	14.4	19	-N		C	1138	1.70	1.80			FH
RAMY	13	1135	1155	1140	N12	E12	.256	11029	14.4	20	-N		C		.93				F
TEHR	13	1135	1151	1137	N11	E11	.233	11029	14.3	16	-N		C		.28				DE
CATA	13	1135E	1140D	1135	N16	E13	.312	11029	14.5	5D	-B			1135	.29	.30		243	
CATA	13	1135E	1140D	1135	N10	E11	.224	11029	14.3	5D	-N			1135	.75	.78		195	
UCCL	13	1139	1152	1141	N09	E11	.215	11029	14.3	13	-N		C	1141	.52	.60			DIJ
CATA	13	1150E	1225D	1205	N15	E12	.289	11029	14.4	35D	-B			1205	1.56	1.64		226	T
GRP34869	13	1356	1417	1402	S13	E49	.780	11032	17.3	21	-N				1.09				5 5 5 6
CAPE	13	1356	1415	1400	S13	E48	.769	11032	17.2	19	-N		C	1400	1.19	1.90			
CANR	13	1356	1419	1402	S12	E47	.756	11032	17.1	23	-N	2	C	1402	.75	1.14			
MCMA	13	1356	1400D		S12	E50	.787	11032	17.3	4D	-N		C	1400	.52	.90			E
RAMY	13	1356	1418	1406	S12	E48	.766	11032	17.2	22	-N		C		.93				DE
UCCL	13	1357	1417	1359	S15	E50	.795	11032	17.3	20	1N		C	1359	2.06				E
GRP34870	13	1402	1417	1404	N15	E15	.325	11029	14.7	15	--F				.52				2 2 2 6
RAMY	13	1401E	1421	1403U	N15	E15	.325	11029	14.7	20D	-N		C		.52				DE
UCCL	13	1402	1412	1404	N15	E15	.325	11029	14.7	10	-F		C	1404	.52	.60			HIJ
GRP34873	13	1622	1657	1643	N15	E09	.256	11029	14.4	35	--F				.41				2 2 1 3
HUAN	13	1555	1643	1623	N15	E14	.313	11029	14.7	48	-N	1	P	1623	.41	.42			E
LOCK	13	1615	1655	1640	N16	E07	.252	11029	14.2	40	-F		C						
HUAN	13	1628	1658	1645	N16	E08	.261	11029	14.3	30	-F	1	C	1645	.61	.63			E
HUAN	13	1632	1652	1638	N10	E09	.196	11029	14.4	20	-F	1	C	1638	.25	.25			D
GRP34874	13	1629	1636	1632	N09	E53	.798	11035	17.7	7	--N				.34				2 2 2 3
HUAN	13	1628	1634	1632	N09	E53	.798	11035	17.7	6	-N	1	C	1632	.25	.41			E
CANR	13	1629	1638	1631	N09	E52	.788	11035	17.6	9	-N	2	C	1631	.43	.70			
GRP34875	13	1655	1728	1702	N13	E01	.173	11026	13.8	33	-N				1.36				4 4 3 6
LOCK	13	1653	1745	1705	N12	E01	.156	11026	13.8	52	1N		C						
HUAN	13	1655	1717D	1702	N13	E02	.175	11026	13.9	22D	-B	1	C	1702	1.68	1.71			E
CANR	13	1655	1720	1658	N12	E01	.156	11026	13.8	25	-N	2	C	1658	1.50	1.50			
PALE	13	1658	1720	1702	N14	E00	.189	11026	13.7	22	-N		C		.90				
34875	13	1705	1723	1715	N14	E05	.207	11026	14.1	18	*-B				1.33				3 2 2 6
MCMA	13	1656E	1723D		N12	E02	.158	11026	13.9	27D	1B		P	1723	2.48	2.40			EFH
RAMY	13	1657E	1734	1658U	N14	E02	.192	11026	13.9	37D	-B		C		1.88				F
RAMY	13	1657E	1712	1702U	N14	E04	.201	11026	14.0	15D	-N		C		.62				DE
HUAN	13	1714	1717D	1715	N15	E07	.238	11026	14.2	3D	-N	1	P	1715	.18	.18			D
GRP34876	13	1747	1808	1754	N16	E12	.300	11029	14.6	21	--F				.93				3 3 2 4
LOCK	13	1745	1807	1755	N17	E12	.313	11029	14.6	22	-F		C						
RAMY	13	1748	1808	1754	N16	E12	.300	11029	14.6	20	-F		C		1.35				DE
HUAN	13	1749	1755D	1753	N16	E13	.312	11029	14.7	6D	-N	1	P	1753	.50	.52			E
877 RAMY	13	1800	1816	1803	N15	E45	.718	11035	17.1	16	--F		C		.41				DE 3
878 LOCK	13	1855	1910	1903	N17	E12	.313	11029	14.7	15	--F		C						3
879 PALE	13	1913	2014	1957	S22	E13	.472	11036	14.8	61	--N		C		.45				2
880 LOCK	13	1930	2000	1936	N13	W02	.175	11026	13.7	30	--F		C						2
GRP34881	13	1932	1951	1941	N17	E13	.323	11029	14.8	19	--N				.62				2 2 1 2
LOCK	13	1932	1951	1940	N16	E11	.290	11029	14.6	19	-N		C						
RAMY	13	1940E	1943D	1942U	N18	E14	.346	11029	14.9	3D	-N		V		.62				DE
882 LOCK	13	1934	1940	1937	N10	E52	.789	11035	17.7	6	-N		C						2
883 LOCK	13	2110	2125	2115	N16	E11	.290	11029	14.7	15	--F		C						1
884 LOCK	13	2120	2127	2122	N10	E52	.789	11035	17.8	7	-N		C						1
885 PALE	13	2221	2250	2228	N15	E43	.695	11035	17.2	29	-N		C		.90				F 2
GRP34886	13	2300	2342	2308	N16	E09	.270	11029	14.6	42	-B				1.74				5 4 3 5
LOCK	13	2235E	2245D	2235E	N16	E11	.290	11029	14.8	10D	-F		C						
CULG	13	2244	2348	2307	N17	E10	.293	11029	14.7	64	1B		C	2307	3.09	3.00			
MANI	13	2258	2337	2305	N16	E08	.261	11029	14.6	39	-B	1		2305	1.13	1.08			
CRON	13	2300	2340	2312U	N14	E10	.254	11029	14.7	40	-N	1	C	2311	1.00	.97			
CRON	13	2300	2340	2305	N14	E10	.254	11029	14.7	40	-N	1	C	2305	.44	.43			
PALE	13	2303	2304D		N16	E09	.270	11029	14.6	1D	-N		C						F
GRP34888	14	0102	0132	0106	N16	E05	.240	11029	14.4	30	-N				1.75				2 2 2 5
MANI	14	0100	0132D	0107	N16	E05	.240	11029	14.4	32D	1B	1		0107	2.48	2.54			
VORO	14	0103	0127D	0105	N15	E05	.225	11029	14.4	24D	-F		C	0105	1.02	1.00		101	EJ

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OBSERV-ATORY	OBSERVED UT DATE 1970	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
	NOV																		
GRP34889	14	0134	0210	0143	N15	E11	.279	11029	14.9	36	1F				2.75				4 4 4 5
MITK	14	0133	0150D	0136	N16	E11	.291	11029	14.9	17D	-F		C	0136	.72	.70			D
CRON	14	0134	0215U	0143	N15	E12	.290	11029	15.0	41D	-F	1	C	0143	.44	.43			
KODA	14	0135E	0155D	0146	N15	E07	.239	11029	14.6	20D	2N		C	0144	8.59	8.60	1.60		I
MANI	14	0142E	0204	0145	N15	E12	.290	11029	15.0	22D	-N	1		0145	1.24	1.29			
GRP34890	14	0203	0225	0204	N14	E07	.225	11029	14.6	22	--F				.83				2 1 1 5
MITK	14	0203	0225	0204	N14	E07	.225	11029	14.6	22	-F		C	0204	.83	.80			E
MANI	14	0214	0250D		N14	E06	.216	11029	14.5	36D	-N	2		0225	1.34	1.36			
GRP34891	14	0300	0335	0305	N15	E07	.239	11029	14.7	35	-N				.93				3 2 2 6
CULG	14	0254	0338	0259	N13	W03	.181	11029	13.9	44	1N		C	0259	2.68	2.60			U
MITK	14	0300	0335	0305	N14	E07	.225	11029	14.6	35	-N		C	0305	.93	1.00			E
MANI	14	0310E	0315D		N15	E07	.239	11029	14.7	5D	-N	2		0311	.93	.96			
GRP34892	14	0440	0529	0450	N16	E06	.247	11029	14.6	49	-N				1.40				4 3 3 7
CRON	14	0440	0542	0450	N16	E06	.247	11029	14.6	62	-N	1	C	0449	1.66	1.62			
TEHR	14	0448E	0525	0448U	N15	E07	.239	11029	14.7	37D	-N		C		1.09				FDE
MITK	14	0451E	0520	0452	N16	E05	.240	11029	14.6	29D	-N		C	0452	1.44	1.50			E
MANI	14	0508E	0534		N15	E04	.219	11029	14.5	26D	1N	2		0519	2.32	2.36			
GRP34896	14	0808	0840	0817	N15	E01	.209	11029	14.4	32	-N				1.04				6 6 5 8
BUCA	14	0805	0905		N16	E01	.226	11029	14.4	60	-N		P	0816	1.66	1.70			
TEHR	14	0806	0829	0811	N14	W02	.194	11029	14.2	23	-F		C		.64				DE
CRON	14	0809	0845	0818	N14	E01	.192	11029	14.4	36	-N	1	C	0817	1.11	1.08			
MANI	14	0813	0844	0822	N16	E00	.225	11029	14.3	31	-N	2		0822	.88	.89			
ABST	14	0814E	0826	0817	N16	E05	.240	11029	14.7	12D	-N		P	0817	.90	.90		88	D
CANR	14	0815E	0830D		N15	E00	.208	11029	14.3	15D	-N	3	V			.90			
34896	14	0835	0912	0844	N15	W01	.209	11029	14.3	37	*1N				2.00				4 4 4 8
CATA	14	0810	0920D	0850	N15	W01	.209	11029	14.3	70D	1B			0850	2.43	2.50		219	T
ABST	14	0834E	0907	0842	N15	W01	.209	11029	14.3	33D	1N		P	0842	2.70	2.80		70	F
TEHR	14	0835	0910	0840	N14	W02	.194	11029	14.2	35	-N		C		.51				FDE
HTPR	14	0836E	0900D		N17	E02	.244	11029	14.5	24D	1N		C	0845	2.37	2.30			
GRP34897	14	0926	0949	0932	N16	E03	.231	11029	14.6	23	-N				1.74				4 4 4 6
ABST	14	0919	0957	0929	N16	E04	.235	11029	14.7	38	1N		C	0929	3.51	3.60		88	F
TEHR	14	0922	0948	0928	N16	E03	.231	11029	14.6	26	-N		C		.55				FDE
CATA	14	0930E	0940D	0935	N17	E02	.244	11029	14.5	10D	-B			0935	1.62	1.68		246	T
CANR	14	0931	0943	0935	N16	E03	.231	11029	14.6	12	-N	1	C	0935	1.28	1.28			
GRP34898	14	0935	1005	0943	N14	E38	.631	11035	17.2	30	-N				1.14				3 3 3 6
TEHR	14	0935	1002	0943	N15	E38	.634	11035	17.2	27	-N		C		.28				DE
KODA	14	0942E	0944D		N14	E39	.643	11035	17.3	2D	1N		P	0943	2.52	2.50			E
CRON	14	0945E	1007		N14	E37	.618	11035	17.2	22D	-F		V		.62				
GRP34900	14	1140	1223	1205	N16	W15	.337	11026	13.4	43	-B				1.72				2 2 2 4
CATA	14	1140E	1220D	1205	N17	W14	.336	11026	13.4	40D	1B			1205	2.20	2.33		204	
RAMY	14	1202E	1223	1205	N15	W15	.326	11026	13.4	21D	-N		C		1.24				DE
GRP34901	14	1200	1229	1205	N17	E02	.244	11029	14.7	29	-N				.93				3 3 3 4
TEHR	14	1159	1232D	1204	N17	E02	.244	11029	14.6	33D	-N		C		.28				DEH
CATA	14	1200	1220D	1205	N17	E01	.243	11029	14.6	20D	-B			1205	1.16	1.19		246	
RAMY	14	1202E	1226	1206	N17	E03	.247	11029	14.7	24D	-N		C		1.34				DE
GRP34902	14	1232	1335	1236	N15	W03	.214	11029	14.3	63	1N				2.41				4 3 3 5
CATA	14	1230	1335	1247	N14	W03	.198	11029	14.3	65	-B			1247	1.62	1.67		232	
RAMY	14	1232E	1237D	1236U	N15	W03	.214	11029	14.3	5D	-B		C		1.96				DE
LVOV	14	1232E	1300D	1236	N14	W05	.209	11029	14.1	28D	1F		P	1238	2.58	3.35		56	BCE
CANR	14	1235E	1320	1237	N15	W01	.209	11029	14.4	45D	1N	1	C	1237	2.70	2.70			
GRP34903	14	1359	1428	1406	N17	E02	.244	11029	14.7	29	-B				3.08				3 2 2 3
RAMY	14	1347E	1409D	1347U	N18	E01	.260	11029	14.6	22D	-N		V		1.03				DE
CANR	14	1359E	1419D	1402U	N16	E02	.228	11029	14.7	20D	-N	1	C	1402	1.61	1.61			
MONT	14	1404E	1428D	1409	N17	E01	.243	11029	14.7	24D	1B		C	1409	4.54				
	14	1419	1420	NO FLARE PATROL															
	14	1428	1432	NO FLARE PATROL															
GRP34904	14	1436	1441	1439	S12	E33	.589	11032	17.1	5	1N				3.40				2 1 1 2
MONT	14	1436	1441D	1439	S12	E33	.589	11032	17.1	5D	1N		C	1439	3.40				
RAMY	14	1442E	1451D	1447U	S11	E32	.570	11032	17.0	9D	-N		C		1.35				UDE
	14	1441	1442	NO FLARE PATROL															
	14	1451	1509	NO FLARE PATROL															
905 HUAN	14	1509E	1515D	1509U	S11	E35	.609	11032	17.3	6D	--F	1	P	1509	.33	.42			D 2

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GRP34906	14	1509	1520	1512	N17	E02	.244	11029	14.8	11	-B				1.02				2 2 2 2
HUAN	14	1509E	1515D	1509U	N17	E02	.244	11029	14.8	6D	-B	1	P	1509	.70	.72			E
RAMY	14	1511E	1520D	1515U	N16	E01	.226	11029	14.7	9D	-N		C		1.34				DE
	14	1520	1557	NO FLARE PATROL															
907 HUAN	14	1603	1609D	1605	N17	W01	.243	11029	14.6	6D	--N	1	P	1605	.50	.51			E 2
	14	1609	1612	NO FLARE PATROL															
GRP34908	14	1611	1642	1614	N16	E00	.225	11029	14.7	31	-N				1.90				3 3 2 4
CANR	14	1611E	1639D	1614U	N16	E00	.225	11029	14.7	28D	-N	1	C	1614	1.94	1.94			
LOCK	14	1612E	1642	1612	N16	E00	.225	11029	14.7	30D	1N		C						
RAMY	14	1613E	1633D	1615U	N17	E00	.242	11029	14.7	20D	-N		C		1.86				DE
GRP34909	14	1656	1705	1659	N06	E56	.828	11035	18.9	9	--N				.33				3 3 2 3
LOCK	14	1655	1706	1659	N06	E55	.818	11035	18.8	11	-N		C						
RAMY	14	1657E	1705	1658	N07	E57	.838	11035	19.0	8D	-N		C		.41				DE
HUAN	14	1657	1705	1659	N06	E56	.828	11035	18.9	8	-N	1	C	1659	.25	.44			E
GRP34910	14	1705	1721	1712	N16	E00	.225	11029	14.7	16	--N				.62				3 3 2 4
LOCK	14	1645	1719	1710	N16	E01	.226	11029	14.8	34	-F		C						
HUAN	14	1646	1715	1649	N17	E02	.244	11029	14.8	29	-N	1	C	1649	.45	.47			E
HUAN	14	1700	1722D	1711	N16	E01	.226	11029	14.8	22D	-N	1	C	1711	.21	.21			D
HUAN	14	1703	1718	1705	N16	W07	.254	11029	14.2	15	-N	1	C	1705	.15	.16			D
RAMY	14	1712	1814	1715	N17	W02	.244	11029	14.6	62	-N		C		1.03				
5 STATIONS REPORTING GROUP 34911. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34911	14	1716	1817	1726	N17	W03	.247	11029	14.5	61	-N				2.20				2 2 1 3
RAMY	14	1712	1814	1726	N17	W02	.244	11029	14.6	62	1N		C		2.20				UDE
LOCK	14	1720	1820	1726	N16	W03	.231	11029	14.5	60	-N		C						
34911	14	1738	1811	1739	N16	E01	.226	11029	14.8	33	*-N				.81				2 2 1 4
PALE	14	1737E	1810	1740	N17	E02	.244	11029	14.9	33D	-N		C		.81				F
BOUL	14	1738	1812	1738	N15	W01	.209	11029	14.7	34	1N	1	V						
34911	14	1806	1834	1814	N14	W07	.225	11029	14.2	28	*-F				.37				2 2 1 4
LOCK	14	1800	1834	1814	N13	W07	.211	11029	14.2	34	-F		C						
HUAN	14	1811	1824D	1813	N14	W07	.225	11029	14.2	13D	-N	1	C	1813	.37	.38			D
3 STATIONS REPORTING GROUP 34913. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34913	14	1827	1911	1833	N16	W01	.226	11029	14.7	44	--N				.92				3 3 2 4
LOCK	14	1825	1850	1832	N16	W01	.226	11029	14.7	25	-N		C						
HUAN	14	1826E	1840D	1829U	N17	E01	.243	11029	14.8	14D	-N	1	P	1829	.38	.39			E
RAMY	14	1831	1931D	1837	N16	W03	.231	11029	14.5	60D	-N		C		1.45				UDE
34913	14	1841	1922	1905	N16	W04	.235	11029	14.5	41	*-F				.83				2 2 1 3
RAMY	14	1831	1931	1910	N16	W03	.231	11029	14.5	60	-N		C		.83				
LOCK	14	1850	1913	1900	N15	W05	.225	11029	14.4	23	-F		C						
LOCK	14	1905	2020	1922	N17	W04	.251	11029	14.5	75	-F		C						
LOCK	14	1905	2020	2000	N17	W04	.251	11029	14.5	75	-F		C						
GRP34914	14	1841	1854	1843	S11	E25	.478	11032	16.7	13	--N				.78				3 3 2 4
LOCK	14	1840	1852	1842	S11	E24	.464	11032	16.6	12	-N		C						
RAMY	14	1840	1854	1842	S10	E25	.471	11032	16.7	14	-B		C		.57				DE
PALE	14	1842	1856	1844	S11	E25	.478	11032	16.7	14	-N		C		.99				F
GRP34915	14	2018	2040	2022	N15	W08	.248	11029	14.2	22	--N				.81				3 3 2 3
LOCK	14	2015	2042	2022	N14	W09	.244	11029	14.2	27	-N		C						
BOUL	14	2018	2033	2020	N15	W10	.268	11029	14.1	15	-N	2	C	2020	.43	.43			
PALE	14	2020	2046	2023	N16	W09	.271	11029	14.2	26	-N		C		1.18				F
LOCK	14	2030	2100	2050	N16	E00	.225	11029	14.9	30	-F		C						
GRP34916	14	2134	2137	2134	N17	E00	.242	11029	14.9	3	--N				1.63				3 3 1 3
LOCK	14	2132	2137	2133	N16	W01	.226	11029	14.8	5	-N		C						
BOUL	14	2133	2137	2133	N18	E01	.260	11029	15.0	4	-N	2	V						
PALE	14	2136	2245	2137	N17	W01	[illegible]	11029	14.8	69	-F		C		1.63				F
GRP34917	14	2156	2218	2201	N15	E31	.542	11035	17.2	22	-N				1.60				4 4 2 4
PALE	14	2154	2216	2202	N15	E31	.542	11035	17.2	22	1N		C		2.17				FDE
LOCK	14	2156	2225	2200	N15	E32	.555	11035	17.3	29	-N		C						
BOUL	14	2159	2212	2200	N16	E31	.547	11035	17.2	13	-N	2	V						
CRON	14	2202E	2218		N14	E30	.524	11035	17.2	16D	-N		V		1.03				
GRP34918	14	2235	2248	2238	N18	W03	.264	11029	14.7	13	--F				.93				2 2 1 4
MANI	14	2234E	2252		N18	W02	.261	11029	14.8	18D	-N	1		2237	.93	.95			
LOCK	14	2235	2244	2238	N17	W03	.247	11029	14.7	9	-F		C						

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GRP34919	14	2300	2323	2304	N17	W03	.247	11029	14.7	23	-F				2.17				2 2 1 4
LOCK	14	2300	2319	2304	N16	W03	.231	11029	14.7	19	-F		C						
MANI	14	2300	2327		N18	W03	.264	11029	14.7	27	1N	2		2307	2.17	2.23			
GRP34924	15	0150	0159	0154	N04	E48	.742	11035	18.7	9	--F				.21				2 2 2 5
PALE	15	0150	0159	0153	N05	E48	.742	11035	18.7	9	-F		C		.19				
CRON	15	0150	0159	0154	N03	E48	.742	11035	18.7	9	-F	2	C	0154	.23	.32			
GRP34925	15	0204	0219	0209	N15	W13	.303	11029	14.1	15	--F				.51				3 3 3 5
PALE	15	0203	0211D	0209	N16	W14	.326	11029	14.0	8D	-F		C		.45				F
MANI	15	0204	0225	0210	N15	W13	.303	11029	14.1	21	-N	2		0210	.62	.65			
VORO	15	0205	0213	0208	N15	W12	.291	11029	14.2	8	-F		C	0208	.46	.48		87	D
GRP34928	15	0414	0434	0420	N17	W12	.316	11029	14.3	20	--N				.35				2 2 2 4
MANI	15	0413	0435	0420	N16	W12	.303	11029	14.3	22	-N	2		0420	.41	.43			
TEHR	15	0414	0433	0419	N17	W11	.305	11029	14.4	19	-N		C		.28				DE
GRP34929	15	0519	0613	0523	N17	W09	.287	11029	14.5	54	-N				1.80				4 4 4 4
MANI	15	0447	0514		N16	W08	.264	11029	14.6	27	-N	2		0503	.93	.97			
KODA	15	0454E	0520D	0519	N17	W07	.271	11029	14.7	26D	1N		S	0454	2.69	2.70	1.80		I
MANI	15	0517E	0550D		N16	W10	.282	11029	14.5	33D	-N	2		0548	1.65	1.71			
CRON	15	0520	0615	0523	N17	W09	.287	11029	14.5	55	1N	2	C	0523	2.22	2.16			
TEHR	15	0527E	0611	0527U	N16	W10	.282	11029	14.5	44D	-N		C		.64				DE
10 STATIONS REPORTING GROUP 34930. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34930	15	0655	0856	0757	N16	W11	.293	11029	14.5	121	1N				4.75				7 7 6 8
TACH	15	0614E	0906D	0754	N18	W12	.328	11029	14.4	172D	2N								
CAPE	15	0628	0850	0756	N16	W10	.282	11029	14.5	142	1B			0756	3.24	3.40			
BUCA	15	0655	1020		N17	W11	.305	11029	14.5	205	2N		P	0756	8.86	9.20			LU
TEHR	15	0736E	0903D	0757	N16	W12	.303	11029	14.4	87D	1N		C		4.83				FDE
CATA	15	0750E	1020D	0755	N15	W12	.291	11029	14.4	150D	2B			0755	5.10	5.34		394	TZ
CANR	15	0752E	1040D	0755U	N15	W09	.259	11029	14.7	168D	2B	1	C	0755	5.16	5.16			
CRON	15	0806E	0845	0806E	N17	W11	.305	11029	14.5	39D	-N	2	C	0806	1.33	1.28			
34930	15	0622	0905	0706	N15	W13	.303	11029	14.3	163	*1B				4.17				8 6 6 9
TACH	15	0614E	0906D	0652	N18	W12	.328	11029	14.4	172D	2N		C	0754	11.55	12.07	4.02	99	FJKZ
CATA	15	0620E	0645D	0640	N15	W12	.291	11029	14.4	25D	-B			0640	1.73	1.82		240	TZ
CRON	15	0625	0724D	0646	N13	W11	.257	11029	14.4	59D	1N	2	C	0646	2.66	2.56			
CAPE	15	0628	0850	0655	N15	W12	.291	11029	14.4	142	1B		C	0655	2.54	2.70			IK
TEHR	15	0633	0713D	0636	N13	W09	.233	11029	14.6	40D	-N		C		.73				FDE
MANI	15	0640E	0720D		N14	W12	.280	11029	14.4	40D	1B	2		0654	3.71	3.90			
KODA	15	0652E	0726D	0655	N15	W14	.315	11029	14.2	34D	1B		S	0653	2.70	2.70	2.24		IK
CAPS	15	0744E	0855D		N12	W15	.300	11029	14.2	71D	3B	2	P	0819	12.00	12.60		270	
GRP34931	15	0952	1014	1000	N15	W22	.420	11026	13.8	22	--N				.72				2 2 2 6
CATA	15	0945	1020D	1000	N15	W21	.407	11026	13.8	35D	-B			1000	1.16	1.28		209	
TEHR	15	0959	1008	1000	N15	W23	.434	11026	13.7	9	-F		C		.28				DE
GRP34933	15	1145	1204	1151	N18	W17	.383	11029	14.2	19	--F				.48				2 2 2 6
RAMY	15	1144	1154D	1149	N18	W18	.395	11029	14.1	10D	-F		C		.52				DE
CANR	15	1146	1204	1153	N17	W16	.361	11029	14.3	18	-N	2	C	1153	.43	.46			
GRP34934	15	1315	1330	1318	N16	W11	.293	11029	14.7	15	--N				.69				3 3 3 4
RAMY	15	1313	1330	1316	N18	W13	.338	11029	14.6	17	-N		C		.83				DE
CANR	15	1316	1331	1318	N15	W13	.303	11029	14.6	15	-N	1	C	1318	.43	.45			
CATA	15	1320E	1330D	1320	N17	W13	.326	11029	14.6	10D	-B			1320	.80	.86		219	
RAMY	15	1331	1348	1335	N15	W03	.216	11029	15.3	17	-F		C		.62				DE
GRP34935	15	1321	1343	1327	N16	E22	.428	11035	17.2	22	--F				.53				2 2 2 4
CANR	15	1320	1345	1327	N15	E22	.420	11035	17.2	25	-N	2	C	1327	.64	.71			
RAMY	15	1321	1340	1326	N16	E22	.428	11035	17.2	19	-F		C		.41				DE
GRP34937	15	1510	1533	1516	N16	W14	.326	11029	14.6	23	--N				.84				2 2 2 3
RAMY	15	1505	1536	1515	N16	W15	.338	11029	14.5	31	-N		C		.93				DE
CANR	15	1515	1530	1516	N16	W12	.303	11029	14.7	15	-N	1	C	1516	.75	.79			
GRP34938	15	1557	1640	1604	N06	E39	.629	11035	18.6	43	--F				1.25				2 2 1 4
RAMY	15	1552	1704D	1603	N08	E38	.618	11035	18.5	72D	-F		C		1.25				DE
LOCK	15	1601	1615	1605	N04	E39	.629	11035	18.6	14	-F		C						
GRP34939	15	1606	1624	1613	N19	W13	.351	11029	14.7	18	--F								2 2 0 4
BOUL	15	1604	1623	1610	N20	W10	.337	11029	14.9	19	-F	1	V						
LOCK	15	1608	1625	1615	N17	W16	.361	11029	14.5	17	-F		C						
GRP34940	15	1630	1638	1632	N15	W16	.340	11029	14.5	8	--F				1.14				2 2 1 4
RAMY	15	1629	1638	1631	N15	W16	.340	11029	14.5	9	-N		C		1.14				DE
LOCK	15	1630	1638	1633	N14	W15	.318	11029	14.6	8	-F		C						

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GRP34941	15	1700	1747	1713	N17	W17	.373	11029	14.4	47	--F				.32				2 2 1 4
BOUL	15	1655	1754	1710	N18	W17	.383	11029	14.4	59	-N	1	C	1710	.32	.35			
LOCK	15	1705	1740	1715	N16	W17	.363	11029	14.4	35	-F		C						
GRP34942	15	1753	1903	1818	N16	W18	.375	11029	14.4	70	2B				4.39				3 3 2 3
LOCK	15	1750	2000	1820	N16	W18	.375	11029	14.4	130	2B		C						
RAMY	15	1754	1905	1816	N16	W16	.350	11029	14.5	71	1B		C		3.62				F
RAMY	15	1754	1905	1804	N16	W16	.350	11029	14.5	71	1B		C		2.70				
BOUL	15	1756	1900	1819	N17	W19	.397	11029	14.3	64	2B	2	C	1819	5.16	5.64			
GRP34943	15	1917	2011	1945	S11	E16	.360	11032	17.0	54	--N				.88				4 3 2 4
PALE	15	1916	2023	1950	S10	E15	.337	11032	16.9	67	-N		C		1.44				F
LOCK	15	1917	2010	1945	S13	E16	.382	11032	17.0	53	-F		C						
RAMY	15	1927	2005D	1932	S09	E18	.367	11032	17.2	38D	-F		C		.83				DE
BOUL	15	1935	2000	1940	S11	E17	.373	11032	17.1	25	-N	1	C	1940	.32	.35			
944 LOCK	15	2113	2140	2120	N13	W25	.450	11029	14.0	27	--F		C						3
945 LOCK	15	2120	2142	2128	S12	E16	.371	11032	17.1	22	--F		C						2
946 PALE	15	2142	2201	2148	N15	W18	.366	11029	14.6	19	--F		C		.19				3
GRP34947	15	2301	2313	2305	N08	E17	.304	11035	17.2	12	--F				.45				2 2 1 6
LOCK	15	2301	2313	2305	N07	E16	.283	11035	17.2	12	-F		C						
PALE	15	2301E	2312	2305	N09	E18	.324	11035	17.3	11D	-N		C		.45				F
GRP34950	16	0026	0104	0035	S11	E15	.347	11032	17.1	38	1N				2.05				6 6 6 6
CULG	16	0024	0130	0041	S10	E13	.312	11032	17.0	66	1N		C	0041	3.61	3.68			
MITK	16	0026	0051	0030	S10	E14	.324	11032	17.1	25	1B		C	0030	2.06	2.20			E
CRON	16	0027	0102	0033	S11	E13	.324	11032	17.0	35	-B	1	C	0033	1.00	1.02			
VORO	16	0027	0145	0033	S10	E18	.375	11032	17.4	78	1F		C	0033	2.31	2.50		126	EJ
MANI	16	0027	0054	0038	S11	E15	.347	11032	17.1	27	1N	2		0038	1.96	2.10			
PALE	16	0034E	0034D	0034E	S11	E15	.347	11032	17.1		-N		C		1.35				F
7 STATIONS REPORTING GROUP 34951. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34951	16	0042	0227	0054	N16	W21	.415	11029	14.5	105	2B				9.59				5 5 5 5
MITK	16	0035	0230	0052	N17	W20	.411	11029	14.5	115	2B		C	0052	6.60	7.20			F
CRON	16	0041	0215U	0053	N16	W20	.402	11029	14.5	94D	1B	1	C	0052	8.65	9.14			
CULG	16	0042	0322	0100	N17	W21	.424	11029	14.5	160	3B		C	0100	13.41	14.30			V
MANI	16	0045	0139	0052	N16	W21	.415	11029	14.5	54	2B	2		0052	7.84	8.60			
VORO	16	0046	0236	0053	N16	W24	.455	11029	14.2	110	2F		C	0104	11.46	12.40		275	EJ
34951	16	0118	0230	0118	N15	W23	.435	11029	14.3	72	*2N				7.94				3 1 1 7
PALE	16	0118E	0230D	0118E	N16	W23	.442	11029	14.3	72D	2N		C		7.94				DE
KODA	16	0149E	0213D	0150	N16	W25	.469	11029	14.2	24D	1N		C	0206	4.01	4.00	2.00		I
CRON	16	0220E	0230		N13	W22	.408	11029	14.4	10D	-N		V		1.13				
GRP34953	16	0321	0335	0327	N15	E14	.317	11035	17.2	14	--B				.43				2 2 2 4
MITK	16	0318	0335	0326	N15	E14	.317	11035	17.2	17	-B		C	0326	.52	.50			DH
CRON	16	0323	0334	0327	N14	E14	.306	11035	17.2	11	-N	2	C	0326	.33	.34			
GRP34955	16	0536	0558	0538	N17	W25	.475	11029	14.4	22	-N				1.20				3 3 3 4
MITK	16	0535	0600	0539	N17	W25	.475	11029	14.4	25	-N		C	0539	.72	.80			E
CRON	16	0536	0557	0538	N17	W25	.475	11029	14.4	21	-N	1	C	0538	.89	.98			
TACH	16	0536	0558	0538	N18	W26	.495	11029	14.3	22	1N		C	0538	2.00	2.28	2.63	81	TZ
GRP34956	16	0604	0622	0611	N06	E38	.616	11035	19.1	18	-N				.99				4 4 4 5
MITK	16	0603	0617	0611	N07	E39	.630	11035	19.2	14	-N		C	0611	.52	.70			E
CRIM	16	0604E	0622D		N05	E38	.615	11035	19.1	18D	-F		C	0610	1.44	1.80			D
TACH	16	0605	0626	0610	N07	E38	.617	11035	19.1	21	-N		C	0610	1.55	1.95	1.62	54	D
CRON	16	0605	0622	0611	N05	E38	.615	11035	19.1	17	-N	1	C	0610	.44	.55			
GRP34957	16	0710	0718	0711	N10	E12	.241	11035	17.2	8	-N				1.18				3 3 3 6
CRON	16	0709	0717	0711	N09	E12	.233	11035	17.2	8	-N	2	C	0711	.44	.43			
TACH	16	0710	0718	0711	N11	E12	.250	11035	17.2	8	-N		C	0711	1.83	1.87	2.27	57	D
CRIM	16	0710	0716D	0710	N10	E12	.241	11035	17.2	6D	-F		C	0710	1.26	1.30			D
GRP34958	16	0719	0730	0723	S10	E09	.269	11032	17.0	11	--F				.68				4 4 4 7
CRON	16	0718	0730	0723	S09	E09	.255	11032	17.0	12	-N	2	C	0723	.23	.21			
BUCA	16	0719	0729		S10	E08	.259	11032	16.9	10	-F		C	0721	1.10	1.10			
CATA	16	0720	0730	0725	S10	E08	.259	11032	16.9	10	-N			0725	.14	.15		182	
ABST	16	0721E	0731D	0722	S10	E09	.269	11032	17.0	10D	-F		P	0722	1.26	1.30			EJ
GRP34960	16	0733	0746	0739	N10	E11	.227	11035	17.1	13	-N				1.06				5 5 5 6
TACH	16	0731	0744	0736	N11	E12	.250	11035	17.2	13	-N		C	0736	1.28	1.32	2.13	54	D
BUCA	16	0731	0752		N10	E11	.227	11035	17.1	21	-N		C	0736	1.66	1.70			
CRIM	16	0734E	0746D		N10	E11	.227	11035	17.1	12D	-F		P	0739	.99	1.00			D
CATA	16	0735	0745D	0740	N10	E11	.227	11035	17.1	10D	-N			0740	.29	.30		197	
ABST	16	0738E	0745D	0742	N11	E11	.236	11035	17.1	7D	-N		P	0742	1.08	1.10			DJ

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GRP34961	16	0740	0810	0746	N17	W23	.449	11029	14.6	30	-N				.56				2 1 1 7
CRON	16	0740	0810	0746	N17	W23	.449	11029	14.6	30	-N	1	C	0746	.56	.64			
CATA	16	0746E	0855	0805	N17	W25	.475	11029	14.4	69D	1B			0805	2.02	2.30		209	T
GRP34962	16	0823	0842	0829	N06	E32	.531	11035	18.7	19	--F				.84				3 3 3 5
BUCA	16	0819	0853		N07	E33	.547	11035	18.8	34	-F		C	0828	1.66	1.90			
CATA	16	0825	0840	0830	N07	E31	.518	11035	18.7	15	-N			0830	.52	.61		174	
CRON	16	0825	0834	0827	N04	E31	.515	11035	18.7	9	-F	1	C	0827	.33	.38			
GRP34963	16	0924	1049	0956	N15	W27	.489	11029	14.4	85	2N				7.43				11 9 8 11
ARCE	16	0850	0932D		N17	W29	.528	11029	14.2	42D	1N		P	0925	2.77	3.20			TF
ISTA	16	0920	1004		N16	W25	.469	11029	14.5	44	1N								
BUCA	16	0922	1108		N14	W27	.484	11029	14.4	106	2B		C	1002	10.63	12.10			
CATA	16	0925E	1125D	0955	N17	W27	.502	11029	14.4	120D	2B			0955	5.51	6.36		251	TZ
CANR	16	0927E	1050U	0952	N12	W27	.474	11029	14.4	83D	2B	2	C	0952	6.88	7.84			
CRON	16	0928	1021D	0952	N15	W28	.503	11029	14.3	53D	1N	2	C	0952	4.43	4.95			
UCCL	16	0932E	1109	0952	N17	W27	.502	11029	14.4	97D	3N		P	0952	9.28	13.10			FI
MONT	16	0935E	1032D	0952	N18	W27	.508	11029	14.4	57D	2B		C	0952	7.22				
LOCA	16	0940E	1115	0955	N14	W25	.456	11029	14.5	95D	3N		P	0955	11.55	13.10			
TEHR	16	0955E	1030D	0958U	N16	W27	.495	11029	14.4	35D	1N		C		3.93				F
MEUD	16	0957E	1030D	1009	N15	W25	.462	11029	14.5	33D	2N		C	1009	6.91	8.00			UZ
7 STATIONS REPORTING GROUP 34964. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34964	16	1045	1118	1054	S11	E08	.274	11032	17.0	33	1N				1.94				5 5 4 5
BUCA	16	1029	1110		S12	E10	.305	11032	17.2	41	1F		P	1052	2.21	2.30			
LOCA	16	1040	1120D	1100	S10	E10	.279	11032	17.2	40D	1N		S	1100	2.10	2.20			
CATA	16	1045	1125D	1050	S10	E07	.251	11032	17.0	40D	-B			1050	.87	.90		204	
UCCL	16	1045	1109D	1051	S11	E05	.252	11032	16.8	24D	1N		P	1051	2.58	2.80			E
CANR	16	1050	1115		S10	E07	.251	11032	17.0	25	-F	3	V			.90			
34964	16	1100	1142	1105	S10	E10	.279	11032	17.2	42	*-F				.83				2 1 1 7
RAMY	16	1100E	1142	1105	S10	E10	.279	11032	17.2	42D	-F		C		.83				DE
ABST	16	1126E	1133D	1129	S10	E11	.289	11032	17.3	7D	-F		P	1129	1.08	1.10			DJ
GRP34965	16	1126	1137	1128	N17	W23	.449	11029	14.8	11	--F				.96				3 2 2 6
RAMY	16	1100E	1137	1102	N15	W32	.557	11029	14.1	37D	-F		C		1.67				DE
ABST	16	1126E	1133D	1128	N17	W23	.449	11029	14.8	7D	-F		P	1128	1.35	1.50			DJ
HUAN	16	1126E	1135	1128	N16	W23	.442	11029	14.8	9D	-N	2	P	1128	.57	.63			D
GRP34967	16	1211	1348	1228	N16	W27	.495	11029	14.5	97	1B				4.05				7 6 6 7
HUAN	16	1209	1324D	1227	N17	W29	.528	11029	14.3	75D	2B	2	P	1227	7.02	8.17			E
CANR	16	1210	1300U	1228	N12	W27	.474	11029	14.5	50D	1B	2	C	1228	3.20	3.70			
RAMY	16	1211	1348	1228	N17	W28	.515	11029	14.4	97	1B		C		3.84				F
MONT	16	1213	1220D	1217	N17	W27	.502	11029	14.5	7D	1N		C	1217	3.09				
MEUD	16	1215E	1217D		N15	W26	.476	11029	14.6	2D	-N		C	1217	1.65	1.90			
CAPS	16	1219E	1233D		N16	W26	.482	11029	14.6	14D	2B	1	P	1220	5.50	6.30		246	
TEHR	16	1242E	1242D	1242U	N16	W28	.509	11029	14.4		1N		C		2.19				F
GRP34969	16	1240	1251	1243	N06	E28	.471	11035	18.6	11	--F				.41				2 2 2 5
RAMY	16	1239	1255	1243	N05	E28	.470	11035	18.6	16	-F		C		.41				DE
HUAN	16	1240	1247	1242	N06	E28	.471	11035	18.6	7	-F	2	C	1242	.40	.46			E
GRP34970	16	1337	1407	1342	N17	W26	.489	11029	14.6	30	1B				2.20				5 5 5 6
CAPE	16	1336	1410	1342	N17	W26	.489	11029	14.6	34	1B		C	1342	2.01	2.30			
MONT	16	1337	1408	1341	N18	W28	.521	11029	14.5	31	1B		C	1341	4.54				
RAMY	16	1337	1406	1342	N18	W23	.457	11029	14.8	29	-N		C		1.03				DE
HUAN	16	1339E	1405	1340U	N16	W27	.495	11029	14.5	26D	1B	1	P	1340	2.42	2.77			E
CATA	16	1345E	1355D	1345	N17	W25	.475	11029	14.7	10D	-B			1345	.98	1.13		251	T
HUAN	16	1403	1411	1404	N15	W31	.543	11029	14.3	8	-N	2	C	1404	.53	.63			D
HUAN	16	1404E	1407	1404U	N15	W29	.517	11029	14.4	3D	-F	2	P	1404	.25	.32			D
972 RAMY	16	1548	1602	1550	S06	E83	.993	11041	22.9	14	--F		C						DE 2
GRP34973	16	1642	1730	1710	N15	W26	.476	11029	14.7	48	--F				.37				2 2 1 4
LOCK	16	1642	1730	1705	N13	W21	.393	11029	15.1	48	-F		C						
HUAN	16	1714E	1717D	1715	N16	W30	.535	11029	14.5	3D	-F	1	P	1715	.37	.44			D
GRP34974	16	1720	1740	1724	S12	E06	.274	11032	17.2	20	--F				.33				2 2 1 4
LOCK	16	1720	1740	1725	S12	E06	.274	11032	17.2	20	-F		C						
HUAN	16	1721E	1731D	1723	S11	E06	.259	11032	17.2	10D	-F	1	P	1723	.33	.34			E
GRP34975	16	1754	1814	1758	N16	W34	.587	11029	14.2	20	--F				.41				2 2 1 2
LOCK	16	1753	1810	1756	N15	W34	.583	11029	14.2	17	-F		C						
RAMY	16	1755	1817	1759	N17	W33	.579	11029	14.3	22	-N		C		.41				DE
976 RAMY	16	1805	1835	1808	S06	E80	.986	11041	22.8	30	--F		C						DE 3

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GRP34977	16	1916	1958	1933	N06	E23	.393	11035	18.5	42	-N				1.69				4 4 3 4
LOCK	16	1910	2010	1930	N06	E23	.393	11035	18.5	60	1F		C						
RAMY	16	1918	1954	1933	N05	E25	.423	11035	18.7	36	-N		C		1.45				DE
BOUL	16	1920	1953	1937	N04	E25	.422	11035	18.7	33	-N	1	C	1937	1.72	1.91			
PALE	16	1923E	1955	1930U	N08	E19	.336	11035	18.2	32D	-N		C		1.90				UDE
GRP34979	16	1958	2017	2003	N15	W30	.530	11029	14.6	19	--F				.74				3 3 2 4
LOCK	16	1955	2013	2000	N15	W30	.530	11029	14.6	18	-F		C						
RAMY	16	1958	2012	2003	N16	W30	.535	11029	14.6	14	-F		C		.62				F
BOUL	16	2000	2025	2005	N15	W31	.543	11029	14.5	25	-F	1	C	2005	.86	1.02			
GRP34980	16	2032	2056	2039	N17	W32	.566	11029	14.5	24	--F				.36				4 4 3 4
LOCK	16	2030	2110	2045	N16	W32	.561	11029	14.5	40	-F		C						
BOUL	16	2030	2037	2031	N17	W31	.554	11029	14.5	7	-N	1	C	2031	.22	.26			
PALE	16	2031	2051	2037	N17	W31	.554	11029	14.5	20	-N		V		.46				F
RAMY	16	2036	2107	2041	N17	W32	.566	11029	14.5	31	-F		C		.41				DE
GRP34982	16	2035	2044	2037	N06	E27	.456	11035	18.9	9	--F				.32				3 3 2 4
LOCK	16	2034	2045	2036	N07	E27	.458	11035	18.9	11	-F		C						
RAMY	16	2035	2044	2037	N05	E25	.423	11035	18.7	9	-F		C		.31				DE
BOUL	16	2036	2044	2037	N06	E29	.486	11035	19.0	8	-N	1	C	2037	.32	.37			
GRP34983	16	2118	2131	2122	N16	W31	.548	11029	14.6	13	--N				.63				3 3 1 5
LOCK	16	2117	2130	2120	N15	W33	.570	11029	14.4	13	-F		C						
PALE	16	2118	2131	2124U	N15	W31	.543	11029	14.6	13	-N		C		.63				F
RAMY	16	2119	2131D		N17	W30	.541	11029	14.6	12D	-N		C						DE
5 STATIONS REPORTING GROUP 34984. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34984	16	2212	2340	2224	N16	W35	.600	11029	14.3	88	1N				2.77				3 3 2 4
PALE	16	2148E	2229D	2222	N16	W35	.600	11029	14.3	41D	1N		C		3.61				DE
LOCK	16	2210	2340	2230	N16	W35	.600	11029	14.3	90	1N		C						
BOUL	16	2215	2233D	2221	N16	W34	.587	11029	14.4	18D	1N	2	C	2221	1.92	2.40			
34984	16	2143	2212	2150	N16	W30	.535	11029	14.7	29	*-N				1.03				3 3 1 4
BOUL	16	2142	2215	2149	N17	W30	.541	11029	14.7	33	-N	2	V						
LOCK	16	2143	2205	2150	N16	W31	.548	11029	14.6	22	-F		C						
CRON	16	2145E	2215		N16	W28	.509	11029	14.8	30D	-N		V		1.03				
34984	16	2136	2350	2308	N16	W36	.613	11029	14.2	134	*1F				2.22				2 2 2 4
CRON	16	2136E	2350	2308	N17	W33	.579	11029	14.4	134D	1N	1	C	2308	2.22	2.60			
VORO	16	2256E	2349		N15	W38	.635	11029	14.1	53D	1F		C	2304	2.22	2.70		111	EJ
GRP34986	17	0006	0022	0011	N13	W28	.493	11029	14.9	16	--F				.65				2 2 2 4
CRON	17	0005	0022	0010	N12	W25	.446	11029	15.1	17	-N	1	C	0009	.67	.72			
PALE	17	0006	0012D	0012	N13	W31	.535	11029	14.7	6D	-F		V		.63				F
987 CULG	17	0045	0153	0104	S03	E78	.979	11041	22.9	68	1N		C	0104	1.24				R 3
GRP34988	17	0121	0200	0127	N15	W35	.597	11029	14.4	39	1N				3.03				5 5 5 5
VORO	17	0120	0153	0126	N14	W35	.593	11029	14.4	33	1F		C	0126	3.51	4.30		83	EHJ
CULG	17	0121	0209	0130	N15	W33	.571	11029	14.6	48	2B		C	0130	4.85	5.87			
CRON	17	0122	0158	0126	N16	W36	.614	11029	14.4	36	1N	1	C	0126	1.77	2.22			
PALE	17	0124E	0131D	0125U	N15	W34	.584	11029	14.5	7D	-B		V		1.35				F
KODA	17	0137E	0142D		N16	W36	.614	11029	14.4	5D	1N		P	0137	3.66	3.70			E
GRP34989	17	0214	0340	0242	S11	E02	.238	11032	17.2	86	-F				1.81				4 2 2 6
CULG	17	0214	0340	0238	S11	E02	.238	11032	17.2	86	1N		C	0238	2.37	2.30			
CRON	17	0222	0318	0226	S12	E01	.253	11032	17.2	56	-N	1	C	0225	.56	.54			
SIBE	17	0244E	0313D	0245	S11	E01	.236	11032	17.2	29D	-F		C	0245	1.24	1.20		60	EJ
TEHR	17	0325E	0338D	0327U	S11	E01	.236	11032	17.2	13D	-F		C		.27				DE
4 STATIONS REPORTING GROUP 34992. 2 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34992	17	0447	0512	0448	N16	W36	.614	11029	14.5	25	-N				1.71				2 2 2 6
TEHR	17	0447E	0512	0448U	N16	W37	.626	11029	14.4	25D	-N		C		1.00				F
KODA	17	0449E	0454D		N16	W35	.601	11029	14.6	5D	1N		S	0449	2.41	2.40	1.76		BU
34992	17	0421	0500	0430	N16	W36	.614	11029	14.5	39	*-F				1.53				2 2 2 3
SIBE	17	0420	0505	0429	N16	W35	.601	11029	14.6	45	-F		C	0429	1.17	1.70		62	CEIJ
CRON	17	0422	0454	0430	N16	W36	.614	11029	14.5	32	1N	1	C	0430	1.89	2.35			
GRP34993	17	0542	0709	0551	N17	W38	.643	11029	14.4	87	1N				2.22				5 5 5 6
CRON	17	0540	0629D	0547	N17	W38	.643	11029	14.4	49D	1N	1	C	0547	1.66	2.11			
SIBE	17	0542	0635D	0556	N16	W37	.626	11029	14.5	53D	1F		C	0556	1.61	2.10		68	CEIJZ
TEHR	17	0542	0710	0548	N17	W38	.643	11029	14.4	88	-N		C		1.83				FDE
TACH	17	0544	0707	0547	N17	W39	.655	11029	14.3	83	1N		C	0547	3.28	4.32	3.20	63	TZ
ABST	17	0555E	0620D	0558	N16	W38	.639	11029	14.4	25D	1F		P	0558	2.70	3.60			EJ

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OBSERV-ATORY	DATE 1970	OBSERVED UT 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
	NOV																		
GRP34995	17	0642	0735	0713	N14	E00	.197	11035	17.3	53	1N				2.57				6 6 5 6
TEHR	17	0640	0732	0712	N14	E00	.197	11035	17.3	52	-N		C		.97				
ABST	17	0642	0736	0712	N15	E01	.215	11035	17.4	54	1N		C	0712	3.60	3.70			E
TACH	17	0642	0740	0714	N15	E00	.214	11035	17.3	58	1N		C	0714	4.28	4.35	2.25	60	E
CRON	17	0645	0735	0713U	N13	E01	.181	11035	17.4	50	-N	1	C	0712	.89	.86			
ONDR	17	0703	0712D		N15	W01	.215	11035	17.2	9D	3F		V	0710			2.50		C
CRIM	17	0720E	0734D		N14	E01	.198	11035	17.4	14D	1F		P	0722	3.10	3.20			EJ
9 STATIONS REPORTING GROUP 34996. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP34996	17	0731	0940	0744	N16	W38	.639	11029	14.5	129	2B				5.51				7 7 7 7
TEHR	17	0729	0843D	0737	N17	W39	.655	11029	14.4	74D	1B		C		4.47				F
TACH	17	0730	0916D	0744	N18	W39	.659	11029	14.4	106D	2N		C	0744	8.84	11.87	5.04	96	TZ
ABST	17	0732	0921D	0749	N17	W38	.643	11029	14.5	109D	2B		P	0749	5.40	7.20			FJK
CRON	17	0732	0900U	0737	N16	W36	.614	11029	14.6	88D	1B	1	C	0736	2.55	3.11			
CRIM	17	0733	0840D		N16	W41	.675	11029	14.2	67D	2B		P	0738	6.30	8.30			FI
CAPS	17	0736E	0825D		N15	W36	.610	11029	14.6	49D	2B	2	P	0741	5.00	6.50		312	
CANR	17	0749E	0940U	0751U	N15	W39	.648	11029	14.4	111D	2B	1	C	0751	6.02	7.95			
34996	17	0752	0844	0758	N17	W40	.667	11029	14.3	52	*1B				6.27				2 2 2 9
MONT	17	0752E	0844	0755	N16	W39	.651	11029	14.4	52D	2B		C	0755	9.28				
CATA	17	0755E	0825D	0800	N17	W40	.667	11029	14.3	30D	1B			0800	3.25	4.24		295	Z
GRP34997	17	0901	0922	0907	N15	E00	.214	11035	17.4	21	-F				1.96				2 2 2 6
MONT	17	0901	0928	0911	N15	W01	.215	11035	17.3	27	1N		C	0911	3.40				
CRON	17	0901	0916	0902	N15	E01	.215	11035	17.5	15	-F		V		.52				
GRP34998	17	0911	0921	0916	S11	W08	.272	11032	16.8	10	--F				.72				2 2 2 4
MONT	17	0911	0920	0916	S11	W09	.281	11032	16.7	9	-N		C	0916	1.13				
CRON	17	0913E	0921		S10	W07	.249	11032	16.9	8D	-F		V		.31				
GRP34999	17	1010	1024	1014	N07	E22	.380	11035	19.1	14	--N				.61				4 4 4 5
TEHR	17	1008	1023D	1012	N04	E21	.358	11035	19.0	15D	-N		C		.45				DE
MONT	17	1009	1020D	1016	N05	E24	.408	11035	19.2	11D	-N		C	1016	1.13				
CANR	17	1009	1028	1013	N04	E22	.375	11035	19.1	19	-N	2	C	1013	.43	.46			
CRON	17	1012	1022		N13	E21	.394	11035	19.0	10	-F		V		.41				
GRP35000	17	1033	1104	1047	N19	W39	.663	11029	14.5	31	-F				1.02				4 3 3 6
CANR	17	1033	1057	1045	N20	W37	.644	11029	14.7	24	-N	2	C	1045	.54	.70			
ABST	17	1040E	1102D	1043	N14	W42	.682	11029	14.3	22D	1F		C	1043	2.25	3.10			EJ
TEHR	17	1050E	1112	1052U	N22	W37	.653	11029	14.7	22D	-F		C		.27				DE
HUAN	17	1102E	1115D	1103	N17	W41	.679	11029	14.4	13D	-N	2	P	1103	.98	1.23			E
HUAN	17	1102E	1115D	1103U	N17	W36	.618	11029	14.8	13D	-F	2	P	1103	.51	.73			D
GRP35003	17	1127	1144	1134	N17	W42	.690	11029	14.3	17	--N				.69				3 3 2 7
RAMY	17	1125	1143	1129U	N17	W43	.702	11029	14.3	18	-F		C		.93				DE
TEHR	17	1125	1142D	1139	N17	W39	.655	11029	14.6	17D	-N		C		.45				DE
CANR	17	1131	1145		N17	W45	.725	11029	14.1	14	-N	2	V			.70			
GRP35004	17	1149	1214	1153	N15	W40	.660	11029	14.5	25	1N				2.05				7 7 6 8
CAPF	17	1147E	1200D		N15	W42	.685	11029	14.3	13D	1N		P	1153	2.27	3.08			
ABST	17	1147E	1202D	1152	N15	W41	.672	11029	14.4	15D	1N		P	1152	2.70	3.70			EJ
RAMY	17	1148	1208	1153	N16	W41	.675	11029	14.4	20	-N		C		1.71				DE
ONDR	17	1149E	1205		N14	W43	.694	11029	14.3	16D	2N		V	1152			3.10		FJ
TEHR	17	1150E	1210	1151	N17	W42	.690	11029	14.3	20D	-N		C		1.55				F
CANR	17	1150	1215	1155	N14	W35	.593	11029	14.9	25	-N	1	C	1155	.54	.67			
CAPS	17	1151	1230D		N15	W35	.597	11029	14.9	39D	1B	3	P	1155	3.50	4.50		237	F
GRP35005	17	1207	1216	1209	S10	W61	.883	11043	12.9	9	--F				.43				3 3 2 7
ONDR	17	1206E	1215		S09	W60	.874	11043	13.0	9D	-F		V	1208			2.00		CD
RAMY	17	1207	1216	1209	S09	W62	.890	11043	12.9	9	-N		C		.31				DE
CANR	17	1207	1217	1209	S11	W60	.876	11043	13.0	10	-F	1	C	1209	.54	1.13			
GRP35007	17	1214	1236	1217	N14	W03	.203	11035	17.3	22	--F				.53				3 3 3 6
TEHR	17	1213	1243D	1217	N14	W03	.203	11035	17.3	30D	-N		C		.55				DE
RAMY	17	1215	1233	1217	N15	W03	.220	11035	17.3	18	-F		C		.72				DE
CANR	17	1215	1233	1218	N13	W03	.187	11035	17.3	18	-F	1	C	1218	.32	.32			
009 RAMY	17	1252	1311	1256	S08	W63	.897	11043	12.8	19	--F		C		.31				DE 4
GRP35012	17	1450	1504	1452	N16	W37	.626	11029	14.8	14	--N				.37				3 3 3 5
RAMY	17	1449	1508	1453	N17	W38	.643	11029	14.8	19	-F		C		.36				DE
CANR	17	1449	1505	1451	N16	W37	.626	11029	14.8	16	-N	1	C	1451	.43	.55			
BOUL	17	1451	1459	1453	N16	W37	.626	11029	14.8	8	-N	1	C	1453	.32	.42			
GRP35013	17	1520	1549	1526	N06	E18	.313	11035	19.0	29	--N				.65				3 3 2 3
BOUL	17	1520	1531D	1522	N05	E17	.294	11035	18.9	11D	-N	2	C	1522	.32	.32			
CANR	17	1520	1545	1525	N05	E18	.311	11035	19.0	25	-N	1	C	1525	.97	1.02			
RAMY	17	1526E	1552	1530U	N08	E19	.336	11035	19.1	26D	-N		C						DE

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OBSERVATORY	DATE 1970 NOV	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
GRP35014	17	1535	1555	1538	N16	W42	.687	11029	14.5	20	-N				.76				3 3 2 3
BOUL	17	1534	1555	1537	N16	W44	.711	11029	14.3	21	-N	2	V						
RAMY	17	1535	1601	1538	N17	W40	.667	11029	14.6	26	-N		C		.77				DE
CANR	17	1535	1550	1538	N14	W42	.682	11029	14.5	15	-N	1	C	1538	.75	1.03			
GRP35015	17	1549	1619	1556	S11	W07	.264	11032	17.1	30	--N				.78				3 3 3 4
CANR	17	1548	1612	1553	S11	W08	.272	11032	17.1	24	-N	1	C	1553	.97	.97			
RAMY	17	1550	1613D	1554	S10	W07	.249	11032	17.1	23D	-N		C		.93				DE
BOUL	17	1550	1632U	1600	S12	W07	.279	11032	17.1	42D	-F	1	C	1600	.43	.43			
GRP35017	17	1755	1837	1801	N16	W45	.722	11029	14.4	42	1N				2.07				6 5 4 6
LOCK	17	1752	1830	1800	N15	W46	.731	11029	14.3	38	-N		C						
PALE	17	1755	1832D	1804	N16	W46	.733	11029	14.3	37D	1N		C		2.06				DE
MCMA	17	1755	1815D	1801	N16	W45	.722	11029	14.4	20D	1B		C	1801	1.55	2.30			E
BOUL	17	1755	1845	1759	N16	W44	.711	11029	14.4	50	1N	1	C	1759	2.26	3.25			
RAMY	17	1756	1843	1802	N17	W45	.725	11029	14.4	47	1B		C		2.40				F
HUAN	17	1811E	1816D	1812U	N16	W47	.745	11029	14.2	5D	-N	1	P	1812	.25	.36			E
HUAN	17	1831E	1837D	1831U	N15	W48	.753	11029	14.2	6D	-N	1	P	1831	.83	1.23			E
HUAN	17	1844	1855	1846U	N16	W43	.699	11029	14.6	11	-F	1	C	1846	.21	.29			D
GRP35018	17	1828	1838	1831	S07	W65	.911	11043	12.9	10	--F				.43				4 4 3 5
LOCK	17	1827	1838	1830	S08	W66	.918	11043	12.8	11	-F		C						
PALE	17	1828E	1837	1830U	S05	W63	.894	11043	13.0	9D	-N		V		.52				
RAMY	17	1828	1839	1831	S08	W65	.911	11043	12.9	11	-N		C		.46				DE
BOUL	17	1829	1838	1832	S07	W65	.911	11043	12.9	9	-F	1	C	1832	.32				
GRP35019	17	1843	1903	1849	N07	E12	.220	11035	18.7	20	--F				.72				2 2 1 4
LOCK	17	1843	1905	1850	N06	E11	.199	11035	18.6	22	-F		C						
RAMY	17	1843	1900	1848	N08	E13	.242	11035	18.8	17	-F		C		.72				UDE
GRP35020	17	1850	1903	1854	N07	W03	.092	11035	17.6	13	--F				.31				2 2 2 4
RAMY	17	1849	1907	1853	N07	W04	.103	11035	17.5	18	-F		C		.31				DE
HUAN	17	1850	1859	1855	N06	W02	.068	11035	17.6	9	-F	1	C	1855	.30	.30			D
GRP35021	17	1941	1949	1944	N18	W42	.694	11029	14.7	8	--F				.41				2 2 1 4
LOCK	17	1938	1950	1940	N17	W42	.690	11029	14.7	12	-F		C						
RAMY	17	1944	1947	1947U	N18	W42	.694	11029	14.7	3	-N		C		.41				DE
4 STATIONS REPORTING GROUP 35022. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP35022	17	2005	2042	2011	N16	W45	.722	11029	14.5	37	-N				.98				3 3 2 4
LOCK	17	2005	2030	2010	N13	W44	.704	11029	14.5	25	-F		C						
PALE	17	2007E	2042	2010	N16	W43	.699	11029	14.6	35D	-N		C		.72				F
RAMY	17	2010E	2055	2012U	N18	W49	.770	11029	14.2	45D	-N		V		1.24				DE
35022	17	2009	2048	2022	N16	W47	.745	11029	14.3	39	*-N				1.27				2 2 2 4
BOUL	17	2008	2041	2023	N14	W44	.706	11029	14.5	33	-N	1	C	2023	1.30	1.81			
RAMY	17	2010	2055	2021	N18	W49	.770	11029	14.2	45	-N		V		1.24				
GRP35023	17	2035	2052	2038	N05	E16	.278	11035	19.1	17	-N				1.21				4 4 3 4
RAMY	17	2033	2054	2037	N07	E15	.268	11035	19.0	21	-N		C		1.03				UDE
LOCK	17	2034	2054	2038	N04	E15	.259	11035	19.0	20	-N		C						
BOUL	17	2035	2048	2038	N04	E16	.276	11035	19.1	13	-B	1	C	2038	.97	.97			
PALE	17	2036	2052	2038	N05	E17	.294	11035	19.1	16	-N		C		1.62				F
GRP35024	17	2137	2147	2140	N15	W49	.764	11029	14.2	10	--N				.26				2 2 1 3
LOCK	17	2137	2150	2140	N14	W50	.773	11029	14.2	13	-N		C						
PALE	17	2138E	2143	2139U	N16	W48	.755	11029	14.3	5D	-N		V		.26				F
GRP35025	17	2233	2327	2257	N16	W48	.755	11029	14.3	54	1N				2.33				3 3 2 5
LOCK	17	2232	2325	2255	N15	W46	.731	11029	14.5	53	1N		C						
PALE	17	2234	2320	2255	N18	W50	.781	11029	14.2	46	1F				2.89				
PALE	17	2234	2320	2242	N18	W50	.781	11029	14.2	46	-N		C		1.63				DE
CRON	17	2249	2335	2300	N16	W47	.745	11029	14.4	46	1N	1	C	2300	1.77	2.60			
GRP35026	18	0122	0133	0124	N04	E14	.243	11035	19.1	11	--N				.80				3 3 3 3
CRON	18	0120	0135	0124	N04	E14	.243	11035	19.1	15	-N	1	C	0124	.67	.64			
VORO	18	0123	0130	0125	N04	E14	.243	11035	19.1	7	-F		C	0125	1.11	1.10		73	EHJ
PALE	18	0124E	0124D	0124E	N05	E15	.262	11035	19.2		-N		C		.63				DE
GRP35027	18	0135	0306	0205	N15	W52	.796	11029	14.2	91	2B				4.18				4 3 3 4
MANI	18	0134	0246	0208	N14	W51	.784	11029	14.2	72	2B	2		0208	3.61	5.60			
CRON	18	0135	0325	0202	N15	W48	.754	11029	14.5	110	1N	2	C	0202	3.33	4.94			
VORO	18	0136	0334	0207	N15	W57	.844	11029	13.8	118	2N		C	0207	4.62	7.00		145	EJK
CULG	18	0143E	0402	0254	N16	W50	.777	11029	14.3	139D	2B		P	0254	5.16	7.50			
GRP35028	18	0408	0434	0412	N15	W52	.796	11029	14.3	26	-N				.97				3 3 3 4
CRON	18	0406	0445	0412	N16	W51	.787	11029	14.3	39	-N	1	C	0412	.67	1.05			
TEHR	18	0408	0432	0412	N17	W52	.799	11029	14.3	24	-N		C		.87				F
VORO	18	0409	0426	0411	N13	W52	.793	11029	14.3	17	1F		C	0411	1.38	2.20		90	EJ

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OBSERV-ATORY	OBSERVED UT DATE 1970 NOV	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	MEASUREMENTS MEAS. AREA Sq. Deg.	MEASUREMENTS CORR. AREA Sq. Deg.	MEASUREMENTS MAX. WIDTH Hα	MEASUREMENTS MAX. INT. %	REMARKS
GRP35029	18	0504	0605	0519	N13	W50	.772	11029	14.5	61	1F				3.61				3 2 2 5
TACH	18	0503E	0621D		N15	W50	.775	11029	14.5	78D	2F		P	0503	4.56	7.27		84	E
CRON	18	0504	0600U	0512U	N11	W49	.758	11029	14.5	56D	1F	1	C	0512	2.66	3.96			
TEHR	18	0523	0532	0525	N20	W42	.701	11029	15.1	9	-N		C		.28				DE
TEHR	18	0546	0554	0549	N20	W42	.701	11029	15.1	8	-F		C		.28				DE
GRP35032	18	0633	0703	0646	N03	E03	.053	11035	18.5	30	--N				.46				2 2 2 4
CATA	18	0630	0705	0645	N03	E02	.036	11035	18.4	35	-B			0645	.58	.58		209	
CRON	18	0635	0700	0646	N03	E03	.053	11035	18.5	25	-F	1	C	0646	.33	.32			
GRP35035	18	0852	0917	0855	N15	W17	.357	11035	17.1	25	--F				.26				2 2 2 5
TEHR	18	0849	0917	0854	N14	W16	.334	11035	17.2	28	-F		C		.28				DE
CATA	18	0855	0900E	0855	N15	W17	.357	11035	17.1	5D	-N			0855	.23	.25		182	Z
GRP35036	18	0943	0953	0945	N14	W49	.763	11029	14.7	10	--N				.64				3 3 1 5
TEHR	18	0943	0957	0945	N16	W52	.797	11029	14.5	14	-N		C		.64				F
ISTA	18	0943	0950		N16	W47	.745	11029	14.9	7	-F								
CANR	18	0943	0953		N11	W49	.758	11029	14.7	10	-N	2	V			.80			
GRP35037	18	0958	1014	0959	N14	W14	.309	11035	17.4	16	--F				.57				2 2 2 4
TEHR	18	0957E	1021	0959	N15	W13	.307	11035	17.4	24D	-N		C		.73				FH
CRON	18	0958	1007		N13	W15	.312	11035	17.3	9	-F		V		.41				
GRP35038	18	1024	1045	1025	S12	W19	.404	11032	17.0	21	-N				.77				4 4 3 4
TEHR	18	1020	1045	1025	S13	W19	.414	11032	17.0	25	-N		C		.73				F
CATA	18	1025	1055E	1025	S11	W19	.395	11032	17.0	30D	-N			1025	.93	1.02		188	
CANR	18	1025E	1041	1025U	S12	W18	.391	11032	17.1	16D	-N	1	C	1025	.64	.70			
ISTA	18	1025	1037		S10	W18	.372	11032	17.1	12	1N								
GRP35039	18	1028	1037	1029	N04	E08	.141	11035	19.0	9	--N				.45				2 2 2 5
CANR	18	1027	1035	1029	N03	E07	.122	11035	19.0	8	-N	1	C	1029	.54	.54			
TEHR	18	1028	1038	1029	N04	E08	.141	11035	19.0	10	-N		C		.36				DE
GRP35040	18	1045	1123	1058	S12	W20	.417	11032	16.9	38	-N				1.29				3 3 3 5
TEHR	18	1045	1128	1058U	S13	W19	.414	11032	17.0	43	-F		C		1.19				DE
ZURI	18	1056E	1105	1058	S12	W20	.417	11032	17.0	9D	-N		P	1058	1.52	1.70			
CATA	18	1057E	1135	1057	S10	W21	.413	11032	16.9	38D	-N			1057	1.16	1.28		170	
043 RAMY	18	1330E	1339D	1330U	N14	W17	.348	11035	17.3	9D	--F		C		.62				DE 3
GRP35044	18	1406	1425	1411	N04	W02	.043	11035	18.4	19	-N				.78				4 4 4 5
CANR	18	1406	1425	1408	N03	W02	.036	11035	18.4	19	-N	1	C	1408	1.08	1.08			
MONT	18	1406	1423D	1408	N04	W01	.031	11035	18.5	17D	-N		C	1408	1.13				
RAMY	18	1412E	1421D	1414	N04	W03	.058	11035	18.4	9D	-N		C		.52				DE
CATA	18	1415E	1425E	1415	N03	W02	.036	11035	18.4	10D	-N			1415	.40	.41		186	
6 STATIONS REPORTING GROUP 35048. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP35048	18	1606	1715	1636	N07	W02	.085	11035	18.5	69	-N				1.54				5 4 2 6
CANR	18	1600	1725		N06	W03	.080	11035	18.4	85	-N	2	V			1.00			
MCMA	18	1607E	1711D		N07	W01	.080	11035	18.6	64D	-N		P	1634	1.55	1.50			EF
LOCK	18	1610	1710	1625	N08	W02	.102	11035	18.5	60	1F		C						
HUAN	18	1627E	1630D	1627U	N06	W03	.080	11035	18.5	3D	-N	1	P	1627	1.52	1.53			E
BOUL	18	1653	1711	1656	N11	W02	.151	11035	18.6	18	-N	1	V						
35048	18	1510	1600	1525	N07	W03	.094	11035	18.4	50	*1N				1.85				4 3 2 4
BOUL	18	1510	1822	1528	N08	W02	.102	11035	18.5	192	1N	1	V						
CANR	18	1510	1600	1520	N05	W03	.068	11035	18.4	50	-N	1	C	1520	1.50	1.50			
RAMY	18	1510	1746D	1527	N07	W04	.104	11035	18.3	156D	1F				2.20				UDE
RAMY	18	1510	1746D	1515	N07	W04	.104	11035	18.3	156D	-F		C		.83				UDE
HUAN	18	1805E	1815D	1807U	N07	W02	.085	11035	18.6	10D	-N	1	P	1807	1.52	1.53			E
35048	18	1510	1636	1611	N06	W03	.080	11035	18.4	86	*-F				1.49				2 2 2 7
RAMY	18	1510	1746D	1612	N07	W04	.104	11035	18.3	156D	1F				2.07				UDE
HUAN	18	1548E	1610D	1610U	N06	W03	.080	11035	18.4	22D	-N	2	P	1610	.91	.92			E
RAMY	18	1613	1636	1616	N06	W03	.080	11035	18.5	23	-F		C		.41				DE
GRP35049	18	1516	1543	1520	N01	W13	.226	11035	17.7	27	-N				1.03				4 3 1 4
CANR	18	1512	1540		N01	W14	.243	11035	17.6	28	-N	3	V			1.00			
RAMY	18	1517	1533	1521	N01	W13	.226	11035	17.7	16	-F		C		1.03				DE
BOUL	18	1518	1557	1519	S00	W11	.196	11035	17.8	39	1N	1	V						
HUAN	18	1548E	1558	1549U	N02	W14	.242	11035	17.6	10D	-F	1	P	1549	.28	.29			D
35049	18	1510	1746	1739	N08	W02	.102	11035	18.5	156	*-F				1.87				2 2 2 7
RAMY	18	1510	1746D	1739	N07	W04	.104	11035	18.3	156D	-N				1.56				UDE
PALE	18	1731E	1742D	1739U	N08	E01	.097	11035	18.8	11D	1F		C		2.17				F

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GRP35050	18	1532	1547	1536	N11	E82	.989	11045	24.8	15	--N								3 3 0 3
CANR	18	1530	1600		N10	E84	.994	11045	24.9	30	-N	1	V			.80			
BOUL	18	1531	1543	1534	N12	E80	.984	11045	24.6	12	-N	1	V						
RAMY	18	1534	1537	1537	N12	E82	.989	11045	24.8	3	-N		C						DE
GRP35051	18	1833	1850	1837	N04	E01	.031	11035	18.8	17	--N				.38				3 3 2 3
LOCK	18	1832	1850	1837	N04	E04	.074	11035	19.1	18	-N		C						
BOUL	18	1833	1849	1837	N04	E03	.058	11035	19.0	16	-F	1	C	1837	.43	.43			
HUAN	18	1836E	1837D	1836U	N04	W04	.074	11035	18.5	1D	-B	1	P	1836	.33	.33			D
GRP35052	18	1933	1942	1936	N01	W03	.059	11035	18.6	9	--F				.32				2 2 1 3
BOUL	18	1933	1943	1936	N01	W02	.044	11035	18.7	10	-F	1	C	1936	.32	.32			
LOCK	18	1933	1941	1936	N01	W03	.059	11035	18.6	8	-F		C						
GRP35054	18	2016	2047	2031	N01	W03	.059	11035	18.6	31	--F								2 2 0 4
BOUL	18	2011	2023	2013	N01	W03	.059	11035	18.6	12	-F	1	C	2013	.32	.32			
LOCK	18	2020	2100	2030	N01	W04	.075	11035	18.5	40	-F		C						
BOUL	18	2031	2033	2031	N02	W02	.036	11035	18.7	2	-F	1	V						
055 PALE	18	2121E	2127D	2122U	N15	W23	.437	11035	17.2	6D	--F		C		.27				3
GRP35056	18	2122	2137	2127	N06	E02	.070	11035	19.0	15	--F				.99				3 3 2 3
PALE	18	2121E	2127D	2127D	N07	E03	.094	11035	19.1	6D	-F		C		1.54				F
LOCK	18	2123	2137	2127	N05	E01	.047	11035	19.0	14	-N		C						
BOUL	18	2124U	2132D	2127	N06	E02	.070	11035	19.0	8D	-F	1	C	2127	.43	.43			
GRP35058	18	2210	2241	2213	N10	W05	.156	11035	18.5	31	-N				1.91				3 3 2 3
LOCK	18	2205	2230	2211	N09	W06	.153	11035	18.5	25	-N		C						
CULG	18	2208E	2256	2214	N10	W06	.166	11035	18.5	48D	1N		P	2214	2.27	2.20			H
CRON	18	2218	2237		N10	W04	.147	11035	18.6	19	-N		V		1.55				
GRP35059	18	2322	2344	2329	N05	W01	.047	11035	18.9	22	-N				1.67				5 5 4 5
LOCK	18	2317	2336D	2330	N06	W01	.063	11035	18.9	19D	1N		C						
CULG	18	2318	2355D	2331	N06	W01	.063	11035	18.9	37D	1N		P	2331	2.58	2.50			U
VORO	18	2318	2334	2324	N04	W01	.031	11035	18.9	16	-F		C	2324	1.11	1.10		100	EJ
CRON	18	2323E	2349	2326	N05	W01	.047	11035	18.9	26D	-N	1	C	2325	1.44	1.40			
PALE	18	2332	2333D	2333D	N06	W01	.063	11035	18.9	1D	-B		C		1.54				DE
060 VORO	19	0010	0022	0014	N12	W59	.859	11029	14.6	12	--F		C	0014	.93	1.70		85	EJ 2
GRP35061	19	0034	0054	0038	N15	W25	.465	11035	17.1	20	--F				.49				2 2 2 3
VORO	19	0033	0045	0035	N14	W25	.458	11035	17.1	12	-F		C	0035	.65	.70		72	E
CRON	19	0035	0103	0040U	N16	W25	.471	11035	17.1	28	-F	1	C	0039	.33	.37			
GRP35062	19	0238	0308	0245	N02	W07	.122	11035	18.6	30	-N				1.39				3 3 3 3
CULG	19	0235	0314	0247	N03	W07	.122	11035	18.6	39	1N		C	0247	2.58	2.50			
CRON	19	0239	0307	0247	N01	W06	.107	11035	18.7	28	-N	1	C	0247	.56	.54			
VORO	19	0239	0304	0240	N01	W07	.124	11035	18.6	25	-F		C	0240	1.02	1.00		92	EJ
063 TEHR	19	0522	0541	0526	N17	W60	.872	11029	14.7	19	-N		C		.83				F 3
065 TEHR	19	0547	0609	0549	N17	W60	.872	11029	14.7	22	-N		C		.64				F 3
GRP35066	19	0628	0657	0635	N13	W27	.481	11035	17.2	29	--N				.42				3 3 3 4
CATA	19	0625	0655E	0635	N14	W27	.486	11035	17.2	30D	-B			0635	.58	.66		209	
CRON	19	0629	0655	0636	N13	W27	.481	11035	17.2	26	-N	1	C	0636	.33	.37			
TEHR	19	0631	0702	0635	N13	W28	.495	11035	17.2	31	-N		C		.36				FDE
GRP35067	19	0803	0835	0817	N19	W61	.882	11029	14.8	32	--N				.34				3 2 2 6
TEHR	19	0757	0835	0801	N17	W63	.895	11029	14.6	38	-N		C		.28				FDE
CRON	19	0803U	0835U	0813U	N17	W61	.880	11029	14.8	32D	-N	1	C	0813	.44	.91			
CATA	19	0810E	0835	0820	N20	W60	.875	11029	14.8	25D	-N			0820	.23	.49		191	
GRP35069	19	0927	0942	0930	S11	W37	.632	11032	16.6	15	--N				.68				3 3 3 5
TEHR	19	0925	0946	0930	S11	W38	.644	11032	16.5	21	-N		C		.36				F
CRON	19	0928	0937	0930	S11	W38	.644	11032	16.5	9	-N	1	C	0930	.89	1.12			
CAPS	19	0929E	0935D		S11	W36	.619	11032	16.7	6D	-F	1	V	0932	.80	1.00			C
GRP35070	19	0937	0955	0946	N17	W62	.888	11029	14.8	18	--N				.28				3 3 3 5
TEHR	19	0935	0956	0941	N17	W62	.888	11029	14.7	21	-N		C		.28				DE
CRON	19	0938	0951D	0948	N17	W62	.888	11029	14.8	13D	-N	1	C	0947	.23	.47			
CANR	19	0945E	0954	0948	N17	W61	.880	11029	14.8	9D	-N	2	C	0948	.32	.68			
GRP35072	19	1018	1027	1019	S11	W37	.632	11032	16.7	9	--N				.54				5 5 5 6
TEHR	19	1017	1035	1019	S11	W38	.644	11032	16.6	18	-N		C		.28				DE
CANR	19	1018	1027	1020	S12	W37	.636	11032	16.7	9	-N	2	C	1020	.75	.98			
CAPE	19	1018	1025	1019	S12	W38	.648	11032	16.6	7	-N		C	1019	.96	1.30			
CAPS	19	1020E	1025D		S11	W36	.619	11032	16.7	5D	-F		V	1023	.40	.50			C
CRON	19	1021E	1025		S11	W35	.606	11032	16.8	4D	-F		V		.31				

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GRP35073	19	1019	1031	1021	N15	W30	.532	11035	17.2	12	--N				.67				5 5 5 6
TEHR	19	1017	1032	1020	N16	W31	.551	11035	17.1	15	-N		C		.28				DE
CAPE	19	1018	1028	1021	N16	W31	.551	11035	17.1	10	-F		C	1021	1.22	1.50			
CANR	19	1020	1033	1021	N15	W31	.546	11035	17.1	13	-N	2	C	1021	.64	.77			
CAPS	19	1020E	1034D		N14	W29	.514	11035	17.3	14D	-N		V	1023	.60	.70			CE
CRON	19	1021E	1030		N13	W29	.509	11035	17.3	9D	-N		V		.62				
GRP35074	19	1039	1110	1044	N03	W12	.208	11035	18.5	31	--N				.62				5 5 4 7
CAPF	19	1038E	1100D		N02	W11	.191	11035	18.6	22D	-N		P	1041	1.03	1.10			H
TEHR	19	1038	1116	1043	N02	W12	.208	11035	18.5	38	-N		C		.45				DE
CANR	19	1040	1105	1043	N01	W12	.209	11035	18.5	25	-N	2	C	1043	.54	.54			
CAPS	19	1040E	1110D		N01	W10	.175	11035	18.7	30D	-N	1	V						
CATA	19	1045E	1050E	1045	N02	W13	.225	11035	18.5	5D	-B			1045	.46	.48		219	
TEHR	19	1115	1130	1116	N12	W13	.277	11035	18.5	15	-N		C		.36				FDE
GRP35076	19	1132	1153	1136	N08	W07	.155	11035	19.0	21	--F				.52				2 2 2 5
TEHR	19	1132	1153	1136	N08	W06	.142	11035	19.0	21	-F		C		.28				DE
CATA	19	1135E	1150E	1135	N08	W07	.155	11035	19.0	15D	-N			1135	.75	.76		195	
GRP35078	19	1240	1257	1245	N15	W67	.922	11029	14.5	17	-N				.64				3 3 3 5
TEHR	19	1238	1300	1245	N16	W67	.922	11029	14.5	22	-N		C		.64				FDE
CANR	19	1239	1255	1245U	N16	W67	.922	11029	14.5	16	-N	2	C	1245	.75				
RAMY	19	1243	1256	1246	N14	W66	.915	11029	14.6	13	-F		C		.52				DE
GRP35079	19	1244	1253	1246	N05	W11	.196	11035	18.7	9	--F				.63				2 2 2 5
RAMY	19	1242	1253	1246	N04	W08	.142	11035	18.9	11	-F		C		.72				DE
CANR	19	1245	1253	1246	N05	W13	.229	11035	18.6	8	-N	2	C	1246	.54	.54			
GRP35080	19	1322	1338	1325	N14	W32	.554	11035	17.2	16	-N				1.36				4 4 4 4
RAMY	19	1320	1340	1326	N15	W32	.559	11035	17.2	20	-N		C		1.14				DE
CANR	19	1322	1333	1324	N09	W34	.566	11035	17.0	11	-B	2	C	1324	.97	1.18			
CAPE	19	1323	1335	1325	N16	W33	.577	11035	17.1	12	-N		C	1325	1.31	1.60			
CAPS	19	1324E	1342D		N14	W30	.527	11035	17.3	18D	1N	1	V	1325	2.00	2.40			
GRP35081	19	1356	1405	1358	N14	W66	.915	11029	14.6	9	--N				.47				3 3 2 4
CANR	19	1355	1406	1356	N14	W65	.908	11029	14.7	11	-N	1	C	1356	.32				
RAMY	19	1355	1406	1358	N14	W66	.915	11029	14.6	11	-F		C		.62				DE
BOUL	19	1359	1404	1400	N14	W67	.921	11029	14.6	5	-N	1	V						
3 STATIONS REPORTING GROUP 35082. 1 STATIONS OBSERVING AND NOT REPORTING.																			
GRP35082	19	1500	1530	1506	N05	W17	.295	11035	18.4	30	--F				.66				2 2 2 3
RAMY	19	1459	1530	1505	N05	W17	.295	11035	18.3	31	-F		C		.67				UDE
CANR	19	1500	1530	1506U	N05	W17	.295	11035	18.4	30	-N	2	C	1506	.64	.64			
35082	19	1459	1535	1517	N06	W18	.314	11035	18.3	36	*-F				.88				2 2 2 4
RAMY	19	1459	1530	1517	N05	W17	.295	11035	18.3	31	-F		C		.93				
MCMA	19	1520E	1540		N06	W19	.330	11035	18.2	20D	-N		C	1520	.83	.80			EL
GRP35086	19	1638	1655	1642	N15	W34	.585	11035	17.1	17	-B				1.43				5 5 3 5
BOUL	19	1636	1658	1642	N16	W33	.577	11035	17.2	22	-B	1	V						
MCMA	19	1637	1657	1642	N14	W34	.581	11035	17.1	20	-B		C	1642	1.55	1.50			EV
RAMY	19	1638	1654	1641	N15	W33	.572	11035	17.2	16	-N		C		1.14				DE
LOCK	19	1640	1653	1642	N15	W35	.598	11035	17.1	13	-B		C						V
CANR	19	1640	1653	1642	N15	W34	.585	11035	17.1	13	-B	1	C	1642	1.61	1.96			
GRP35088	19	1857	1902	1858	N13	W36	.604	11035	17.1	5	--F				.22				2 2 1 2
LOCK	19	1856	1902	1858	N13	W36	.604	11035	17.1	6	-F		C						
BOUL	19	1857	1902	1858	N12	W35	.587	11035	17.2	5	-N	1	C	1858	.22	.27			
GRP35089	19	2028	2141	2033	N14	W35	.594	11035	17.2	73	--F				.29				3 3 2 3
LOCK	19	2028	2043	2033	N13	W36	.604	11035	17.2	15	-F		C						H
BOUL	19	2032E	2140	2033U	N16	W35	.602	11035	17.2	68D	-N	1	C	2033	.21	.27			
PALE	19	2034E	2141	2034E	N13	W35	.591	11035	17.2	67D	-F		V		.36				
GRP35090	19	2107	2137	2115	N07	W22	.381	11035	18.2	30	--F								2 2 0 2
LOCK	19	2100	2140	2115	N06	W23	.394	11035	18.1	40	-F		C						
BOUL	19	2113	2133	2115	N08	W20	.353	11035	18.4	20	-F	1	V						
GRP35091	19	2247	2319	2253	N01	W20	.343	11035	18.4	32	1N				2.22				3 2 1 3
CULG	19	2242	0144	2358	N00	W18	.312	11035	18.6	182	2N		C	2358	8.15	8.15			H
LOCK	19	2246	2315	2254	N01	W19	.326	11035	18.5	29	1N		C						
CRON	19	2247	2322	2251	N01	W20	.343	11035	18.4	35	1N	1	C	2251	2.22	2.30			
GRP35092	20	0057	0156	0111	N04	W16	.277	11035	18.8	59	1B				5.09				2 2 2 2
CULG	20	0053	0200	0112	N07	W14	.254	11035	19.0	67	2B		C	0112	7.63	7.40			HLS
CRON	20	0101	0152	0110	N05	W15	.262	11035	18.9	51	1N	1	C	0109	2.55	2.47			
093 CRON	20	0242	0247	0243	N17	E78	.978	11048	26.0	5	--F		V		.41				2

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	NOV																		
GRP35094	20	0354	0412	0356	N04	W25	.423	11035	18.3	18	--F				.69				2 2 2 3
TEHR	20	0354	0413	0356	N04	W25	.423	11035	18.3	19	-N		C		.55				DE
CRON	20	0358E	0410		N03	W24	.406	11035	18.4	12D	-F		V		.83				
GRP35095	20	0407	0458	0421	N16	W39	.653	11035	17.2	51	-N				1.85				3 3 3 3
CULG	20	0359	0518	0424	N16	W38	.641	11035	17.3	79	1B		P	0424	3.40	4.29			
CRON	20	0407	0440	0420	N16	W39	.653	11035	17.2	33	-N	1	C	0420	1.33	1.70			
TEHR	20	0414	0435	0419	N16	W38	.641	11035	17.3	21	-N		C		.83				DE
TEHR	20	0432	0455	0435	N15	W40	.662	11035	17.2	23	-N		C		.28				DE
GRP35096	20	0723	0742	0728	N15	W40	.662	11035	17.3	19	--N				.36				3 3 2 3
TEHR	20	0721	0744	0727	N15	W40	.662	11035	17.3	23	-N		C		.28				DE
CRON	20	0724U	0735U	0728U	N15	W41	.674	11035	17.2	11D	-F	1	C	0728	.44	.59			
ISTA	20	0725	0740		N14	W40	.659	11035	17.3	15	-N								
GRP35100	20	0936	0959	0941	N08	W19	.338	11035	19.0	23	-N				.95				4 4 4 6
CRON	20	0936	0945	0939	N07	W18	.318	11035	19.0	9	-F	1	C	0939	.44	.45			
ZURI	20	0936	0957	0940	N07	W20	.350	11035	18.9	21	-B		C	0940	1.22	1.30			
CAPE	20	0936	1000	0940	N08	W18	.322	11035	19.0	24	-F		C	0940	1.09	1.20			
CATA	20	0945E	1015E	0945	N08	W19	.338	11035	19.0	30D	-N			0945	1.04	1.11		174	
GRP35103	20	1143	1315	1300	N03	W27	.454	11035	18.5	92	-B				.88				2 2 2 6
CANR	20	1143E	1315D		N02	W27	.454	11035	18.5	92D	-N	2	V		.60				
CATA	20	1300E	1310E	1300	N03	W26	.438	11035	18.6	10D	-B			1300	1.16	1.29		209	
35103	20	1243	1311	1249	N02	W26	.438	11035	18.6	28	*-N				1.16				3 3 3 5
TEHR	20	1242	1308D	1245	N02	W25	.422	11035	18.7	26D	-N		C		.36				DE
CANR	20	1243	1318D	1247	N01	W25	.423	11035	18.7	35D	-N	1	C	1247	.86	.95			
MONT	20	1245E	1307	1256	N02	W28	.469	11035	18.4	22D	-N		C	1256	2.27				
GRP35104	20	1326	1417	1352	N06	W31	.517	11035	18.2	51	-N				1.76				7 6 6 7
CAPE	20	1320	1415	1355	N06	W32	.532	11035	18.2	55	-N		C	1355	1.14	1.30			
RAMY	20	1321	1348	1347	N05	W32	.531	11035	18.2	27	-N		C		.98				
RAMY	20	1321	1348D	1326	N05	W32	.531	11035	18.2	27D	-F		C		.77				UDE
CATA	20	1325E	1420	1345	N07	W31	.519	11035	18.2	55D	-B			1345	1.09	1.30		216	
MONT	20	1336	1416	1354	N05	W31	.516	11035	18.2	40	-N		C	1354	2.27				
WEND	20	1340E	1417		N07	W30	.504	11035	18.3	37D	1N		P		4.13				
CANR	20	1346E	1417	1350	N04	W30	.500	11035	18.3	31D	-N	1	C	1350	.97	1.12			
HUAN	20	1358E	1419	1358U	N05	W31	.516	11035	18.3	21D	-N	1	P	1358	.91	1.05			FI
105 RAMY	20	1547	1556	1549	N15	W46	.733	11035	17.2	9	--F		C		.41				DE 3
106 BOUL	20	1638E	1650	1638U	N15	W82	.989	11029	14.5	12D	-N	1	C	1638	.32				2
107 BOUL	20	1651	1708	1654	N04	W36	.588	11035	18.0	17	--F	1	V						2
GRP35108	20	1658	1725	1707	N15	W47	.744	11035	17.2	27	--F				.43				3 2 1 3
LOCK	20	1658	1730	1707	N14	W47	.742	11035	17.2	32	-F		C						
BOUL	20	1658	1719	1706	N15	W47	.744	11035	17.2	21	-N	1	C	1706	.43	.64			
RAMY	20	1720E	1725D	1720U	N15	W47	.744	11035	17.2	5D	-F		C		.52				DE
110 LOCK	20	2236	2244	2238	N06	W36	.589	11035	18.2	8	-N		C						3
111 CRON	21	0231	0246		N14	W57	.843	11035	16.8	15	--F		V						2
112 CRON	21	0250	0303	0252	N28	W82	.990	11029	15.0	13	--N	1	C	0252	.23				2
113 CRON	21	0518	0532	0519	N16	W60	.871	11035	16.7	14	--F	1	C	0519	.23	.43			3
GRP35114	21	0703	0728	0704	N07	W39	.631	11035	18.4	25	-F				.89				3 3 2 5
CATA	21	0655	0720	0700	N05	W41	.656	11035	18.2	25	-N			0700	1.22	1.61		186	T
TEHR	21	0705E	0720	0707U	N06	W39	.630	11035	18.4	15D	-F		C		.55				DE
CRON	21	0708	0745		N09	W37	.608	11035	18.5	37	-F		V						
35114	21	0722	0802	0733	N05	W40	.643	11035	18.3	40	*-N				1.44				5 5 4 5
ISTA	21	0655	0755	0725	N04	W37	.602	11035	18.5	60	-F								
CRON	21	0719U	0758U	0732U	N05	W41	.656	11035	18.2	39D	-N	1	C	0731	1.56	1.97			
TEHR	21	0723	0803	0733	N05	W40	.643	11035	18.3	40	-N		C		1.19				FDE
CATA	21	0725	0805	0740	N07	W42	.671	11035	18.2	40	1B			0740	1.73	2.34		219	T
CAPE	21	0734E	0810	0736	N06	W42	.670	11035	18.2	36D	-N		P	0736	1.27	1.70			T
GRP35115	21	0820	0849	0821	N05	W41	.656	11035	18.3	29	--N				.66				3 3 3 6
CRON	21	0820U	0849U	0821U	N05	W42	.669	11035	18.2	29D	-N	1	C	0821	.56	.72			
CATA	21	0820	0900	0820	N05	W41	.656	11035	18.3	40	-N			0820	.87	1.15		199	T
TEHR	21	0820	0838	0821	N04	W40	.643	11035	18.3	18	-F		C		.55				F
GRP35118	21	0906	1004	0911	N04	W41	.656	11035	18.3	58	--N				.41				2 1 1 4
TEHR	21	0906	1004	0911	N04	W41	.656	11035	18.3	58	-N		C		.41				DE
CATA	21	0910E	0955E	0925	N04	W40	.643	11035	18.4	45D	-N			0925	.98	1.29		199	T

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	NOV																		
GRP35119	21	1126	1153	1133	N14	W63	.893	11035	16.8	27	--F				.64				2 2 2 2
TEHR	21	1123	1153	1133	N13	W61	.877	11035	16.9	30	-F		C		.36				HDE
CAPE	21	1128	1138D	1133	N15	W64	.901	11035	16.7	10D	-F		P	1133	.92	2.00			
GRP35120	21	1156	1254	1159	N16	W51	.789	11035	17.7	58	-N				.84				2 2 2 2
TEHR	21	1156	1211	1159	N15	W50	.776	11035	17.7	15	-N		C		.45				DE
CAPE	21	1204E	1250		N17	W51	.791	11035	17.7	46D	-N		P	1204	1.22	2.00			
TEHR	21	1224	1258	1230	N16	W50	.778	11035	17.8	34	-N		C		.28				DE
GRP35121	21	1323	1400	1332	N06	W46	.720	11035	18.1	37	1B				2.16				2 2 2 2
MCMA	21	1322	1400D	1330	N06	W46	.720	11035	18.1	38D	1B		C	1330	1.86	2.60			F
CAPE	21	1323	1350D	1334	N05	W45	.707	11035	18.2	27D	1N		P	1334	2.45	3.60			FHI
GRP35122	21	1513	1606	1524	N08	W41	.659	11035	18.6	53	1B				2.80				2 2 2 2
MCMA	21	1512	1606D	1521	N07	W41	.658	11035	18.6	54D	1B		C	1521	2.78	3.70			F
CAPE	21	1513	1539D	1527	N08	W40	.646	11035	18.6	26D	1B		P	1527	2.81	3.80			H
	21	1606	1702	NO FLARE PATROL															
123 BOUL	21	1810	1840	1826	N10	W45	.712	11035	18.4	30	-N	1	V						2
GRP35124	21	1911	1926	1914	N05	W40	.643	11035	18.8	15	--F				.37				3 3 2 4
LOCK	21	1910	1925	1915	N05	W39	.630	11035	18.9	15	-F		C						
BOUL	21	1912	1931	1914	N06	W38	.617	11035	18.9	19	-N	1	C	1914	.43	.55			
PALE	21	1913E	1921	1913	N03	W44	.694	11035	18.5	8D	-F		V		.31				F
125 LOCK	21	2223	2236	2226	N10	E36	.596	11045	24.6	13	--F		C						3
127 MITK	22	0137	0146	0140	N12	W50	.772	11035	18.3	9	--F		C	0140	.72	1.10			E 2
GRP35128	22	0218	0222	0218	N10	W50	.769	11035	18.3	4	--F				.59				2 2 2 5
VORO	22	0217	0222	0218	N08	W49	.756	11035	18.4	5	-F		C	0218	.46	.70		68	EJ
MITK	22	0218	0222	0218	N12	W51	.783	11035	18.3	4	-F		C	0218	.72	1.10			E
GRP35129	22	0257	0313	0300	N13	W72	.951	11035	16.7	16	-N				.45				3 3 3 4
PALE	22	0257	0316	0302	N13	W71	.946	11035	16.8	19	-N		C		.36				H
VORO	22	0257	0311	0258	N12	W72	.951	11035	16.7	14	-F		C	0258	.37	1.10		87	D
MITK	22	0258	0312	0300	N14	W74	.961	11035	16.6	14	-N		C	0300	.62				D
131 TEHR	22	0437	0449	0438	N03	W42	.669	11035	19.0	12	--N		C		.51				DE 3
GRP35134	22	0825	0841	0828	N15	W75	.966	11035	16.7	16	-N				.64				5 5 5 6
TEHR	22	0823	0837	0827	N13	W74	.961	11035	16.8	14	-N		C		.45				F
CANR	22	0823	0849D	0827	N14	W74	.961	11035	16.8	26D	-N	2	C	0827	.64				
CAPE	22	0824	0840	0827	N15	W75	.966	11035	16.7	16	-N		C	0827	1.01				T
CRON	22	0824U	0840U	0827U	N15	W76	.970	11035	16.6	16D	-F	1	C	0826	.56				
CATA	22	0830	0840	0830	N16	W74	.962	11035	16.8	10	-N			0830	.52			191	
GRP35138	22	1200	1224	1206	N15	W67	.922	11035	17.5	24	--N				.43				4 4 4 6
RAMY	22	1157E	1225	1159U	N17	W63	.896	11035	17.8	28D	-N		V		.41				DE
TEHR	22	1200	1227	1204	N13	W69	.934	11035	17.3	27	-N		C		.28				DE
CATA	22	1200	1225	1210	N16	W69	.935	11035	17.3	25	-N			1210	.29			186	
CAPE	22	1201	1220	1211	N14	W68	.928	11035	17.4	19	-F		C	1211	.74	2.20			
GRP35139	22	1239	1256	1243	N16	W69	.935	11035	17.4	17	-N				.98				5 5 4 6
CAPE	22	1237	1300	1245	N14	W69	.934	11035	17.4	23	-N		C	1245	1.19	3.50			
CATA	22	1240	1255	1240	N16	W69	.935	11035	17.4	15	-N			1240	.69			193	
RAMY	22	1241E	1253	1245U	N15	W68	.929	11035	17.4	12D	-B		V		1.14				DE
ZURI	22	1242E	1254	1242	N14	W68	.928	11035	17.4	12D	1N		P	1242	.91				
CAPS	22	1242E	1250D		N19	W71	.948	11035	17.2	8D	1N	1	S						
142 RAMY	22	1545	1600D	1549	N06	W60	.866	11035	18.2	15D	--F		C		.41				DE 2
GRP35143	22	1639	1652	1640	N03	W50	.766	11035	18.9	13	-B				1.23				4 4 3 4
CANR	22	1638	1657	1640	N03	W48	.743	11035	19.1	19	-B	2	C	1640	1.28	1.92			
HUAN	22	1639E	1641D	1640	N02	W50	.766	11035	18.9	2D	1B	2	P	1640	1.47	2.27			
LOCK	22	1639	1648	1640	N04	W50	.766	11035	18.9	9	-B		C						
RAMY	22	1639	1652	1641	N02	W50	.766	11035	18.9	13	-N		C		.93				DE
144 LOCK	22	1830	1845	1835	N12	W72	.951	11035	17.4	15	--F		C						2
GRP35145	22	2007	2048	2021	N07	W57	.839	11035	18.6	41	-N				1.75				3 3 2 3
LOCK	22	2005	2045	2020	N06	W57	.838	11035	18.6	40	-N		C						
PALE	22	2008	2030D	2019U	N09	W56	.830	11035	18.6	22D	-F		C		1.18				DEU
HUAN	22	2023E	2051D	2024	N06	W57	.838	11035	18.6	28D	1N	1	P	2024	2.32	4.05			E

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GRP35146	22	2158	2210	2202	N07	W65	.906	11035	18.0	12	--F				.32				4 4 2 4
LOCK	22	2155	2210	2200	N06	W64	.898	11035	18.1	15	-F		C						
HUAN	22	2200	2201D		N05	W63	.890	11035	18.2	10	-N	1	P		.37	.81			D
PALE	22	2203E	2211D	2203E	N05	W64	.898	11035	18.1	8D	-F		C		.27				F
CRON	22	2206E	2210		N13	W68	.928	11035	17.8	4D	-N		V						
GRP35150	22	2348	0017	2357	N13	E26	.469	11045	24.9	29	-F				1.58				2 2 2 3
CULG	22	2345	0033	0000	N14	E26	.475	11045	24.9	48	1N		C	0000	2.48	2.76			RS
CRON	22	2350	0000	2354	N12	E25	.449	11045	24.9	10	-F	1	C	2354	.67	.72			
GRP35151	23	0008	0021	0010	N03	W53	.798	11035	19.0	13	-N				1.09				2 2 2 3
VORO	23	0006	0014	0008	N01	W53	.799	11035	19.0	8	-F		C	0008	.84	1.40		101	EJ
CULG	23	0009	0028	0011	N04	W52	.788	11035	19.1	19	1B		C	0011	1.34	2.21			V
	23	0330	0336	NO FLARE PATROL															
2 STATIONS REPORTING GROUP 35154. 6 STATIONS OBSERVING AND NOT REPORTING.																			
GRP35154	23	1000	1012	1003	N12	W74	.961	11035	17.9	12	-N				1.19				2 2 2 8
MONT	23	0959	1007	1003	N07	W75	.965	11035	17.8	8	-N		C	1003	2.06				
TEHR	23	1000	1017	1002	N16	W72	.952	11035	18.0	17	-N		C		.32				DE
154 MONT	23	1004	1012	1006	N05	W62	.882	11035	18.8	8	*-N		C	1006	.21				7
GRP35159	23	1054	1142	1102	N08	W66	.913	11035	18.5	48	1B				2.34				3 2 2 6
ZURI	23	1054	1140	1102	N08	W67	.920	11035	18.4	46	1N		C	1102	1.58				
MONT	23	1054	1144	1101	N08	W65	.906	11035	18.6	50	1B		C	1101	3.09				
CATA	23	1125E	1135E	1125	N10	W65	.907	11035	18.6	10D	1N			1125	1.16	2.74		164	
GRP35160	23	1236	1248	1239	N06	W74	.961	11035	18.0	12	-N				1.18				5 5 4 8
CANR	23	1235	1252	1239	N05	W76	.970	11035	17.8	17	-N	2	C	1239	.54				
RAMY	23	1235	1254	1238	N06	W75	.965	11035	17.9	19	-F		C						DE
ZURI	23	1236	1242	1240	N06	W73	.956	11035	18.0	6	1N		C	1240	1.47				
MONT	23	1237	1245	1238	N05	W71	.945	11035	18.2	8	-B		C	1238	2.06				
CATA	23	1240E	1245E	1240	N09	W75	.965	11035	17.9	5D	-N			1240	.63			170	
GRP35162	23	1439	1447	1441	N03	W62	.883	11035	19.0	8	--F				.31				2 2 2 6
RAMY	23	1439	1448	1441	N02	W62	.883	11035	19.0	9	-F		C		.41				DE
CANR	23	1439	1445	1440	N03	W62	.883	11035	19.0	6	-N	2	C	1440	.21	.45			
163 LOCK	23	1622	1645	1630	N05	W68	.927	11035	18.6	23	--F		C						2
164 RAMY	23	1656E	1732D	1700U	S19	W08	.380	11054	23.1	36D	--F		C		.62				DE 2
GRP35165	23	1811	1834	1820	N13	W82	.990	11035	17.6	23	--F								2 1 0 2
LOCK	23	1811	1830	1820	N12	W79	.981	11035	17.8	19	-F		C						
RAMY	23	1826E	1838		N14	W85	.996	11035	17.4	12D	-N		C						DE
GRP35166	23	1816	1841	1824	N09	W39	.635	11051	20.8	25	--F				.93				2 2 1 3
LOCK	23	1816	1830	1821	N09	W39	.635	11051	20.8	14	-F		C						
RAMY	23	1826E	1851D	1826U	N08	W39	.633	11051	20.8	25D	-F		C		.93				DE
GRP35167	23	1841	1857	1844	N09	W68	.927	11035	18.7	16	--F				.27				2 2 1 3
LOCK	23	1839	1855	1843	N09	W68	.927	11035	18.7	16	-F		C						
PALE	23	1842	1858	1844	N09	W68	.927	11035	18.7	16	-F		C		.27				
168 LOCK	23	1945	1955	1948	N05	W82	.990	11035	17.7	10	--F		C						H 2
GRP35169	23	2003	2013	2006	N05	W70	.939	11035	18.6	10	--F				.81				2 2 1 2
PALE	23	2003	2013	2006	N05	W68	.927	11035	18.7	10	-F		C		.81				F
LOCK	23	2003	2012	2006	N05	W72	.951	11035	18.4	9	-F		C						
GRP35170	23	2202	2230	2213	N09	W72	.951	11035	18.5	28	--F				.36				2 2 1 3
LOCK	23	2202	2230	2208	N08	W74	.961	11035	18.4	28	-F		C						
PALE	23	2217E	2221D	2217E	N09	W70	.939	11035	18.7	4D	-N		V		.36				F
GRP35171	23	2308	2337	2312	N09	E09	.198	11045	24.6	29	-N				1.43				5 5 4 5
LOCK	23	2307	2335	2311	N09	E08	.185	11045	24.6	28	1N		C						
CULG	23	2308	0005	2312	N09	E08	.185	11045	24.6	57	1N		P	2312	2.68	2.60			HV
CRON	23	2308	2328	2312	N08	E08	.174	11045	24.6	20	-N	2	C	2312	.67	.64			
VORO	23	2309	2321	2312	N08	E09	.188	11045	24.6	12	-F		C	2312	1.02	1.00		110	EJ
PALE	23	2312E	2319D	2312E	N09	E11	.226	11045	24.8	7D	-N		V		1.34				DE
GRP35175	24	0406	0434	0410	N07	W77	.974	11035	18.4	28	--F				.48				2 2 2 3
CRON	24	0406U	0453U	0412U	N07	W74	.961	11035	18.6	47D	-F	1	C	0411	.33				
MITK	24	0406	0414	0408	N07	W80	.984	11035	18.2	8	-F		C	0408	.62				E

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OBSERVATORY	DATE 1970	OBSERVED UT 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
	NOV																		
GRP35176	24	0601	0627	0611	N04	W79	.981	11035	18.3	26	-N				.68				3 3 2 6
TACH	24	0559	0631	0610	N06	W80	.984	11035	18.2	32	1F		C	0610	.83		2.06	57	D
MITK	24	0602	0618	0611	N05	W81	.987	11035	18.2	16	-N		C	0611	.52				D
TEHR	24	0611E	0632		N02	W75	.966	11035	18.6	21D	-N		V						DE
GRP35178	24	0754	0807	0759	N06	W79	.981	11035	18.4	13	-N				.65				6 6 5 10
TACH	24	0736	0803	0758	N10	W86	.997	11035	17.9	27	1N		C	0758	1.45		2.16	72	E
TEHR	24	0737	0800	0741U	N11	W86	.997	11035	17.9	23	-N		C		.28				DE
HTPR	24	0746E	0803	0759	N05	W80	.984	11035	18.3	17D	-N		C	0759	.62				
TEHR	24	0753	0806	0757	N04	W79	.981	11035	18.4	13	-F		C		.28				DE
CATA	24	0755	0805	0800	N07	W76	.970	11035	18.6	10	-N			0800	.40			174	
ONDR	24	0758E	0808		N03	W73	.956	11035	18.9	10D	-F		V	0759			2.00		CDJ
CRON	24	0758	0814		N04	W77	.974	11035	18.6	16	-F		V		.52				
181 LOCK	24	1827	1847	1837	N01	W10	.174	11046	24.0	20	--F		C						3.
GRP35189	25	1146	1207	1152	S12	E70	.945	11053	30.7	21	-N				.43				4 4 4 10
TEHR	25	1142	1217	1155	S12	E68	.933	11053	30.6	35	-N		C		.27				DE
HTPR	25	1145	1202	1147	S13	E70	.945	11053	30.7	17	-N		C	1156	.62				
HTPR	25	1145	1202	1156	S13	E70	.945	11053	30.7	17	-N		C						
UCCL	25	1146	1201	1148	S13	E70	.945	11053	30.7	15	-N		C	1148	.52				D
RAMY	25	1149	1206	1156	S11	E70	.944	11053	30.7	17	-N		C		.31				DE
GRP35192	25	1502	1517	1503	N14	E02	.216	11048	25.8	15	--N				.51				3 3 3 7
CATA	25	1502	1510E	1502	N14	E02	.216	11048	25.8	8D	-N			1502	.46	.48		166	
HUAN	25	1502	1512	1503	N14	E02	.216	11048	25.8	10	-F	2	C	1503	.35	.35			E
RAMY	25	1504E	1521	1505U	N14	E02	.216	11048	25.8	17D	-N		C		.72				DE
	25	1552	1558	NO FLARE PATROL															
	25	1600	1601	NO FLARE PATROL															
	25	1607	1624	NO FLARE PATROL															
	25	1642	1648	NO FLARE PATROL															
	25	1653	1657	NO FLARE PATROL															
	25	1700	1748	NO FLARE PATROL															
	25	1804	1805	NO FLARE PATROL															
193 BOUL	25	1835	1846	1836	N24	W04	.385	11048	25.5	11	--F	2	V						1
	25	2057	2140	NO FLARE PATROL															
	25	2232	0016	NO FLARE PATROL															
194 CRON	26	0218U	0230U	0223U	N10	W72	.951	11051	20.7	12D	--F	1	C	0223	.23				1
	26	1515	1625	NO FLARE PATROL															
	26	1629	2224	NO FLARE PATROL															
196 CRON	27	0115	0124	0116	N13	E82	.990	11060	3.2	9	--N	1	C	0115	.23				3
197 CATA	27	0645	0700	0645	N20	E90	1.000	11060	4.0	15	1F			0645	.75			148	3
201 HUAN	27	1701	1715D	1707	N23	E90	1.000	11060	4.5	14D	-N	1	P	1707	1.05				D 2
	27	1715	1731	NO FLARE PATROL															
	27	1751	2136	NO FLARE PATROL															
202 CRON	28	0127	0138	0133	S14	E35	.614	11053	30.7	11	--N	2	C	0132	.23	.27			3
203 CRON	28	0233	0242	0235	N13	E55	.826	11060	2.2	9	--N	2	C	0234	.67	1.16			3
GRP35204	28	0411	0512	0422	N15	E64	.903	11060	3.0	61	-N				1.38				2 2 2 2
CULG	28	0409	0524	0424	N16	E63	.897	11060	2.9	75	1N		C	0424	1.86				
CRON	28	0413	0500	0420	N14	E64	.903	11060	3.0	47	-N	2	C	0419	.89				
205 CRON	28	0658E	0705		S12	E90	1.000	11063	5.0	7D	--N		V		.21				2
206 CRON	28	0734	0740		N15	E56	.838	11060	2.5	6	--F		V		.31				2
209 RAMY	28	1604E	1611		S17	E80	.987	11063	4.7	7D	--F		V						DE 1
210 RAMY	28	1610	1630D	1615	N12	E48	.752	11060	2.3	20D	--F		V		1.04				DE 1

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OBSERV-ATORY	OBSERVED UT DATE 1970 NOV	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
211 RAMY	28	1631	1635D		S15	E80	.987	11063	4.7	4D	-N		C						DE 1
	28	1635	1703	NO FLARE PATROL															
GRP35212	28	1713	1731	1717	S15	E80	.987	11063	4.7	18	-N								2 2 0 3
BOUL	28	1713	1731	1717	S14	E80	.987	11063	4.7	18	-N	1	V						
RAMY	28	1713	1716D		S15	E80	.987	11063	4.7	3D	-N		C						DE
	28	1737	1800	NO FLARE PATROL															
	28	2117	2155	NO FLARE PATROL															
	28	2233	2244	NO FLARE PATROL															
	28	2400	0001	NO FLARE PATROL															
213 CRON	29	0144	0156	0148	N20	E66	.921	11060	4.0	12	--N	1	C	0148	.33				1
214 CULG	29	0345	0413	0355	N23	E65	.918	11060	4.0	28	1N		C	0355	1.34				2
	29	1641	1647	NO FLARE PATROL															
	29	1848	1856	NO FLARE PATROL															
	29	2023	2120	NO FLARE PATROL															
219 RAMY	29	2050E	2053D	2051U	N15	E35	.605	11060	2.5	3D	--B		V		.72				DE 1
	29	2127	2132	NO FLARE PATROL															
220 PALE	29	2220	2234D	2222U	N16	E34	.597	11060	2.5	14D	--F		C		.63				F 2
GRP35221	30	0140	0222	0146	N17	E42	.698	11060	3.2	42	-N				1.15				2 2 2 3
CULG	30	0140	0224	0146	N16	E39	.659	11060	3.0	44	1N		C	0146	1.86	2.34			
CRON	30	0140	0220	0145U	N15	E39	.655	11060	3.0	40	-N	2	C	0145	.44	.57			
CRON	30	0218	0238	0222	N22	E52	.816	11060	4.0	20	-F	2	C	0222	.23	.38			
GRP35222	30	0242	0318	0250	N18	E38	.656	11060	3.0	36	-N				1.58				4 4 4 4
CRON	30	0238	0320U	0248	N16	E37	.635	11060	2.9	42D	-B	2	C	0248	1.22	1.54			
CULG	30	0238	0326	0254	N18	E38	.656	11060	3.0	48	1N		C	0254	2.58	3.37			
KODA	30	0244E	0303D	0247	N17	E39	.663	11060	3.0	19D	-N		V	0244	1.60	1.60	2.24		CE
VORO	30	0246	0307	0249	N19	E39	.672	11060	3.0	21	-F		C	0249	.93	1.20		86	EJ
223 CRON	30	0415	0428	0416	S10	W20	.387	11053	28.7	13	--F	2	C	0416	.11	.12			2
224 TEHR	30	0432	0455	0436	S16	E06	.310	11053	30.6	23	--N		C		.45				DE 2
GRP35225	30	0615	0648	0623	N17	E36	.627	11060	3.0	33	-N				1.33				4 4 4 6
TEHR	30	0614	0652	0622	N18	E37	.644	11060	3.0	38	-N		C		.83				F
ABST	30	0614	0630D	0615	N17	E37	.639	11060	3.0	16D	1F		P	0615	2.70	3.50			EJ
CRON	30	0616	0647	0623	N16	E36	.623	11060	3.0	31	-N	2	C	0623	1.00	1.23			
CATA	30	0630E	0645	0630	N17	E35	.615	11060	2.9	15D	-N			0630	.80	1.04		170	B
GRP35228	30	0839	0901	0844	N17	E34	.603	11060	2.9	22	--N				.30				2 2 2 6
TEHR	30	0836	0901	0844	N17	E34	.603	11060	2.9	25	-N		C		.36				DE
CRON	30	0842	0900	0844	N16	E34	.598	11060	2.9	18	-N	2	C	0844	.23	.27			
GRP35229	30	0842	0854	0843	S12	E76	.973	11066	6.1	12	-N				.45				4 4 4 6
CANR	30	0841	0856	0843	S12	E75	.968	11066	6.0	15	-N	2	C	0843	.43				
CAPE	30	0842	0850	0843	S12	E77	.976	11066	6.1	8	-N		C	0843	.86				
CRON	30	0842	0856	0843	S12	E75	.968	11066	6.0	14	-N	2	C	0843	.23				
TEHR	30	0842	0855	0843	S11	E77	.976	11066	6.1	13	-N		C		.27				DE
GRP35231	30	0956	1036	0958	N16	E34	.598	11060	3.0	40	--N				.30				3 3 2 8
CANR	30	0954	0957D	0957	N16	E35	.610	11060	3.0	3D	-N	2	V			.30			
TEHR	30	0955	1102	0957	N17	E34	.603	11060	3.0	67	-F		C		.36				DE
CATA	30	1000	1010	1000	N15	E34	.593	11060	3.0	10	-N			1000	.23	.29		191	
GRP35232	30	1133	1201	1139	N18	E33	.596	11060	3.0	28	--F				.58				2 2 2 6
TEHR	30	1129	1207	1137	N18	E33	.596	11060	3.0	38	-F		C		.64				DE
RAMY	30	1136	1155	1140	N17	E33	.590	11060	3.0	19	-F		C		.52				DE
GRP35236	30	1553	1607	1557	S13	E87	.999	11066	7.2	14	-B								2 1 0 3
RAMY	30	1553	1607D	1557U	S13	E87	.999	11066	7.2	14D	-B		C						DE
BOUL	30	1559	1607	1601	S12	E74	.964	11066	6.2	8	-F	1	V						

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE 1970	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. %	
	NOV																		
GRP35237	30	1622	1633	1626	N17	E28	.528	11060	2.8	11	--F				.46				4 4 3 4
RAMY	30	1620	1630	1625	N17	E28	.528	11060	2.8	10	-F		C		.46				DE
CANR	30	1621	1637		N16	E30	.547	11060	2.9	16	-N	2	V		.50				
BOUL	30	1624	1634	1626	N17	E27	.515	11060	2.7	10	-N	1	V						
MCMA	30	1625E	1630D	1626	N17	E28	.528	11060	2.8	5D	-F		C	1626	.41	.50			E
GRP35238	30	1741	1813	1743	N24	E22	.520	11060	2.4	32	--F				.71				3 3 3 3
RAMY	30	1738	1815	1744	N23	E22	.510	11060	2.4	37	-F		C		.52				DE
PALE	30	1740	1811	1741	N25	E21	.521	11060	2.3	31	-N		C		.99				F
MCMA	30	1745	1756D		N25	E23	.540	11060	2.5	11D	-F		C	1753	.62	.70			E
GRP35239	30	2011	2024	2014	N17	E28	.528	11060	2.9	13	--F				.39				3 3 2 3
RAMY	30	2010	2022	2012	N17	E29	.540	11060	3.0	12	-F		C		.41				DE
BOUL	30	2012	2029	2013	N17	E28	.528	11060	2.9	17	-F	1	V						
PALE	30	2018E	2022	2018E	N18	E27	.522	11060	2.9	4D	-F		C		.36				F
GRP35240	30	2132	2137	2134	N16	E28	.521	11060	3.0	5	--F				.34				2 2 2 2
RAMY	30	2132	2137D	2134U	N17	E29	.540	11060	3.1	5D	-F		C		.46				DE
PALE	30	2132	2137	2133	N15	E27	.501	11060	2.9	5	-F		V		.21				DE

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 ESSA 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
701101	35.01	24.0	701111	11.38	24.0	701121	75.96	23.1
701102	74.43	24.0	701112	151.07	24.0	701122	45.62	24.0
701103	27.43	24.0	701113	111.96	24.0	701123	60.78	23.9
701104	114.69	24.0	701114	375.66	22.9	701124	4.67	24.0
701105	1559.51	24.0	701115	237.89	24.0	701125	1.07	20.2
701106	15.12	22.8	701116	1014.18	24.0	701126	0.00	16.9
701107	7.22	24.0	701117	425.45	24.0	701127	10.31	20.0
701108	5.92	24.0	701118	234.02	24.0	701128	11.97	22.3
701109	13.08	23.6	701119	201.46	24.0	701129	9.67	22.7
701110	40.85	24.0	701120	47.18	24.0	701130	31.40	24.0

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

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OBSERV-ATORY	DATE 1970 NOV	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
555 CRON	01	0152	0207	0153	N18	W33	.574	11002	29.6	15	-N		V		.21				4
561 CRON	01	0619	0636		N22	W29	.547	11002	30.1	17	-F		V		.52				6
GRP34565	01	1008	1016	1010	N15	W37	.614	11002	29.6	8	-F				.21				2 2 2 7
CANR	01	1007	1017	1009	N14	W38	.625	11002	29.6	10	-F	2	C	1009	.21	.27			
CRON	01	1009	1015	1010	N15	W35	.588	11002	29.8	6	-F		V		.21				
GRP34566	01	1037	1044	1038	N13	W54	.809	11002	28.4	7	-F				.27				2 2 1 7
TEHR	01	1037	1044	1038	N13	W53	.799	11002	28.5	7	-F		C		.27				DE
CANR	01	1037	1044		N13	W55	.819	11002	28.3	7	-F	2	V			.40			
567 RAMY	01	1111	1133	1111	S10	E10	.301	11012	2.2	22	-F		C		.41				DE 6
569 TEHR	01	1204	1219	1207	N17	W66	.912	11002	27.6	15	-F		C		.57				DE 6
572 RAMY	01	1333	1345	1335	S11	E88	1.000	11019	8.2	12	-F		C						DE 5
573 MCMA	01	1356E	1430D		N14	W52	.789	11002	28.7	34D	-N		C	1357	.83	1.40			E 6
574 RAMY	01	1408	1424	1410	N20	E33	.584	11014	4.1	16	-F		C		.26				DE 5
575 MCMA	01	1408	1429	1415	S15	E90	1.000	11019	8.3	21	-N		C	1415					5
576 MCMA	01	1435	1443D	1438	N10	W60	.864	11002	28.1	8D	-N		C	1438	.41	.90			D 4
578 CANR	01	1609	1620	1614	S15	E20	.465	11012	3.2	11	-N	2	C	1614	.32	.36			4
580 PALE	01	1800	1813	1806	S10	E04	.258	11012	2.0	13	-F		C		.55				H 5
581 HUAN	01	1939	1942	1940	N15	W44	.702	11002	29.5	3	-F	1	C	1940	.12	.17			D 5
582 HUAN	01	1950	2008	1955U	N14	W45	.712	11002	29.5	18	-F	1	C	1955	.28	.39			D 5
584 HUAN	01	2147E	2153D	2148U	S12	E06	.300	11012	2.4	6D	-F	1	P	2148	.33	.34			D 3
587 PALE	01	2237E	2248	2237E	N12	W64	.896	11002	28.1	11D	-F		V		.21				3
588 PALE	01	2305	2313	2308	N15	E82	.988	11022	8.1	8	-F		V		.10				4
GRP34589	02	0132	0158	(0142)	S11	W84	.996	11000	26.8	26	-N				1.03				2 2 2 7
CRON	02	0132	0158		S10	W87	.999	11000	26.5	26	-N		V		.21				
KODA	02	0138E	0148D		S11	W81	.990	11000	27.0	10D	-N		C	0142	1.85	1.85			E
593 CRON	02	0440	0453	0444	S12	E44	.728	11021	5.5	13	-F	1	C	0444	.23	.31			7
595 SIBE	02	0521	0610	0522	N17	W46	.729	11002	29.8	49	-F		C	0522	.77	1.20		52	DJ 6
596 CRON	02	0622	0640	0624	N15	W46	.725	11002	29.8	18	-N	1	C	0624	.33	.47			4
600 CANR	02	1034	1044	1037	S13	E77	.979	11019	8.2	10	-F	2	C	1037	.32				8
601 ABST	02	1041	1050	1045	N16	W49	.760	11002	29.8	9	-F		C	1045	.72	1.10		46	D 8
602 ABST	02	1049	1107	1051	N21	E23	.468	11014	4.2	18	-F		C	1051	1.53	1.70			CE 8
GRP34603	02	1115	1119	1117	N18	W70	.938	11002	28.2	4	-F				.98				2 2 2 8
ABST	02	1114	1118D	1116	N17	W70	.937	11002	28.2	4D	1F		P	1116	1.18			60	F
MONT	02	1115	1119	1117	N18	W69	.932	11002	28.3	4	-N		C	1117	.77				
605 RAMY	02	1402	1416	1405	S33	E26	.703	11013	4.5	14	-F		C		.62				DE 6
606 HUAN	02	1412	1425	1420	S12	W04	.289	11012	2.3	13	-F	2	C	1420	.47	.49			E 8
608 HUAN	02	1542	1552D	1549	S11	W04	.272	11012	2.4	10D	-F	2	P	1549	.25	.26			D 3
610 HUAN	02	1555E	1602D	1602U	S12	W04	.289	11012	2.4	7D	-F	1	P	1602	.33	.34			E 4
614 LOCK	02	1819	1830	1822	S33	E24	.691	11013	4.6	11	-F		C						4
619 PALE	02	2025	2033	2029	N25	E32	.603	11018	5.3	8	-F		C		.26				4
627 PALE	03	0156E	0213	0157U	S08	E61	.883	11019	7.7	17D	-N		C		.27				6
628 PALE	03	0307	0321	0309	N21	E33	.590	11018	5.6	14	-N		C		.27				F 6
630 CRON	03	0631E	0639		N13	W61	.873	11002	29.7	8D	-F		V		.52				5
631 MANI	03	0647	0705	0651	S16	E63	.910	11019	8.0	18	-F	2		0651	.83	1.68			5

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632 CRON	03	0725E	0730		S13	W15	.387	11012	2.2	5D	-F		V		.41				6
634 MONT	03	0914E	0920	0916	N19	W60	.869	11002	29.9	6D	-N		C	0916	.77				9
635 RAMY	03	1128	1204	1137	S12	E60	.881	11019	8.0	36	-F		C		.83				DE 6
636 RAMY	03	1136	1153	1139	N20	E29	.535	11018	5.7	17	-F		C		.41				DE 6
637 RAMY	03	1154	1208	1157	S11	E90	1.000	11024	10.2	14	-F		C						DE 5
639 RAMY	03	1244	1257D	1247	S16	E63	.910	11019	8.3	13D	-F		C		.31				DE 5
645 HUAN	03	1622	1639	1628	S10	E50	.786	11019	7.4	17	-F	1	C	1628	.18	.29			E 4
650 PALE	03	1841	1901	1849	S16	E57	.865	11019	8.1	20	-F		C		.55				DE 4
652 RAMY	03	1903	1910	1907	N13	W71	.943	11002	29.5	7	-N		C		.31				DE 4
653 PALE	03	1955	2011	2001U	S08	E55	.831	11019	8.0	16	-F		C		.40				F 4
655 PALE	03	2319	2328	2322	N21	E22	.457	11018	5.6	9	-F		C		.19				5
656 PALE	04	0019	0126	0054	N10	E47	.731	11022	7.5	67	-F		C		.32				F 4
660 TEHR	04	0653	0659	0654	S08	E45	.725	11019	7.7	6	-F		C		.28				DE 5
662 TEHR	04	0733	0742	0735	N21	E20	.435	11018	5.8	9	-N		C		.28				DE 9
663 MONT	04	0904	0913	0908	S05	W31	.534	11012	2.1	9	-N		C	0908	.77				10
666 RAMY	04	1122	1143	1124	S27	W12	.547	11013	3.6	21	-F		C		.31				DE 8
670 RAMY	04	1355	1412	1357	N20	E11	.329	11018	5.4	17	-N		V		.41				DE 8
GRP34671	04	1414	1430	1416	N20	E14	.358	11018	5.6	16	-N				.21				2 2 2 8
HUAN	04	1413	1418D	1417	N20	E13	.348	11018	5.6	5D	-N	2	P	1417	.18	.19			D
CATA	04	1415	1430	1415	N20	E14	.358	11018	5.6	15	-N			1415	.23	.25		176	
673 HUAN	04	1508	1535	1517	S17	E46	.767	11019	8.1	27	-F	2	C	1517	.28	.43			E 6
679 HUAN	04	2030	2055D	2041	N20	E10	.320	11018	5.6	25D	-F	2	P	2041	.45	.48			E 4
680 BOUL	04	2037	2056	2037	S05	E12	.260	11021	5.8	19	-F	2	V						3
684 MANI	04	2340E	0021		S10	W42	.696	11012	1.8	41D	-F	1		2341	1.44	2.00			4
687 KODA	05	0539E	0724D	0539	S11	W39	.664	11012	2.3	105D	-N		P	0539	1.75	1.76	1.44		CD 7
689 ZURI	05	0830E	1000	0834	S17	E29	.581	11019	7.5	90D	-N		P	0834	.53	.60			9
GRP34690	05	1040	1133	1108	S27	W28	.658	11013	3.3	53	-F				.74				2 2 2 8
CATA	05	1040	1135	1105	S26	W28	.649	11013	3.3	55	-F			1105	.69	.92		146	
HUAN	05	1111E	1130	1111U	S28	W28	.667	11013	3.4	19D	-F	1	P	1111	.78	1.03			E
703 CATA	06	0945	1000	0945	S06	W06	.200	11021	6.0	15	-N			0945	.40	.42		153	4
705 CANR	06	1138E	1138D		S09	W57	.850	11012	2.2		-N	2	V		.70				4
706 HUAN	06	1411	1418	1416	S09	W61	.884	11012	2.0	7	-F	2	C	1416	.28	.59			D 4
707 HUAN	06	1419	1430	1420	S10	W41	.684	11012	3.5	11	-F	1	C	1420	.15	.21			D 4
708 HUAN	06	1453	1457	1453U	S09	W61	.884	11012	2.0	4	-F	2	C	1453	.31	.65			D 5
711 HUAN	06	1732	1805D	1746	N22	W10	.351	11018	6.0	33D	-F	2	P	1746	1.28	1.35			E 4
712 BOUL	06	1829	1849	1829	S08	E10	.267	11019	7.5	20	-F	1	V						3
GRP34729	07	1709	1726	1716	S28	W59	.906	11013	3.3	17	-F				.36				2 2 1 6
CANR	07	1705	1720		S27	W61	.916	11013	3.1	15	-N	2	V			.90			
PALE	07	1712	1732	1716	S28	W57	.894	11013	3.4	20	-F		C		.36				F
731 PALE	07	1807	1820	1811	N08	W04	.101	11022	7.5	13	-F		C		.27				F 4
GRP34734	08	0359	0451	0431	S16	W04	.343	11019	7.9	52	-F				1.75				2 2 2 7
CULG	08	0359	0508D	0431	S13	W07	.310	11019	7.6	69D	1N		P	0431	3.09	3.15			
CRON	08	0428E	0434		S18	W01	.369	11019	8.1	6D	-F		V		.41				
735 CULG	08	0500E	0508D		N12	E72	.949	11026	13.6	8D	1N		P	0500	.93				6

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737 CATA	08	0700	0715	0700	S10	W09	.281	11019	7.6	15	-N			0700	.14	.15		178	5
GRP34738	08	0733	0758	0740	S10	W82	.992	11012	2.2	25	-F				.23				2 2 1 6
ISTA	08	0733	0805		S10	W83	.994	11012	2.1	32	-N								
CATA	08	0740E	0750	0740	S09	W80	.987	11012	2.3	10D	-F			0740	.23			148	
741 CANR	08	1008	1019	1010	S10	W81	.990	11012	2.3	11	-N	2	C	1010	.32				6
743 HUAN	08	1302	1311	1305	S07	W43	.697	11021	5.3	9	-F	1	C	1305	.05	.07			D 8
745 LOCK	08	1600	1610	1603	S05	W44	.705	11021	5.4	10	-F		C						4
746 HUAN	08	1631E	1635	1632	S06	W44	.707	11021	5.4	4D	-F	1	P	1632	.07	.10			E 5
748 HUAN	08	1752	1810	1758U	S07	W44	.709	11021	5.4	18	-F	1	P	1758	.21	.30			E 6
749 HUAN	08	1818	1823	1820	N13	E63	.890	11026	13.5	5	-F	2	C	1820	.25	.57			E 6
750 BOUL	08	2033	2054	2037	S05	W45	.717	11021	5.5	21	-N	1	V						4
752 MITK	09	0618	0627	0621	S09	W76	.973	11012	3.6	9	1F		C	0621	.93				DG 5
753 TEHR	09	1041	1053	1042	N23	W43	.718	11018	6.2	12	-F		C		.36				DE 5
754 HUAN	09	1149	1215D	1205U	N16	W50	.774	11030	5.7	26D	-N	1	P	1205	.28	.44			E 5
755 HUAN	09	1203	1215	1209	N08	E69	.932	11029	14.7	12	-F	2	C	1209	.15				D 5
756 HUAN	09	1209	1215D	1213	N16	W51	.784	11030	5.7	6D	-F	2	P	1213	.31	.49			D 5
758 MONT	09	1330	1340	1332	S04	W61	.878	11021	5.0	10	-N		C	1332	1.13				5
759 HUAN	09	1333	1424D	1348	N16	W51	.784	11030	5.7	51D	-F	1	P	1348	.18	.28			D 4
760 HUAN	09	1530E	1539	1531U	N16	W53	.804	11030	5.7	9D	-F	1	P	1531	.21	.34			D 3
763 HUAN	09	1628	1741D	1637U	N16	W53	.804	11030	5.7	73D	-N	1	P	1637	.15	.26			D 4
766 HUAN	09	1810	1857	1826	N16	W56	.833	11018	5.6	47	-B	1	C	1826	.25	.43			D 4
768 CRON	09	2142E	2151		N15	E63	.891	11029	14.6	9D	-N		V		.41				4
771 CRON	09	2359	0005	0001	N16	W57	.842	11030	5.7	6	-N	1	C	0001	.23	.40			5
772 MANI	10	0035	0106		N19	W55	.828	11018	5.9	31	-F	2		0044	1.13	1.93			4
778 TEHR	10	0810	0830	0815	S08	E90	1.000	11032	17.1	20	-N		C		.28				DE 7
GRP34781	10	1144	1202	1146	S17	W35	.645	11019	7.9	18	-F				.12				2 2 1 7
HUAN	10	1144	1202	1146	S15	W35	.633	11019	7.9	18	-N	2	C	1146	.12	.16			D
CAPS	10	1146E	1150D		S18	W35	.651	11019	7.9	4D	-F	1	V						C
782 HUAN	10	1158	1242	1209	N16	W67	.920	11018	5.5	44	-F	2	C	1209	.45	1.04			D 7
783 HUAN	10	1218	1243	1230	N15	E56	.832	11029	14.7	25	-F	2	C	1230	.51	.91			6
784 HUAN	10	1310	1329	1318	N14	E57	.840	11029	14.8	19	-N	2	C	1318	.25	.44			DH 6
GRP34785	10	1319	1349	1326	N16	W67	.920	11018	5.5	30	-F				.10				2 1 1 7
HUAN	10	1319	1349	1326U	N16	W67	.920	11018	5.5	30	-F	1	P	1326	.10	.24			D
CATA	10	1325	1350	1340	N17	W64	.900	11018	5.8	25	-N			1340	.17	.40		188	
786 HUAN	10	1350	1409D	1355	N15	E56	.832	11029	14.8	19D	-F	1	P	1355	.51	.91			DH 6
788 BOUL	10	1550	1610	1553	N16	E51	.784	11029	14.5	20	-F	1	V						3
789 BOUL	10	1558	1615	1559	N16	W65	.907	11030	5.8	17	-F	1	V						3
798 CRON	10	2200E	2204		S13	E86	.999	11032	17.4	4D	-N		V		.21				4
799 KODA	11	0203E	0246D	0218	S09	E83	.994	11032	17.3	43D	1N		P	0207	2.15	2.10	2.08		CD 4
802 CATA	11	0830	0850	0835	N16	E48	.753	11029	15.0	20	-N			0835	.58	.88		182	11
803 ARCE	11	0905	0936	0915	S12	E85	.997	11032	17.8	31	-F		C	0915	.15	.60			D 6
GRP34806	11	1207	1224	1212	N13	E42	.677	11029	14.7	17	-F				2.27				2 2 1 7
MONT	11	1207	1224	1212	N15	E42	.682	11029	14.7	17	-N		C	1212	2.27				
RAMY	11	1207E	1220D		N11	E41	.661	11029	14.6	13D	-F		C						DE

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807 BOUL	11	1439	1448	1441	N15	E40	.657	11029	14.6	9	-N	1	V							5
809 HUAN	11	1541E	1630	1543U	N14	W80	.983	11018	5.7	49D	-N	2	P	1543	.35				E	4
810 HUAN	11	1541E	1631D	1612	S10	E74	.965	11032	17.2	50D	-N	2	P	1612	.25				D	3
811 HUAN	11	1641E	1652D	1644	S14	W54	.832	11019	7.6	11D	-F	1	P	1644	.28	.50			D	3
817 CRON	11	2222E	2245		N13	W80	.983	11018	5.9	23D	-N		V		.31					5
818 LOCK	11	2320	2325	2322	N16	E36	.610	11029	14.7	5	-F		C							6
819 VORO	11	2352	2356	2354	N16	E36	.610	11029	14.7	4	-F		C	2354	.46	.60		85	DJ	6
820 MITK	12	0019	0050	0032	N14	E35	.590	11029	14.6	31	-N		C	0032	1.03	1.30			E	5
822 KODA	12	0149E	0156D		N15	E35	.594	11029	14.7	7D	1N		P	0149	3.19	3.20			E	5
823 MITK	12	0342	0351	0344	N05	E90	1.000	11035	18.9	9	-B		C	0344	.52				D	5
825 HURB	12	0805E	0820D	0807	N07	W90	1.000	11018	5.6	15D	1N						3.69		A	11
826 ARCE	12	0823E	0827		N15	W90	1.000	11018	5.6	4D	-N		P	0826	.25	1.40			E	11
827 ARCE	12	0838	0842	0839	N16	W90	1.000	11018	5.6	4	-B		C	0839	.31	1.80				12
830 CANR	12	0920	0925	0922	N05	E72	.950	11035	17.8	5	-N	2	C	0922	.32					10
831 CANR	12	1021	1027	1024	N13	E26	.462	11029	14.4	6	-N	2	C	1024	.32	.36				7
833 MONT	12	1130	1135	1131	N13	E25	.447	11029	14.4	5	-N		C	1131	1.13					9
835 CATA	12	1230	1240	1230	N17	W90	1.000	11030	5.8	10	-N			1230	.23			188		11
837 CANR	12	1329	1340	1332	S18	W65	.923	11019	7.7	11	-N	2	C	1332	.11					8
842 RAMY	12	1521	1536	1524	N09	E78	.977	11035	18.5	15	-F		C		.31				DE	5
853 PALE	12	2135E	2139	2135E	N12	E25	.442	11029	14.8	4D	-N		V		.52					3
857 CRON	13	0313	0335	0326U	N14	E20	.384	11029	14.6	22	-N	1	C	0326	.33	.35				5
859 CRON	13	0503	0510		N12	E22	.399	11029	14.9	7	-F		V		.31					2
861 HURB	13	0842E	0854	0845	N15	E09	.256	11029	14.0	12D	-F						1.54			11
862 UCCL	13	0921E	0948		N14	E15	.315	11029	14.5	27D	-F		P	0921	.52	.60			DIJ	7
863 UCCL	13	0934	0953D	0941	N13	E15	.306	11029	14.5	19D	-F		P	0941	1.03	1.10			EIJ	8
864 CAPS	13	1005E	1058D		N13	E11	.254	11029	14.2	53D	-F	3	V	1006	.70	.70				9
GRP34865	13	1024	1038	1025	N14	E02	.192	11026	13.6	14	-F				.36				2 2 2	8
CANR	13	1024	1037	1025	N14	E02	.192	11026	13.6	13	-F	1	C	1025	.21	.21				
UCCL	13	1030E	1039		N13	E02	.175	11026	13.6	9D	-N		P	1030	.50	.70			EIJ	
868 HUAN	13	1231	1235	1232	N15	E13	.300	11029	14.5	4	-N	1	P	1232	.15	.16			D	8
871 HUAN	13	1457E	1509	1500	N15	E15	.325	11029	14.7	12D	-N	1	P	1500	.31	.32			D	5
872 HUAN	13	1528	1533D	1532	N15	E46	.729	11035	17.1	5D	-F	1	P	1532	.25	.36			D	4
887 MANI	14	0048	0100	0052	S08	E25	.458	11032	15.9	12	-N	1		0052	.41	.52				5
GRP34893	14	0519	0529	(0519)	N12	W05	.178	11026	13.8	10	-F				.72				1 1 1	8
MANI	14	0519E	0529		N13	W04	.187	11026	13.9	10D	-F	2		0519	.72	.74				
MANI	14	0519	0529	0521	N12	W06	.187	11026	13.8	10	-F	1		0521	.62	.63				
GRP34894	14	0528	0618	0531	N17	E06	.262	11029	14.7	50	-F				1.71				2 1 1	6
ABST	14	0528	0618D	0531	N17	E06	.262	11029	14.7	50D	-F		P	0531	1.71	1.80			F	
TEHR	14	0559	0630	0601	N16	E06	.247	11029	14.7	31	-N		C		.23				DE	
895 MANI	14	0738E	0756		N18	E03	.264	11029	14.5	18D	-N	2		0751	.62	.63				6
899 TEHR	14	1116	1127	1118	N17	E05	.256	11029	14.8	11	-F		C		.23				DE	6
912 LOCK	14	1805	1825	1810	S17	W81	.991	11019	8.7	20	-N		C							4
920 MANI	14	2335	2353		N18	W03	.264	11029	14.8	18	-F	2		2339	.52	.53				5

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OBSERV-ATORY	OBSERVED UT DATE 1970 NOV	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	
921 MANI	15	0004	0022	0008	N16	E29	.521	11035	17.2	18	-N	2		0008	.31	.36				4
922 MANI	15	0019	0059	0037	N15	W12	.291	11029	14.1	40	-N	2		0037	.72	.76				4
923 MANI	15	0045	0105	0046	N17	W04	.253	11029	14.7	20	-N	2		0046	.41	.43				4
926 MANI	15	0321	0334		N15	W15	.328	11029	14.0	13	-N	2		0322	.31	.33				4
927 MANI	15	0404	0423	0407	S15	W81	.990	11024	9.1	19	-N	2		0407	.41	1.10				3
932 CATA	15	1125E	1145D	1125	N15	E14	.315	11035	16.5	20D	-N			1125	.40	.46		158		4
936 RAMY	15	1415E	1445D	1415U	N16	W15	.338	11029	14.5	30D	-F		C		.83				DE	4
948 LOCK	15	2340	2347D	2345	N15	W21	.407	11029	14.4	7D	-F		C							5
949 MITK	15	2350	2359	2355	N16	W20	.401	11029	14.5	9	-F		C	2355	.93	1.00			E	4
952 VORO	16	0056	0059	0057	N07	E39	.630	11035	19.0	3	-F		C	0057	.74	.90		85	D	5
954 CRON	16	0518E	0522D		N17	E35	.605	11035	18.8	4D	-F		V		.31					4
959 ABST	16	0721E	0731D	0724	N17	W24	.462	11029	14.5	10D	-F		P	0724	.90	1.00			FJ	7
966 HUAN	16	1153	1206	1157	N16	W24	.455	11029	14.7	13	-F	2	C	1157	.88	.99			E	5
968 CANR	16	1220	1242		S03	E85	.996	11041	22.9	22	-F	2	V			.70				4
971 HUAN	16	1455E	1508	1459	S10	E09	.269	11032	17.3	13D	-F	1	P	1459	.23	.24			D	3
978 RAMY	16	1921	1952	1928	N06	E12	.215	11035	17.7	31	-N		C		.41				DE	4
981 BOUL	16	2033	2054	2033	N10	E07	.174	11035	17.4	21	-F	2	V							4
985 PALE	16	2233	2235D		N01	E26	.439	11035	18.9	2D	-N		C						F	6
990 SIBE	17	0230	0242D	0234	N15	E05	.230	11035	17.5	12D	-F		C	0234	.40	.40		68	CE	5
991 CRON	17	0342	0348	0343	S12	W06	.272	11032	16.7	6	-N	1	C	0343	.23	.21				4
994 TEHR	17	0548	0612	0551	N18	W47	.749	11027	13.7	24	-F		C		.45				DE	6
001 CANR	17	1046	1046D		N15	W02	.217	11035	17.3		-F	2	V			.30				5
002 TEHR	17	1050E	1104	1052U	N14	W03	.203	11035	17.2	14D	-N		C		.45				DE	6
006 TEHR	17	1213	1243D	1220	N07	E12	.220	11035	18.4	30D	-N		C		.45				DE	6
008 RAMY	17	1240	1253	1243	S10	W05	.235	11032	17.2	13	-N		C		.62				DE	5
010 RAMY	17	1333	1350	1336	N15	W04	.225	11035	17.3	17	-F		C		.52				DE	4
011 RAMY	17	1416	1433	1420	N15	W04	.225	11035	17.3	17	-F		C		.57				DE	6
016 MCMA	17	1713E	1720D		N16	W41	.675	11029	14.6	7D	-F		C	1715	.31	.30			E	5
030 CRON	18	0508	0520	0510	N02	E03	.053	11035	18.4	12	-N	1	C	0510	.44	.43				5
031 TEHR	18	0633	0650	0638	S13	W16	.378	11032	17.1	17	-F		C		.83				F	4
033 CRON	18	0720	0725		N08	E85	.996	11045	24.7	5	-N		V		.21					6
034 CATA	18	0820	0850	0830	N03	E01	.019	11035	18.4	30	-N			0830	.40	.41		170		7
041 TEHR	18	1109	1138	1116	N16	W67	.922	11026	13.4	29	-F		C		1.09				FH	6
042 TEHR	18	1126	1144	1129	N15	W17	.357	11035	17.2	18	-N		C		.28				DE	6
045 MONT	18	1410	1423D	1412	N08	W24	.415	11035	16.8	13D	-N		C	1412	.21					5
046 CANR	18	1431	1441	1433	S11	W24	.461	11032	16.8	10	-F	1	C	1433	.32	.36				4
047 BOUL	18	1446	1451	1447	S09	W27	.489	11032	16.6	5	-N	1	V							3
053 LOCK	18	2008	2014	2010	S12	W23	.455	11032	17.1	6	-F		C							4
057 CULG	18	2208E	2241	2213	N11	E77	.973	11045	24.7	33D	1N		P	2213	.93					2
064 CULG	19	0539	0557D	0555	N17	W37	.632	11035	16.5	18D	1N		P	0555	2.99	3.77				3

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OBSERV-ATORY	OBSERVED UT DATE 1970 NOV	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
GRP35068	19	0844	0858	0847	N17	W64	.902	11029	14.6	14	-B				.31				2 2 2 8
TEHR	19	0842	0900	0844	N17	W63	.895	11029	14.6	18	-N		C		.45				FDE
CATA	19	0845	0855	0850	N16	W65	.909	11029	14.5	10	-B			0850	.17	.41		209	
071 CRON	19	0943	0947		N05	W15	.262	11035	18.3	4	-F		V		.31				5
075 TEHR	19	1121	1140	1122	N18	W62	.888	11029	14.8	19	-F		C		.28				DE 5
077 TEHR	19	1145	1226	1148	N04	E60	.865	11046	24.0	41	-N		C		.28				DE 5
083 BOUL	19	1549	1556	1550	N04	W16	.277	11035	18.5	7	-N	1	V						5
GRP35084	19	1622	1640	1627	N02	W24	.407	11035	17.9	18	-N								2 2 0 5
CANR	19	1620	1640		N01	W29	.485	11035	17.5	20	-N	1	V			.70			
BOUL	19	1623	1642	1627	N06	W15	.265	11035	18.6	19	1N	1	V						
BOUL	19	1623	1640	1625	S00	W24	.409	11035	17.9	17	-N	1	V						
085 RAMY	19	1629	1644E	1633	N14	W68	.928	11029	14.6	15D	-F		C		.41				DE 5
087 RAMY	19	1659	1705D	1702	S11	W37	.632	11032	16.9	60	-N		C		.41				DE 5
097 CRON	20	0730	0736		N22	E77	.975	11048	26.1	6	-F		V		.52				3
098 ARCE	20	0845	0910	0900	N04	W29	.485	11035	18.2	25	-F		C	0900	.54	.60			6
099 CRON	20	0919	0930	0923U	N04	W26	.439	11035	18.4	11	-F	1	C	0923	.23	.24			7
101 HUAN	20	1118E	1137D	1118U	N11	W24	.428	11035	18.7	19D	-N	1	P	1118	.21	.23			D 4
102 HUAN	20	1128	1137D	1132	N15	W85	.996	11029	14.1	9D	-F	1	P	1132	.21				D 4
109 BOUL	20	1828	1845	1830	N15	W88	.999	11029	14.2	17	-F	1	V						3
116 CRON	21	0824E	0832	0824	N14	W60	.870	11035	16.9	8D	-F		V						6
117 CATA	21	0835	0900	0850	N16	W60	.871	11035	16.9	25	-N			0850	.58	1.19		191	5
126 CRON	21	2226	2237		N10	E55	.821	11048	26.1	11	-F		V		.72				4
130 MITK	22	0316	0324	0318	N05	W45	.707	11035	18.8	8	-F		C	0318	.83	1.10			E 5
132 ISTA	22	0711	0740		N09	W19	.344	11051	20.9	29	-N								6
133 ISTA	22	0753	0815		N05	W49	.755	11035	18.7	22	-F								6
135 CATA	22	0910	0920	0915	N07	W48	.744	11035	18.8	10	-N			0915	.23	.35		182	9
136 ARCE	22	0945	0954D	0947	N05	W58	.848	11035	18.1	9D	-F		C	0947	.25	.50			8
GRP35137	22	1110	1135	1115	N08	W59	.857	11035	18.0	25	-B				.46				2 2 2 6
CATA	22	1105E	1130	1115	N08	W57	.839	11035	18.2	25D	-B			1115	.40	.77		204	
UCCL	22	1115	1140D	1115	N08	W60	.866	11035	18.0	25D	-N		P	1115	.52				EI
140 HUAN	22	1445E	1536D	1453	N08	E28	.477	11045	24.7	51D	-F	1	P	1453	.63	.72			E 5
141 HUAN	22	1445E	1522	1456	N05	W52	.788	11035	18.7	37D	-F	1	P	1456	.21	.32			D 5
147 PALE	22	2213E	2214D	2213E	N12	W74	.961	11035	17.4	1D	-F		V		.21				F 3
148 PALE	22	2336E	2339	2336E	N08	W66	.913	11035	18.0	3D	-F		V		.36				4
149 CRON	22	2345	0004D		N08	W57	.839	11035	18.7	19D	-N		V						3
152 CULG	23	0342	0426	0357	N06	W67	.920	11035	18.1	44	1N		C	0357	1.03				R 4
153 CRON	23	0505E	0505D		N12	W90	1.000	11035	16.5		2N		V						5
155 MONT	23	1020	1034	1024	N09	E15	.284	11045	24.6	14	-N		C	1024	1.55				7
156 MONT	23	1033	1036	1034	N03	W59	.857	11035	19.0	3	-N		C	1034	.52				6
157 WEND	23	1048E	1117		N07	W30	.505	11051	21.2	29D	2N		V		6.19				5
158 CANR	23	1052E	1052D		N05	W62	.882	11035	18.8		-N	2	V		.60				6
161 RAMY	23	1310	1323	1313	N05	W63	.891	11035	18.8	13	-F		C		.52				DE 7
172 CULG	23	2355	0105	0027	N06	W73	.956	11035	18.5	70	1N		C	0027	1.24				4

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OBSERVATORY	OBSERVED UT DATE 1970 NOV	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
173 VORO	24	0246	0253	0248	N04	W77	.974	11035	18.3	7	-F		C	0248	.46	1.90		87	D 4
174 CRON	24	0317	0326	0318	N08	W42	.673	11051	21.0	9	-N	1	C	0317	.33	.43			4
177 CATA	24	0635	0650	0640	S16	W33	.604	11056	21.8	15	-N			0640	.23	.29		170	7
179 MONT	24	0944	0949	0946	N12	W88	.999	11035	17.8	5	-N		C	0946	.77				13
180 RAMY	24	1736E	1752		N13	W85	.996	11035	18.4	16D	-N		V						DE 4
182 LOCK	24	1933	1941	1936	S00	W82	.990	11035	18.7	8	-F		C						4
183 HUAN	24	1948E	1949	1948U	S07	E57	.844	11053	29.1	1D	-F	1	P	1948	.56	.97			D 4
184 LOCK	24	2133	2142	2135	N13	W82	.990	11035	18.7	9	-F		C						H 4
185 LOCK	24	2150	2156	2152	N10	W82	.990	11035	18.8	6	-F		C						4
GRP35186	25	0704	0736	0712	N02	W18	.309	11046	23.9	32	-F				.48				2 2 2 6
TEHR	25	0702	0741	0709	N01	W18	.309	11046	23.9	39	-F		C		.27				DEH
CATA	25	0705	0730	0715	N02	W17	.292	11046	24.0	25	-F			0715	.69	.73		138	
187 HTPR	25	1034	1045	1039	N14	E04	.224	11048	25.7	11	-F		C	1039	.62	.60			10
188 MONT	25	1139	1149	1142	N14	E04	.224	11048	25.8	10	-F		C	1142	1.13				H 10
GRP35190	25	1411	1427	1413	S13	E69	.940	11053	30.8	16	-N				.32				2 2 2 7
CATA	25	1410	1420	1412	S14	E67	.928	11053	30.6	10	-N			1412	.23			178	
RAMY	25	1412	1434	1414	S12	E71	.950	11053	30.9	22	-N		C		.41				DE
191 HUAN	25	1431	1441	1433	N14	E02	.216	11048	25.8	10	-F	2	C	1433	.66	.68			E 8
GRP35195	26	1357	1430	1415	S12	E56	.841	11053	30.8	33	-N				.90				2 1 1 6
CAPS	26	1357E	1430D		S12	E56	.841	11053	30.8	33D	-N	3	V	1400	.90	1.80		164	
CATA	26	1408E	1423	1415	S15	E53	.819	11053	30.6	15D	-N			1415	.87	1.56		158	
198 MONT	27	1019	1028	1023	N22	E90	1.000	11060	4.2	9	-N		C	1023	.77				8
199 MONT	27	1030	1041	1035	N22	E90	1.000	11060	4.2	11	-N		C	1035	.77				5
GRP35200	27	1352	1404	1357	S15	E41	.691	11053	30.7	12	-F				.43				2 2 2 8
CAPS	27	1352E	1405D		S16	E40	.684	11053	30.6	13D	-F	3	V	1355	.40	.60			
HUAN	27	1352E	1402	1357U	S13	E41	.684	11053	30.7	10D	-F	1	P	1357	.45	.62			
207 CAPS	28	1126E	1145D		S15	E30	.557	11053	30.7	19D	-F	3	V	1127	1.00	1.20			6
208 RAMY	28	1425	1452D	1428	N12	E48	.752	11060	2.2	27D	-F		V		.62				DE 4
215 CAPE	29	0717	0740	0730	S14	E90	1.000	11066	6.1	23	-N		C	0730	.86				5
216 CATA	29	0823E	0840	0823	N14	E44	.711	11060	2.6	17D	-N			0823	.17	.25		182	4
217 RAMY	29	1216E	1222D		S11	E85	.997	11066	5.9	6D	-N		V						DE 5
218 RAMY	29	1421	1430		S10	E88	1.000	11066	6.2	9	-N		C						DE 5
GRP35226	30	0654	0719	0702	N08	W59	.859	11061	25.9	25	-N				.37				2 2 2 6
TEHR	30	0653	0722	0659	N07	W59	.858	11061	25.9	29	-N		C		.27				DE
CATA	30	0655	0715	0705	N08	W58	.850	11061	25.9	20	-N			0705	.46	.90		162	
227 TEHR	30	0813	0824	0815	N23	E53	.828	11060	4.3	11	-F		C		.27				DE 5
230 CRON	30	0917	0945	0921	N24	E25	.550	11060	2.3	28	-N	2	C	0921	.33	.40			8
233 RAMY	30	1253	1313	1257	N17	E32	.578	11060	2.9	20	-F		C		.41				DE 6
234 BOUL	30	1501	1507	1503	S12	E74	.964	11066	6.2	6	-F	1	V						3
235 RAMY	30	1545	1600	1548	N20	E38	.665	11060	3.5	15	-F		C		.52				DE 4

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

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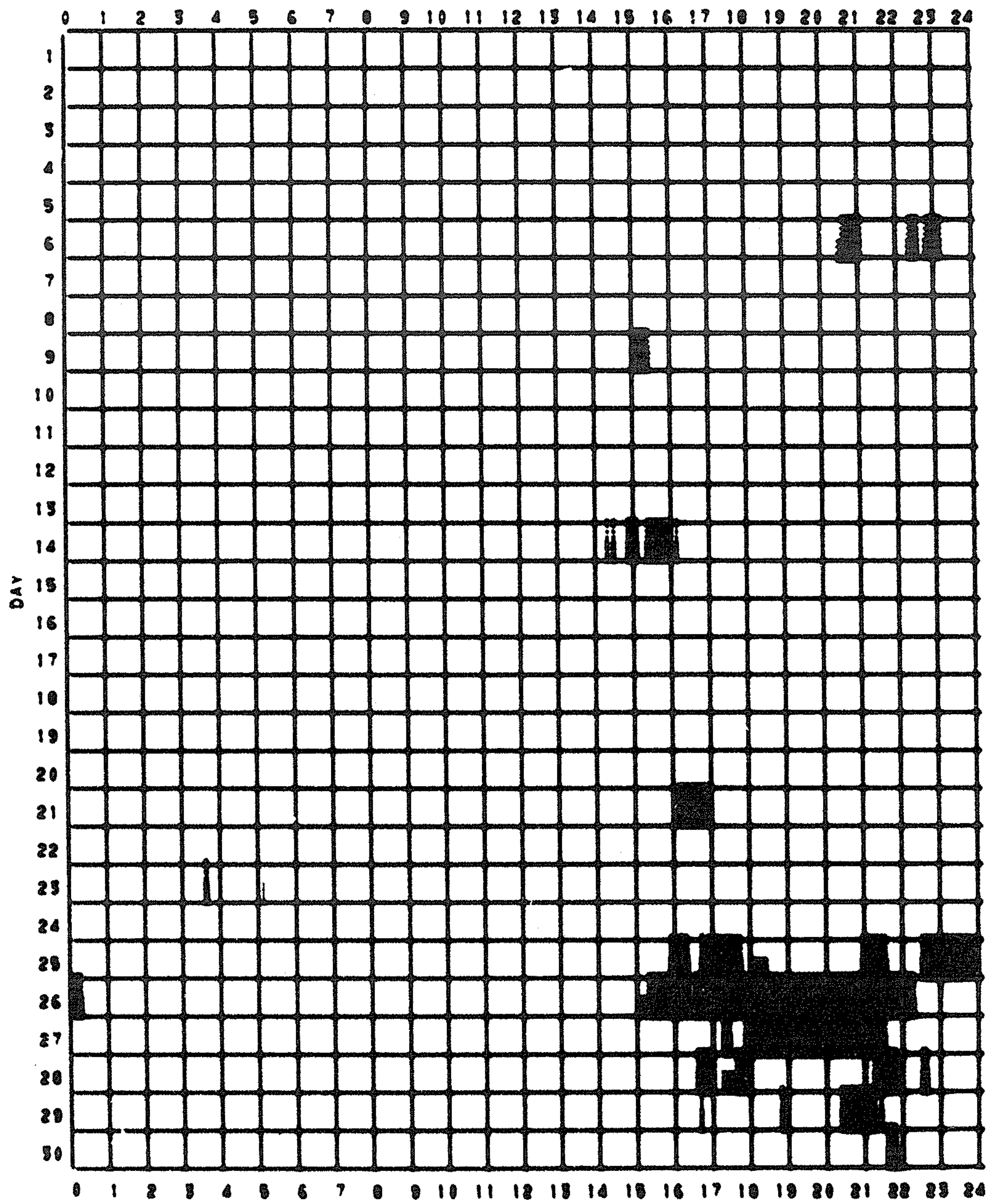

Observatories included in total patrol:

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

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
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NOVEMBER 1970

NOV. 1970	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	1000 TYKW	41	0005	0008.4	7	13.0	1.0		
	200 HIRA	45	0034	0034.5	.7	570.0	240.0		
	9400 TYKW	45	0037	0038.2	2	17.0	3.0		
	8800 MANI	3	0037.3	0038.3	2	10.6	3.5		
	4995 MANI	1	0037.3	0038.3	2	2.7	1.3		
	3750 TYKW	5	0037	0038.2	2	5.0	2.0		
	2000 TYKW	45	0037	0038.3	2	7.0	2.0		
	1415 MANI	46	0037	0038.3	2.3	18.0	6.0		
	1000 TYKW	45	0037	0037.6	2	46.0	9.0		
	606 MANI	46	0037	0038.2	2.3	42.6	16.8		
	2695 MANI	1	0038.3	0038.4	1	5.6	1.9		
	208 VORO	5	0038	0038	.5	160.0			
	3750 TYKW	5	0139	0223	80	10.0	4.0		
	9400 TYKW	5	0347.5	0348	2.5	11.0	4.0		
	3750 TYKW	5	0347.5	0348	1.5	4.0	2.0		
	2000 TYKW	5	0347.5	0348	1.5	4.0	2.0		
	1000 TYKW	45	0347.6	0347.7	4	51.0	6.0		
	200 GORK	41	0723.2	0723.3	.9	35.0			
	200 GORK		0723.2	0723.6		15.0			
	100 GORK	6	0723.2	0723.3	1.1	130.0D			
	100 GORK	41	0805.6	0805.8	3.1	25.0			
	100 GORK		0805.6	0807.2		150.0D			
	100 GORK		0805.6	0808.7		70.0			
	200 GORK	6	0807.2	0807.2	.3	70.0	30.0		
	2950 GORK	1	0912.5	0913.2	1.4	22.0	6.6		
	204 KIEV	6	1202.3	1202.6	1.4	21.0			
	9400 HUAN	20	1237.7	1304.8	33.4	16.7	11.8		
	2800 OTTA	22	1240	1302	120	13.0	6.5		
	9500 BERL	22	1243 U	1251.5	37 U	12.0	4.8		
	9500 BERL	22	1243	1308	37 U	17.0	4.8		
	1490 BERL	22	1246 U	1250.7	32 U	7.0U	2.3		
	1490 BERL		1246	1301.3		7.6U	2.3		
	2700 PENN	20	1340.6	1410	50.6	11.2	5.2		
	2800 OTTA	20	1740	1800	75	2.4	1.2		
	2695 PENT	20	2140	2210	80	3.4	1.7		
2	3750 TYKW	45	0401	0407.8	39	17.0	7.0		
	3750 TYKW	29	0440		60	4.0	2.0		
	606 MANI	4	0453.4	0458.1	6.6	78.0	17.4		
	100 GORK	44	0533 E		267		5.0		
	9700 IRKU	1	0610	0610.7	3	6.0			
	100 GORK	6	0732.6	0733	.7	90.0D			
	9500 BERL	22	0827.5	0834.7	13.5U	12.0	2.0		
	1490 BERL	2	0836	0837	2.5	4.0	1.4		
	600 UCCL	1	1025.5		.3	6.0	3.0		
	100 GORK	41	1104.7	1105.9	8.6	100.0			
	100 GORK		1104.7	1110.3		30.0			
	200 GORK	6	1115.1	1115.2	.3	60.0	30.0		
	100 GORK	41	1115	1115.2	6.2	2000.0			
	100 GORK		1115	1118.5		80.0			
	600 UCCL	3	1130	1130.3	.5	14.0	7.0		
	3100 CRIM	3	1211		40				
	2695 CANR	3	1212.5	1216.5	11			1	
	2800 SLOU	3	1213.5	1216	7	52.0			
	4995 CANR	3	1214.5	1216.5	5			1	
	1490 BERL	1	1215	1217.3	26	3.3	0.9		
	9500 BERL	20	1221	1227	39	5.5	2.7		
	2700 PENN	24	1439	1442.2		5.2			
	2800 OTTA	22	1440	1452	55	4.6	2.3		
	2695 CANR	3	1440	1441	7			1	
	18 BOUL	42	1607	1651	93			1	
	18 MCMA	42	1630	1657	92			3	
	2800 OTTA	20	1750	1815	65	3.4	1.7		
	2700 PENN	1	1857.5	1859.3	7.6	3.4	0.6		
	2695 BOUL	41	2034.5	2035	1.5			1	
	2695 BOUL	41	2039.5	2039.5	2			1	
	2695 PENT	20	2100	2130	50	2.0	1.0		
	2695 PENT	4	2159.5	2159.8	2	15.0	4.0		
3	204 KIEV	6	0951.5	0951.7	.3	37.0			
	237 TRST	41	1038.3	1038.3	1	170.0			
	2800 OTTA	20	1305	1317	25	3.2	1.8		
	2800 OTTA	22	1420	1515	80	5.0	2.5		
	2800 OTTA	21	1610	1623	70	6.8	3.4		
	2800 OTTA	2	1640	1640.5	1	3.0	1.5		
	245 SGMR	6	1800.5	1800.7	2	215.0	20.0		
	2700 PENN	24	1812.1	2024.1		14.8			
	2800 OTTA	21	1830	1855	70	4.4	2.2		
	2800 OTTA	1	1830	1833	6	5.0	2.5		
	2800 OTTA	1	1843	1844	5	3.0	1.5		
	2695 BOUL	40	1925	1926	6			1	
	408 SANM	45	1942.5	1942.8	.7	70.5	14.0		
	408 SANM	45	1946.9	1947.3	.7	78.0	23.5		
4	204 KIEV	6	0702.3	0702.5	.4	33.0			
	37000 SLOU	3	0855.4	0855.6	.5				
	19000 SLOU	3	0855.3	0855.7	.7	21.0			
	9400 SLOU	3	0855	0855.3	1	11.0			
	237 TRST	42	0955.3	0956.4	4.3	90.0			
	221 ABST	3	0955.3	0956.2	2	26.0	6.0		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	100 GORK	6	0955.5	0956.5	2.4	100.0			
	19000 SLOU	20	1009	1022 U	27 U	13.0			
	9400 SLOU	20	1010	1023	27	6.0			
	3100 CRIM	24	1035	1100		12.0			
	650 GORK	2	1037.4	1040.2	4	4.9	1.7		
	950 GORK	41	1039.2	1040.2	5	7.4			
	950 GORK	31	1039.2	1043.5					
	600 UCCL	3	1039.7	1040	.7	27.0	12.0		
	237 TRST	42	1039	1043.3	5.5	1150.0			
	930 BORD	45	1042	1043.3	2	25.0	3.0		
	650 GORK	4	1042.2	1043.7	1.9	29.0	12.5		
	600 UCCL	3	1043	1043.2	1	86.0	30.0		
	234 POTS	45	1043.3	1043.4	.1	700.0	175.0		
	221 ABST	1	1043	1043	.4	9.0			
	204 KIEV	6	1141.1	1141.4	.6	39.0			
	600 UCCL	1	1225.5		.3	6.0	3.0		
	2700 PENN	1	1250.1	1253.8	6.6	5.3	2.4		
	2800 OTTA	24	1600		15	2.6			
	2700 PENN	24	1604	1619.1		8.4			
	2800 OTTA	1	1618	1620	8	2.4	1.2		
	18 MCMA	42	1631	1641	89			3	
	606 SGMR	46	1806.8	1807	1	11.4	3.8		
	245 SGMR	6	1806.6	1807.6	1.3	10.6	1.5		
	2800 OTTA	20	1820	1900	90	4.4	1.8		
	408 SANM	45	2110.3	2110.7	2	105.0	13.5		
	2695 PENT	20	2130	2155	55	11.0	5.5		
	9400 HUAN	20	2137.5	2153.7	29.5	18.6	10.0		
	1420 BOUL	8	2140.5	2140.5	1			1	
	200 HIRA	45	2150	2303	160	60.0	20.0		
	1420 BOUL	8	2212.5	2212.5	1			1	
	1000 TYKW	5	2216.5	2216.7	.5	37.0	10.0		
	1000 TYKW	41	2222	2228.1	7	10.0	1.0		
	9400 TYKW	45	2249.9	2250.2	2	40.0	7.0		
	8800 MANI	3	2249.8	2250.2	2.4	24.7	7.1		
	4995 MANI	4	2249.8	2250.2	2.4	27.4	8.2		
	3750 TYKW	45	2249	2250.2	3	46.0	7.0		
	2695 PENT	4	2249.9	2250	2	17.0	6.0		
	2695 MANI	4	2249.8	2250.2	7.4	107.0	7.6		
	2000 TYKW	45	2249.8	2250.2	3	345.0	25.0		
	1415 MANI	4	2249.8	2250.2	7.4	1210.0	123.0		
	1000 TYKW	5	2249.7	2250.2	1 U	1130.0U	210.0U		
	606 MANI	4	2249.8	2250.2	6.2	275.0	22.4		
	2695 CRON	8	2250.5	2251	2			2	
	1420 BOUL	8	2250.5	2251	2.5			2	
	2695 BOUL	45	2251	2251.5	4			2	
5	2000 TYKW	5	0001	0001.5	1	2.0	1.0		
	1000 TYKW	5	0001.3	0001.5	.4	18.0	7.0		
	3750 TYKW	5	0215	0224	20	10.0	5.0		
	2000 TYKW	5	0215	0224	15	7.0	3.0		
	9400 TYKW	5	0221	0224	9	5.0	3.0		
	9400 TYKW	29	0230		33	3.0	2.0		
	2000 TYKW	29	0230		30	3.0	3.0		
	3750 TYKW	29	0235		27	5.0	4.0		
	2000 TYKW	45	0300	0326.9	53	615.0	165.0		
	3750 TYKW	47	0302	0326.7	44	1125.0	280.0		
	9400 TYKW	47	0303	0326.7	43	1100.0	205.0		
	2695 CRON	41	0311.5	0326	99			2	
	2695 MANI	46	0311	0325.3	113	640.0	310.0		
	1000 TYKW	45	0313	0325.3	40	290.0	95.0		
	4995 CRON	45	0314.5	0327	34			2	
	4995 MANI	46	0314.8	0326.6	109.2	1800.0	860.0		
	1415 MANI	46	0314.8	0327	109	385.0	187.0		
	1420 CRON	41	0316	0328	115			2	
	9700 IRKU	3	0317.2	0326.7	55	216.0	25.0		
	8800 MANI	46	0317	0326.8	107	1250.0	540.0		
	500 HIRA	45	0318.8	0420	128	260.0	75.0		
	606 MANI	46	0319	0420.1	105	240.0	112.0		
	200 HIRA	45	0321	0339	137	470.0	40.0		
	9400 TYKW	29	0346		180	95.0	40.0		
	3750 TYKW	29	0346		180	87.0	30.0		
	2000 TYKW	29	0353		150	32.0	13.0		
	1000 TYKW	29	0353		95	23.0	12.0		
	1000 TYKW	45	0353	0420.5	37	155.0	50.0		
	3750 TYKW	5	0356	0400	12	18.0	9.0		
	9700 IRKU	1	0357	0358.5	3	11.0	4.0		
	2000 TYKW	45	0357	0400	33	75.0	30.0		
	1000 TYKW	5	0430	0436	25	110.0	40.0		
	3750 TYKW	5	0432	0436.5	28	17.0	8.0		
	2000 TYKW	5	0432	0435.7	26	80.0	30.0		
	100 GORK	44	0605		325 D		10.0		
	204 KIEV	42	0700 E		420 D	42.0	9.0		
	245 SGMR	43	1212.3		552.7D				
	237 TRST	42	0712.7	0715.6	3.8	75.0			
	204 KIEV	48	0743	0757.3	22	40.0			
	650 GORK	20	0748	0802.1	36	8.8	4.0		
	600 UCCL	22	0749	0805	26	18.0	5.0		
	200 GORK	24	0750.4	0758	18.4	40.0	9.0		
	221 ABST	3	0754	0803.2	15	21.0	9.0		
	950 GORK	20	0756.1	0805.8	18.5	9.0	3.6		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	237 TRST	41	0843.6	0843.9	3.3	90.0			
	221 ABST	1	0844.2	0845	1	66.0			
	600 UCCL	3	0939.8		.3	18.0	9.0		
	237 TRST	42	1229.8	1240.1	43	90.0			
	2800 OTTA	20	1330	1505	130	2.6	1.8		
	237 TRST	41	1359	1359.1	.4	140.0			
	600 UCCL	1	1401.2	1401.5	.4	6.0	3.0		
	2700 PENN	45	1949.8	1950	.5	76.3	19.8		
	2800 OTTA	20	2000	2105	140	2.2	1.1		
	1000 TYKW	41	2316.8	2317	3	16.0	3.0		
6	600 UCCL	1	0916.5		.3	6.0	3.0		
	600 UCCL	3	1138.5	1140	3	15.0	8.0		
	930 BORD	5	1139	1140	2	7.0	3.0		
	225 HARS	45	1242.5	1243	2	30.0	10.0		
	2695 BOUL	41	1527	1531.5	6.5			2	
	2695 BOUL	41	1527	1532	6.5			2	
	2695 BOUL	8	1536.5	1536.5	1.5			2	
	2800 OTTA	20	1555	1605	40	2.6	1.3		
	2695 BOUL	41	2032.5	2033.5	1.5			1	
	2000 TYKW	5	2250	2253.7	10	9.0	3.0		
	3750 TYKW	5	2253	2253.7	1	2.0	1.0		
	2695 PENT	1	2253	2253.8	1	5.4	2.7		
7	237 TRST	41	1021	1022.3	1.8	100.0			
	204 KIEV	6	1021.8	1022.6	1.3	36.0			
	100 GORK		1021.1	1022.2	1.8	60.0			
	600 UCCL	1	1120.5		.3	6.0	4.0		
	600 UCCL	1	1124.2	1124.4	.5	10.0	5.0		
	930 BORD	5	1210	1210.9	1	8.0	1.0		
	7000 SAOP	40	1303.1	1329.9	16.9	24.7			
	2800 OTTA	24	1507		5	2.0			
	204 KIEV	42	1525		54	34.0	12.0		
	2800 OTTA	26	1800		40	4.4			
	9400 HUAN	22	1903	1922.2	32.2	7.6	5.4		
8	237 TRST	41	0844.1	0845.2	2.2	80.0			
	600 UCCL	1	0907.5		.3	9.0	6.0		
	600 UCCL	2	0911.8	0912.3	.8	9.0	4.0		
	930 BORD	5	1206	1206.8	1	9.0	1.0		
	600 UCCL	41	1206	1207	4.3	39.0	12.0		
	2700 PENN	40	1343.4		8.3				
	18 MCMA	42	1630	1734	90			3	
	408 SANM	45	1906.1	1906.6	1	180.0	11.0		
9	100 GORK	41	0907	0908.8	2.2	40.0			
	206 IZMI	6	1154.9	1155	.5	20.0	10.0		
	600 UCCL	2	1348.2	1349	1.3	8.0	3.0		
	2695 BOUL	40	1727.5	1728	9.5			1	
	8800 SGMR	3	1741.9	1742.3	1.2	8.1	3.6		
	2695 SGMR	1	1741.9	1742.2	.7	6.3	3.1		
	4995 SGMR	3	1742	1742.3	.7	7.5	3.0		
	1415 SGMR	1	1742	1742.3	.7	2.0	1.0		
	2695 BOUL	40	2126	2126.5	5.5			1	
	2695 BOUL	40	2140.5	2147	7.5			1	
	2695 BOUL	41	2241	2242.5	3			1	
	1420 CRON	45	2254.5	2255	5.5			1	
10	930 BORD	41	0834	0835	2	10.0	2.0		
	930 BORD	41	0854	0855.2	5	24.0	2.0		
	7000 SAOP	41	1050 E		267.5				
	7000 SAOP	20	1050 E		30 U				
	7000 SAOP	20	1110		57.5	15.4			
	100 GORK	6	1151.8	1151.9	.4	90.0	45.0		
	7000 SAOP	20	1247.5		43.5	33.0			
	7000 SAOP	20	1331		41.5	33.0			
	18 MCMA	41	1339	1340	5			1	
	7000 SAOP	20	1412.5		40 U	33.0			
	18 BOUL	41	1416	1417	6			1	
	2800 OTTA	20	1425	1440	65	3.8	1.9		
	113 POTS	45	1433.9	1434.5	3.1	850.0	150.0		
	2800 OTTA	1	1532	1532.3	3	2.2	1.0		
	930 BORD	45	1607	1607.8	1	21.0	2.0		
	2695 BOUL	41	1717	1717	2			1	
	2695 SGMR	2	1721.8	1724.2	5.2	5.4	2.6		
	15400 SGMR	3	1722.6	1724.4	4.4	13.4	5.0		
	9400 HUAN	3	1722.8	1724.3	2.5	17.2	6.5		
	4995 SGMR	4	1722	1724.2	4	10.3	4.5		
	2700 PENN	1	1722.8	1724.5	3.6	4.3	1.4		
	960 PENN	1	1722.8	1724.3	2.8	5.4	1.4		
	606 SGMR	46	1722.9	1724.3	1.8	25.4	10.4		
	245 SGMR	7	1722.6	1726	5.6	270.0	65.0		
	10700 PENN	3	1723.4	1724.5	3	13.4	1.8		
	8800 SGMR	4	1723	1724.4	1.9	13.8	5.3		
	2800 OTTA	2	1723	1724	2	4.0	2.0		
	1415 SGMR	1	1723.4	1724.2	1.3	1.4	.7		
	2800 OTTA	21	1750	1955		3.0	2.0		
	2800 OTTA	1	2021	2021.5	3	3.2	1.6		
11	200 GORK	44	0529 E		381 D		5.0		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	204 KIEV	44	0700 E		390 D	31.0	9.0		
	245 SGMR	43	1241.8		509.2D				
	2000 TYKW	5	0535	0539	10	12.0	4.0		
	100 GORK	6	0536.6	0537.1	1.5	40.0	20.0		
	3750 TYKW	5	0537	0539	5	2.0	1.0		
	1000 TYKW	5	0537	0539	5	6.0	2.0		
	1000 TYKW	5	0544.5	0544.9	1	4.0	1.0		
	100 GORK	24	0549.9	0559 U	31.7	20.0			
	100 GORK	48	0556.3	0556.7	.8	2500.0D			
	650 GORK		0656.7		20.5				
	2950 GORK	45	0659.5	0702.6	8.2	22.0			
	4995 MANI	3	0700.8	0701.9	13.2	125.0	53.0		
	2695 MANI	3	0700.8	0701.9	13.2	125.0	60.0		
	1490 BERL	4	0700	0702.3	11 U	54.0	13.0		
	1415 MANI	4	0700.8	0702.1	12.7	79.0	36.0		
	9500 BERL	3	0701.3	0701.7	3.7U	49.0U			
	9400 TYKW	5	0701 U	0701.9U	2 U	32.0U	10.0U		
	9100 GORK	3	0701.3	0701.8	1	40.0	19.0		
	8800 MANI	3	0701.7	0701.9	1.6	42.8	15.6		
	4995 CRON	3	0701.5	0702	5.5			1	
	3750 TYKW	45	0701	0702	8	118.0	20.0		
	3100 CRIM	45	0701		8				
	3100 CRIM	3	0701		4	20.0D			
	2695 CRON	3	0701	0702.5	8.5			2	
	2000 TYKW	45	0701	0702.1	15	96.0	20.0		
	1000 TYKW	5	0701	0702.2	8	49.0	15.0		
	606 MANI	4	0701.2	0702	7.3	16.2	7.6		
	237 TRST	41	0701.6	0701.9	.6	100.0			
	206 IZMI	7	0701	0702	2	50.0	36.0		
	9100 GORK	29	0702.3	0702.3	3.9	18.0	4.3		
	1420 CRON	45	0702	0703.5	10.5			2	
	950 GORK	45	0702.5E	0702.6U	10.3E	31.0	9.0		
	950 GORK		0702.5E	0706		14.0			
	3100 CRIM	3	0705	0706	4	5.0	2.0		
	100 GORK	48	0705.7	0706.7	11.4	40.0			
	100 GORK		0705.7	0709.4		10000.0D			
	2950 GORK	29	0707.7	0708	5.2	12.4			
	650 GORK	29	0707.2	0707.2	10	5.5	2.5		
	3100 CRIM	24	0709	0709		5.0			
	7000 SAOP	20	1220		45	11.1			
	9400 HUAN	20	1311.4	1324.9	26.3	7.4	3.7		
	7000 SAOP	20	1319		56	17.7			
	1490 BERL	1	1324.5	1326	2.8	2.8	1.1		
	18 MCMA	41	1338	1339	7			1	
	18 BOUL	6	1420	1422	3			2	
	2700 PENN	40	1521.4		48.6				
	2800 OTTA	22	1525	1527	20	3.6	1.8		
	2700 PENN	24	1620.5	1935		23.0			
	9400 HUAN	23	1811.1	1831.7	30.7	12.9	5.5		
	7000 SAOP	28	1827		1.8				
	7000 SAOP	8	1828.8	1829.2	.9	17.8	12.2		
	2700 PENN	3	1828.4	1830.8	11.9	27.3	6.2		
	2695 SGMR	4	1828	1830.6	8.1	22.2	9.3		
	1415 SGMR	3	1828.8	1830.8	5.1	8.5	4.2		
	960 PENN	20	1828.4	1831	10.8	7.1	2.4		
	245 SGMR	6	1828.7	1831.1	6.4	15.0	6.7		
	7000 SAOP	29	1829.7		4.4				
	4995 SGMR	4	1829	1830.7	5.2	15.5	6.3		
	2800 OTTA	4	1829	1831	7	22.0	8.0		
	1420 BOUL	3	1829	1831.5	5.5			1	
	606 SGMR	1	1829.2	1831.1	4.3	4.2	2.1		
	15400 SGMR	3	1830.7	1830.9	3.4	8.9	4.4		
	10700 PENN	1	1830.2	1830.8	5.8	8.1	4.1		
	9400 HUAN	3	1830.3	1830.7	.7	11.0	7.4		
	8800 SGMR	3	1830.5	1830.8	3.7	10.6	5.1		
	2695 BOUL	3	1830	1831.5	5.5			1	
	2800 OTTA	20	1910	1933	70	5.0	2.5		
	9400 HUAN	22	1920	1958.2	110	11.0	8.0		
	208 VORO	44	2300	0148	240	152.0			
12	9400 TYKW	5	0022	0022.7	1.5	18.0	5.0		
	9400 TYKW	5	0039.5	0040.1	1	18.0	5.0		
	9400 TYKW	5	0212.8	0213.1	.8	24.0	8.0		
	8800 MANI	4	0334.8	0336.7	7.2	310.0	127.0		
	4995 MANI	4	0334.8	0337	7.2	122.0	54.0		
	2695 MANI	4	0334.8	0337	7.2	131.0	54.0		
	1415 MANI	4	0334.8	0337	7.2	78.0	36.8		
	606 MANI	4	0334.8	0335.5	7.2	108.0	16.2		
	9400 TYKW	5	0335	0337.2	5	305.0	85.0		
	4995 CRON	3	0335	0337.5	5			1	
	3750 TYKW	5	0335	0337.2	5	108.0	33.0		
	2695 CRON	3	0335.5	0337.5	10			2	
	2000 TYKW	5	0335	0337.2	5	136.0	40.0		
	1000 TYKW	5	0335	0337.4	5	62.0	27.0		
	500 HIRA	45	0335.1	0336.5	9.4	195.0	20.0		
	1420 CRON	3	0336	0338	10.5			1	
	200 HIRA	45	0338	0339	3	4200.0	330.0		
	9400 TYKW	29	0340		10	7.0	4.0		
	3750 TYKW	29	0340		5	6.0	4.0		
	2000 TYKW	29	0340		10	13.0	6.0		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
	A 1000 TYKW	29	0340		10	10.0	4.0		
	200 GORK	44	0632 E		289 D		10.0		
	234 POTS	45	0645.9	0645.9	.1	700.0	60.0		
	260 ONDR	41	0700	0911	450	120.0D			
	221 ABST	41	0700	0955	240	10.0			
	204 KIEV	44	0700 E		390 D	100.0	15.0		
	100 GORK	44	0700		300		10.0		
	245 SGMR	44	1136 E		574 D				
	600 UCCL	2	0805	0805.8	1	10.0	4.0		
	200 GORK	6	0820.4	0820.6	.4	170.0			
	100 GORK	41	0820.2	0820.8	7.4	30.0			
	100 GORK		0820.2	0825.8		25.0			
	100 GORK	6	0834.8	0835	.7	25.0	10.0		
	9100 GORK	20	0854	0923	70.3	37.0	22.0		
	650 GORK	20	0854	0929.7	66 D	5.3			
	3100 CRIM	1	0910	0911	3	2.0	1.0		
	930 BORD	5	1023	1023.4	1	30.0	1.0		
	3100 CRIM	3	1033	1038	8	9.0	3.0		
	3100 CRIM	24	1041	1041	65	4.0			
	7000 SAOP	22	1150.9		30.3	17.0			
	18 MCMA	42	1317	1331	14			1	
	7000 SAOP	20	1331.6		116.8	31.6			
	2700 PENN	24	1341.2	1811		28.1			
	18 MCMA	41	1348	1349	5			1	
	600 UCCL	3	1350.2		.2	20.0	10.0		
	18 BOUL	41	1410	1415	6			1	
	2800 OTTA	22	1420	1422	10	7.0	3.5		
	18 BOUL	6	1440	1443	4			1	
	2700 PENN	3	1448.8	1450.3	6.6	12.5	2.9		
	2800 OTTA	2	1449	1450	5	9.6	2.8		
	18 BOUL	42	1556	1610	20			1	
	2800 OTTA	21	1610	1825	240	8.0	5.0		
	245 SGMR	6	1627	1832.9	283 D	115.0	60.0		
	960 PENN	40	1649		131				
	606 SGMR	22	1649.2	1718.7	141.8	26.2	13.1		
	2800 OTTA	1	1747.5	1748	1.5	9.4	4.4		
	2700 PENN	1	1747.4	1748	1.7	7.9	3.7		
	9400 HUAN	22	1800.7	1817	55.1	7.7	3.9		
	9400 HUAN	20	2010.4	2048.4	67.3	9.6	7.4		
	9400 TYKW	5	2240	2345	140	10.0	6.0		
	3750 TYKW	5	2240	2345	140	8.0	5.0		
	208 VORO	44	2300	0144	240	176.0			
13	9400 TYKW	5	0320	0410	130	12.0	6.0		
	3750 TYKW	5	0320	0410	130	15.0	8.0		
	2000 TYKW	5	0320	0410	110	9.0	5.0		
	1000 TYKW	5	0330	0410	100	4.0	2.0		
	1000 TYKW	41	0347	0401.5	25	20.0	2.0		
	2000 TYKW	41	0349	0353.8	21	33.0	4.0		
	1420 CRON	40	0359.5	0351.5	14			1	
	1000 TYKW	41	0424	0431.2	15	46.0	3.0		
	2000 TYKW	41	0425	0426.6	10	18.0	2.0		
	1420 CRON	40	0425.5	0426	12			1	
	200 GORK	44	0533 E		387 D		10.0		
	100 GORK	44	0533 E		387 D		500.0		
	204 KIEV	44	0700 E		390 D	134.0D	38.0		
	245 SGMR	44	1137 E		569 D				
	7000 SAOP	22	1103.7		30	16.0			
	9500 BERL	20	1106.5	1109.5	14	8.1	3.2		
	1490 BERL	3	1106.7	1107.7	3.3	55.0	11.0		
	650 GORK	40	1106.9	1108.2	1.7	12.1	4.0		
	9100 GORK	1	1107.7		6.8				
	2950 GORK	3	1107	1107.9	4.5	9.0	3.4		
	1420 CANR	45	1107.5	1108	2.5			2	
	600 UCCL	2	1107.5	1108.2	2.5	8.0	5.0		
	2950 GORK	29	1108.7	1108.9	2.7	4.3	2.1		
	237 TRST	41	1135.9	1136	.4	440.0			
	234 POTS	45	1135.9	1136	.1	350.0	70.0		
	650 GORK	4	1136.7	1137.3	1.4	15.0	5.0		
	206 IZMI	6	1136.1	1136.2	.5	330.0	66.0		
	200 GORK	6	1136	1136.3	.6	100.0	50.0		
	100 GORK	6	1136.1	1136.3	.3	950.0D			
	950 GORK	1	1137	1137.5	1.1	4.4	2.2		
	600 UCCL	4	1137.7	1137.8	1.1	20.0	12.0		
	100 GORK	6	1141	1141.3	.7	600.0			
	7000 SAOP	22	1146.4		36.5	27.4			
	2695 CANR	3	1233	1233.5	4.5			1	
	234 POTS	45	1336.3	1336.4	.1	200.0	50.0		
	18 BOUL	41	1421	1422	5			1	
	18 BOUL	6	1435	1439	5			1	
	2700 PENN	41	1527.8	1529.7	4.5	118.0			
	18 MCMA	41	1534	1535	4			1	
	18 MCMA	41	1548	1551	5			1	
	10700 PENN	1	1553.5	1553.7	2.3	3.9	1.1		
	2800 OTTA	24	1600		30	6.2			
	2800 OTTA	21	1655	1700	45	4.8	3.0		
	2800 OTTA	1	1713	1715	6	2.6	1.3		
	2800 OTTA	20	1745	1900	220	6.8	4.4		
	2700 PENN	20	1822.5	1937.6	110	13.8	7.9		
	18 MCMA	6	1911	1913	3			1	

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	2695 PENT	24	2155		15	5.4			
	1000 TYKW	41	2235	2236.8	6	61.0	3.0		
	9400 TYKW	45	2300	2301	3	55.0	25.0		
	8800 MANI	4	2300.6	2301	14.1	66.0	25.8		
	4995 MANI	4	2300.6	2301.1	14.1	40.4	16.1		
	3750 TYKW	45	2300	2301.9	7	24.0	8.0		
	3750 TYKW	5	2300	2355	110	8.0	4.0		
	2695 MANI	20	2300.6	2301.1	14.1	10.7	3.6		
	2000 TYKW	5	2300	2355	90	4.0	2.0		
	2000 TYKW	45	2300	2305.4	7	12.0	3.0		
	1415 MANI	20	2300.8	2305.2	13.9	8.9	3.0		
	1000 TYKW	41	2300.7	2301	2.5	72.0	7.0		
	208 VORO	44	2300	0252	240	140.0			
	9400 TYKW	29	2303		105	12.0	6.0		
	9400 TYKW	5	2304	2305	2	12.0	3.0		
	1000 TYKW	5	2304.8	2305	1.5	5.0	2.0		
	3750 TYKW	5	2310	2310.1	.6	3.0	1.0		
	2000 TYKW	5	2310	2310.1	.5	72.0	20.0		
	9400 TYKW	5	2311	2312	3	15.0	5.0		
	3750 TYKW	5	2311	2312	3	8.0	3.0		
	2000 TYKW	45	2311	2311.3	2	4.0	1.0		
	9400 TYKW	5	2349.3	2349.8	1	3.0	1.0		
	3750 TYKW	5	2349.3	2349.9	1.5	3.0	1.0		
14	9400 TYKW	5	0058	0104	13	7.0	3.0		
	3750 TYKW	5	0102	0104	9	4.0	2.0		
	9400 TYKW	5	0130	0310	260 U	13.0	6.0U		
	3750 TYKW	5	0130	0310	170	13.0	8.0		
	2000 TYKW	5	0130	0310	260	8.0	4.0		
	3750 TYKW	45	0435	0447	75	16.0	10.0		
	200 GORK	44	0527		194		5.0		
	100 GORK	44	0527 E		393 D		10.0		
	221 ABST	41	0700	1042.2	240	12.0			
	204 KIEV	44	0700 E		390 D	110.0	25.0		
	260 ONDR	41	0710		450	125.0D			
	200 GORK	44	0840.9		200 D		30.0		
	245 SGMR	44	1138 E		574 D				
	240 KIEL	44	1232 E	1232		2000.0	20.0		
	234 POTS	45	0717.9	0718.6	.8	200.0	20.0		
	4995 CANR	45	0733	0733.5	5.5			1	
	2950 GORK	20	0826.8	0836	199	7.9	4.0		
	600 UCCL	1	0838.2	0838.4	.6	9.0	5.0		
	930 BORD	41	0844	0845.4	2	32.0	2.0		
	2950 GORK	41	0920.9	0928.8	21.3	6.9			
	2950 GORK		0920.9	0930		5.9			
	2950 GORK		0920.9	0933.9		12.3			
	1490 BERL	20	0922	0932	57.5	2.3	1.2		
	200 GORK	6	0934.6	0934.9	1.6	250.0	60.0		
	234 POTS	45	1015.3	1015.4	.3	120.0	40.0		
	2950 GORK	20	1016.6	1029.6	36	13.2	9.3		
	221 ABST	1	1042.2	1042.3	1	91.0			
	234 POTS	45	1043.4	1043.6	.3	350.0	70.0		
	9500 BERL	20	1106.5E	0930.7		5.8			
	234 POTS	45	1127.1	1127.2	.4	100.0	10.0		
	200 GORK	41	1127	1127.9	5.1	300.0			
	200 GORK		1127	1131.9		300.0			
	200 GORK	41	1147.1	1147.4	2.8	300.0			
	200 GORK		1147.1	1149.5		300.0			
	7000 SAOP	41	1155		45				
	7000 SAOP	23	1155	1204	18.8	54.4			
	7000 SAOP	22	1155		18.8	24.4			
	9400 HUAN	23	1158	1222.8	89.5	22.6	13.0		
	9500 BERL	22	1201	1204.3	59 U	44.0	7.5		
	9500 BERL		1201	1232.5		51.0	7.5		
	9400 HUAN	4	1201.6	1204	9.2	56.4	20.0		
	9400 SLOU		1201	1204	55	46.0			
	9400 SLOU	46	1201	1232.5		53.0			
	7000 SAOP	45	1202	1204	4.1	35.6	15.5		
	7000 SAOP	23	1213.8		16.6	41.0			
	7000 SAOP	8	1229.1	1229.4	.8	7.8	3.3		
	7000 SAOP	23	1229.9	1232.5	10.4	87.6			
	7000 SAOP	22	1229.9		10.4	44.4			
	808 ONDR	45	1230	1232.5	8				
	9400 HUAN	4	1231.4	1232.6	16.3	41.4	14.5		
	204 KIEV	58	1231.2	1231.7	1.5	312.0			
	113 POTS	45	1231.9	1232.6	2.4	14000.0	2500.0		
	8800 SGMR	4	1232.1	1232.5	4.6	28.1	5.5		
	7000 SAOP	45	1232.1	1232.5	1.4	46.6	24.4		
	4995 SGMR	4	1232.2	1232.5	5.4	42.6	9.0		
	2800 SLOU	3	1232	1232.2	4	36.0			
	2695 SGMR	4	1232.2	1232.6	5.4	34.0	6.0		
	1490 BERL	3	1232	1232.8	7	21.0	5.2		
	1420 KIEL	5	1232	1232	2	150.0	50.0		
	1420 CANR	3	1232.5	1233	6			1	
	1415 SGMR	4	1232.3	1232.6	5.3	63.0	18.1		
	930 BORD	45	1232	1233.8	9	41.0	8.0		
	606 SGMR	4	1232.3	1232.4	5.4	3010.0	200.0		
	408 SANM	45	1232.2	1233	5.7	39.5	14.5		
	536 ONDR	45	1232	1232	8	90.0			
	420 KIEL	6	1232	1232	2	160.0	30.0		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	FLUX DENSITY MEAN	INT	REMARKS
14	260 ONDR	45	1232.5	1232.5	8	125.0D			
	245 SGMR	6	1232.1	1232.4	6.4	185.0	44.4		
	240 KIEL	6	1232	1232	2	2000.0	100.0		
	234 POTS	45	1232.3	1232.4	.2	1400.0	300.0		
	600 UCCL	4	1233.2	1233.2	8	90.0	15.0		
	15400 SGMR	3	1241.3	1241.5	.3	11.5	7.0		
	8800 SGMR	3	1241.4	1241.5	.2	7.8	3.5		
	4995 SGMR	3	1241.3	1241.5	.3	12.0	4.9		
	2695 SGMR	1	1241.4	1241.5	.4	4.0	2.0		
	234 POTS	45	1311.9	1311.9	.1	120.0	25.0		
	9400 HUAN	23	1330.3	1511.7	194.4	37.6	16.8		
	10700 PENN	20	1333.2	1513.2	148	30.0	14.1		
	2800 OTTA	21	1335	1437	225	17.4	8.7		
	7000 SAOP	23	1342.7		39.3	26.6			
	7000 SAOP	22	1342.7		39.3	26.6			
	237 TRST	42	1345.5	1355.2	10	760.0			
	234 POTS	41	1345.8	1345.8	9.6	600.0	3.0		
	2700 PENN	20	1346.8	1437.9	206	20.3	6.2		
	7000 SAOP	8	1355.6	1356	.6	11.1	5.5		
	18 BOUL	41	1411	1415	5			1	
	2800 OTTA	2	1431	1432	4	8.0	4.4		
	2800 OTTA	2	1436	1438	3	4.8	2.4		
	9400 HUAN	3	1438.6	1439.1	1.1	13.2	7.5		
	18 BOUL	6	1439	1447	9			1	
	600 UCCL	1	1447.7		.2	8.0	6.0		
	10700 PENN	20	1604.3	1618.7	73.8	26.4	10.1		
	9400 HUAN	20	1646.5	1647.8	3.5	9.4	5.0		
	9400 HUAN	20	1658.3	1700.9	10	18.8	8.7		
	10700 PENN	3	1723.1	1724.9	2.3	110.0	12.8		
	15400 SGMR	8	1724.6	1724.8	.6	63.7	31.0		
	9400 HUAN	3	1724.4	1724.8	.8	92.1	35.1		
	8800 SGMR	8	1724.6	1724.8	.7	81.0	40.0		
	7000 SAOP	21	1724.4	1724.8	13.6	31.2			
	7000 SAOP	20	1724.4		13.6	13.4			
	4995 SGMR	3	1724.6	1724.8	.8	7.5	3.0		
	10700 PENN	29	1725.4	1726.2	34.7	20.8	7.3		
	9400 HUAN	29	1725.2	1725.2	21.5	18.8	7.3		
	7000 SAOP	8	1726.6	1724.4	.9	26.8	13.4		
	2700 PENN	24	1728	1958.4		33.9			
	7000 SAOP	2	1738	1740	5	7.8	3.3		
	9400 HUAN	23	1808.4	2012.9	212.7	43.2	22.5		
	10700 PENN	20	1815.9	1958.7	158	28.3	12.6		
	2800 OTTA	24	1815		10	3.6			
	1415 SGMR	1	1839.8	1840.6	1.5	5.2	2.6		
	606 SGMR	4	1839.6	1841.3	4	14.3	4.0		
	245 SGMR	48	1839.2	1841.1	5	560.0	225.0		
	408 SANM	45	1840	1842.4	3	53.0	6.5		
	2700 PENN	3	1840.9	1841.2	1.3	21.1	3.1		
	2695 SGMR	4	1840.8	1841.2	1.3	15.0	6.0		
	4995 SGMR	1	1841	1841.1	.4	6.6	3.3		
	2800 OTTA	4	1841	1841.1	1	15.0	7.0		
	1420 BOUL	3	1841.5	1842	1			1	
	2800 OTTA	21	1850	2025	240 D	24.0			
	10700 PENN	3	1903.6	1904.7	5.8	48.8	10.4		
	9400 HUAN	3	1903.6	1904.4	4.6	56.4	18.8		
	15400 SGMR	3	1904	1904.7	2.9	22.1	8.2		
	8800 SGMR	3	1904.1	1904.6	2.7	44.0	17.0		
	4995 SGMR	1	1904.3	1904.6	2.1	4.4	2.2		
	9400 HUAN	4	1912.2	1914.5	11.5	56.4	19.3		
	4995 SGMR	3	1912.8	1914.6	13.9	44.0	17.0		
	2800 OTTA	1	1912	1914.5	6	5.4	2.7		
	10700 PENN	3	1913.8	1914.7	7.9	41.3	13.3		
	8800 SGMR	3	1913.3	1914.6	11.9	49.5	18.2		
	15400 SGMR	3	1914.3	1915	11	10.7	6.0		
	2700 PENN	1	1914.5	1914.8	3.8	5.2	2.0		
	2695 SGMR	20	1914	1915	12.1	6.0	3.0		
	4995 BOUL	3	1926	1926.5	3.5			1	
	2800 OTTA	1	1932	1935	9	3.2	1.6		
	2800 OTTA	21	1945	1958	25	9.8	5.0		
	2700 PENN	3	1948.5	1951.6	7.2	12.7	3.7		
	2800 OTTA	2	1949	1952	6	8.0	4.0		
	9400 HUAN	4	2017.5	2018.9	3	347.8	149.2		
	8800 SGMR	4	2017.8	2019.2	11.9	275.0	100.0		
	4995 SGMR	4	2017.7	2019.2	12.9	92.0	25.0		
	15400 SGMR	3	2018.4	2019.2	6.8	165.0	60.0		
	10700 PENN	3	2018	2019.4	16.1	281.0	26.4		
	9400 HUAN	29	2020.5	2020.5	37	75.2	35.1		
	4995 BOUL	3	2020.5	2021.5	2.5			1	
	2695 PENT	20	2109	2109.5	18	2.8	1.4		
	2695 PENT	2	2132	2138	8	5.2	1.4		
	9400 TYKW	5	2250	2300.6	140	30.0	8.0		
	3750 TYKW	5	2250	2340	130	7.0	4.0		
	8800 MANI	3	2259.1	2300.5	3.6	22.1	7.4		
	208 VORO	44	2300	0158	240	200.0			
	9400 TYKW	5	2342	2342.1	.5	10.0	3.0		
15	9400 TYKW	5	0007	0012.1	11	24.0	5.0		
	9400 TYKW	5	0034	0035.7	8	13.0	4.0		
	9400 TYKW	5	0124	0125.6	6	20.0	6.0		
	8800 MANI	4	0202.2	0203.4	5	29.9	11.2		

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15	9400 TYKW	45	0203	0204.5	5	20.0	5.0		
	3750 TYKW	5	0220	0300	80	4.0	2.0		
	9400 TYKW	45	0245	0249.4	20	28.0	10.0		
	606 MANI	40	0309.9	0310.5	.7	33.5	4.3		
	9400 TYKW	5	0310	0317.5	30	15.0	7.0		
	9400 TYKW	5	0352	0352.3	1.5	11.0	5.0		
	3750 TYKW	5	0352	0352.3	2	3.0	1.0		
	9400 TYKW	5	0416	0419	7	9.0	4.0		
	8800 MANI	4	0417.4	0418.3	4.1	7.5	3.7		
	4995 MANI	4	0417.4	0418.3	4.1	8.0	2.7		
	3750 TYKW	5	0417	0418.3	4	3.0	1.0		
	9400 TYKW	5	0435	0440.1	10	12.0	6.0		
	9400 TYKW	5	0446	0448	10	40.0	12.0		
	8800 MANI	4	0446.9	0447.5	3.9	30.0	7.5		
	9700 IRKU	3	0447	0448	5	45.0	15.0		
	606 MANI	4	0504.5	0507.6	3.3	130.0	3.2		
	9100 GORK	21	0515.7	0533.1	32.5	62.0	41.0		
	9400 TYKW	45	0516	0520.4	60	87.0	20.0		
	8800 MANI	4	0516.2	0539	22.8	82.0	37.4		
	3750 TYKW	5	0516	0523	50	22.0	8.0		
	9700 IRKU	45	0518	0520.4	5	70.0	31.0		
	9700 IRKU		0518	0521.4		61.0			
	9100 GORK	45	0519.5	0520.5	6.1	100.0	47.0		
	9100 GORK		0519.5	0521.5		103.0			
	4995 MANI	4	0522	0539	22.8	74.0	26.5		
	200 GORK	44	0525 E		405 D		50.0		
	100 GORK	44	0526 E		94		40.0		
	260 ONDR	44	0700		450	105.0D			
	206 IZMI	44	0700		300	64.0			
	204 KIEV	44	0700 E	0730 U	390 D	217.0	130.0		
	100 GORK	44	0700		300		1000.0		
	240 KIEL	44	0856 E	0856		130.0	10.0		
	245 SGMR	44	1139 E		577 D				
	100 GORK	42	0557.5	0557.8	38.8	600.0			
	100 GORK		0557.5	0615		2500.0			
	100 GORK		0557.5	0625.4		600.0			
	100 GORK		0557.5	0635.8		2000.0			
	3750 TYKW	45	0620	0648	50 D	83.0	30.0		
	2950 GORK	23	0621.5	0648 U	339 D	127.0	45.0		
	2000 TYKW	45	0624	0655.7	70 D	245.0	55.0		
	1000 TYKW	45	0624	0643.2	55 D	110.0	15.0		
	650 GORK	40	0626.6	0628	4.8	8.5			
	950 GORK	41	0627.2	0627.8	4.9	6.5			
	950 GORK		0627.2	0631.4		5.5			
	9100 GORK	1	0628.1	0628.9	1.6	16.0	7.0		
	1420 CRON	40	0628.5	0656.5	67.5			2	
	1415 MANI	46	0628.2	0655.7	117.8D	540.0	245.0U		
	606 MANI	46	0628.2	0801.7	151.8D	530.0	260.0U		
	2695 CRON	40	0629	0643.5	68			1	
	2695 CRON	40	0629	0649	68			1	
	8800 MANI	23	0635.5	0647.6	144.5D	108.0	52.0U		
	4995 MANI	23	0635.5	0647.5	144.5D	147.0	66.0U		
	2695 MANI	23	0635.6	0809.7	144.4D	114.0	57.0U		
	9400 TYKW	45	0636	0648	25 D	50.0	30.0		
	9100 GORK	21	0636.2	0809.2	276.9	205.0	70.0		
	650 GORK	23	0641.7	0730	162	22.0			
	650 GORK	46	0641.7	0643.2	45	95.0			
	650 GORK		0641.7	0655.5		90.0			
	500 HIRA	45	0641.5	0642.8	44 D	380.0	50.0U		
	500 HIRA		0641.5	0646.7		100.0			
	500 HIRA		0641.5	0654.5		310.0			
	500 HIRA		0641.5	0703.6		120.0			
	500 HIRA		0641.5	0718.2		60.0			
	9700 IRKU	3	0642	0646	7	32.0	15.0		
	950 GORK	23	0642.5	0719.4	133.2	75.0			
	950 GORK	3	0642.8	0643.2	.9	71.0			
	200 GORK	6	0643	0643.1	.5	100.0	50.0		
	9700 IRKU	1	0654	0656	3	18.0	7.0		
	950 GORK	4	0654.5	0655.6	2.6	56.0			
	200 HIRA	45	0658		25 D		70.0U		
	9500 BERL	46	0700 E	0754	275 U	670.0U			
	1490 BERL	46	0700 E	0754.5	340 U	101.0	34.0		
	600 UCCL	47	0700 E	0802.5	140 D				
	536 ONDR	45	0720	0724.5	10	90.0			
	1415 MANI	30	0726	0726	94 D	40.9	20.5U		
	9100 GORK	46	0740.8	0743.5	24.9	363.0			
	9100 GORK		0740.8	0754.1		1426.0			
	9100 GORK		0740.8	0755.9		973.0			
	10500 BERN	45	0742.7	0743.7	20	84.0			
	10500 BERN		0742.7	0750 U		46.0			
	10500 BERN		0742.7	0752 U		130.0D			
	8800 MANI	46	0742.7	0754.1	33.3	790.0	355.0		
	2950 GORK	45	0742.8	0754.2	19.3	750.0			
	2950 GORK		0742.8	0755.8		500.0			
	4995 CRON	45	0743.5	0754.5	38			2	
	4995 MANI	46	0743.1	0754	33.4	1200.0	480.0		
	2695 CRON	41	0743.5	0754.5	55			2	
	2695 MANI	4	0748.7	0754.1	37.6	490.0	205.0		
	4995 CANR	45	0749	0755	32			2	
	536 ONDR	45	0750	0801.5	70	250.0D			

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			UT	UT	MINUTES	PEAK	MEAN		
15	2695 CANR	41	0751	0754.5	55.5			2	
	1415 MANI	4	0751.8	0754.4	68.2D	102.0	32.7U		
	950 GORK	46	0751.3	0755.7	12.7	139.0			
	950 GORK		0751.3	0756.7		96.0			
	1420 CRON	45	0752	0755	71			2	
	650 GORK	46	0753.6	0757	10	97.0			
	650 GORK		0753.6	0800.4		205.0			
	650 GORK		0753.6	0803.2		240.0			
	1420 KIEL	45	0756 E	0756		150.0	50.0		
	650 GORK		0804.1	0842	80	54.0			
	950 GORK	4	0841.2	0844.6	4.6	130.0	25.0		
	420 KIEL	49	0842 E	0842		400.0	50.0		
	408 SANM	45	1310.3	1310.4	1.1	140.0	22.0		
	600 UCCL	3	1311.8		.2	18.0	9.0		
	15400 SGMR	4	1314.7	1318.7	7.9	30.1	15.0		
	4995 SGMR	1	1314.6	1317.7	6.7	4.1	2.0		
	10500 BERN	3	1315.1	1316.2	9	18.0			
	8800 SGMR	3	1315	1316.6	7.1	19.7	9.6		
	15400 SGMR	3	1418.9	1419.5	9.1	14.2	7.1		
	4995 SGMR	3	1418.3	1419.9	5.3	13.8	6.3		
	2800 OTTA	2	1418	1420	3	2.8	2.6		
	2695 SGMR	1	1418.4	1420.1	4.6	2.5	1.2		
	8800 SGMR	3	1419.3	1420.1	6.5	8.1	4.0		
	9400 HUAN	20	1511.7	1516	13.5	11.3	5.6		
	2800 OTTA	2	1515.5	1516	1	6.4	3.2		
	2700 PENN	45	1515.6	1516	1.4	17.1	3.0		
	1420 BOUL	1	1517	1517.5	1			1	
	9400 HUAN	20	1534	1543.8	21.2	7.5	4.7		
	2800 OTTA	25	1558		35	6.0			
	2800 OTTA	2	1558	1601	7	3.2	1.6		
	2700 PENN	24	1558	1910.7		63.5			
	9400 HUAN	21	1602.3	1618	45.5	9.4	5.3		
	10700 PENN	20	1605	1612.3	15.3	9.6	5.2		
	10700 PENN	24	1620.7	1750.6		22.6			
	9400 HUAN	4	1629.6	1630.7	7.3	15.0	5.9		
	9400 HUAN		1629.6	1631.1		16.9			
	10700 PENN	3	1630	1631.2	4.3	13.4	3.2		
	8800 SGMR	4	1630.5	1631.1	5.6	11.0	5.5		
	4995 SGMR	2	1630.3	1630.7	6.1	7.1	3.8		
	2800 OTTA	2	1630	1630.5	1.5	7.4	3.0		
	2700 PENN	1	1630.4	1630.7	1.5	7.3	2.1		
	2695 SGMR	4	1630.2	1630.7	2.8	8.0	3.0		
	1415 SGMR	3	1630.4	1630.5	1.1	25.6	4.0		
	606 SGMR	2	1630.3	1630.3	.3	6.2	2.0		
	9400 HUAN	20	1654.9	1710.2	24.4	9.4	4.5		
	9400 HUAN	28	1720.5	1752.9	32.4	16.9	9.1		
	2800 OTTA	20	1735	1745	20	3.0	1.5		
	9400 HUAN	46	1752.9	1803.2	22.6	223.7	101.9		
	9400 HUAN		1752.9	1814.6		289.5			
	10700 PENN	28	1753.2	1753.6	4.8	41.5	19.0		
	7000 SAOP	21	1753	1803.2	57.9	160.0			
	7000 SAOP	3	1753	1753.5	1.4	26.7	13.3		
	7000 SAOP	20	1753		57.9	71.1			
	2800 OTTA	21	1755	1815	280	37.0	18.0		
	7000 SAOP	3	1757.8	1759.2	2.2	22.2	8.9		
	15400 SGMR	23	1758.9	1819.5	134	120.0	50.0		
	10700 PENN		1758	1803.2	61.5	136.0	65.5		
	8800 SGMR	23	1758.1	1818.5	117.1	105.0	45.0		
	4995 SGMR	23	1758.3	1818.4	140.2	96.0	40.0		
	2700 PENN		1759	1804	69.7	59.0	21.4		
	2695 SGMR	23	1759.7	1817.4	144.2	32.6	15.0		
	7000 SAOP	3	1800	1803.2	5.9	160.0	84.5		
	15400 SGMR	4	1802.3	1803.1	3.2	65.0	16.0		
	8800 SGMR	4	1802.4	1803.1	5.3	100.0	20.0		
	4995 SGMR	4	1802.3	1802.7	5.6	130.0	26.0		
	2800 OTTA	3	1802	1804	7	48.0	19.0		
	2695 SGMR	4	1802.3	1803.7	5.3	41.4	8.0		
	1415 SGMR	1	1802.5	1803	2.9	2.8	1.5		
	606 SGMR	46	1802.4	1802.7	3.2	53.3	8.5		
	1420 BOUL	45	1803.5	1805	16			2	
	7000 SAOP	3	1813.5	1814.6	2.4	133.4	48.9		
	2695 SGMR	3	1813.9	1814.9	4.1	15.4	3.0		
	15400 SGMR	4	1814.1	1814.6	2.3	91.0	18.0		
	8800 SGMR	4	1814.1	1814.6	2.7	140.0	35.0		
	4995 SGMR	4	1814	1814.5	2.2	75.0	19.0		
	2800 OTTA	3	1814	1815	2.5	17.0	8.5		
	9400 HUAN	30	1815.5	1815.5	213	148.5	48.4		
	4995 BOUL	3	1816	1817	2.5			1	
	9400 HUAN	20	1930	1933.3	13.7	13.2	5.3		
	208 VORO	44	2300	0149	240	290.0			
16	3750 TYKW	45	0024	0030.7	14	68.0	22.0		
	1415 MANI	4	0024.7	0027.7	13.6	14.9	7.5		
	9400 TYKW	5	0025	0030.5	9	60.0	18.0		
	2695 CRON	3	0026.5	0031	11.5			1	
	2695 MANI	4	0026.2	0030.7	12.1	59.0	23.4		
	2000 TYKW	5	0026	0030.8	12	49.0	17.0		
	8800 MANI	4	0027	0030.5	14	62.0	14.5		
	4995 MANI	4	0027	0030.7	15	122.0	26.5		
	1000 TYKW	5	0030	0031	6	4.0	2.0		

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16	9400 TYKW	29	0034		10	22.0	21.0		
	3750 TYKW	29	0038		7	13.0	12.0		
	2000 TYKW	29	0038		10	11.0	11.0		
	9400 TYKW	47	0044	0050.7	21	6900.0	910.0		
	8800 MANI	47	0045	0050.7	37	6200.0	2400.0		
	4995 MANI	47	0045	0051.5	37	5600.0	2100.0		
	3750 TYKW	47	0045	0051.6	19	2860.0	560.0		
	2695 MANI	47	0045	0051.7	37	2400.0	750.0		
	2695 CRON	45	0046	0053	32.5			3	
	9700 IRKU	47	0047 E	0051	45	7900.0	710.0		
	2000 TYKW	5	0048	0052.6	20	1270.0	330.0		
	1415 MANI	47	0049	0052.9	33	510.0	220.0		
	1000 TYKW	5	0049	0053.5	17	180.0	70.0		
	606 MANI	47	0049	0112.5	56	460.0	57.0		
	1420 CRON	45	0050	0053.5	40.5			2	
	4995 CRON	45	0051.5	0046	41			3	
	1000 TYKW	45	0103	0103.2	2.5	47.0	7.0		
	500 HIRA	45	0103	0112.3	23	390.0	35.0		
	3750 TYKW	29	0104		300	105.0	35.0		
	9400 TYKW	29	0105		300	190.0	40.0		
	1000 TYKW	29	0106		300	30.0	5.0		
	208 VORO	27	0107	0140	113	152.0	60.0		
	3750 TYKW	5	0108	0112.6	17	885.0	190.0		
	2000 TYKW	29	0108		300	70.0	15.0		
	1000 TYKW	5	0108	0108.2	.4	38.0	10.0		
	9400 TYKW	5	0110	0112.3	15	1030.0	80.0		
	2000 TYKW	5	0110	0112.6	8	280.0	75.0		
	1000 TYKW	45	0110.5	0112.2	7.5	770.0	135.0		
	2000 TYKW	45	0119	0121.6	3	17.0	8.0		
	1000 TYKW	45	0119.5	0120.2	2.5	32.0	10.0		
	8800 MANI	29	0122	0122	194.7	200.0	67.0		
	4995 MANI	30	0122	0122	233	73.0	19.9		
	2695 MANI	29	0122	0122	194.7	22.5	9.0		
	1415 MANI	29	0122	0122	233	17.6	5.9		
	2000 TYKW	5	0210	0215	12	5.0	2.0		
	4995 MANI	4	0218.8	0219.6	2.2	73.0	33.2		
	3750 TYKW	5	0219	0219.8	5	12.0	4.0		
	9400 TYKW	5	0426.5	0427.2	1.5	5.0	2.0		
	606 MANI	4	0438.5	0438.7	1.8	29.1	11.2		
	9400 TYKW	45	0446	0452.7	20	10.0	4.0		
	9700 IRKU	45	0507.9	0508	2	165.0			
	9700 IRKU		0507.9	0508.7		268.0D			
	9400 TYKW	5	0530	0537.7	30	24.0	7.0		
	100 GORK	44	0533 E		387 D		800.0		
	200 GORK	44	0535 E		385 D		100.0		
	204 KIEV	44	0600 E		420 D	184.0	66.0		
	260 ONDR	44	0700	0705.5	390	130.0D			
	206 IZMI	44	0700		300	90.0			
	240 KIEL	44	1100 E	1100		400.0	20.0		
	245 SGMR	44	1141 E		564 D				
	9100 GORK	1	0537.1	0537.5	1.2	24.0	12.0		
	4995 CRON	3	0627.5	0030.5	9.5			1	
	234 POTS	45	0655.4	0655.4	.1	175.0	40.0		
	234 POTS	45	0713.7	0714	1.5	150.0	5.0		
	2950 GORK	20	0715.9	0745	84	16.9	8.4		
	9100 GORK	20	0741.6	0744.8	47.4	32.0	7.3		
	3100 CRIM	24	0815			27.0			
	9500 BERL	20	0841	0853.3	19	15.0	5.0		
	9100 GORK	1	0846.3	0847.5	5.3	15.0	7.1		
	9500 BERL	21	0915	0930	146	57.0	25.0		
	2950 GORK	21	0918.3	1018	153	41.0			
	1490 BERL	21	0918	1048	162 U	4.6	1.7		
	9100 GORK	21	0921.3	0957.7	107.7	148.0	81.0		
	9500 BERL	4	0941	0947.7	59.5	230.0	50.0		
	2950 GORK	45	0944.3	0948	10	137.0	48.0		
	2950 GORK		0944.3	0950		86.0			
	19000 SLOU	45	0945 U	0949	7 U	140.0U			
	4995 CANR	45	0945	0950.5	9.5			2	
	10500 BERN		0946.6	0950.8		80.0			
	10500 BERN	3	0946.6	0947.9	7	160.0			
	9400 ONDR	45	0946	0948	8				
	9100 GORK	3	0946.5	0948	29.7	510.0			
	4995 CRON	45	0946	0948	13			2	
	3100 CRIM	3	0946	0949	10	65.0	22.0		
	1490 BERL	46	0946.4	0947.8	9.1	11.7	3.5		
	1420 CANR	41	0946	0948.5	5.5			1	
	1420 CANR	41	0946	0950.5	5.5			1	
	2695 CRON	45	0947	0948.5	7			1	
	2695 CANR	45	0947	0949	7			1	
	950 GORK	20	0947	0949.2	9.6	12.5	6.2		
	650 GORK	1	0947.9	0948.4	.4	1.0	0.5		
	600 UCCL	1	0948.8		.4	5.0	3.0		
	3100 CRIM	29	0955	0955	120	8.0	3.0		
	10500 BERN	3	1012.7	1012.9	4	27.0			
	10500 BERN		1012.7	1014.5		11.0			
	9100 GORK	3	1012.8	1013.1	1	49.0	16.0		
	600 UCCL	1	1031.8		.3	6.0	3.0		
	930 BORD	5	1034	1034.6	1	35.0	1.0		
	600 UCCL	1	1035	1035.8	.9	10.0	4.0		
	600 UCCL	1	1036.7	1037	.6	6.0	4.0		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	REMARKS
16	930 BORD	5	1101	1101.9	1	27.0	1.0		
	9400 HUAN	22	1153.2	1155.8	7.6	9.4	3.7		
	9400 HUAN	23	1207.5	1320.3	311.5	112.4	42.8		
	7000 SAOP	4	1208.2	1228.9	35.8	168.4			
	9500 BERL	46	1211.3	1228.7	136	136.0			
	9500 BERL	21	1211.3	1318.7	136	97.0			
	3100 CRIM	3	1218	1229	15	19.0	6.0		
	930 BORD	5	1220	1220.2	1	8.0	1.0		
	10500 BERN	4	1221	1223.4	21	19.0			
	10500 BERN		1221	1225.4		38.0			
	10500 BERN		1221	1228.7		66.0			
	10500 BERN		1221	1240.9		19.0			
	9400 HUAN	45	1221	1228.7	24.7	97.4	41.8		
	1490 BERL	20	1223	1241	97	3.4	1.6		
	3100 CRIM	24	1229						
	600 UCCL	3	1231.8		.3	12.0	6.0		
	7000 SAOP	4	1317.2	1320	5	14.9	9.2		
	10700 PENN	3	1320 E	1337.6		176.0			
	2700 PENN	3	1320 E	1320.9		44.0			
	7000 SAOP	29	1322.2		9.2				
	930 BORD	45	1329	1329.4	1	25.0	2.0		
	2800 OTTA	26	1330		150	31.0			
	7000 SAOP	3	1334.6	1337.7	4.4	154.6	51.5		
	15400 SGMR	3	1335.5	1337.5	15.6	120.0	27.0		
	9500 BERL	3	1335	1336.8	15 U	173.0			
	9400 HUAN	28	1335.1	1336.1	1	13.1	5.6		
	9400 ONDR	45	1335	1337.5	5				
	8800 SGMR	3	1335	1337.6	12.5	185.0	37.5		
	10500 BERN		1336.1	1346.5		15.0			
	10500 BERN	3	1336.1	1337.4	11	140.0			
	9400 HUAN	3	1336.1	1337.3	2.8	213.6	95.6		
	4995 SGMR	3	1336	1337.5	5.1	19.2	6.5		
	4995 CANR	3	1337	1338.5	3			1	
	9400 HUAN	29	1338.9	1338.9	10	48.7	23.2		
	10500 BERN	3	1402.9	1403.2	2	29.0			
	9400 HUAN	3	1402.8	1403.4	1.5	43.1	16.9		
	18 BOUL	41	1440	1447	10			1	
	9400 HUAN	1	1502.3	1502.7	1.1	7.5	3.7		
	930 BORD	5	1549	1549.5	1	88.0	3.0		
	2800 OTTA	26	1655		20	4.6			
	10700 PENN	20	1753.9	1755	35.3	14.2	5.3		
	9400 HUAN		1755.8E		28.8U				
	2700 PENN	1	1825.5	1828.2	5.8	3.9	2.5		
	960 PENN	45	1827.9	1829.6	2.1	8.6	1.4		
	9400 HUAN	23	1850.3	2040	219.7U	37.5	18.9		
	960 PENN	24	1911	1940.4		3.9			
	18 MCMA	42	1912	1938	47			3	
	2800 OTTA	24	1915		15	7.0			
	2700 PENN	24	1915.7	1934.6		10.8			
	2800 OTTA	20	1925	1940	35	4.8	2.4		
	10700 PENN	3	1956.7	1958.8	9.9	16.3	5.5		
	9400 HUAN	22	1956.7	1959.8	11.6	13.1	6.4		
	2800 OTTA	1	2029	2031	6	3.6	1.8		
	9400 HUAN	4	2030	2030.8	4.3	26.2	11.2		
	9400 HUAN	20	2043.4	2044.8	5.1	11.2	6.1		
	9400 HUAN	22	2117.7	2122.8	15	24.4	10.6		
	9400 HUAN	1	2132.9	2133.1	.7	7.5	4.4		
	9400 HUAN	22	2139.5	2146.2	25.5	30.0	13.9		
	9400 HUAN	45	2211.9	2217.8	7.9	65.6	35.0		
	9400 TYKW	5	2254.7	2254.9	.5	24.0	8.0		
	3750 TYKW	5	2254.7	2254.9	.5	10.0	3.0		
	2000 TYKW	5	2254.5	2255	1	5.0	2.0		
	208 VORO	44	2300	0115.5	240	272.0			
	9400 TYKW	5	2305	2305.5	5	40.0	12.0		
	8800 MANI	4	2305	2305.4	1.3	36.8	18.4		
	4995 MANI	4	2305	2305.4	1.3	8.6	2.9		
	3750 TYKW	5	2305	2305.5	4	20.0	4.0		
	2695 PENT	3	2305	2305.7	1.5	12.0	6.0		
	2695 MANI	4	2305	2305.5	1.3	9.4	4.7		
	2000 TYKW	5	2305	2305.5	1	6.0	3.0		
	1415 MANI	3	2305	2305.5	1.3	4.7	1.6		
	3750 TYKW	5	2310	2311.5	3	5.0	2.0		
	9400 TYKW	5	2311	2311.4	2	10.0	3.0		
17	3750 TYKW	5	0004	0006.2	6	25.0	9.0		
	8800 MANI	4	0005.8	0006.3	12.5	18.4	7.4		
	4995 MANI	4	0005.5	0006.3	12.8	34.3	14.3		
	2695 MANI	22	0005.8	0006.3	12.5	4.7	2.4		
	9400 TYKW	5	0006	0006.2	10	16.0	5.0		
	3750 TYKW	29	0010		30	10.0	5.0		
	9400 TYKW	32	0040	0220	150	−24.0	−12.0		
	3750 TYKW	32	0040	0215	150	−16.0	− 8.0		
	2000 TYKW	32	0040	0210	150	− 7.0	− 4.0		
	9400 TYKW	45	0121	0125	7	335.0	90.0		
	4995 MANI	46	0121.2	0125	17.5	166.0	57.0		
	3750 TYKW	45	0121	0125	7	95.0	20.0		
	8800 MANI	46	0122	0125	16.7	188.0	74.0		
	4995 CRON	3	0122	0125	9.5			2	
	2695 MANI	20	0122	0125	16.7	4.7	2.4		
	2000 TYKW	5	0123	0130	25	10.0	5.0		

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			UT	UT	MINUTES	PEAK	MEAN		
17	9400 TYKW	29	0128		25	35.0	17.0		
	3750 TYKW	29	0128		25	18.0	8.0		
	9400 TYKW	5	0228	0234.8	15	26.0	8.0		
	8800 MANI	22	0232.7	0234.1	13.3	29.4	11.0		
	4995 MANI	20	0232.7	0238.5	13.3	5.7	2.9		
	9400 TYKW	5	0247	0253.5	15	10.0	5.0		
	9400 TYKW	5	0314	0317	25	14.0	6.0		
	3750 TYKW	5	0314	0318	35	6.0	4.0		
	3750 TYKW	5	0341	0341.5	2	5.0	2.0		
	8800 MANI	4	0420.5	0429.2	17	370.0	110.0		
	4995 MANI	4	0420.5	0429.2	17	240.0	72.0		
	9700 IRKU	3	0426.8	0429.3	7	505.0			
	9400 TYKW	5	0426	0429.3	11	420.0	80.0		
	3750 TYKW	5	0427	0429.3	10	138.0	43.0		
	2695 MANI	4	0427.5	0429.2	10	82.0	23.5		
	2000 TYKW	5	0427.8	0429.3	12	49.0	9.0		
	1415 MANI	1	0427.5	0429.2	5	4.7	1.6		
	4995 CRON	3	0428	0429.5	7.5			2	
	2695 CRON	1	0428.5	0430	5			1	
	9400 TYKW	29	0437		25	22.0	10.0		
	8800 MANI	29	0437.5	0445.5	21	25.8	9.2		
	4995 MANI	29	0437.5	0437.5	21	34.3	11.4		
	3750 TYKW	29	0437		25	9.0	4.0		
	2695 MANI	29	0437.5	0437.5	7	9.4	4.7		
	9400 TYKW	5	0514	0519	20	9.0	5.0		
	3750 TYKW	5	0514	0520	20	3.0	2.0		
	200 GORK	44	0530 E		390 D		80.0		
	100 GORK	44	0536 E		384 D		3000.0		
	536 ONDR	44	0700	0913	450	90.0			
	260 ONDR	44	0700	0948.5	450	70.0D			
	221 ABST	41	0700	1004	240	38.0			
	206 IZMI	44	0700		300	75.0			
	204 KIEV	44	0700 E		360 D	381.0	140.0		
	240 KIEL	44	0842 E	0842		8000.0	40.0		
	245 SGMR	44	1142 E		556 D				
	9400 TYKW	5	0543	0544.8	3	76.0	30.0		
	9700 IRKU	3	0544	0544.7	2	73.0	39.0		
	9100 GORK	4	0544.4	0545.2	1.9	97.0	37.0		
	8800 MANI	4	0544.2	0544.7	15.8	36.8	11.0		
	4995 MANI	3	0544.2	0544.7	15.8	25.7	8.6		
	3750 TYKW	5	0544	0549	40	10.0	5.0		
	9400 TYKW	29	0546		60	37.0	15.0		
	200 GORK	6	0548	0548.7	1.6	3000.0	1500.0		
	100 GORK	6	0626.2	0627 U	4.1	10000.0D			
	9700 IRKU	3	0658.3	0659.6	2	31.0			
	9500 BERL	46	0700 E	0734.5	268 U	1580.0U			
	206 IZMI	6	0705.3	0705.3	.5	535.0	140.0		
	9100 GORK	21	0729.4		86.8				
	10500 BERN		0732	0736.9		530.0			
	10500 BERN	45	0732	0734.3	28	1300.0			
	10500 BERN		0732	0736.1		750.0			
	10500 BERN		0732	0744.5		440.0			
	10500 BERN		0732	0747.9		250.0			
	10500 BERN		0732	0754.5		160.0			
	10500 BERN		0732	0738.9		350.0			
	10500 BERN		0732	0740.7		360.0			
	9100 GORK	46	0732.6	0735 U	17.9	270.0D	506.0U		
	9100 GORK		0732.6	0737.2		1460.0			
	9100 GORK		0732.6	0744.8		1165.0			
	9100 GORK		0732.6	0748.9		600.0			
	8800 MANI	46	0732	0735.8	58	1280.0	380.0		
	4995 MANI	46	0732	0735.8	58	990.0	295.0		
	3100 CRIM	47	0732	0736	170	390.0	130.0		
	2950 GORK	46	0732.5	0733.7	63	320.0	150.0		
	2950 GORK		0732.5	0748		260.0			
	2695 MANI	4	0732	0736.1	58	75.0	21.4		
	4995 CRON	40	0733	0735	30.5			2	
	2695 CRON	45	0733.5	0736.5	29.5			2	
	9700 IRKU	45	0735 U	0744.7U	28 U	670.0U			
	1415 MANI	22	0735.8	0744.6	15	45.0	14.0		
	606 MANI	22	0735.8	0748.8	34.2	11.9	4.3		
	650 GORK	22	0738.8	0747.9	19.4	10.7	3.7		
	1420 CRON	4	0739	0745	18			1	
	950 GORK	22	0742	0749.5	15	19.0	6.5		
	1490 BERL	46	0748.7E	0748.7		12.0			
	9400 ONDR	45	0750.5	0753.5	6				
	2950 GORK	29	0754	0754	42	75.0	20.0		
	8800 MANI	29	0800	0800	60 D	99.0	37.9U		
	4995 MANI	29	0800	0800	60 D	83.0	29.5U		
	2695 MANI	29	0800	0800	60 D	32.1	12.8U		
	10500 BERN	3	0944.4	0944.9	4.5	19.0			
	9100 GORK	3	0944.7	0945.2	1.1	44.0	20.0		
	9100 GORK	29	0945.8	1013	44.2	41.0	15.0		
	2950 GORK	20	0948	1013	66	15.0			
	9500 BERL	22	1007	1012.3	7.7	9.1	3.5		
	1490 BERL	22	1007.3	1012.5	6.7	2.2	0.9		
	3100 CRIM	47	1020	1020		23.0			
	234 POTS	45	1027.9	1028.1	.5	350.0	35.0		
	100 GORK	48	1107 E	1118 U	16.6	10000.0D			
	3100 CRIM	28	1120	1135	28	14.0	5.0		

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17	9500 BERL	20	1132	1139	14	11.0	3.9		
	7000 SAOP	20	1132.1		13.5	14.6			
	9500 BERL	22	1146.5	1153.7	23.5	49.0	15.0		
	9400 HUAN	4	1147.2	1153.7	25.5	56.2	20.6		
	9400 SLOU	4	1147.5	1153	23	69.0			
	10500 BERN	3	1148.2	1153.8	12	30.0			
	7000 SAOP	3	1148.1	1153.5	21.9	78.6	30.3		
	3100 CRIM	3	1148	1154	20	80.0	27.0		
	4995 CANR	3	1149.5	1154	8			1	
	1490 BERL	22	1152.5	1153.5	8.5	5.2	2.0		
	9400 HUAN	21	1247.5	1258.8	18.2	9.4	4.2		
	9400 HUAN	3	1256.8	1257.6	1.5	18.7	10.0		
	15400 SGMR	3	1257.3	1257.7	1.1	25.6	10.2		
	10500 BERN	3	1257.4	1257.5	2	15.0			
	234 POTS	41	1336.1	1336.2	2.1	500.0	15.0		
	2800 OTTA	21	1410	1530	175	11.0	6.0		
	2800 OTTA	21	1410	1500	65	10.4			
	2800 OTTA	21	1515	1530	110	11.0			
	10700 PENN	3	1415.4	1418.8	15.9	32.0	7.4		
	9400 HUAN	23	1415.3	1504.8	120.9	16.9	7.7		
	10500 BERN	3	1418	1418.7	3	19.0			
	10700 PENN	20	1434.3	1449.7	56.7	20.0	5.3		
	2700 PENN	40	1438.7		62.3				
	9400 HUAN	1	1449.3	1449.5	.8	9.4	6.3		
	10700 PENN	45	1533.6	1536.3	3.8	36.1	22.9		
	9400 HUAN	46	1533.9	1546.8	16.1	95.6	27.2		
	7000 SAOP	3	1533.6		7.3	16.1	9.2		
	15400 SGMR	23	1534.2	1535.9	19.5	20.1	10.0		
	10700 PENN	29	1537.4	1537.4	22.6	20.0	10.0		
	7000 SAOP	45	1544.8	1547.3	3.3	85.0	23.0		
	10700 PENN	45	1545.2	1547	4.7	80.1	13.6		
	4995 CANR	3	1545.5	1547.5	2.5			1	
	2800 OTTA	4	1545	1547	4	28.0	9.0		
	2700 PENN	3	1545	1547		22.1			
	2695 CANR	3	1545.5	1547	4			1	
	15400 SGMR	4	1546.2	1546.9	1.4	36.6	17.5		
	1415 SGMR	1	1546.4	1546.6	1.2	2.2	1.1		
	960 PENN	45	1546.2	1546.7	2.4	11.4	2.7		
	930 BORD	45	1546	1546.6	2	18.0	3.0		
	606 SGMR	4	1546.4	1546.9	1.9	16.1	8.0		
	245 SGMR	6	1546.4	1548.5	10.6	115.0	55.0		
	4995 BOUL	3	1547.5	1549.5	3.5			1	
	9400 HUAN	20	1634.8	1635.9	3.2	7.5	3.7		
	10700 PENN	1	1635.6	1636	5.1	6.0	1.4		
	1420 BOUL	3	1646.5	1647.5	3.5			1	
	9400 HUAN	28	1751.2	1756.2	5	18.7	9.4		
	10700 PENN	45	1753.1	1757.7	6.6	175.0	50.5		
	2700 PENN	3	1753.3	1757.9		68.7			
	2800 OTTA	3	1754	1758	6	78.0	38.0		
	7000 SAOP	3	1755.3	1759.8	4	217.2	77.0		
	15400 SGMR	4	1756	1757.7	3.3	110.0	48.8		
	9400 HUAN	4	1756.2	1757.6	3.1	191.1	111.8		
	1420 BOUL	3	1757.5	1759	5			2	
	4995 BOUL	3	1758	1800.5	6.5			1	
	15400 SGMR	29	1759.3	1759.3	103.7	36.6	18.3		
	10700 PENN	29	1759.7	1759.7	60.2	76.5	22.6		
	9400 HUAN	30	1759.3	1759.3	117	84.3	29.2		
	7000 SAOP	29	1759.8		33				
	2800 OTTA	29	1800		120	29.0	13.0		
	1420 BOUL	40	1809	1812	7			2	
	9400 HUAN	20	1830.3	1834.9	10	9.4	4.2		
	9400 HUAN	3	1906	1909.3	7.8	18.7	6.6		
	10700 PENN	1	1908.3	1909.5	2	8.1	2.5		
	2700 PENN	1	1908.1	1909.6	4.6	4.1	0.9		
	10700 PENN	40	1915.5		60.7				
	9400 HUAN	4	1936.7	1939.2	11.7	15.0	5.2		
	9400 HUAN	22	2004.7E	2010.3	12.7U	20.6	14.1		
	2800 OTTA	24	2005		20	6.8			
	2700 PENN	24	2007.4	2046		11.4			
	10700 PENN	3	2017.8	2020.8	16.3	24.9	9.1		
	9400 HUAN	3	2017.8	2020.6	6	30.0	15.0		
	9400 HUÁN	23	2025.3	2029.5	28.1	28.1	14.1		
	10700 PENN	3	2034.9	2037.9	6	39.4	8.2		
	2700 PENN		2034.8	2038	6.5	77.8	13.0		
	2800 OTTA	4	2035	2038	7	71.0	12.0		
	1420 BOUL	4	2035.5	2038.5	4			2	
	9400 HUAN	4	2036.3	2037.8	2.1	45.0	23.7		
	2695 BOUL	3	2036	2039	5.5			2	
	1415 SGMR	3	2036	2037.9	2.7	21.3	10.5		
	960 PENN	45	2036.5	2038.2	3.9	27.4	8.6		
	606 SGMR	4	2036	2037.8	3.3	46.9	23.0		
	4995 BOUL	3	2038.5	2040	3.5			1	
	9400 HUAN	20	2103.8	2106.8	13.1	7.5	3.7		
	9400 HUAN	3	2137.9	2138.6	1.3	114.3	42.6		
	2695 PENT	3	2138	2138.5	4	136.0	45.0		
	2695 BOUL	3	2139	2140	6.5			2	
	1420 BOUL	29	2139	2139.5	4			2	
	4995 BOUL	3	2140	2140.5	3.5			1	
	9400 HUAN	29	2139.2	2139.2	9.7	20.6	8.4		
	2695 PENT	29	2142		27	12.0	4.0		

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NOV. 1970	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 TYKW	5	2240	2245.7	100	55.0	18.0		
	3750 TYKW	5	2240	2255	110	17.0	8.0		
	208 VORO	44	2300	0123	300	320.0			
	208 VORO	27	2350	0214	250	194.0	64.0		
18	9400 TYKW	5	0022.5	0023	1	6.0	2.0		
	9400 TYKW	5	0037	0037.5	1	8.0	3.0		
	9400 TYKW	5	0047.5	0048	1	54.0	12.0		
	3750 TYKW	45	0100	0156.4	170	115.0	40.0		
	2000 TYKW	5	0100	0220	160	38.0	18.0		
	9400 TYKW	5	0111	0113.5	6	6.0	2.0		
	9400 TYKW	45	0119	0124	13	16.0	5.0		
	3750 TYKW	45	0120	0124	10	14.0	4.0		
	2000 TYKW	45	0120	0124	7	14.0	4.0		
	9400 TYKW	45	0132	0156.2	140	385.0	120.0		
	8800 MANI	23	0137.5	0225.2	93.5	88.0	44.2		
	4995 MANI	23	0137.5	0223	158.7	123.0	57.0		
	2695 MANI	22	0137.5	0229	93.7	43.8	21.9		
	1415 MANI	22	0137.5	0228.8	93.7	17.1	7.8		
	1000 TYKW	5	0145	0220	120	7.0	3.0		
	8800 MANI	4	0153	0156.4	22.5	199.0	92.0		
	4995 MANI	4	0153	0156.4	22.5	114.0	42.9		
	1000 TYKW	5	0243	0243.2	.5	5.0	2.0		
	9400 TYKW	5	0313.5	0314	1	12.0	6.0		
	3750 TYKW	5	0313.7	0314	1	16.0	8.0		
	2695 MANI	3	0313.6	0313.8	2.4	13.8	2.7		
	2000 TYKW	5	0313.7	0314	4	18.0	5.0		
	1415 MANI	3	0313.6	0313.8	2.4	7.8	1.6		
	1000 TYKW	5	0313.7	0314	2	6.0	2.0		
	606 MANI	40	0313.4	0313.8	2	35.8	9.0		
	200 HIRA	45	0316	0316.5	1	700.0	300.0		
	8800 MANI	4	0401.2	0410.9	11	29.4	7.4		
	2695 MANI	3	0401.2	0401.3	.5	11.0	5.5		
	2000 TYKW	5	0401	0401.3	1.5	6.0	2.0		
	9400 TYKW	5	0409	0410.9	26	72.0	15.0		
	3750 TYKW	5	0410	0526	100	26.0	9.0		
	2000 TYKW	5	0420	0540	140	17.0	8.0		
	2000 TYKW	45	0424.5	0425.2	14	23.0	5.0		
	9400 TYKW	5	0448	0530	60	32.0	16.0		
	1000 TYKW	5	0500	0545	80	8.0	4.0		
	2695 MANI	3	0505.8	0506.2	1.2	8.2	2.7		
	2000 TYKW	5	0505	0506	2	12.0	5.0		
	1415 MANI	3	0505.8	0506.2	5.2	12.4	6.2		
	1000 TYKW	5	0505	0506.1	2	28.0	10.0		
	606 MANI	4	0505.5	0505.6	2.1	33.6	11.2		
	500 HIRA	45	0505.6	0506	1.4	520.0	150.0		
	1000 TYKW	5	0517.5	0518	1	10.0	3.0		
	1000 TYKW	41	0524	0536.7	21	35.0	8.0		
	950 GORK	23	0533 E	0554	105	21.0	8.0		
	650 GORK	23	0533 E	0603 U	114	33.0			
	200 GORK	44	0533		387 D		20.0		
	100 GORK	44	0533 E		384 D		2000.0		
	206 IZMI	44	0700		300	140.0			
	204 KIEV	44	0700 E		300 D	312.0	63.0		
	260 ONDR	44	0710		440	85.0D			
	245 SGMR	44	1143 E		571 D				
	1000 TYKW	41	0547	0558.7	60	76.0	2.0		
	950 GORK	3	0558.6	0558.8	.4	99.0	30.0		
	500 HIRA	41	0601.5	0620.5	25	950.0			
	650 GORK	3	0619.7	0619.8	.4	30.0	15.0		
	650 GORK	4	0620.5	0621	.5	300.0	120.0		
	650 GORK	4	0637.6	0638.1	1	90.0			
	950 GORK	3	0638.6	0638.8	.4	17.0	8.0		
	950 GORK	3	0647.5	0647.6	.3	33.0	15.0		
	1490 BERL	1	0715.1E	0715.1		4.5			
	950 GORK	3	0727.6	0727.8	.6	10.0	5.0		
	1490 BERL	22	0728	0734.7	14.5	7.5	2.3		
	950 GORK	40	0733	0735.2	3.4	13.0	4.0		
	950 GORK	3	0733.2	0733.5	.7	6.6	3.0		
	9500 BERL	3	0734.7E	0734.7		12.0			
	650 GORK	40	0742.6	0743.6	2.2	6.0	3.0		
	650 GORK	22	0754	0800.6U	23	4.0			
	9500 BERL	1	0824.5E	0824.5		6.3			
	1490 BERL	1	0824.5E	0824.5		1.7			
	113 POTS	45	0825.4	0825.5	.6	4500.0	1000.0		
	113 POTS	45	0910.9	0911.2	.7	10000.0	2000.0		
	100 GORK	42	0911	0911.3U	169 D	10000.0D			
	100 GORK		0911	1008.8U		10000.0D			
	100 GORK		0911	1145.9		10000.0			
	9500 BERL	3	0942.7	0943.8	2.8	49.0	20.0		
	19000 SLOU	3	0943.8	0944	1				
	10500 BERN	3	0943	0943.9	2.5	53.0			
	9400 SLOU	3	0943	0943.5	6	72.0			
	9100 GORK	3	0943.1	0943.9	1.7	97.0	42.0		
	9100 GORK	29	0944.8	0945.2	6.7	27.0	9.0		
	10500 BERN	3	0952.7	0953.1		15.0			
	9100 GORK	3	0952.8	0953.2	1.9	33.0	10.0		
	237 TRST	45	0952.6	0952.8	.6	1350.0	600.0		
	234 POTS	5	0952.8	0952.9	.1	900.0	300.0		
	206 IZMI	6	0952.7	0952.8	.9	440.0	250.0		

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18	221 ABST	1	0954	0954	.3	504.0			
	9500 BERL	21	1003.7	1006	16.8	6.6	3.3		
	10500 BERN	3	1008.4	1008.8	1.5	25.0			
	9500 BERL	3	1008.5	1008.8	1.5	26.0	6.6		
	1490 BERL	1	1008.8E	1008.8		1.8			
	930 BORD	45	1008	1008.9	1	36.0	2.0		
	237 TRST	41	1008.6	1008.8	.7	550.0			
	234 POTS	45	1008.8	1008.8	.1	350.0	60.0		
	206 IZMI	6	1008.5	1008.7	.5	420.0	260.0		
	200 GORK	6	1008.5	1008.8	.6	150.0D			
	113 POTS	45	1008.6	1008.8	.6	10000.0	1000.0		
	221 ABST	1	1009.3	1009.3	.4	256.0			
	2950 GORK	21	1023		8.2	11.5	5.7		
	3100 CRIM	40	1024	1025	8	39.0	13.0		
	2950 GORK	3	1024.3	1024.8	1.1	12.0	4.6		
	1490 BERL	1	1024.8E	1024.8		1.8			
	10500 BERN	3	1027.3	1027.5	2	54.0			
	10500 BERN		1027.3	1027.5		55.0			
	9500 BERL	4	1027.3	1027.7	3.2	66.0	11.0		
	9400 SLOU	4	1027.5	1027.5	4	36.0			
	9100 GORK	3	1027.3	1027.6	3.8	115.0	22.0		
	4995 CANR	3	1027	1027.5	1			1	
	650 GORK	40	1027	1029.8	5.8	12.0	3.0		
	1490 BERL	2	1028.1E	1028.1		2.6			
	206 IZMI	6	1028.1	1028.1	.5	330.0	100.0		
	600 UCCL	3	1029.6	1029.8	.9	17.0	5.0		
	113 POTS	45	1054.5	1054.9	1	10000.0	600.0		
	650 GORK	23	1106 E	1118.6	21	7.4	3.5		
	600 UCCL	20	1109	1124	20	36.0	12.0		
	650 GORK	4	1120.6	1123.7	6.5	31.0	9.0		
	1490 BERL	1	1129.5E	1129.5		3.9			
	600 UCCL	20	1141	1147	12.5	9.0	6.0		
	600 UCCL	20	1156	1222.5	59	90.0	30.0		
	9500 BERL	20	1200	1232.5	50	13.0	6.6		
	536 ONDR	45	1200	1224	50	120.0			
	606 SGMR	22	1202.1	1222.1	50.4	81.0	40.0		
	1415 SGMR	20	1203.6	1231	52.5	3.1	1.5		
	1490 BERL	20	1213.5	1240	36.5	3.5	1.4		
	9500 BERL	3	1252.5	1253.2	.9	28.0	7.9		
	536 ONDR	45	1310	1333	50	130.0			
	606 SGMR	22	1315	1333.3	44.6	115.0	55.0		
	1415 SGMR	22	1317.4	1328.7	23.8	3.1	1.5		
	600 UCCL	41	1318.2	1322.6	4.8	9.0	2.0		
	600 UCCL	20	1324	1333	24	120.0	55.0		
	2800 OTTA	20	1340	1413	60	7.0	3.5		
	600 UCCL	20	1347.5	1353.5	22.5	16.0	10.0		
	930 BORD	45	1400	1400.9	1	9.0	2.0		
	2800 SLOU	3	1403	1406.9	9	61.0			
	7000 SAOP	41	1404.8	1407.1	4.7	68.9			
	7000 SAOP	3	1404.8	1406	1.5	24.1	9.2		
	10700 PENN	3	1405.4	1407.4	21.8	28.7	5.9		
	10500 BERN	3	1405.5	1407.5	4	24.0			
	9500 BERL	4	1405 U	1407.5	6 U	21.0			
	9400 HUAN	23	1405.7	1420.3	33.1	11.4	5.4		
	9400 HUAN	3	1405.8	1407.5	4	26.5	10.0		
	2700 PENN	3	1405.1	1407	4.7	55.5	21.4		
	2695 CANR	3	1405.5	1407.5	4.5			1	
	1420 CANR	4	1405	1408	5			1	
	1415 SGMR	3	U	1407.6	4.1D	14.8U	3.0U		
	606 SGMR	4	U	1407.6	4.1D	35.4U	7.0U		
	960 PENN	45	1405	1407.7	4.8	45.2	10.8		
	237 TRST	45	1405.5	1405.8	.8	270.0	100.0		
	19000 SLOU	3	1406 U	1408.7	3 U	103.0U			
	7000 SAOP	3	1406.3	1407.1	3.2	68.9	31.0		
	930 BORD	45	1406	1407.7	5	66.0	15.0		
	600 UCCL	3	1406	1407	2.5	36.0	20.0		
	408 SANM	45	1406	1407.6	3.5	35.0	9.0		
	9400 SLOU	4	1407 U	1408	4 U	35.0U			
	2700 PENN	29	1409.8	1409.8	17.8	5.6	2.8		
	7000 SAOP	40	1411.7		12.8	17.2			
	606 SGMR	1	1420.2	1421.1	2.5	2.8	1.0		
	408 SANM	45	1420.3	1420.6	1	78.0	3.0		
	245 SGMR	7	1420.7	1420.8	.8	475.0	45.0		
	237 TRST	45	1420.7	1420.8	.2	870.0	270.0		
	234 POTS	45	1420.8	1420.8	.1	175.0	20.0		
	113 POTS	45	1420.8	1420.9	.8	25000.0	2000.0		
	4995 CANR	3	1425.5	1427.5	6			1	
	2800 OTTA	21	1455	1505	15	2.8	1.4		
	2700 PENN	3	1456	1500.8	13	16.7	3.5		
	2800 OTTA	3	1500	1500.8	2	9.6	4.6		
	960 PENN	1	1500.1	1500.7		4.8			
	2800 OTTA	23	1510	1525	315	18.0	10.5		
	2700 PENN	20	1517.6	1519.2	41.4	13.9	4.8		
	1415 SGMR	4	1517.6	1519	3.3	210.0	50.0		
	960 PENN	45	1517.2	1519.2	12.1	42.4	7.3		
	606 SGMR	20	1517.9	1519.8	40.4	16.1	7.0		
	2800 OTTA	3	1518	1519	3	10.0	4.0		
	1420 CANR	8	1518	1519	2.5			2	
	2695 BOUL	3	1519	1519.5	1.5			2	
	1415 SGMR	29	1520.9	1520.9	29.1	7.8	3.9		

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	9400 HUAN	22	1521.4	1530.4	29.4	7.6	3.8		
	2800 OTTA	40	1536	1538	3	30.0			
	606 SGMR	41	1705.3	1709.6	18.4	6.8	2.0		
	606 SGMR	22	1728.6	1739.1	131.6	38.6	15.0		
	408 SANM	47	1728	1819.3	87	340.0	60.5		
	18 MCMA	41	1756	1759	8			2	
	18 BOUL	41	1757	1759	7			2	
	2700 PENN	20	1814.4	1816.5	14.3	4.1	2.2		
	10700 PENN	1	1818.1	1819.7	4.2	6.3	3.1		
	2700 PENN	20	1832	1834.8	14	11.0	3.8		
	1415 SGMR	40	1832.5	1834.4	4	28.8	6.0		
	10700 PENN	20	1833.8	1838.2	14.3	8.4	4.2		
	2800 OTTA	20	1833	1835	10	9.2	4.6		
	960 PENN	45	1833.5	1834.4	2.3	22.6	4.9		
	2695 BOUL	45	1834.5	1835	2			1	
	408 SANM	41	1857.6	1859.5	17.4	17.0	4.0		
	10700 PENN	20	1901	1907	19 D	10.2			
	9400 HUAN	20	1903	1912.5	17.7	9.5	4.7		
	408 SANM	45	1931.5	1933.3	3	33.0	8.0		
	606 SGMR	22	1942.3	2000.1	63.2	17.9	8.0		1
	208 VORO	44	2300	0020	240	208.0			
	3750 TYKW	45	2320	2331.5	16	16.0	5.0		
	9400 TYKW	45	2323	2327	12	4.0	2.0		
	2000 TYKW	45	2323	2331.5	11	14.0	5.0		
	9400 TYKW	5	2358	2359.1	2	13.0	4.0		
19	1420 CRON	3	0037.5	0038	2.5			1	
	3750 TYKW	45	0239	0247	10	o3.0	9.0		
	9400 TYKW	5	0240	0247	9	37.0	10.0		
	2000 TYKW	5	0240	0240.5	1	3.0	1.0		
	1000 TYKW	5	0240	0240.3	1	4.0	1.0		
	2000 TYKW	5	0243	0247	7	25.0	4.0		
	1000 TYKW	45	0245.5	0247.1	3	15.0	3.0		
	9700 IRKU	1	0246.7	0247.1	1	25.0	20.0		
	4995 CRON	1	0247	0247.5	2			1	
	2695 CRON	3	0247	0248	2.5			1	
	9400 TYKW	29	0249		60	10.0	5.0		
	3750 TYKW	29	0249		40	5.0	2.0		
	9400 TYKW	5	0522	0523.1	6	15.0	5.0		
	200 GORK	44	0533 E		387 D		10.0		
	100 GORK	44	0533 E		387 D		10.0		
	221 ABST	41	0700	0935	240	351.0			
	206 IZMI	44	0700		300	100.0			
	260 ONDR	44	0710		430	120.0D			
	204 KIEV	44	0720 E		380 D	136.0D	16.0		
	245 SGMR	44	1144 E						
	9400 TYKW	5	0547	0548	2	13.0	4.0		
	3750 TYKW	5	0547	0548	2	3.0	1.0		
	3100 CRIM	1	0802	0803	2	7.0	2.0		
	1490 BERL	3	0802.5	0802.7	.5	11.0	5.1		
	950 GORK	3	0802.7	0802.8	.5	12.2	6.0		
	650 GORK	40	0802.5	0803	.8	2.8	1.1		
	234 POTS	45	0813.2	0813.2	.1	250.0	50.0		
	650 GORK	40	0853.1	0853.9	2.1	2.2	0.7		
	100 GORK	6	0853.4	0854.7U	2.9	200.0			
	9100 GORK	1	0921.4	0922.5	3.4	15.0	4.9		
	2950 GORK	40	0928	0928.7	1.2	10.0			
	950 GORK	4	0929.7	0929.9	2.2	134.0	20.0		
	650 GORK	4	0929.7	0929.9	2.2	45.0	8.0		
	600 UCCL	4	0930	0930	2.2	45.0	8.0		
	10500 BERN	3	0936.1	0936.4	1	18.0			
	9100 GORK	45	0936.3	0936.6	4.2	37.0	7.7		
	9100 GORK		0936.3	0937.8		18.0			
	3100 CRIM	1	0958	0959	2	13.0	4.0		
	9100 GORK	20	1011.9	1012.9	12.1	12.0	4.0		
	113 POTS	45	1017.8	1018.8	1.7	7000.0	350.0		
	100 GORK	41	1017.1	1018.7	6.5	800.0D			
	100 GORK		1017.1	1021.9		550.0			
	2950 GORK	4	1018.7	1018.8	2.2	11.0	3.0		
	950 GORK	1	1018.7	1018.7	.4	6.2	3.0		
	930 BORD	5	1018	1018.6	1	12.0	2.0		
	650 GORK	40	1018.5	1019	1.8	3.0	1.3		
	237 TRST	41	1018.7	1018.7	1	390.0			
	234 POTS	45	1018.7	1018.7	.8	2000.0	40.0		
	200 GORK	41	1018.7	1018.9	1.1	150.0D			
	200 GORK		1018.7	1019.5		150.0			
	1490 BERL	22	1019.3E	1019.3		2.3			
	206 IZMI	41	1019.7		2	350.0			
	9100 GORK	20	1036.4	1037	8.6	15.0	5.5		
	9100 GORK	1	1057.5	1059	3	13.0	6.5		
	206 IZMI	6	1112.4	1112.4	.3	500.0	140.0		
	9100 GORK	1	1114.4	1115.7	3.2	20.0	6.9		
	2950 GORK	1	1116.1	1116.4	1.9	8.2	4.0		
	200 GORK	41	1117	1135.6	43.4	150.0			
	600 UCCL	1	1133.5		.2	6.0	4.0		
	9100 GORK	3	1140.5	1141.1	1.2	29.0	15.0		
	600 UCCL	1	1140.2		.3	5.0	3.0		
	2950 GORK	3	1142	1142.4	.7	9.1	4.5		
	234 POTS	45	1159.4	1159.7	.3	700.0	70.0		
	930 BORD	5	1202	1202.1	1	9.0	1.0		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	REMARKS
19	234 POTS	45	1219.8	1220	.3	1000.0	100.0		
	10500 BERN	4	1244.8	1245	1	36.0			
	10500 BERN		1244.8	1245.3		48.0			
	10500 BERN		1244.8	1245.3		48.0			
	9500 BERL	4	1244.6	1245.3	6.4	61.0	13.0		
	9400 HUAN	4	1244.8	1245.4	.9	74.1	33.8		
	7000 SAOP	4	1244.7	1245.3	11.3	54.3	16.6		
	9400 HUAN	29	1245.7	1245.7	5.6	11.1	5.6		
	7000 SAOP	29	1246		8.2				
	7000 SAOP	3	1302.3	1302.8	2.7	15.5	7.8		
	9400 HUAN	23	1321.4	1335.2	19.9	7.4	3.5		
	9500 BERL	22	1322.7	1324.2	5.3	12.0	3.9		
	8800 SGMR	3	1322.3	1324.3	5.9	10.3	2.0		
	2695 SGMR	1	1322.9	1324.3	5.2	7.2	1.5		
	1490 BERL	3	1322.5	1324.2	2.8	5.8	2.0		
	1415 SGMR	1	1322.9	1324.2	2.6	5.6	1.0		
	606 SGMR	3	1322	1324.2	11.5	29.0	5.0		
	536 ONDR	45	1322	1324	8	130.0			
	245 SGMR	6	1322.3	1323.7	2.4	105.0	10.0		
	9400 HUAN	1	1323.7	1324.3	1.3	9.3	4.6		
	4995 SGMR	1	1323.7	1324.3	1.8	6.0	1.5		
	2800 OTTA	1	1323	1324	2	5.8	2.0		
	930 BORD	45	1323	1324	3	13.0	3.0		
	600 UCCL	4	1323.5	1324.5	3.8	36.0	10.0		
	408 SANM	45	1323	1324	6.3	74.5	11.5		
	113 POTS	45	1343.2	1343.4	.4	10000.0	2000.0		
	9400 HUAN	23	1349.2	1358.2	21	14.8	6.3		
	7000 SAOP	41	1349.3	1354.6	17.9	38.8			
	7000 SAOP	3	1349.3	1349.3	4.7	16.6	7.8		
	2800 OTTA	21	1350	1623	340	17.0	7.4		
	7000 SAOP	3	1353.7	1354.6	3.1	38.8	10.0		
	10700 PENN	3	1354.1	1354.7	1.8	18.0	5.6		
	9400 HUAN	3	1354.1	1354.4	1	35.2	16.7		
	7000 SAOP	3	1356.7	1359.5	10.1	15.5	7.8		
	2800 OTTA	1	1447	1449	3	2.6	1.3		
	606 SGMR	41	1455.2	1501.2	7.8	12.4	2.0		
	600 UCCL	2	1455	1455.3	2.2	8.0	4.0		
	2800 OTTA	21	1500	1508	11	4.6	2.3		
	2800 OTTA	1	1500.5	1501.7	2.5	3.2	1.6		
	2695 SGMR	1	1500.8	1501.5	1.5	6.1	1.5		
	1415 SGMR	1	1500.8	1501.5	2.4	5.9	1.5		
	600 UCCL	1	1501	1501.3	.7	9.0	4.0		
	9400 HUAN	23	1506.1	1634	109.9	13.0	7.8		
	7000 SAOP	2	1559	1559.5	8	17.0	10.2		
	7000 SAOP	3	1632.6	1633.7	2.7	11.3	5.6		
	7000 SAOP	45	1639.6	1641.8	4.3	156.0	74.6		
	7000 SAOP	3	1639.6	1641.8	2.7	156.0	53.1		
	9400 HUAN	45	1640.6	1641.8	2.8	85.2	48.2		
	8800 SGMR	45	1640.8	1641.8	3.8	87.0	20.0		
	4995 CANR	45	1640.5	1641.5	3.5			1	
	4995 CANR	45	1640.5	1642.5	3.5			1	
	4995 SGMR	45	1640.7	1641.8	3.6	105.0	25.0		
	2700 PENN	3	1640.9	1642	6.1	31.8	13.7		
	2695 CANR	3	1640.5	1641	3			1	
	2695 SGMR	45	1640.7	1641.8	3.2	30.4	8.0		
	1420 CANR	45	1640.5	1641.5	3			1	
	1420 CANR	45	1640.5	1642	3			1	
	1415 SGMR	45	1640.9	1641.2	3	19.6	4.0		
	960 PENN	45	1640.5	1641.9	11.5	78.5	8.3		
	606 SGMR	46	1640.5	1642.1	3.5	102.0	20.0		
	245 SGMR	48	1640.6	1640.8	2.1	780.0	80.0		
	18 MCMA	6	1640	1642	3			2	
	10700 PENN	45	1641	1641.8	3	69.4	33.6		
	2800 OTTA	45	1641	1642	3	26.0	15.0		
	2695 BOUL	45	1641.5	1642	4			1	
	2695 BOUL	45	1641.5	1642.5	4			1	
	1420 BOUL	45	1641.5	1643.5	3			2	
	7000 SAOP	3	1642.3	1642.5	1.6	130.0	46.3		
	9400 HUAN	29	1643.4	1643.4	6.6	11.1	5.6		
	4995 BOUL	45	1643	1644	3			1	
	4995 BOUL	45	1643	1645	3			1	
	4995 SGMR	29	1643.3	1643.3	13.9	6.6	3.3		
	2695 SGMR	29	1643.9	1643.9	13.3	2.2	1.1		
	1415 SGMR	29	1643.9	1643.9	11.6	1.8	.9		
	10700 PENN	29	1644	1644	15.5	10.7	5.3		
	8800 SGMR	29	1644.6	1644.6	6.4U	2.2	1.1		
	7000 SAOP	29	1644.2		10.7				
	606 SGMR	29	1644	1644	19.5	2.0	1.0		
	7000 SAOP	4	1739.2	1741.7	4.5	13.6	11.3		
	2800 OTTA	1	1857	1858	3	3.2	1.6		
	18 BOUL	41	2052	2058	7			1	
	2695 PENT	20	2110	2120	30	3.4	1.7		
	3750 TYKW	45	2246	2247.6	40	26.0	10.0		
	2000 TYKW	45	2246	2247.8	10	6.0	2.0		
	200 HIRA	45	2256	2257	2	320.0	120.0		
	208 VORO	44	2300	0003	240	248.0			
20	3750 TYKW	45	0052	0112	24	118.0	23.0		
	9400 TYKW	45	0106	0111.2	10	155.0	50.0		
	3750 TYKW	29	0106		130	21.0	10.0		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$ PEAK	MEAN	INT	REMARKS
20	2000 TYKW	45	0109.5	0111.2	6.5	63.0	28.0		
	1000 TYKW	45	0109.5	0112.8	7.5	110.0	37.0		
	9700 IRKU	3	0110	0111.2	15	146.0	34.0		
	4995 CRON	4	0110	0112	7			1	
	2695 CRON	41	0110.5	0112	6			1	
	2695 CRON	41	0110.5	0113	6			1	
	1420 CRON	4	0110.5	0112.5	8			1	
	500 HIRA	45	0110	0113.5	7	30.0	20.0		
	9400 TYKW	29	0116		35	20.0	10.0		
	2000 TYKW	29	0116		10	6.0	3.0		
	2000 TYKW	5	0127	0130	5	8.0	3.0		
	1000 TYKW	5	0127	0130	6	2.0	1.0		
	3750 TYKW	5	0129	0130	3	4.0	2.0		
	9700 IRKU	1	0130.7	0131.5	1.5	10.0	4.0		
	3750 TYKW	5	0202	0215	38	4.0	2.0		
	9400 TYKW	45	0229.5	0230	4	6.0	2.0		
	9400 TYKW	5	0242	0243.3	3	53.0	16.0		
	3750 TYKW	5	0242	0243.3	4	21.0	9.0		
	4995 CRON	1	0243	0243.5	2			1	
	9400 TYKW	29	0245		5	4.0	2.0		
	3750 TYKW	29	0246		15	4.0	2.0		
	3750 TYKW	5	0340	0450	120	10.0	6.0		
	3750 TYKW	45	0354	0355.2	5	10.0	4.0		
	9400 TYKW	5	0405	0450	85	12.0	6.0		
	500 HIRA	45	0419.8	0421	2	20.0	10.0		
	200 HIRA	45	0419	0419.5	1	820.0	160.0		
	9400 TYKW	45	0420	0420.7	2.5	70.0	30.0		
	4995 CRON	3	0420	0421	2.5			1	
	3750 TYKW	45	0420	0421.2	3	43.0	15.0		
	2695 CRON	3	0420	0421.5	3.5			1	
	2000 TYKW	45	0420	0421.2	3	24.0	11.0		
	1420 CRON	3	0420	0421	3			1	
	1000 TYKW	45	0420	0420.8	3	21.0	6.0		
	9400 TYKW	29	0422.5		10	6.0	3.0		
	1000 TYKW	5	0425.5	0425.8	.5	31.0	7.0		
	9400 TYKW	5	0545.5	0545.7	1	7.0	2.0		
	3750 TYKW	5	0545.5	0545.8	1	3.0	1.0		
	200 GORK	44	0548 E		312 D		10.0		
	100 GORK	44	0554 E		118		150.0		
	260 ONDR	41	0700	0822.5	90	55.0			
	221 ABST	41	0700	0737.3	240	9.0			
	206 IZMI	44	0700		300	80.0			
	204 KIEV	44	0700 E		400 D	90.0	21.0		
	100 GORK	44	0751.5		189.5		10.0		
	100 GORK	24	0615.7	0630.5U	16.7	8000.0			
	650 GORK	2	0628.9	0629.3	.8	5.9	3.1		
	234 POTS	45	0719.2	0719.5	.3	200.0	15.0		
	234 POTS	45	0735.6	0735.6	.1	300.0	60.0		
	237 TRST	45	0822.3	0822.5	.7	440.0	150.0		
	234 POTS	45	0822.3	0822.4	.5	300.0	50.0		
	200 GORK	6	0822	0822.7	1	150.0	70.0		
	100 GORK	6	0822.4	0822.9U	.6	500.0			
	1490 BERL	3	1240.7	1241.3	1.6	10.0	4.6		
	930 BORD	45	1240	1241.3	3	95.0	9.0		
	600 UCCL	40	1241.5	1242	20	8.0	4.0		
	930 BORD	45	1246	1255	15	8.0	4.0		
	9400 HUAN	20	1252.1	1315.5	49	9.3	5.2		
	600 UCCL	1	1311.5	1312	1	6.0	3.0		
	9500 BERL	20	1320	1324.7	15	9.6	6.4		
	1490 BERL	20	1323.3	1324.7	5.2	3.4	2.3		
	2800 OTTA	20	1332	1338	10	6.6	3.0		
	1490 BERL	20	1334	1336.5	9	3.9	2.2		
	606 SGMR	3	1411.1	1411.3	.7	11.8	5.6		
	600 UCCL	3	1411.7	1411.9	.8	18.0	9.0		
	245 SGMR	6	1411.1	1411.3	.6	46.3	22.1		
	234 POTS	45	1411.2	1411.3	.2	150.0	20.0		
	1420 CANR	1	1420	1420.5	1.5			1	
	2800 OTTA	25	1505		35	8.0			
	9400 HUAN	20	1550.7	1557.4	26.5	7.4	4.3		
	18 BOUL	6	1828	1831	5			1	
	1420 BOUL	40	1959	1959.5	6.5			1	
	1420 BOUL	8	2012	2012.5	1			1	
	9400 HUAN	3	2101.9	2103.7	4.9	16.7	8.2		
	2695 PENT	1	2102	2104	4	3.2	1.6		
	1420 BOUL	41	2127.5	2130.5	4			2	
	4995 BOUL	3	2239	2239.5	3			1	
21	3750 TYKW	5	0009	0010	3	3.0	1.0		
	2000 TYKW	5	0010	0010.1	.5	3.0	1.0		
	1000 TYKW	5	0010	0010.1	.5	15.0	4.0		
	3750 TYKW	5	0120	0230	180	8.0	4.0		
	9400 TYKW	45	0141	0142.5	60	10.0	4.0		
	100 GORL	44	0718 E		279 D		5.0		
	930 BORD	5	0815	0815.8	1	20.0	1.0		
	1490 BERL	3	0823.7	0824.7	2	78.0	3.4		
	9500 BERL	1	0824.3E	0824.3		7.1			
	1420 CRON	8	0824.5	0825	1			2	
	1420 CANR	8	0824	0824.5	2			2	
	950 GORK	4	0824	0824.5	1	130.0	73.0		
	930 BORD	45	0824	0824.3	1	180.0	30.0		

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NOV. 1970	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	808 ONDR	5	0824	0824.5	5.5				
	600 UCCL	4	0824.5	0824.5	1	41.0	10.0		
	536 ONDR	45	0824	0824	3	120.0			
	9100 GORK	20	0908.5	0936.7	72.5	18.0	12.0		
	1420 CANR	3	0914.5	0921	17.5			2	
	600 UCCL	40	1132	1133	18	29.0	7.0		
	2800 OTTA	21	1300	1337	390	37.0	13.6		
	8800 SGMR	20	1311	1350	52.1	40.0	18.0		
	2695 SGMR	22	1313	1327.8	50.6	24.5	8.0		
	15400 SGMR	20	1316	1341.8	52	50.0	25.0		
	4995 SGMR	20	1317	1336	48.8	34.2	15.0		
	7000 SAOP	4	1319.8	1336.7	68.7	54.8	27.4		
	9400 HUAN	20	1322.8	1339.1	102.3	33.7	13.6		
	9500 BERL	20	1324.5	1342.5	35.5	6.8	3.0		
	1490 BERL	22	1324.5	1345	45.5	6.4	3.7		
	2800 OTTA	4	1325	1328	7	16.0	7.6		
	2700 PENN	20	1326.3	1328.1	49	27.4	5.7		
	960 PENN	45	1327.2	1328.6	3.3	15.4	3.4		
	10700 PENN	20	1329.1	1343.8	38.4	17.2	8.6		
	2695 SGMR	45	1508.7	1521.2	24.3	350.0	140.0		
	2800 OTTA	28	1510		5	7.4	5.6		
	960 PENN	3	1510.6	1521.3	15.2	41.7	14.3		
	2700 PENN	3	1511.2	1521.5	14.6	339.0	107.0		
	9400 HUAN	23	1512	1527.6	95.5	61.8	20.1		
	1415 SGMR	3	1512.7	1521.2	19.5	130.0	41.5		
	4995 SGMR	45	1513.6	1521.4	17.5	370.0	150.0		
	245 SGMR	7	1513	1517.3	20.5	290.0	90.0		
	10700 PENN	3	1514.6	1521.6	10.6	109.0	34.7		
	7000 SAOP	3	1514.6	1521.4	11	208.9	58.2		
	2695 CANR	45	1514	1521.5	30.5			2	
	606 SGMR	3	1514.8	1521.3	17.2	21.0	8.2		
	8800 SGMR	45	1515.3	1521.3	16.5	145.0	60.0		
	2800 OTTA	4	1515	1521.5	20	336.0	136.0		
	1420 BOUL	3	1515	1522	12			2	
	15400 SGMR	3	1516.5	1521.4	15.8	47.6	22.0		
	4995 BOUL	45	1516.5	1523.5	24.5			2	
	4995 CANR	45	1516	1522.5	18.5			2	
	2695 BOUL	45	1516.5	1522.5	23			2	
	9400 HUAN	3	1520.2	1521.6	5.5	80.6	35.1		
	10700 PENN	29	1525.2	1525.2	54.8	34.3	17.2		
	10700 PENN	3	1525.8	1527.8	14.4	21.0	9.2		
	2700 PENN	29	1525.8	1525.8	54.5	59.4	29.7		
	960 PENN	29	1525.8	1525.8	24.2	5.9	2.9		
	2700 PENN	3	1526	1526.4	7.6	50.9	16.0		
	960 PENN	1	1526	1526.8	5.8	5.1	1.7		
	8800 SGMR	29	1531.8	1531.8	28.2	36.4	18.2		
	4995 SGMR	29	1531.1	1531.1	54.5	45.6	19.3		
	15400 SGMR	29	1532.3	1532.3	38.6	40.8	20.4		
	2695 SGMR	29	1533	1533	46.5	15.5	7.7		
	2800 OTTA	29	1535		55	19.0	6.4		
	7000 SAOP	29	1555.6		73.9				
	7000 SAOP	4	1555.6	1559.5	13.7	38.8	11.4		
	2800 OTTA	24	1935		10	3.6			
22	9400 TYKW	5	0250	0340	170	8.0	4.0		
	3750 TYKW	5	0250	0333	160	10.0	3.0		
	200 HIRA	45	0435.5		3.5	5500.0D	340.0D		
	9400 TYKW	5	0437.2	0437.4	.8	10.0	3.0		
	3750 TYKW	5	0437.2	0437.5	1.5	32.0	6.0		
	2000 TYKW	5	0437	0437.5	1.5	9.0	3.0		
	1000 TYKW	5	0437	0437.7	2	159.0	26.0		
	500 HIRA	45	0437	0437.5	2	35.0	10.0		
	100 GORK	6	0825.3	0826	1.4	300.0D			
	237 TRST	45	1224.9	1225.3	.7	110.0	40.0		
	237 TRST	42	1336.5	1341.5	6.1	300.0			
	234 POTS	41	1340.4	1341.4	1.1	175.0	6.0		
	2700 PENN	3	1410.9	1410.9	.6	13.1	1.2		
	237 TRST	41	1456	1456.4	2.6D	120.0			
	960 PENN	3	1638.7	1640	5.4	34.3	6.8		
	15400 SGMR	3	1639.6	1640.4	6.4	18.5	3.0		
	10700 PENN	3	1639.5	1640.3	4.6	29.0	8.2		
	9400 HUAN	3	1639.3	1640.3	3.2	34.1	13.9		
	2800 OTTA	3	1639	1640	4	30.0	7.0		
	2700 PENN	3	1639.2	1639.8	5.8	79.7	12.3		
	2695 CANR	3	1639	1640	2.5			1	
	1420 CANR	3	1639	1640	4			1	
	1415 SGMR	3	1639.1	1639.9	5.9	22.4	5.0		
	606 SGMR	4	1639.2	1640.2	4	380.0	75.0		
	245 SGMR	48	1639.1	1640	3.9	1000.0	150.0		
	4995 CANR	3	1640	1640.5	3			1	
	2695 BOUL	3	1640	1640.5	4			2	
	1420 BOUL	3	1640	1641	4			1	
	4995 BOUL	3	1641.5	1642	2.5			1	
	4995 SGMR	1	1751.6	1751.9	1.9	5.7	2.0		
	2695 SGMR	1	1751.2	1751.9	3.2	2.7	1.0		
	2700 PENN	20	1809.5	1910	115	4.6	2.4		
	2800 OTTA	20	1840	1900	80	2.6	1.6		
	2800 OTTA	20	2000		65	2.8	2.0		
	2695 SGMR	20	2004.2	2008.7	38.1	11.6	5.0		
	4995 SGMR	20	2005.1	2012.3	43.5	18.0	9.0		

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NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
22	200 HIRA	45	2125	2125.5	1.5	290.0	90.0		
	200 HIRA	45	2235.2	2236	3	470.0	50.0		
	200 HIRA	45	2320.5	2320.8	.8	90.0	30.0		
	9400 TYKW	5	2348	2359	75	6.0	3.0		
	3750 TYKW	5	2348	2359	75	8.0	4.0		
	3750 TYKW	45	2410	2411.9	3	12.0	4.0		
	2000 TYKW	45	2410	2412.2	3	18.0	4.0		
	1000 TYKW	45	2410	2411.9	4	96.0	14.0		
	9400 TYKW	5	2411	2411.9	2	25.0	6.0		
23	208 VORO	45	0008.8	0009.5	4.2	260.0	108.0		
	500 HIRA	45	0009.5	0012.3	9	340.0	35.0		
	200 HIRA	45	0009	0010.5	4	980.0	80.0		
	1420 CRON	45	0011.5	0012.5	2			1	
	1420 CRON	45	0011.5	0013	2			1	
	650 GORK	41	0931.6	0931.8	5.2	21.0			
	650 GORK		0931.6	0933.9		42.0			
	650 GORK		0931.6	0935.1		5.2			
	237 TRST	41	0953.2	0953.5	.9	120.0			
	225 HARS	5	0958	0958.5	1	60.0	20.0		
	237 TRST	42	1029.5	1033.7	6	2000.0			
	204 KIEV	41	1029.1	1033.9	6.3	416.0			
	260 ONDR	45	1030	1034	10	140.0D			
	950 GORK	1	1031.7	1031.7	.1	2.0	1.0		
	225 HARS	45	1031.5	1033.5	4	165.0	35.0		
	206 IZMI	41	1031.2	1033.6	4.2	780.0D			
	100 GORK	41	1031.7E	1031.8	3.6E	70.0D			
	100 GORK		1031.7E	1039.9		10000.0			
	600 UCCL	41	1032.3	1034.6	5.5	81.0	7.0		
	200 GORK	41	1032.1	1032.2	3.2	30.0			
	200 GORK		1032.1	1034		5000.0			
	950 GORK	40	1033.6	1033.9	.5	8.2			
	930 BORD	45	1033	1033.8	1	12.0	3.0		
	536 ONDR	45	1033.5	1033.5	1.5	210.0			
	234 POTS	41	1033.5	1033.8	1	1200.0	80.0		
	221 ABST	3	1033.4	1034	2	100.0	36.0		
	113 POTS	41	1033.5	1033.8	2	1400.0	100.0		
	1420 KIEL	5	1133	1135	6	20.0	7.0		
	2695 CANR	3	1153	1154.5	4			1	
	1490 BERL	3	1153.7	1155.2	11.3	11.0	4.5		
	1420 CANR	3	1153	1154.5	5			1	
	237 TRST	42	1153.7	1157.4	4	1450.0			
	200 GORK	41	1153.7	1154.1	4	25.0			
	200 GORK		1153.7	1157.1		150.0D			
	100 GORK	41	1153.7	1154.8	7.1	40.0			
	100 GORK		1153.7	1157.6		10000.0			
	100 GORK		1153.7	1200.1		2000.0			
	3100 CRIM	3	1154	1155.5	6	32.0	10.0		
	950 GORK	1	1154	1155.2	2.4	4.8	1.9		
	650 GORK	1	1154	1155.3	2.3	3.2	1.0		
	204 KIEV	6	1156.9	1157.3	.9	341.0			
	234 POTS	45	1157.4	1157.4	.1	700.0	250.0		
	206 IZMI	6	1157.2	1157.3	.5	440.0	70.0		
	113 POTS	5	1157.4	1157.5	.1	700.0	250.0		
	237 TRST	41	1237.9	1238	.4	130.0			
	237 TRST	42	1317.1	1325.6	8.9	8700.0			
	260 ONDR	45	1318.5	1325.5	7.5	140.0D			
	225 HARS	45	1319	1320	2	145.0	25.0		
	2695 SGMR	1	1324.9	1325.7	1	3.5	1.0		
	606 SGMR	4	1324.7	1325.7	1.8	39.2	8.0		
	245 SGMR	48	1324.7	1325.5	1.5	2500.0	200.0		
	234 POTS	45	1324.8	1324.9	1.1	60000.0	6000.0		
	113 POTS	45	1324.8	1325.6	1.7	4200.0	200.0		
	1490 BERL	1	1325.7E	1325.7		3.4			
	1415 SGMR	1	1325.5	1325.7	1.4	3.2	1.0		
	930 BORD	45	1325	1325.8	1	25.0	3.0		
	600 UCCL	4	1325.5	1326.8	2.2	56.0	12.0		
	536 ONDR	45	1325	1326	2.5	260.0			
	225 HARS	45	1325	1326	2	165.0D	95.0		
	113 POTS	41	1411	1412.3	2.6	850.0	35.0		
	606 SGMR	2	1438.6	1439.2	1.2	6.3	2.0		
	245 SGMR	48	1438.4	1439.2	2.4	1980.0	190.0		
	237 TRST	41	1438.5	1439.2	1.2	7400.0			
	18 BOUL	42	1708	1735	27			3	
	18 MCMA	41	1745	1747	7			1	
	18 BOUL	42	1750	1754	8			2	
	2695 BOUL	40	2041.5	2041.5	2.5			1	
	2695 BOUL	40	2114.5	2115	9			1	
	2695 BOUL	41	2143	2149.5	7			2	
24	9400 TYKW	5	0340	0430	160	15.0	7.0		
	3750 TYKW	5	0345	0410	140	10.0	4.0		
	9400 TYKW	5	0348	0348.5	1	22.0	5.0		
	2000 TYKW	5	0350	0410	80	4.0	2.0		
	2800 OTTA	20	1330	1519	170	12.0	4.3		
	1415 SGMR	20	1502.1	1518.2	44.8	8.8	4.4		
	606 SGMR	22	1506	1518.1	37.4	13.1	6.6		
	2695 SGMR	20	1509.7	1516.8	40.9	9.0	4.5		
	2700 PENN	20	1510.8	1517.4	26.5	5.3	2.6		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

NOVEMBER 1970

NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	960 PENN	20	1510.8	1516.2	37.8	3.0	1.5		
	245 SGMR	6	1518	1518.5	1.5	8.4	4.2		
	408 SANM	45	1658.7	1659.3	.9	29.0	8.0		
	2700 PENN	3	1814.2	1814.2	.4	10.4	1.0		
	2800 OTTA	20	1910	1935	85	2.2	1.1		
	606 SGMR	20	1935	1959.5	66.5	20.7	10.3		
	2695 BOUL	3	2138.5	2139	2			1	
25	600 UCCL	1	0827	0827.5	.6	11.0	5.0		
	600 UCCL	1	0938		.3	9.0	5.0		
	600 UCCL	1	0948	0948.7	.8	8.0	5.0		
	234 POTS	41	1020.8	1020.8	.1	100000.0	6000.0		
	600 UCCL	1	1144.5	1144.7	.6	9.0	5.0		
	18 BOUL	41	1418	1420	10			1	
	18 BOUL	6	1439	1443	5			1	
	2695 BOUL	40	1528	1531	3.5			1	
	2695 BOUL	40	1553	1555.5	3.5			1	
	18 BOUL	41	1930	1933	7			1	
	18 BOUL	41	2000	2001	6			1	
26	200 HIRA	45	0358	0358.5	1	120.0	30.0		
	237 TRST	45	0758.1	0758.3	.4	80.0	30.0		
	237 TRST	41	0921.5	0921.7	.3	85.0			
	600 UCCL	3	1224		.2	16.0	6.0		
	600 UCCL	3	1336.8	1337.1	.6	56.0	28.0		
	600 UCCL	4	1451	1451.3	.9	32.0	10.0		
	9400 HUAN	20	2100.7	2103.7	7.9	39.8	18.6		
	2800 OTTA	4	2100	2103	13	27.0	9.0		
	2695 BOUL	3	2101.5	2105	6.5			1	
	4995 BOUL	3	2102.5	2106	8			1	
27	208 VORO	5	0112.2	0113	1	234.0	18.0		
	200 HIRA	45	0114.8	0115.2	1.2	260.0	30.0		
	3750 TYKW	5	0115	0115.3	1	3.0	1.0		
	2000 TYKW	5	0115	0115.3	1	2.0	1.0		
	1000 TYKW	5	0115	0115.3	1	2.0	1.0		
	2700 PENN	3	1522.8	1523.6	2	13.3	4.4		
	606 SGMR	40	1522.1	1522.9	2.1	24.8	3.0		
	4995 SGMR	1	1523.4	1523.5	.7	3.3	1.0		
	2800 OTTA	4	1523	1523.4	1.5	12.8	5.0		
	2695 CANR	8	1523	1523.5	1.5			1	
	2695 SGMR	4	1523.1	1523.5	1.6	11.9	2.5		
	245 SGMR	6	1523.4	1523.8	.8	18.2	3.0		
	1415 SGMR	1	1524	1524	.1	.5	.1		
	18 BOUL	42	1632	1656	60			3	
	606 SGMR	3	1759.1	1759.2	.3	17.5	6.0		
	245 SGMR	6	1759	1759.1	.5	42.9	6.0		
28	3750 TYKW	45	0410	0418.2	12	24.0	7.0		
	9400 TYKW	45	0413	0418.2	6	15.0	5.0		
	2695 MANI	4	0414.9	0418.2	9.2	14.7	4.9		
	1415 MANI	4	0415	0416.4	5	13.0	4.7		
	1000 TYKW	5	0415	0415.4	1	2.0	1.0		
	8800 MANI	4	0416.6	0418.2	5.4	8.2	2.0		
	4995 MANI	4	0416.7	0418.2	5.3	24.5	8.2		
	1000 TYKW	5	0416	0416.6	1.5	10.0	3.0		
	1000 TYKW	45	0417.5	0418	2	8.0	2.0		
	2000 TYKW	5	0418	0418.2	2	3.0	1.0		
	9400 TYKW	29	0419		120	6.0	3.0		
	3750 TYKW	29	0422		120	6.0	3.0		
	536 ONDR	45	0853.5	0903	27	115.0			
	10500 BERN	3	1046.1	1046.4	1	10.0			
	2700 PENN		1557.8	1849.6		8.7			
	18 MCMA	41	1708	1710	5			1	
	7000 SAOP	32	1715		31.3	-17.8			
	2800 OTTA	20	1725	1840	120	2.6	1.3		
	2695 PENT	24	1955		15	2.8			
	2695 PENT	24	2055		10	6.4			
29	930 BORD	5	1328	1329	2	28.0	2.0		
	2695 PENT	21	2040	2055	50	5.6	2.8		
	2695 PENT	2	2045	2149	6	3.6	2.2		
	408 SANM	3	2107.6	2107.9	.5	71.0	23.5		
	18 BOUL	41	2123	2129	11			2	
30	9400 TYKW	5	0245	0300	40	6.0	3.0		
	3750 TYKW	5	0245	0249	40	6.0	3.0		
	2000 TYKW	5	0245	0248	10	4.0	2.0		
	9400 TYKW	5	0507	0508.1	2	4.0	1.0		
	3750 TYKW	5	0507.5	0508.2	3	4.0	1.0		
	260 ONDR	41	0820	1110.5	330	45.0			
	10500 BERN	45	0841.8	0842.2	4	18.0			
	10500 BERN		0841.8	0842.3		21.0			
	10500 BERN		0841.8	0842.7		11.0			
	10500 BERN		0841.8	0842.9		12.0			
	9100 GORK	45	0841.8	0842.4	4	31.0	8.0		
	9100 GORK		0841.8	0843		17.0			
	2695 CANR	45	0842	0842.5	5			1	
	1490 BERL	22	0842	0844.2	8 U	5.8	3.1		
	1420 CRON	41	0842.5	0843	6.5			1	

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

NOVEMBER 1970

NOV. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22}Wm^{-2}Hz^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
30	1420 CRON	41	0842.5	0845	6.5			1	
	930 BORD	45	0842	0842.9	1	166.0	2.0		
	8800 SGMR	4	1217.8	1219.8	3.1	15.1	3.0		
	4995 SGMR	3	1217.1	1218.7	3	10.1	2.0		
	2695 SGMR	3	1217.7	1218.8	2.3	8.1	2.0		
	1415 SGMR	1	1217.3	1218.6	3.5	7.0	1.5		
	606 SGMR	4	1217.5	1218.6	3	8.9	2.0		
	245 SGMR	6	1218.9	1219.3	.9	14.2	2.0		
	408 SANM	45	1431.3	1432	1.4	31.5	8.0		
	408 SANM	45	1553.2	1555.4	3.9	235.0	9.5		
	18 BOUL	42	1629	1643	15			3	
	18 BOUL	6	1728	1734	8			3	
	2700 PENN	20	1737.4	1803.9	44.9	5.3	1.7		
	960 PENN	1	1739.6	1740.2	1.8	1.9	0.6		
	2800 OTTA	1	1803.8	1803.9	1	3.2	1.0		
	960 PENN	8	1804	1804	.2	29.2			
	408 SANM	45	1837.5	1837.9	1.2	15.5	5.5		
	2695 BOUL	3	1842.5	1843	4.5			1	
	2695 BOUL	3	1857	1857.5	4			1	
	408 SANM	45	1918.8	1919.4	1.2	27.5	7.0		

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

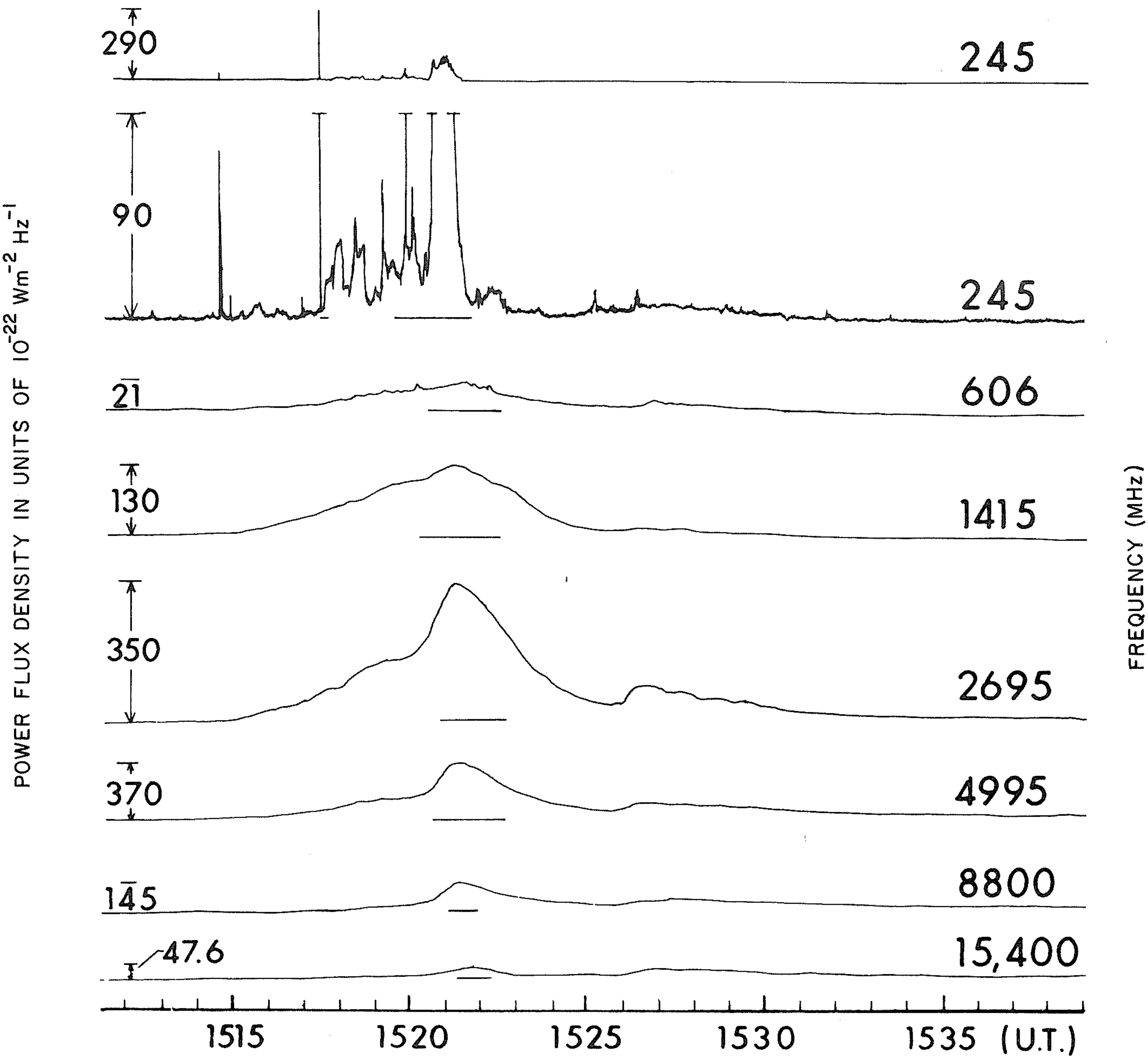
Explanation of Type Code:

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 BURST

21 NOVEMBER 1970



SIMPLE 2 AND COMPLEX RADIO BURST OBSERVED 21 NOVEMBER, 1970 SAGAMORE HILL RADIO OBSERVATORY HAMILTON, MASS.

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

NOVEMBER 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 $(cm^2\ sec)^{-1}$
1 November	1230	1254	7	
4 November	--	2255	4	Onset not observed
5 November	0302	0336	49	0.099
11 November	1830	1838	4	
13 November	0338	0406	4-	
14 November	--	--	--	High ambient flux and numerous small flares
	1231	1239	5	0.031
	1507	1516	6	0.036
	--	2025	6	0.035 Diffuse onset
15 November	0515	0536	6	0.035
	0624	0703	8	0.046
	0740	0801	22	0.124
	1753	1820	16	0.106
	--	--	--	High ambient flux
16 November	0025	0036	4-	
	0045	0054	78	0.316 Greatest peak flux since 24 November 1969 (0.333 at 0921 UT)
	--	0938	5	0.035 Onset not observed
	0942	1000	18	0.117
	1213	1231	22	0.147
	2144	2156	4-	
	2212	2226	9	0.042
	--	--	--	High ambient flux
17 November	0119	0127	9	0.036
	0418	0438	6	0.026
	0542	0550	5	0.023
	0731	> 0735	> 18	> 0.074 Peak not observed
	1147	1154	6	0.028
	1753	1801	15	0.057
	2018	2025	5	0.023
	2226	2259	7	0.032
	--	--	--	High ambient flux
18 November	0122	0206	27	0.125 Broad flat maximum
	0408	0418	10	0.047
	--	--	--	High ambient flux
19 November	0239	0251	4-	
	1640	1644	6	0.023
	--	2301	5	Onset not observed
20 November	0056	0112	7	0.023
21 November	0647	0733	4-	
	0908	0934	5	
	1318	1338	6	0.033
	--	1534	9	0.047 Onset not observed
22 November	2004	2025	4-	
	2332	2414	4-	
23 November	1051	1106	5	
	2156	2220	4-	
24 November	0314	0421	6	
26 November	2059	2110	5	
28 November	0413	0427	4-	
29 November	2045	2058	4	
30 November	0245	0253	6	
	0841	0844	6	Rapid rise, rapid decline

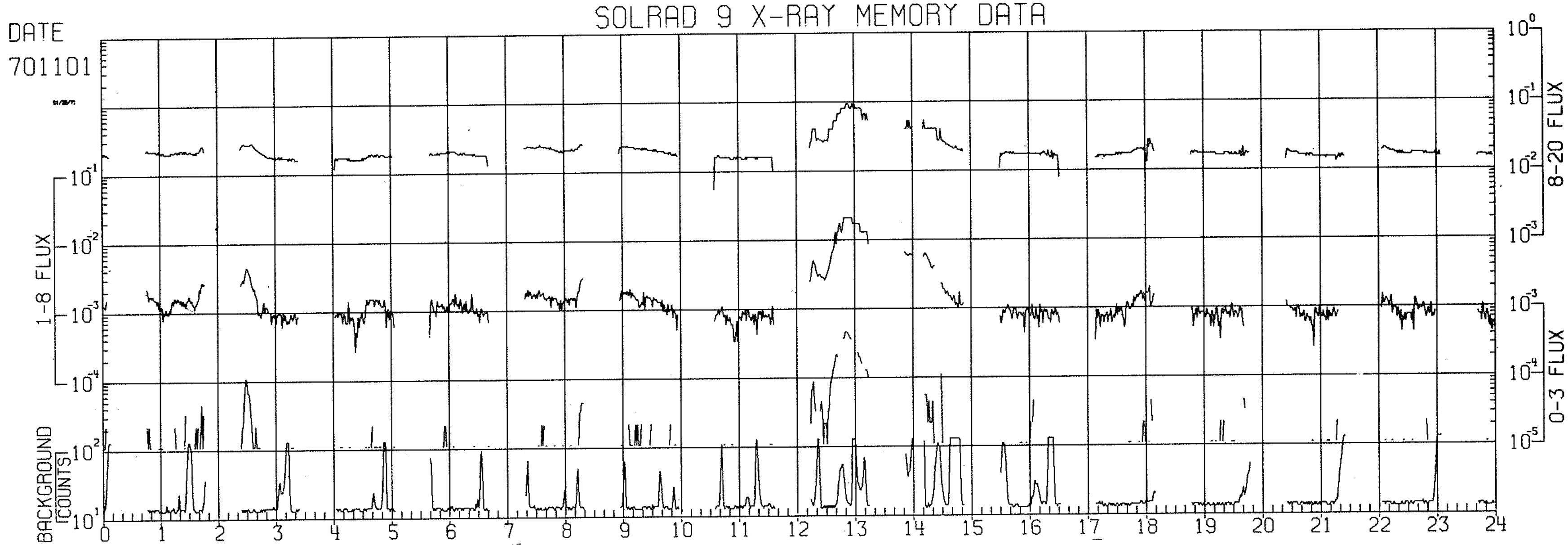
Note: Coverage this month is 80%.

Errata: The time of maximum for the event on November 2, 1969 beginning at 0945 published in SGD-312-Part 2 page 86 should read 1059 UT.

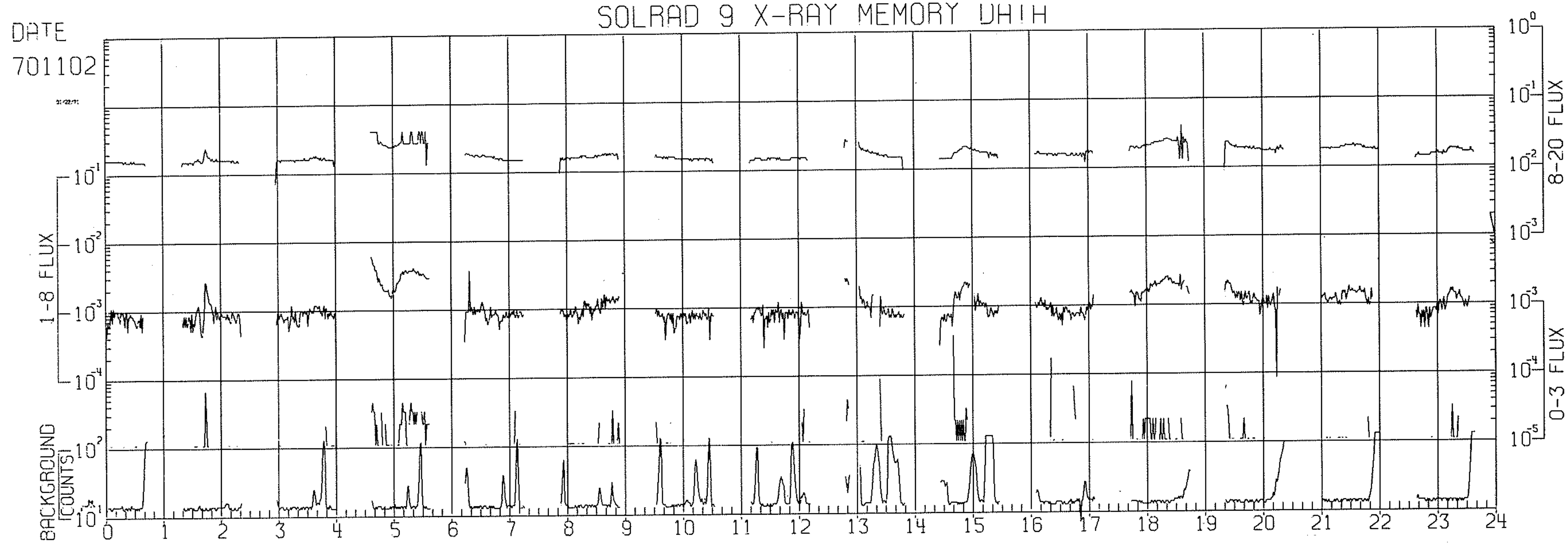
SOLAR X-RAYS MEASURED BY SATELLITE SOLRAD 9-EXPLORER 37

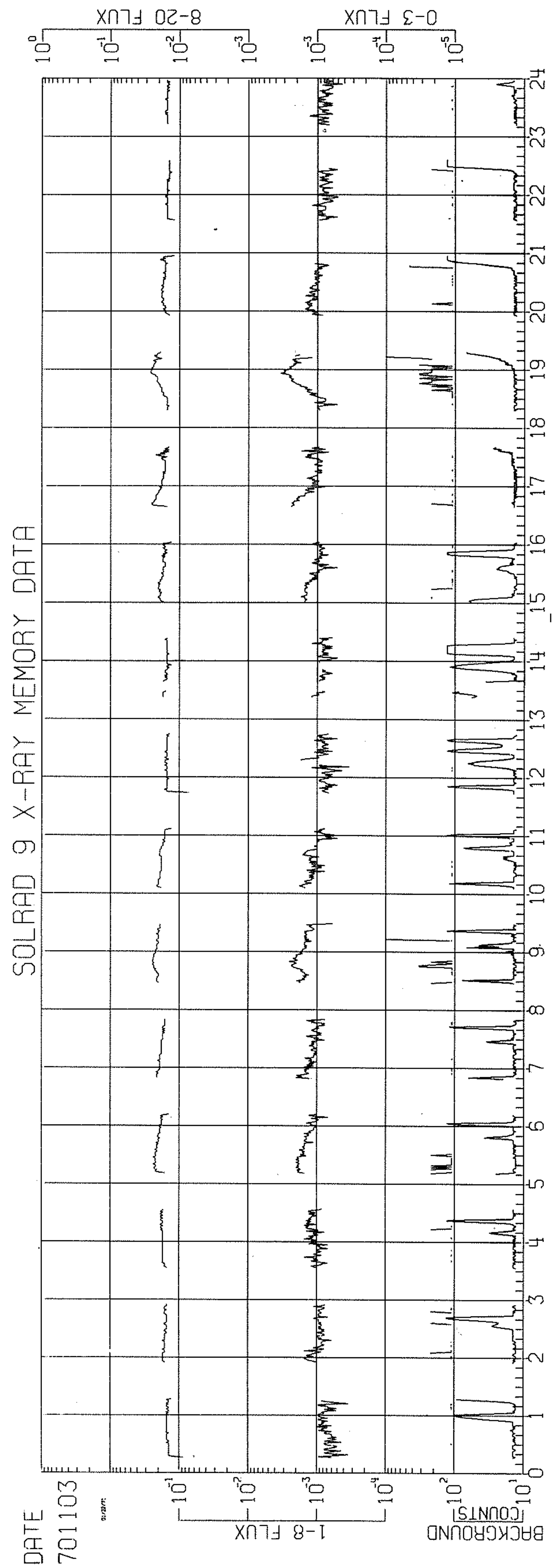
NOVEMBER 1970

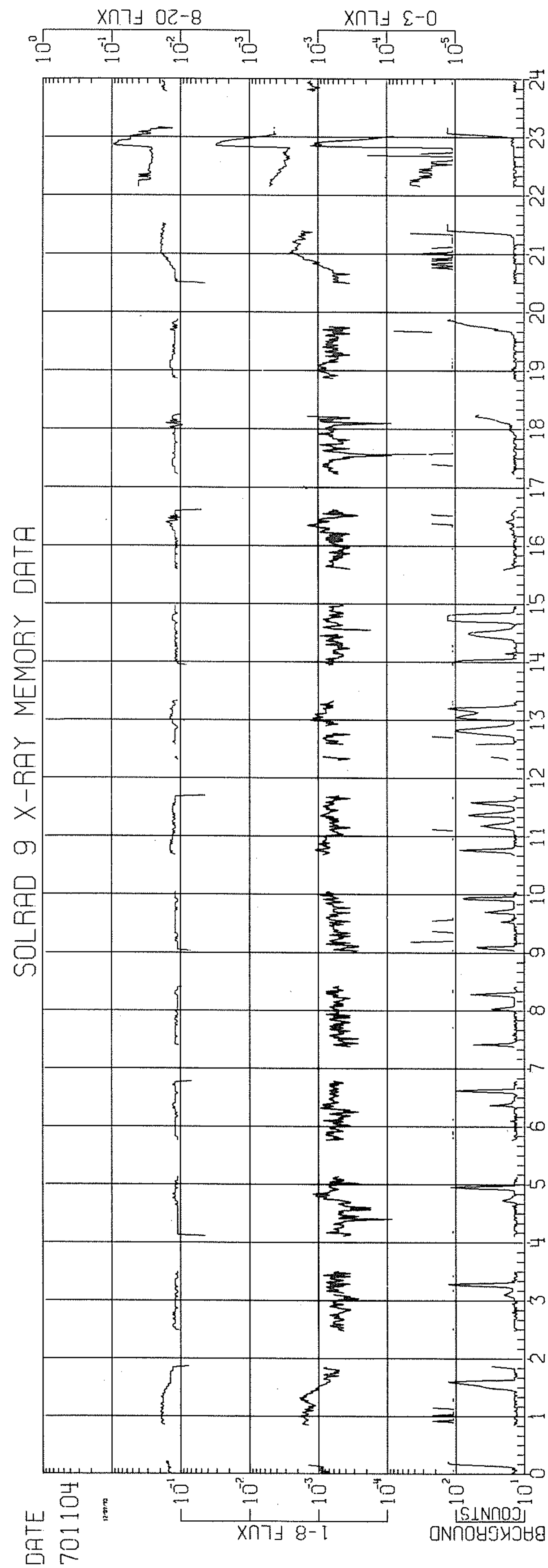
SOLRAD 9 X-RAY MEMORY DATA

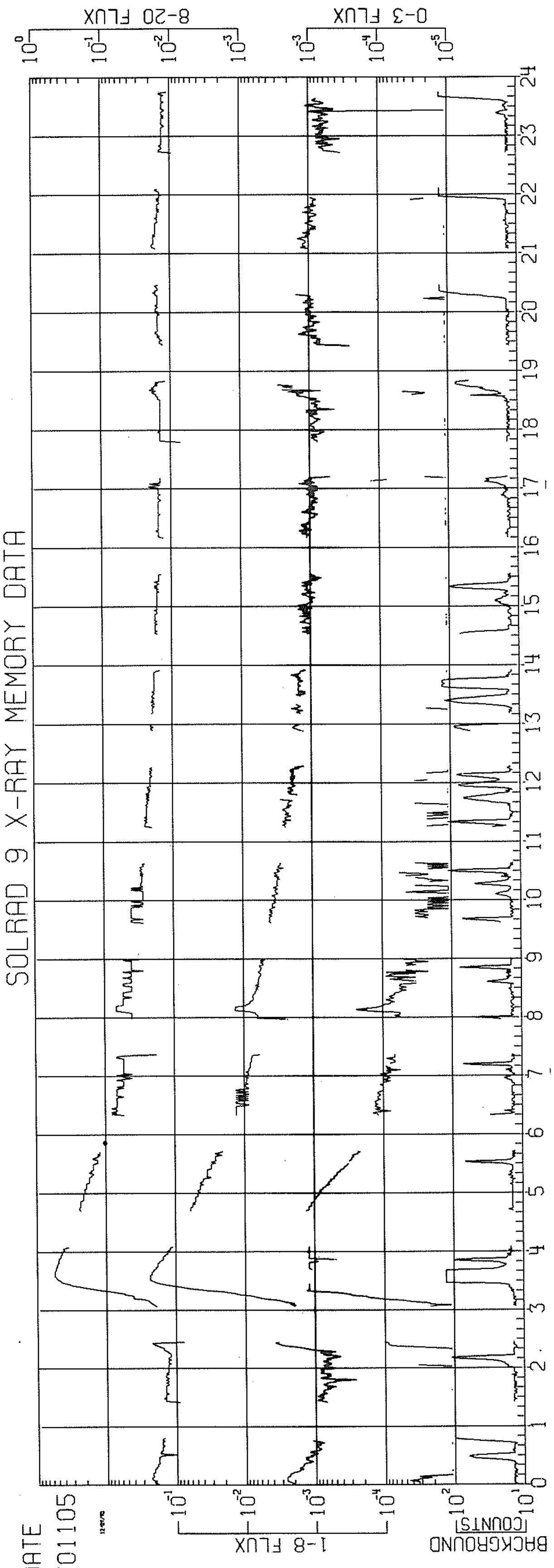


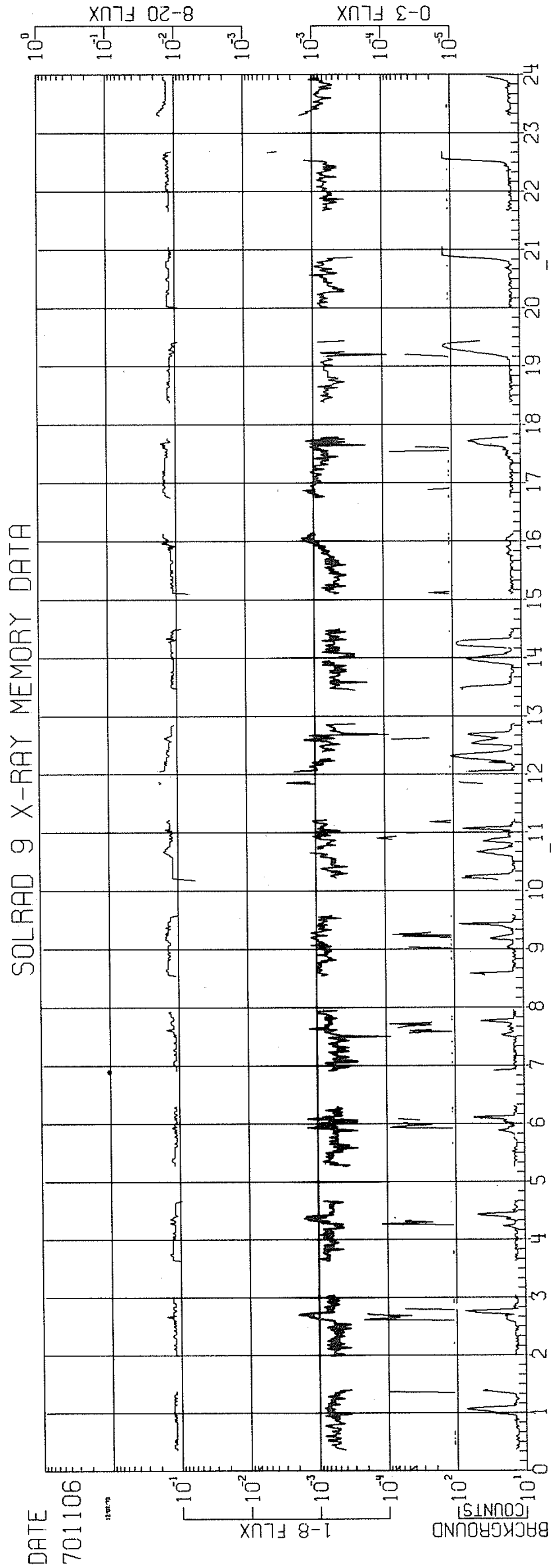
SOLRAD 9 X-RAY MEMORY DATA

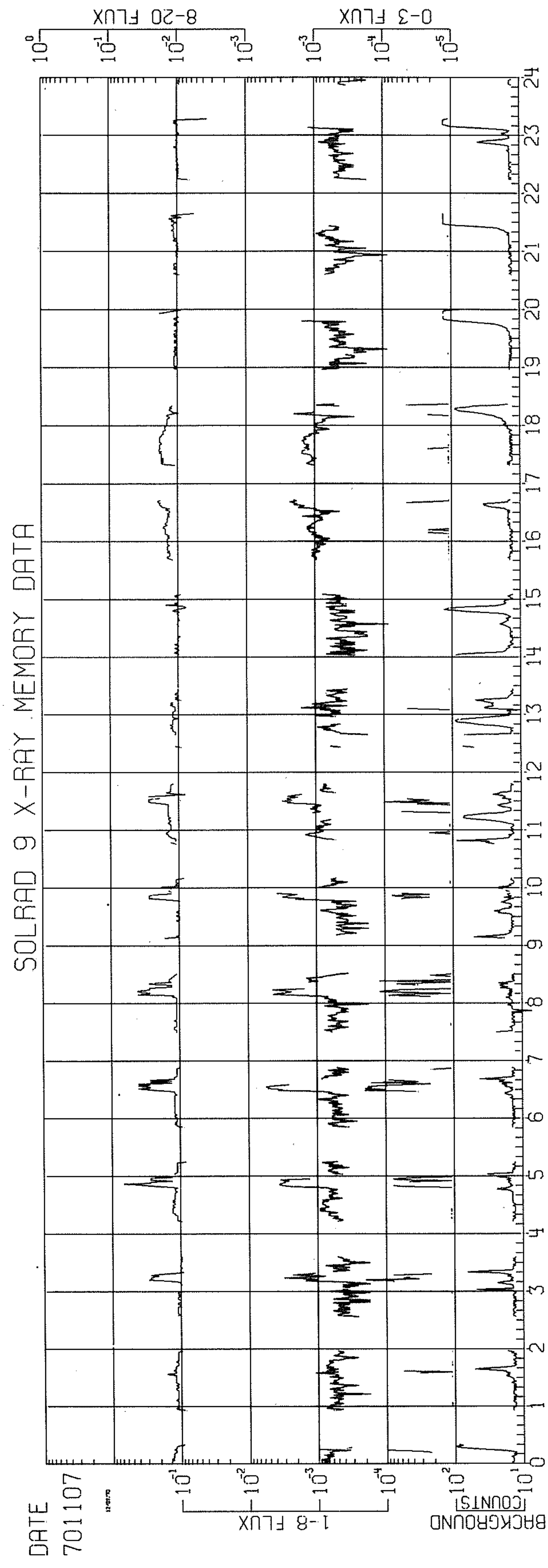


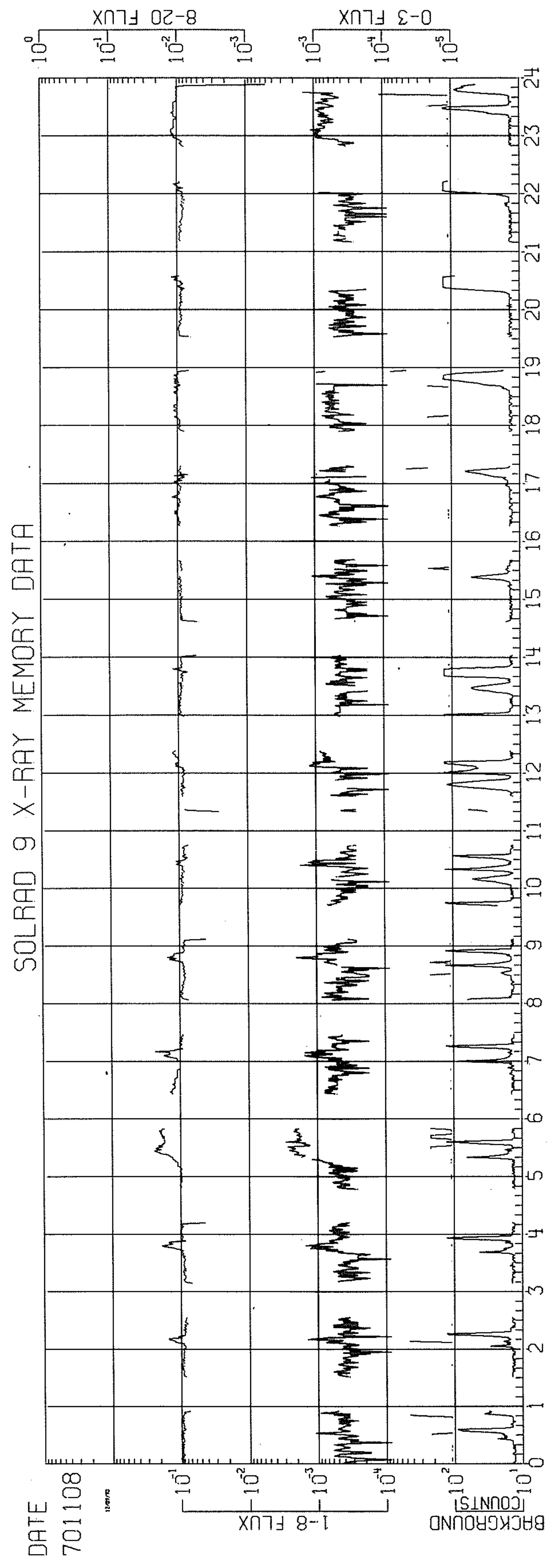

SOLRAD 9 X-RAY MEMORY DATA
DATE
701103
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND [COUNTS]

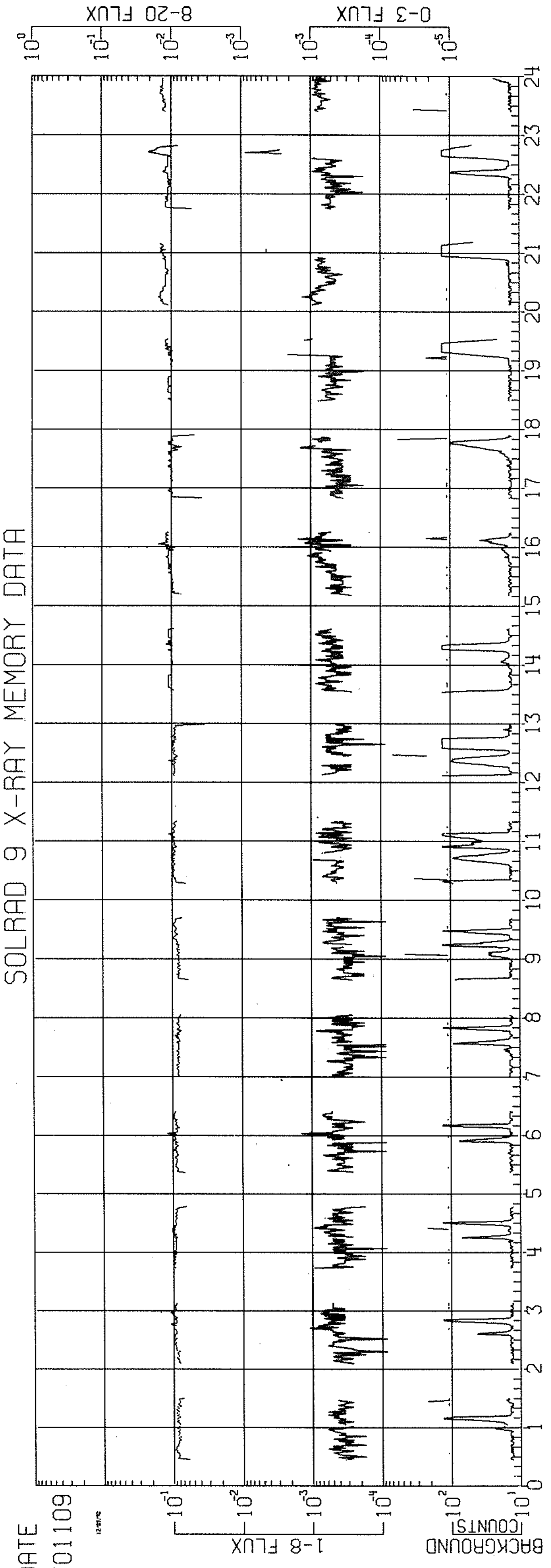

SOLRAD 9 X-RAY MEMORY DATA
DATE
701104
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND [COUNTS]


SOLRAD 9 X-RAY MEMORY DATA
DATE
701105
1-8 FLUX
BACKGROUND (COUNTS)
0-3 FLUX
8-20 FLUX


SOLRAD 9 X-RAY MEMORY DATA
DATE
701106
1-8 FLUX
BACKGROUND (COUNTS)
0-3 FLUX
8-20 FLUX


SOLRAD 9 X-RAY MEMORY DATA
DATE
701107
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)


SOLRAD 9 X-RAY MEMORY DATA
DATE
701108
8-20 FLUX
0-3 FLUX
1-8 FLUX
BACKGROUND
(COUNTS)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1-8 FLUX
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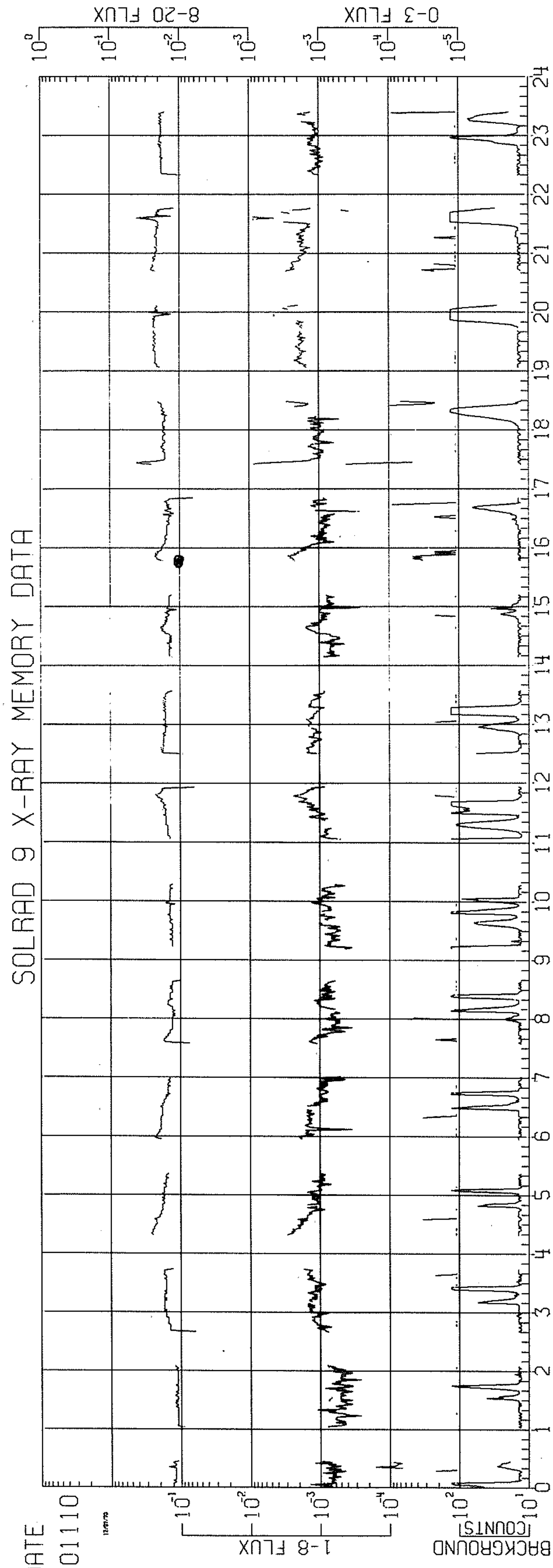
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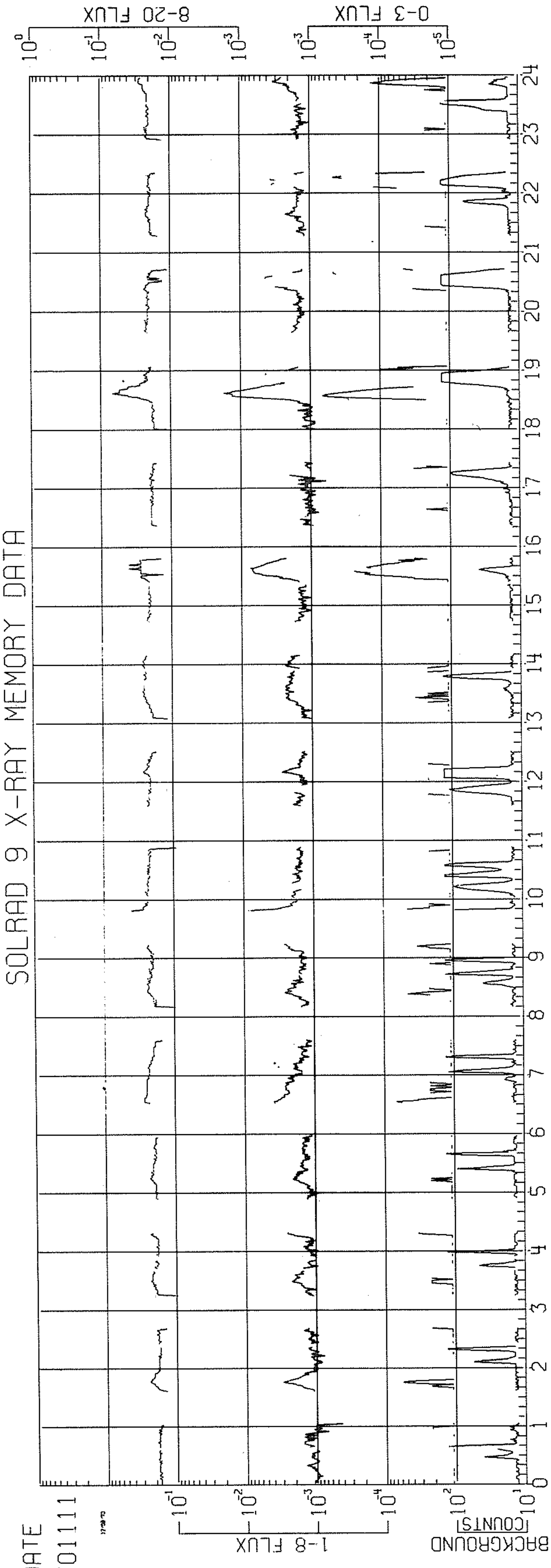
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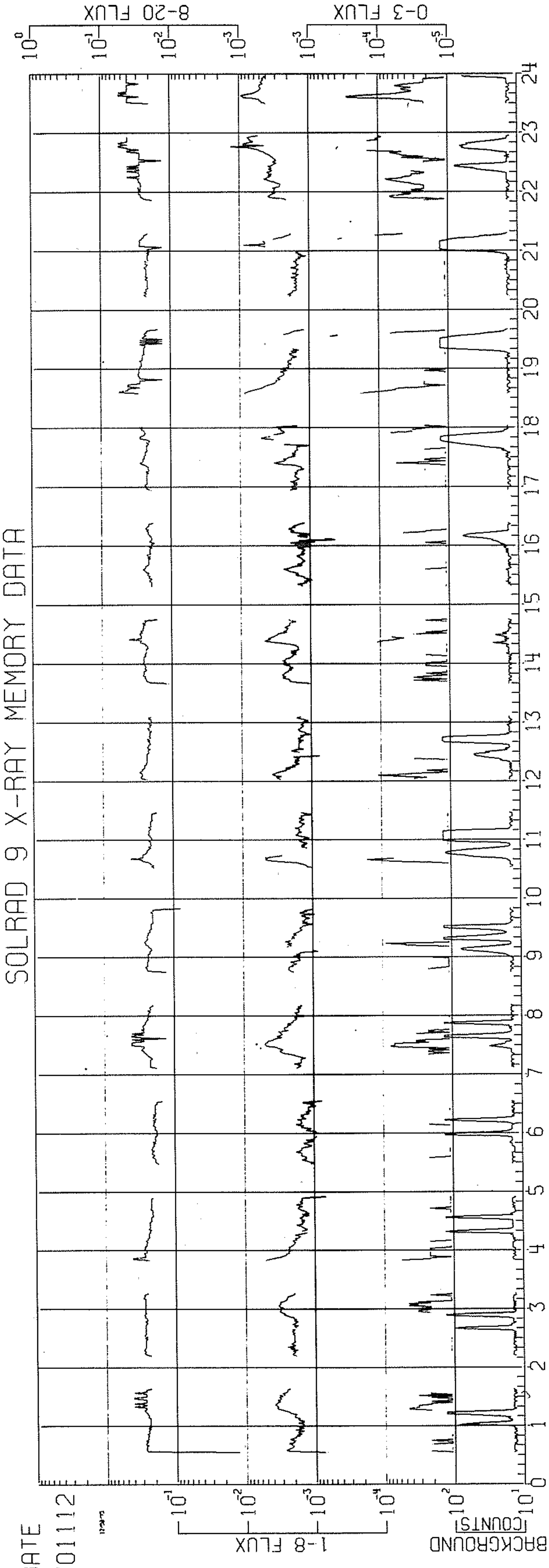
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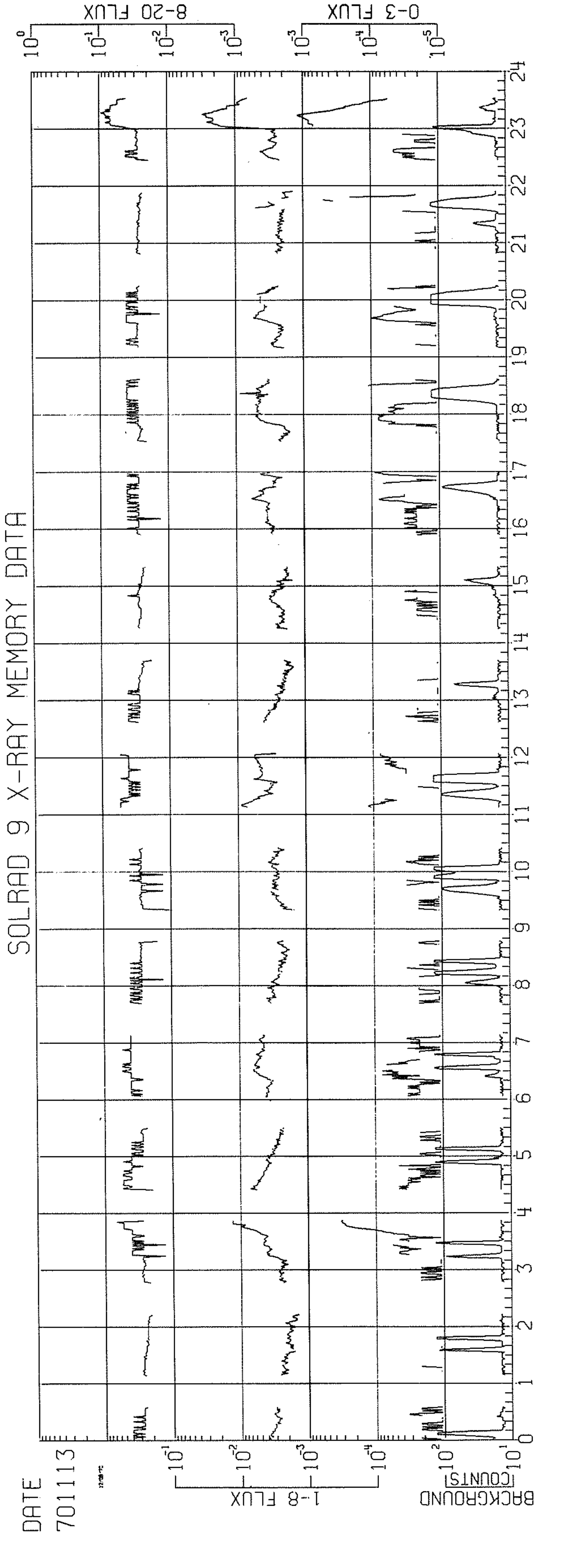
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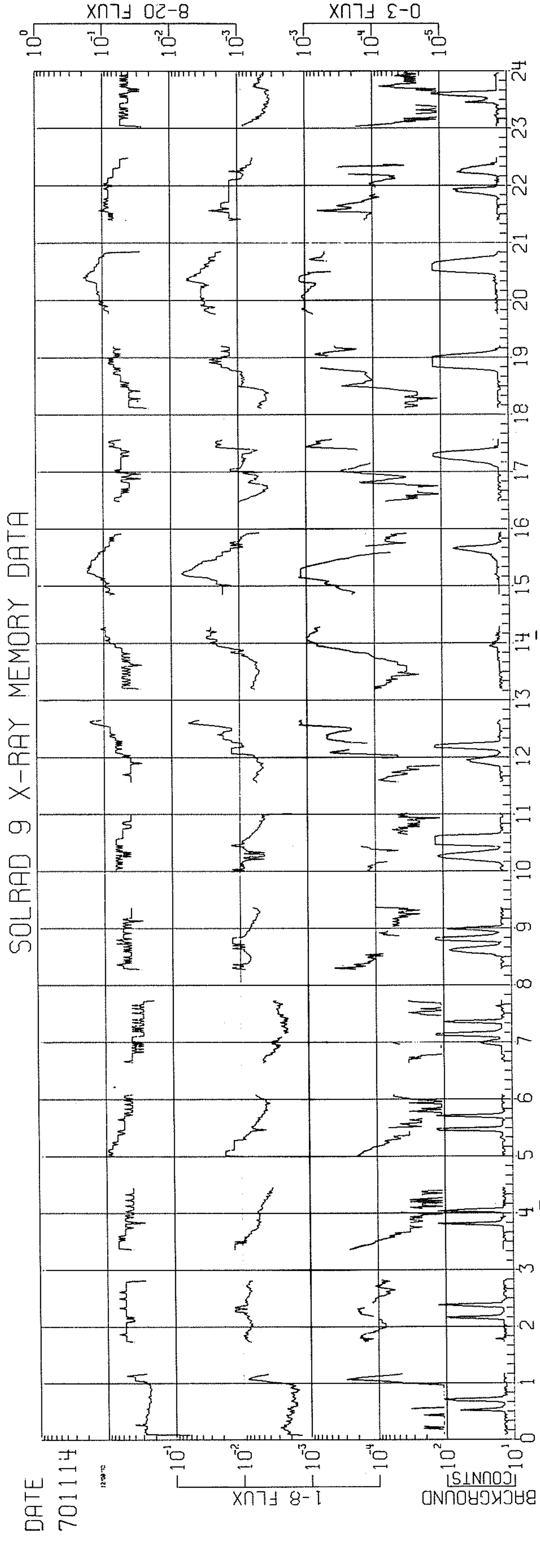
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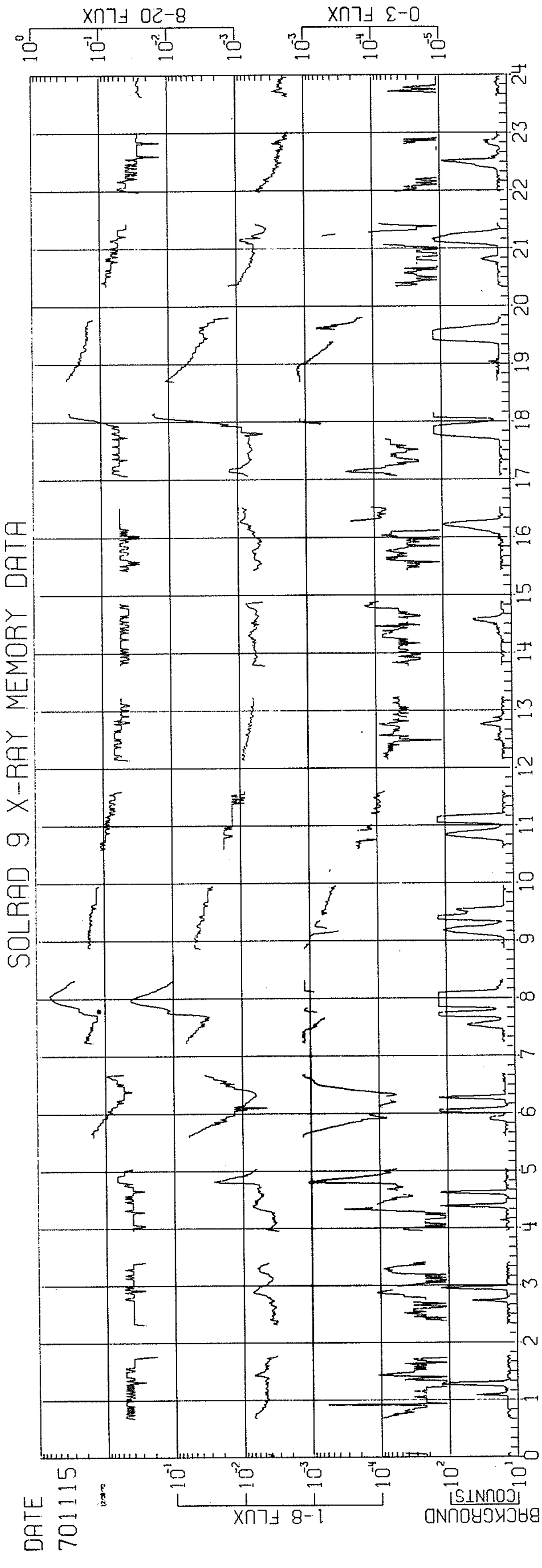
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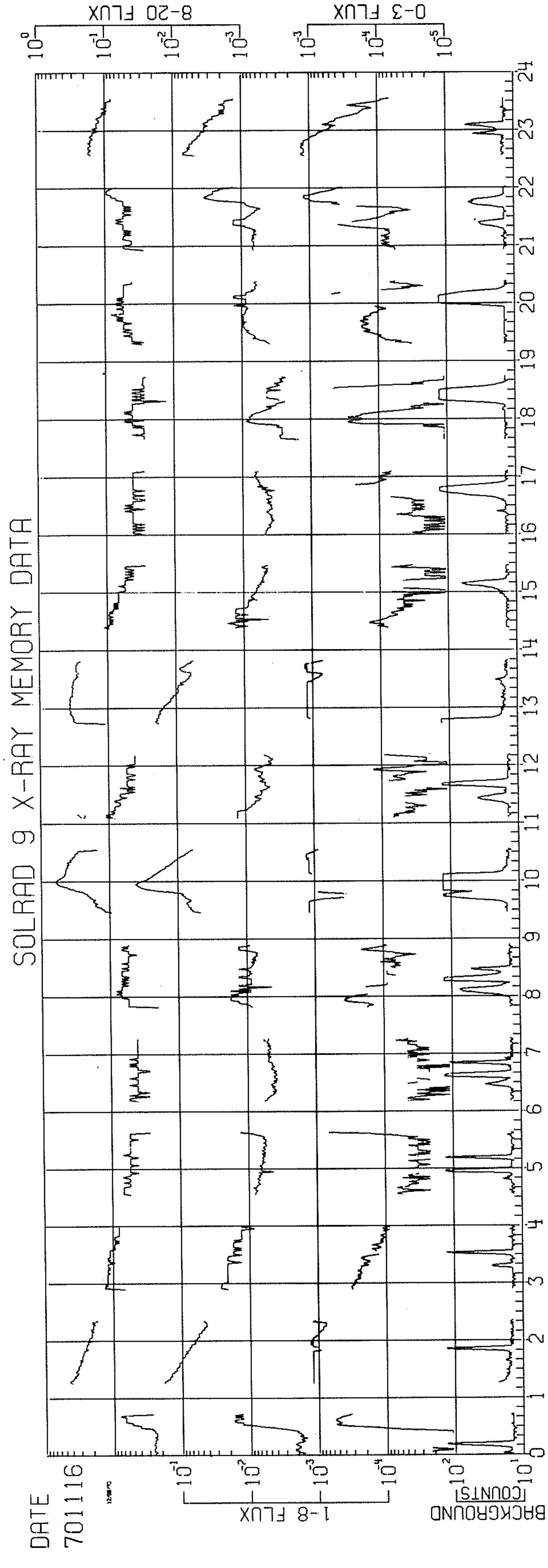
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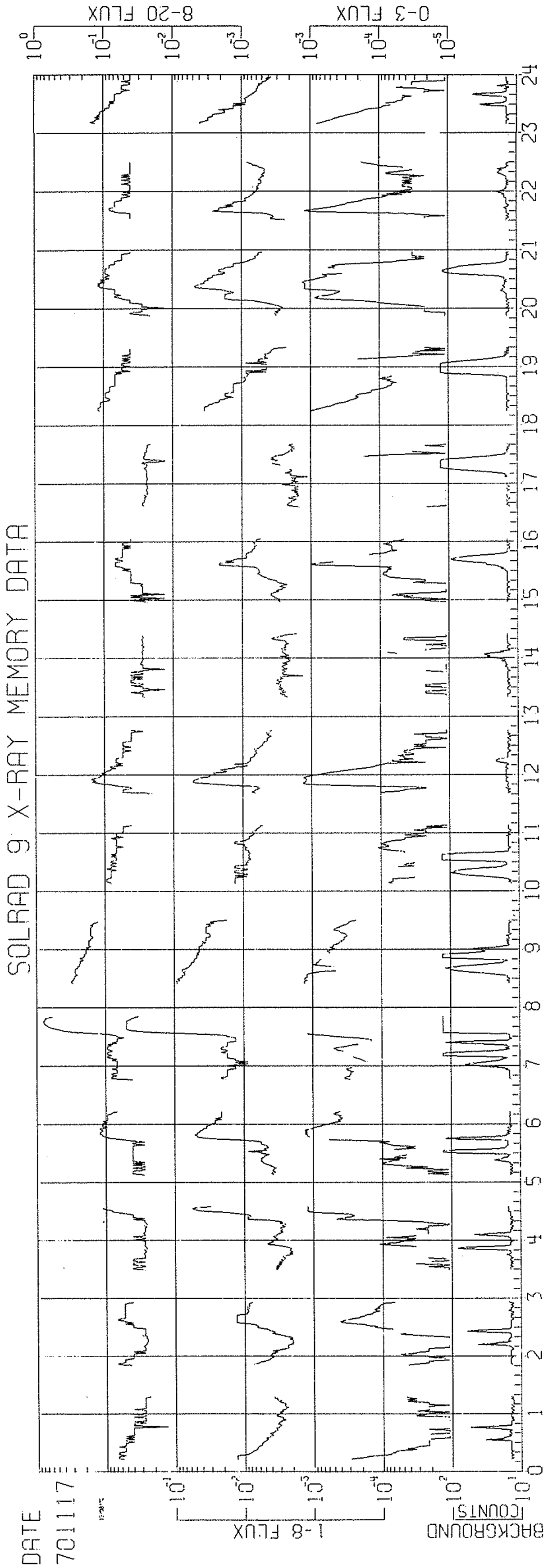
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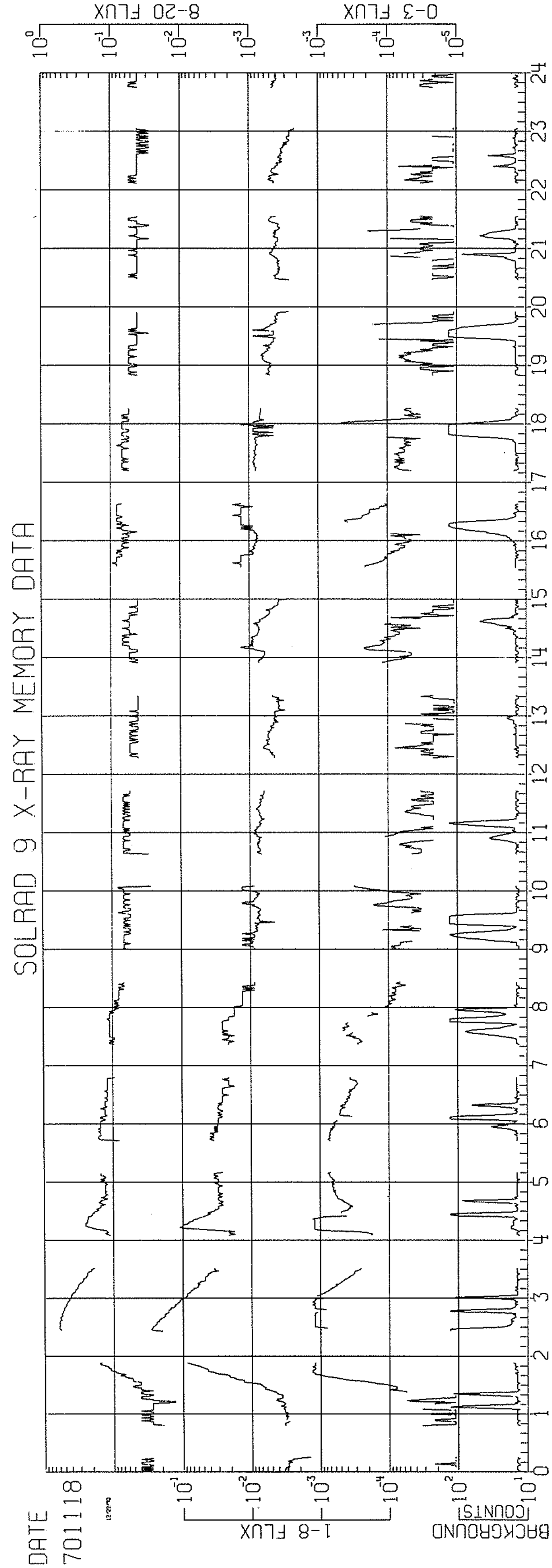
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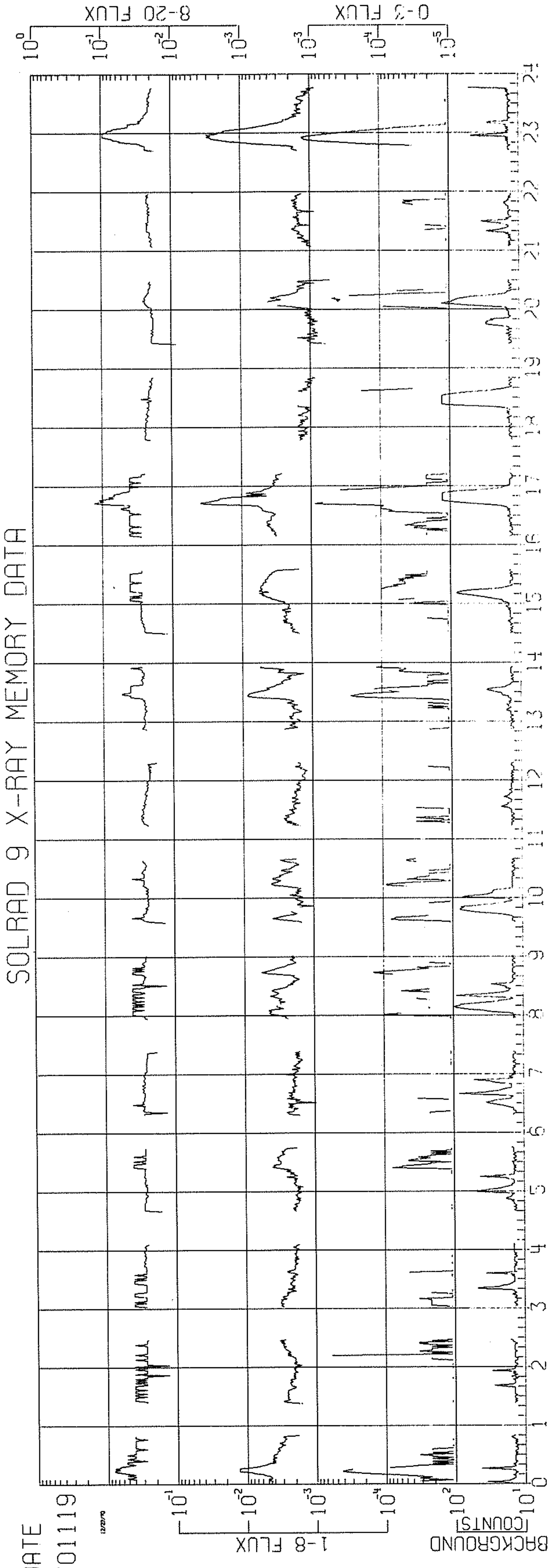
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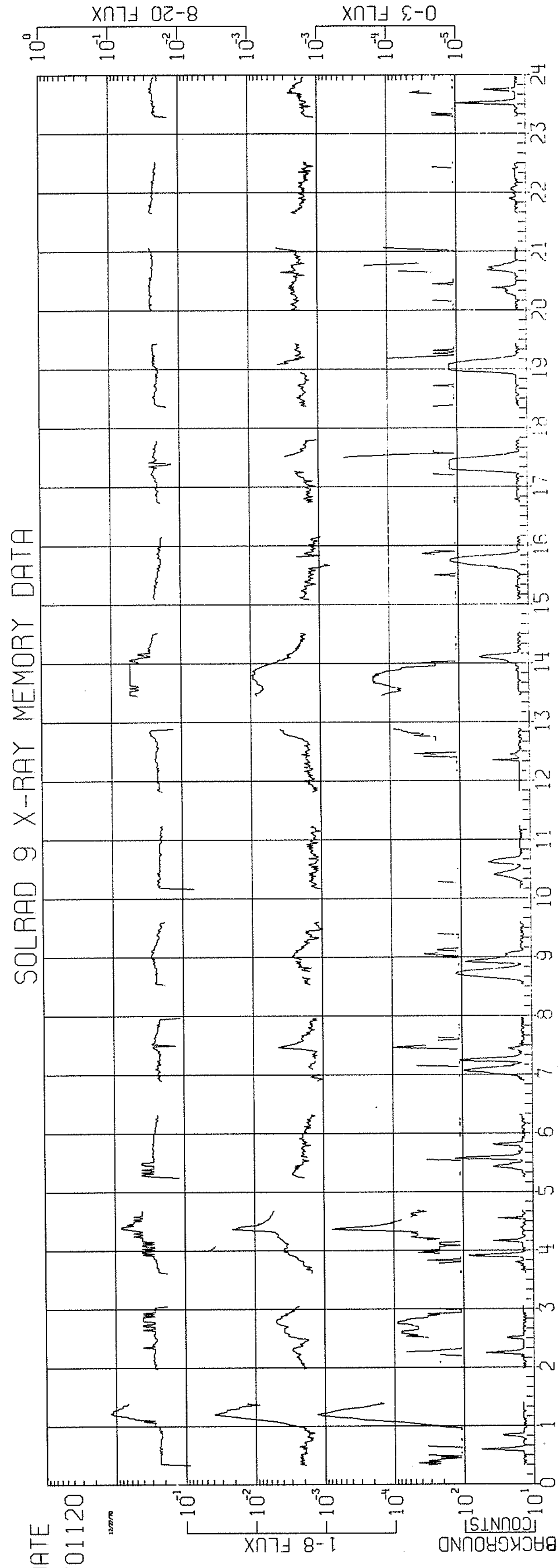
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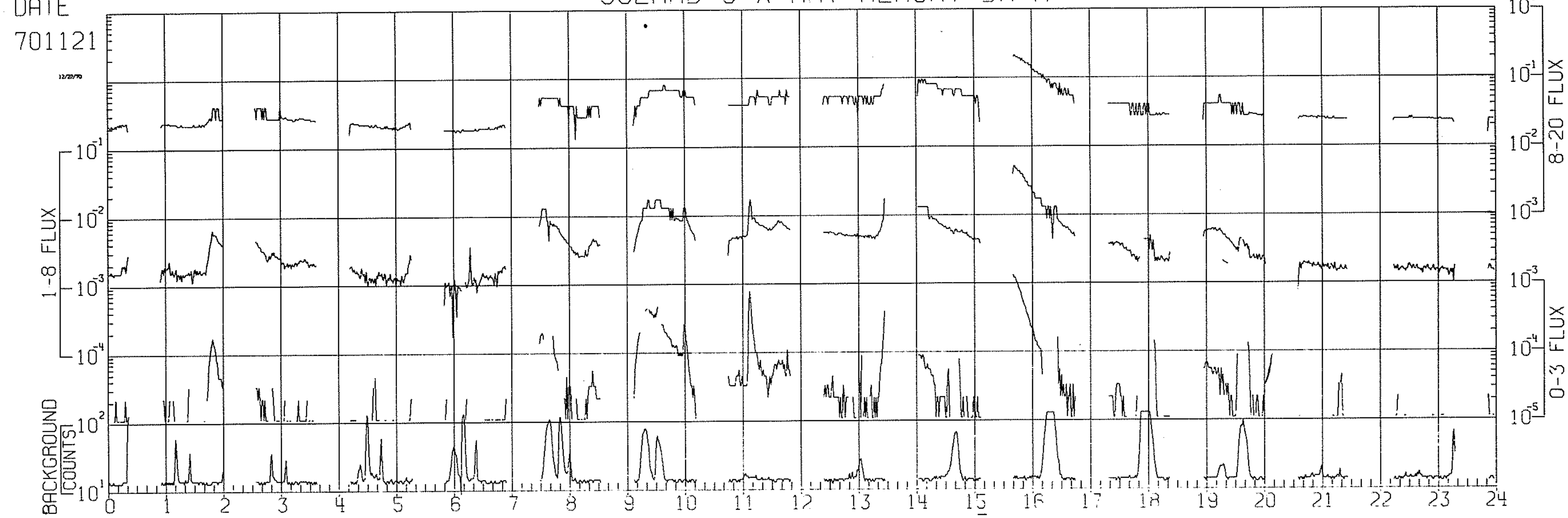

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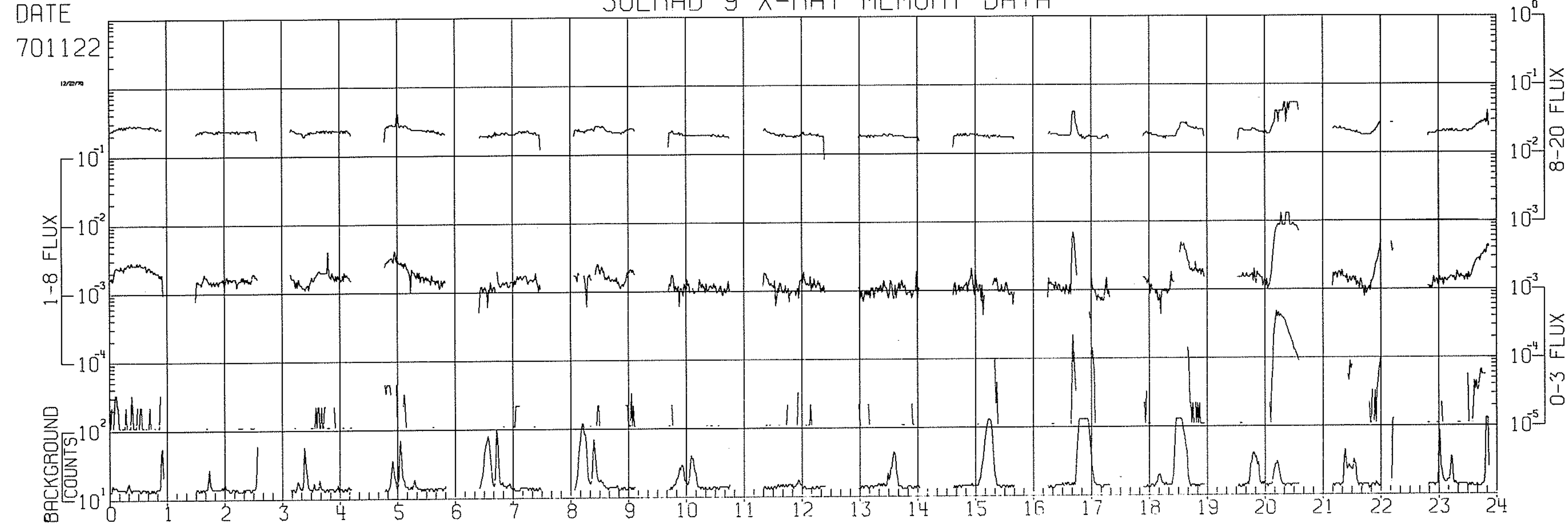

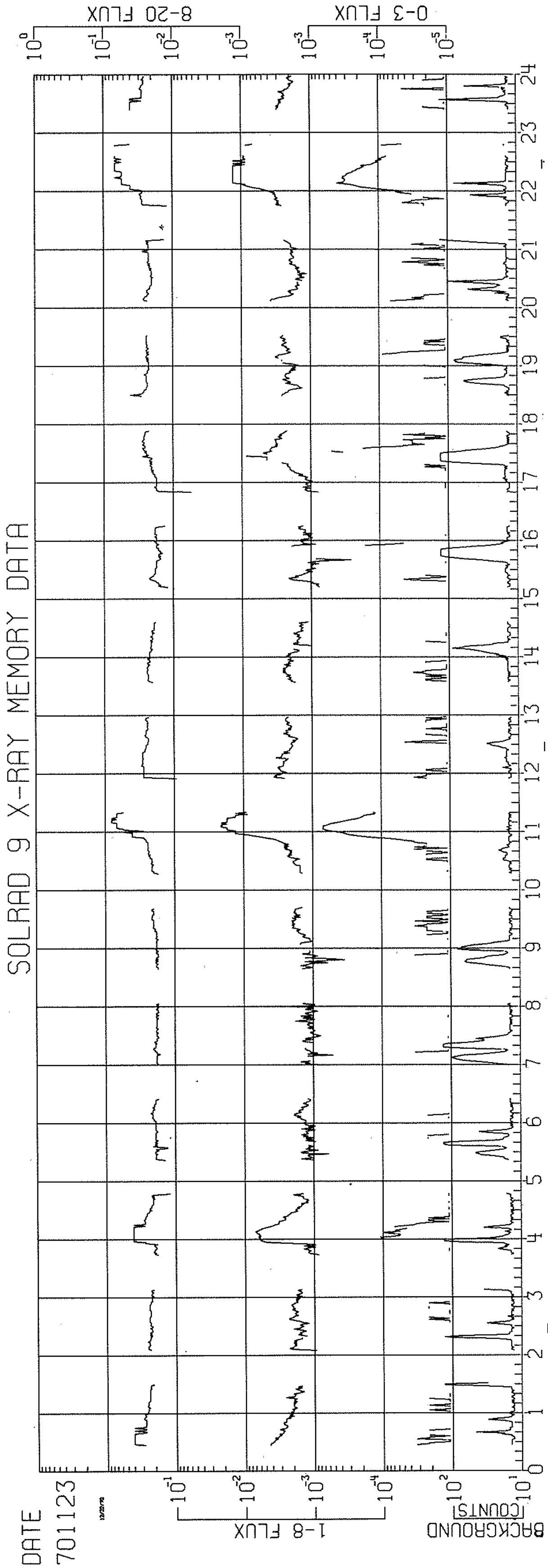
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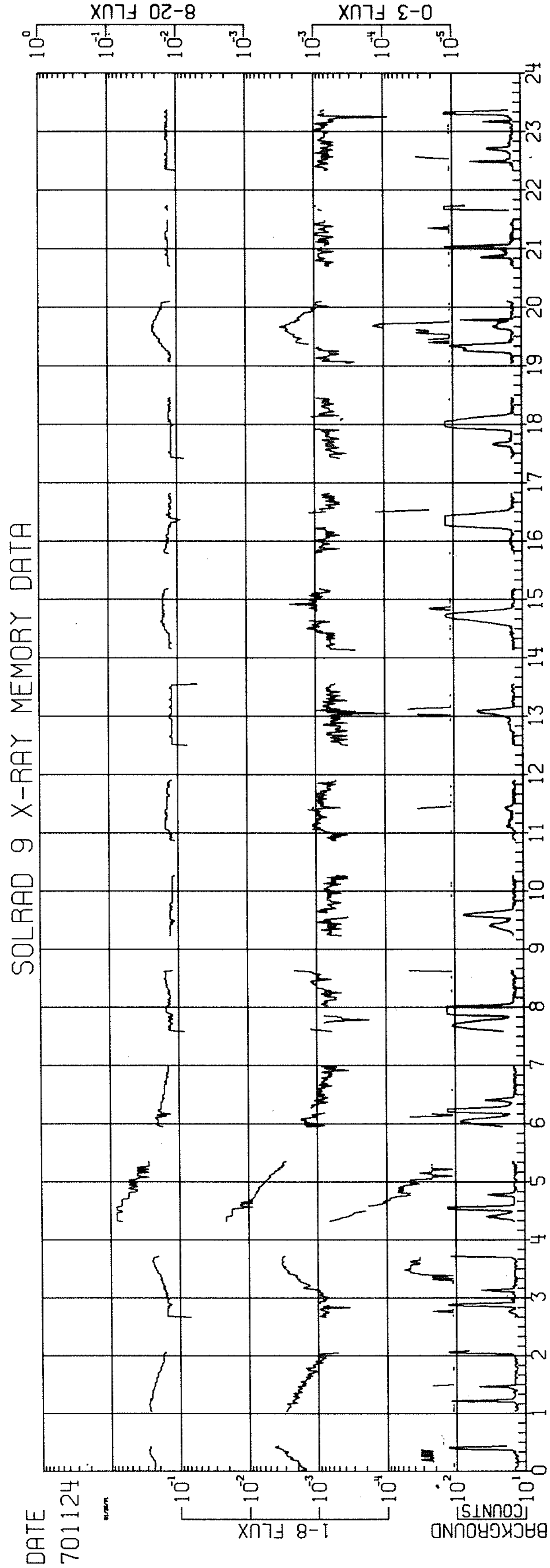
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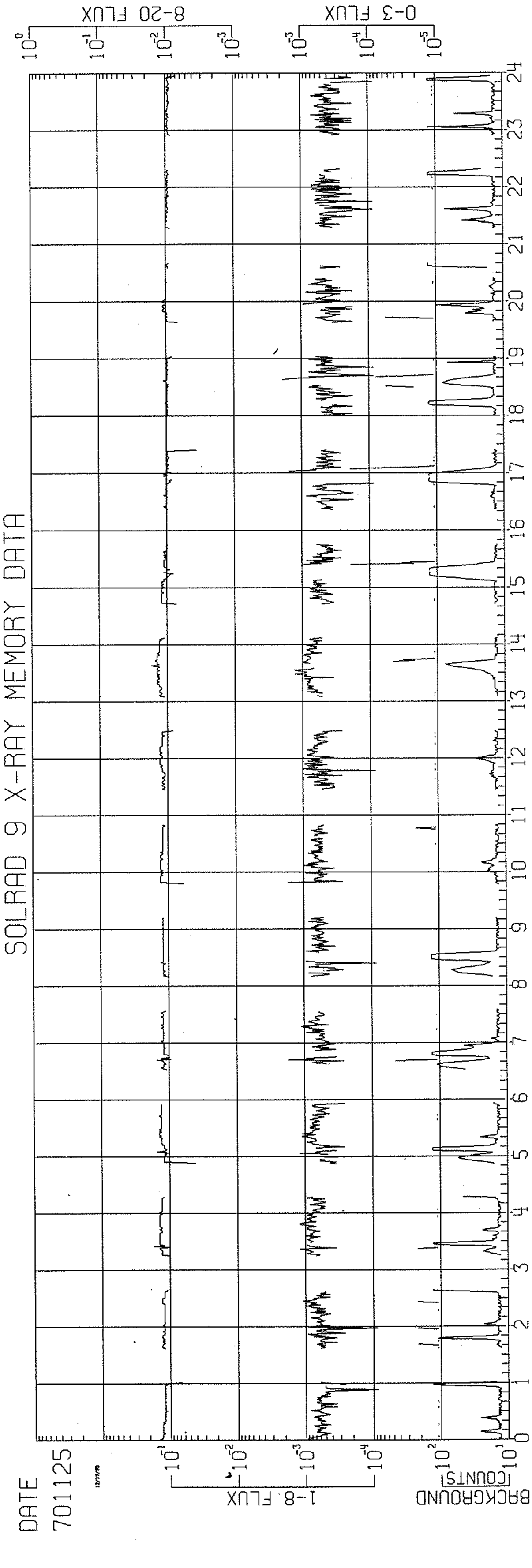
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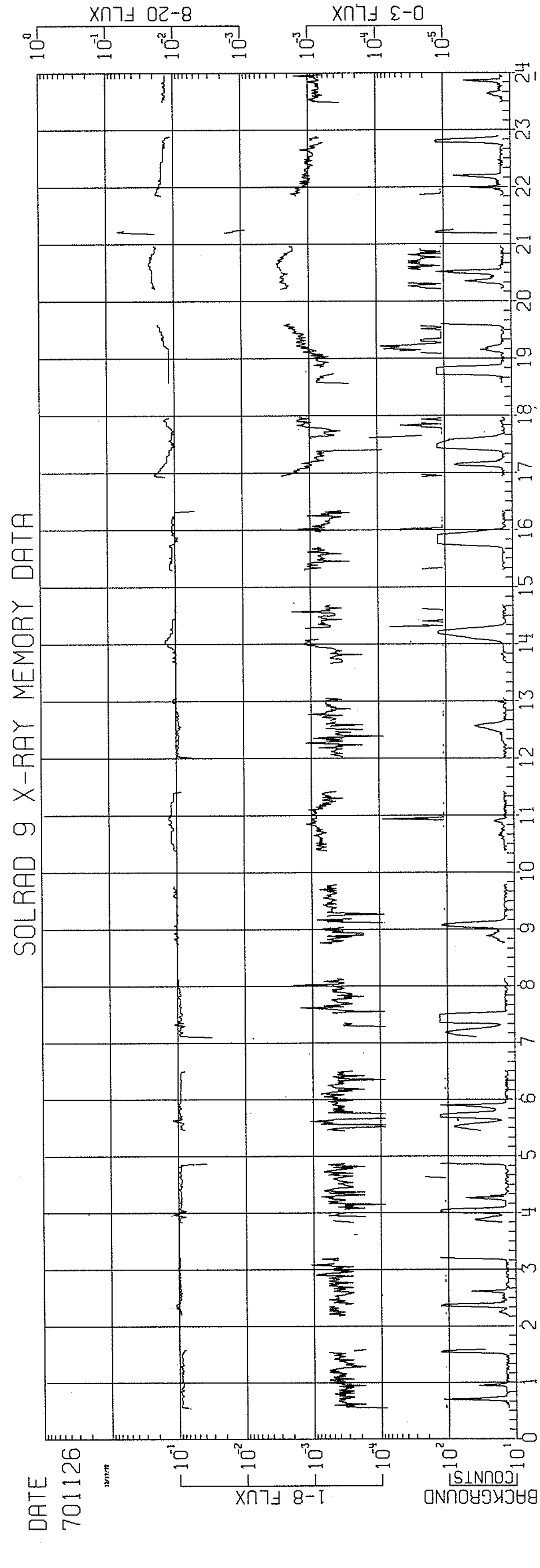
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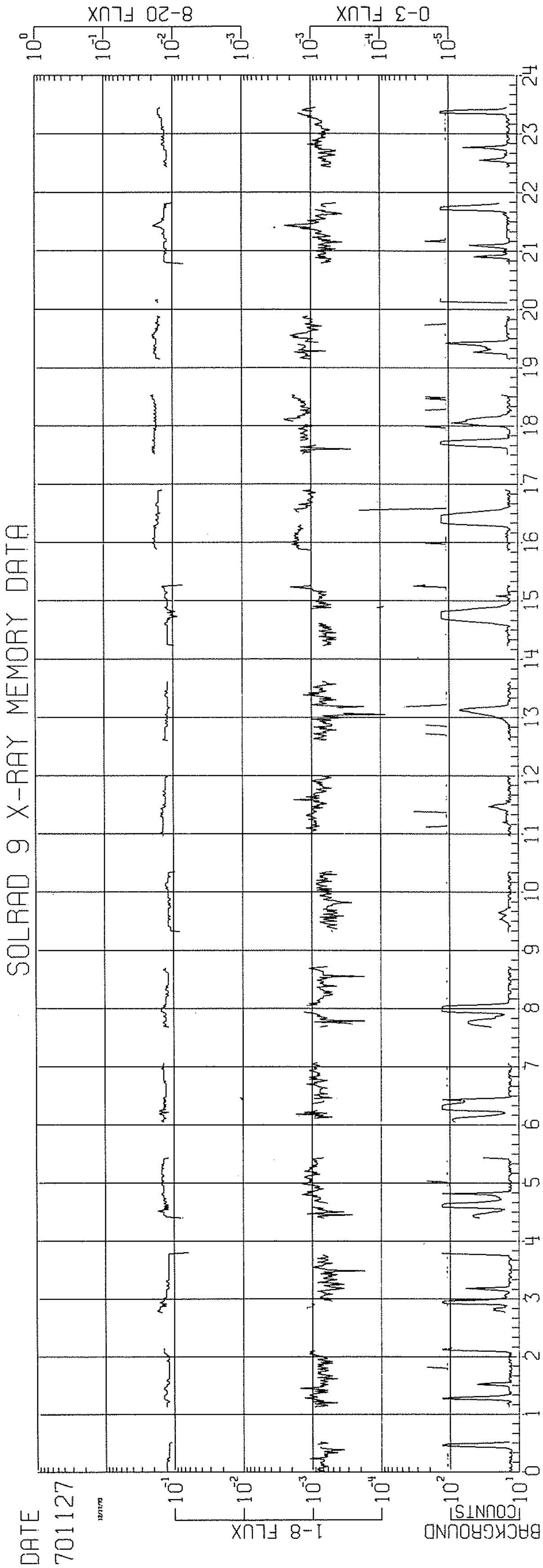
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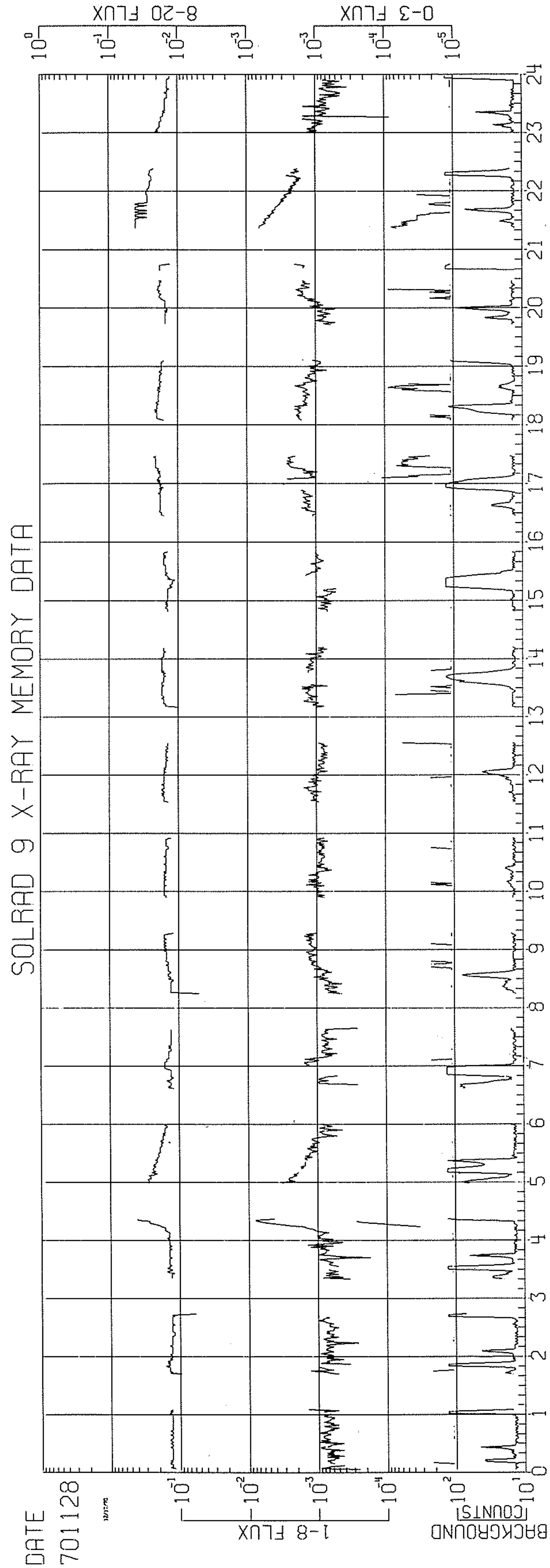
(COUNTS)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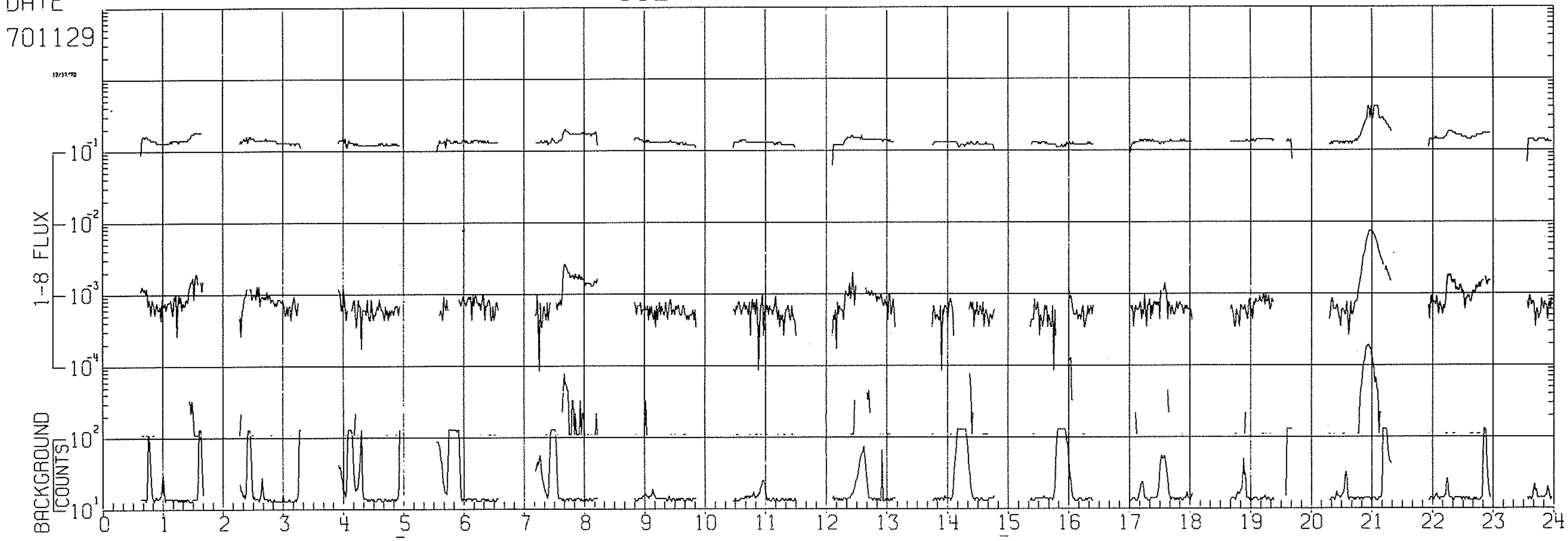

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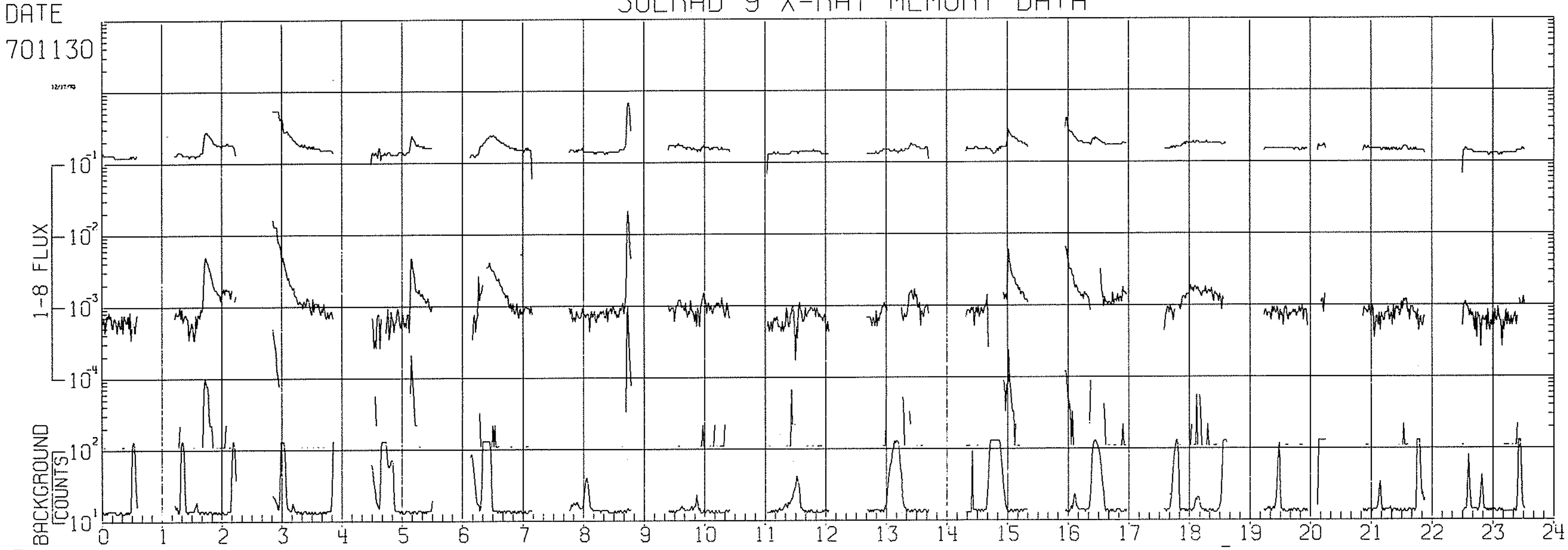


MAGNETOGRAMS OF GEOMAGNETIC STORMS

7 - 8 NOVEMBER 1970

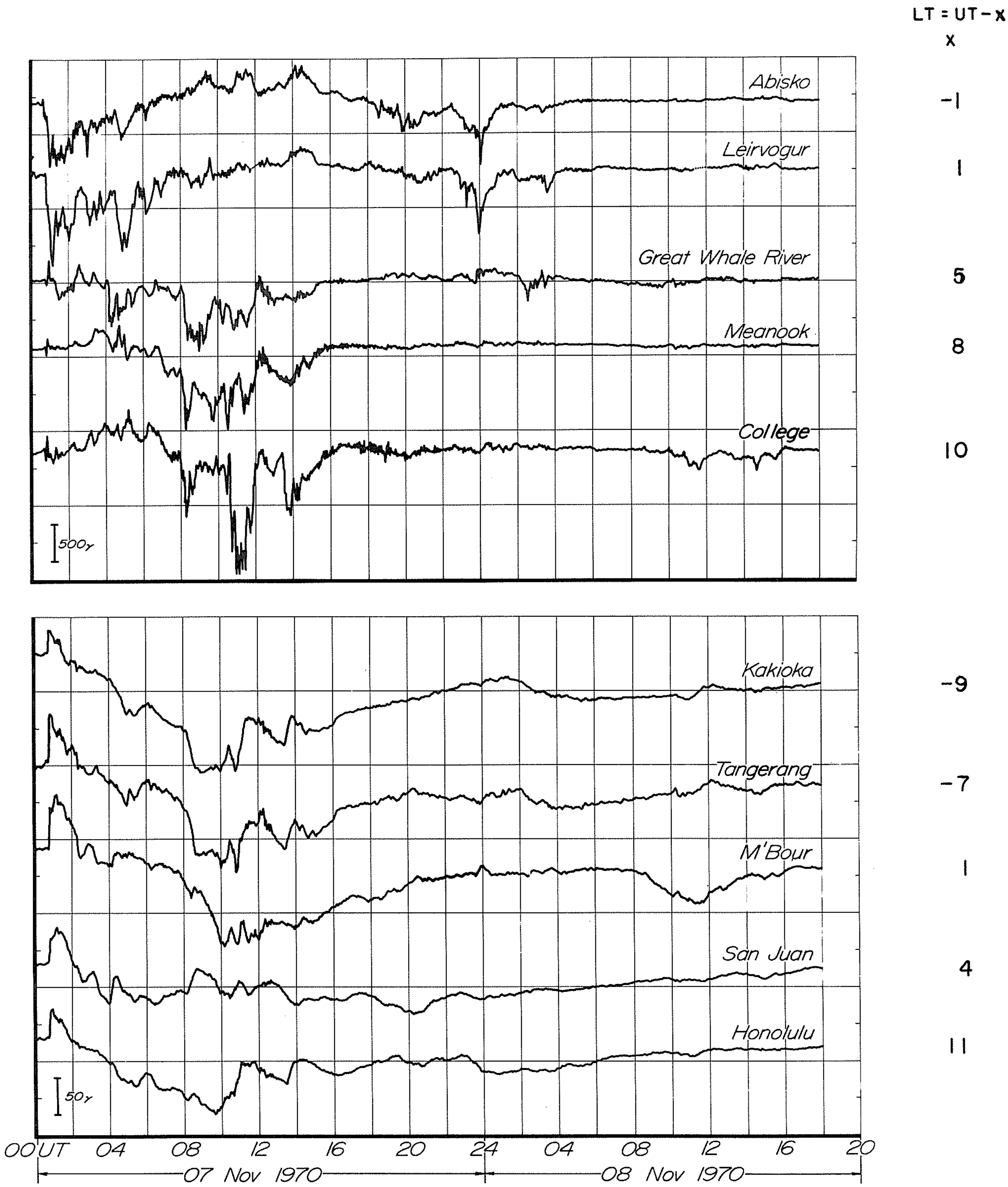
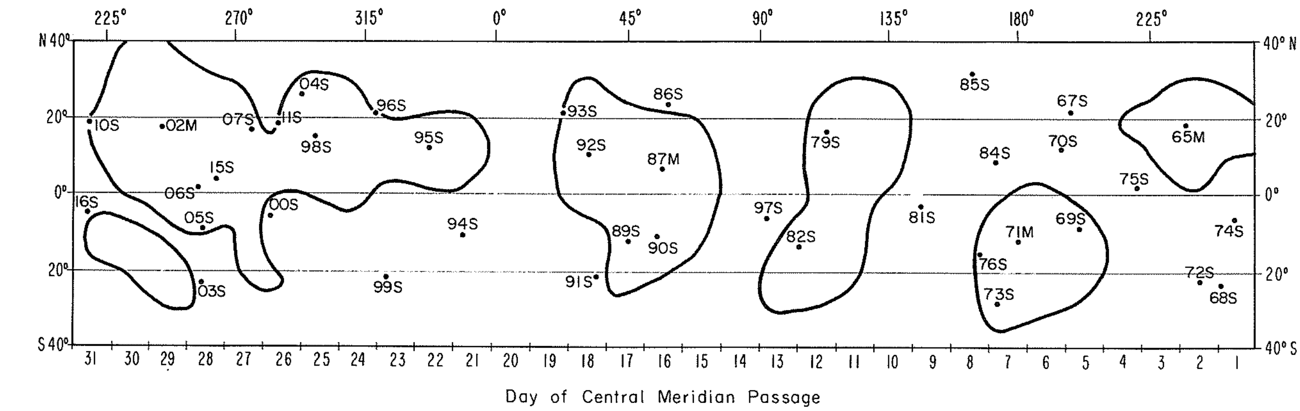


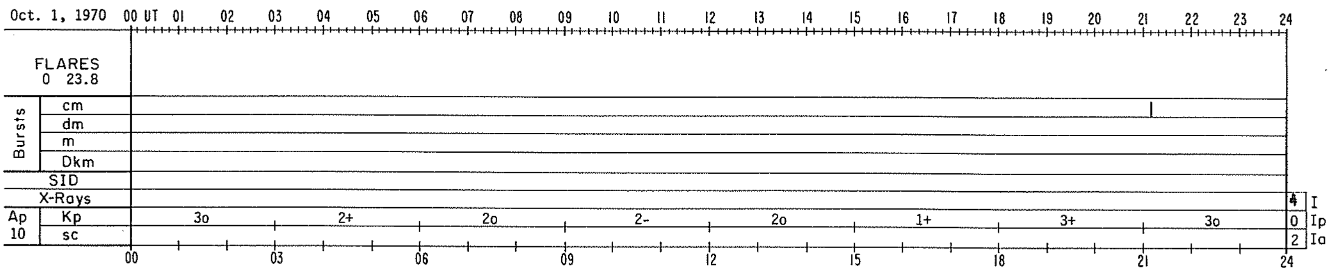
Table of Contents
for October 1970 Data

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

ABBREVIATED CALENDAR RECORD

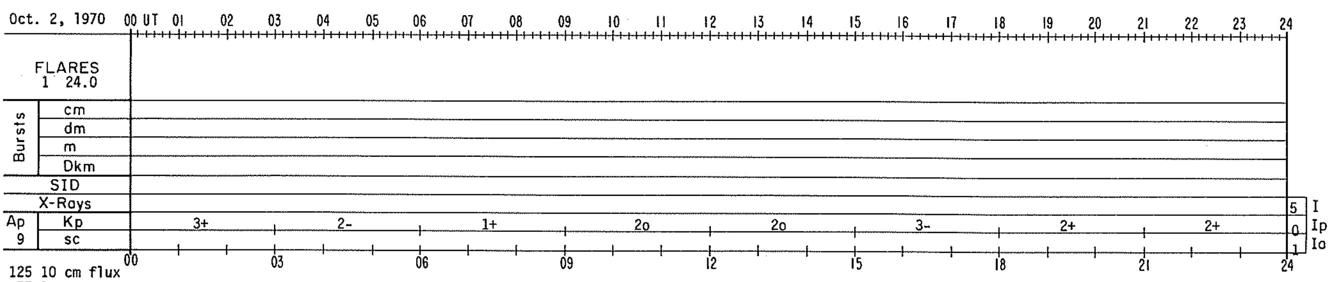
OCTOBER 1970





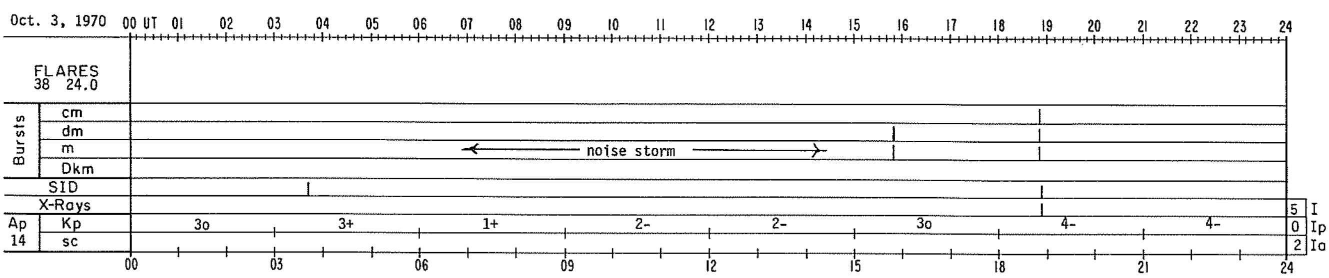
128 10 cm flux
63 Rz (final)
CMP (10974) S07 (18158) S08 (β)1
(10968) S23

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



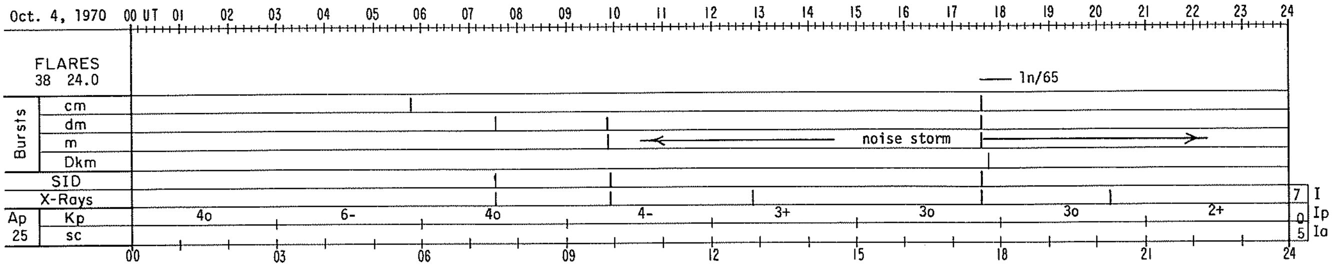
125 10 cm flux
57 Rz
CMP 10972 S23
10965 N19 (5) 18143 N18 (γ)3
18151 N24 (β)1
(18153) N21 (β)2
(18154) N18 (αf)1

Very br. green corona 7 days later on NW limb.



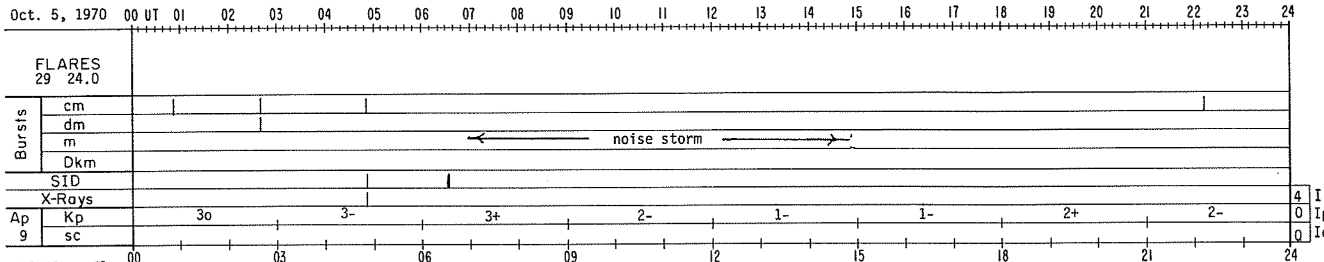
126 10 cm flux
43 Rz

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



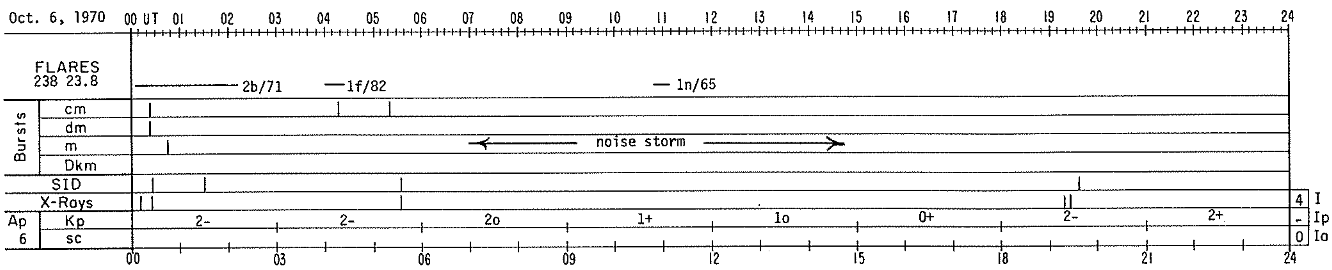
137 10 cm flux
55 Rz
CMP 10975 N02

One of five most magnetically disturbed days with moderate activity; very br. green corona 7 days earlier on NE limb and 7 days later on NW limb.



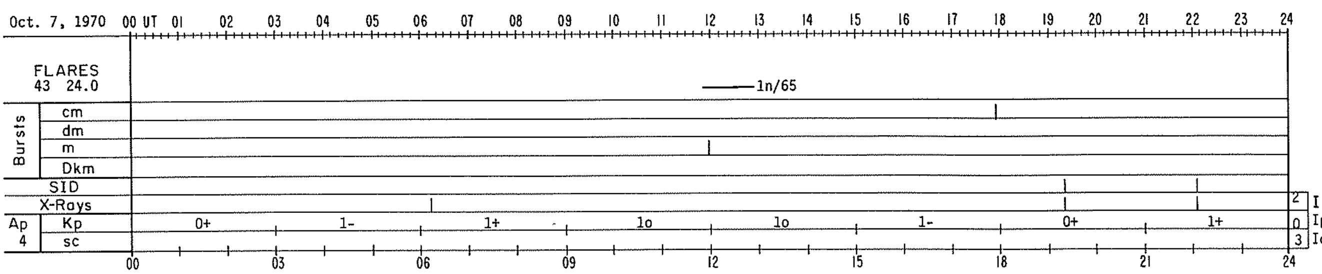
134 10 cm flux
75 Rz
CMP 10969 S09 (3) (18149) S09 (αp)1
(18156) S10 (α) 1 CMP Oct. 4
(18162) S04 (αp)2
10967 N22 (4) (18147) N19 (βp)2 CMP Oct. 6
18160, 67 N16 (βf)2 CMP Oct. 7

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



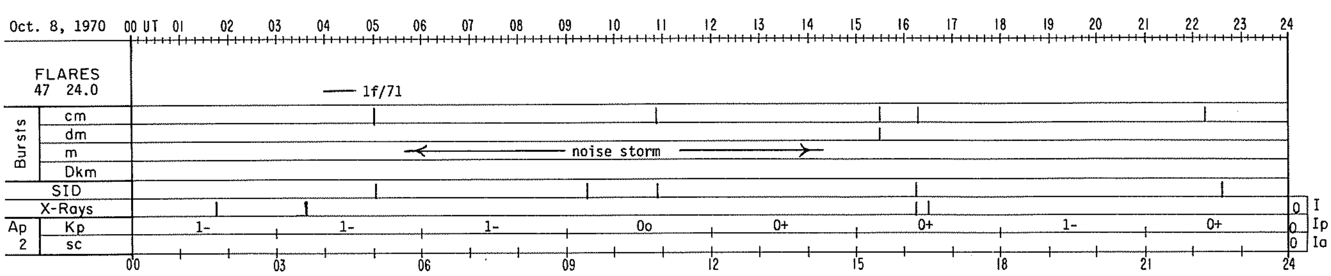
128 10 cm flux
53 Rz
CMP (10970) N12

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



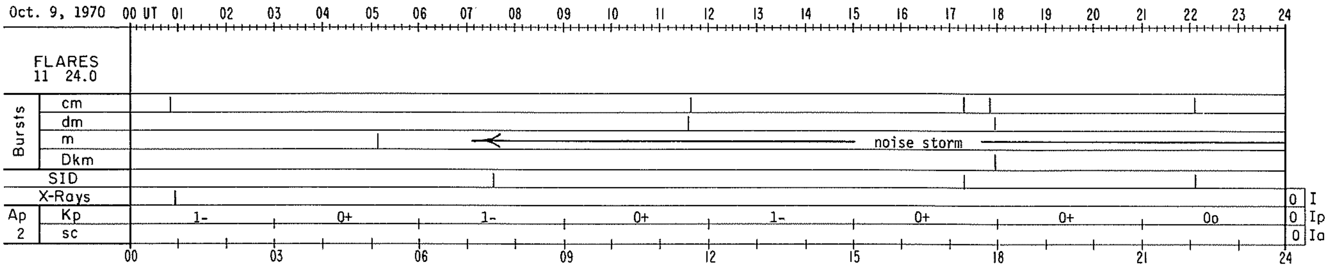
133 10 cm flux
72 Rz
CMP 10971 S12 18150 S12 ($\beta\gamma$)5
10973 S29
(10984) N09

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



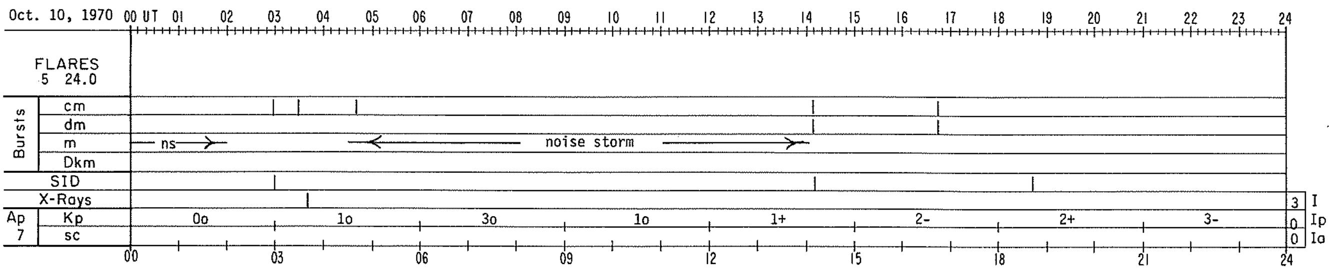
142 10 cm flux
76 Rz
CMP (10976) S15
10985 N32

One of five most magnetically quiet days with very low activity; no coronal data 7 days earlier on E. limb, moderately br. green corona 7 days later on SW limb.



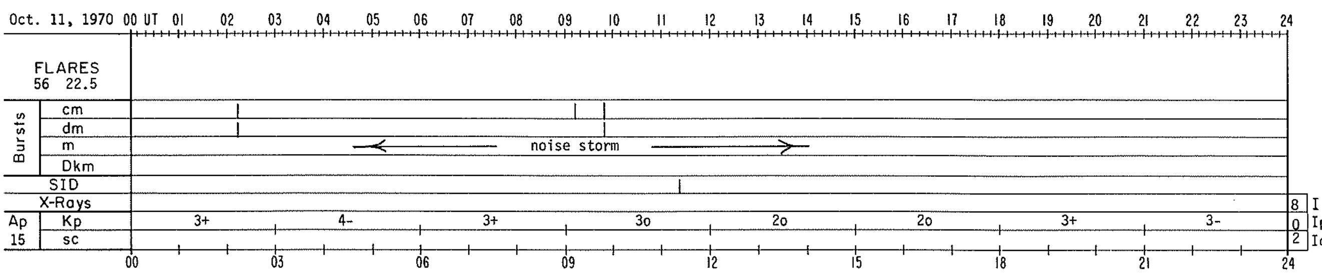
145 10 cm flux
78 Rz
CMP (10981) S04

One of five most magnetically quiet days with very low activity.



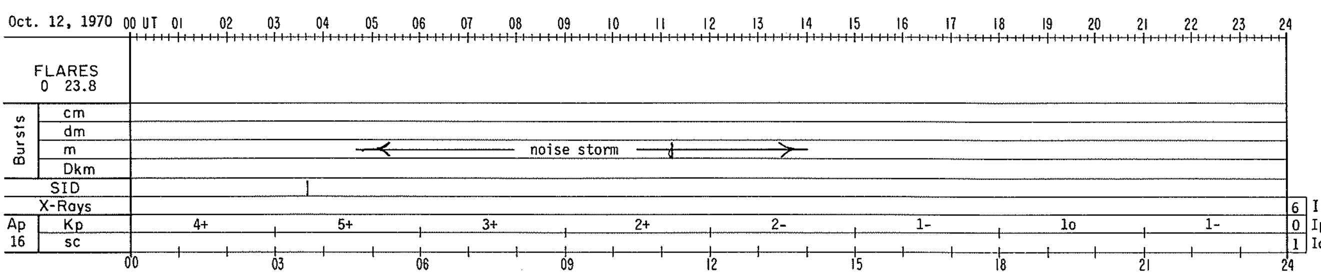
148 10 cm flux
79 Rz

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



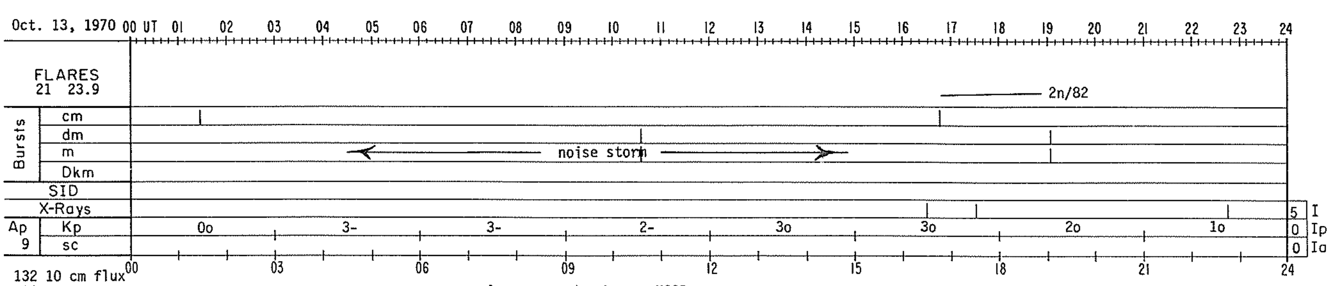
143 10 cm flux
75 Rz

Aurora overhead over USSR at ϕ = 58° 0200; br. green corona 7 days earlier on NE limb, moderately br. green corona 7 days earlier on SW limb.



136 10 cm flux
80 Rz
CMP 10979 N16 (2) 18157 N17 (βp)4 CMP Oct. 11
18161 N19 (βp)5 CMP Oct. 11

Aurora overhead over USSR at ϕ = 59° 0300, 2300-2400; 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.



132 10 cm flux
84 Rz
CMP 10982 S13 (2&1) 18159 S13 (βp)2 CMP Oct. 12
18163 S13 (β)3 CMP Oct. 11
18168 S11 (αp)1
(18171) S10 αf CMP Oct. 14
(10997) S07

Aurora overhead over USSR at ϕ = 59° 0000-0300; very br. green corona 7 days earlier on SE limb, moderately br. green corona 7 days earlier on NE limb, br. green corona 7 days later on NW and SW limb.

Oct. 14, 1970 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES
67 24.0

— 1n/87

Bursts: cm, dm, m, Dkm

m: noise storm

SID
X-Rays

Ap	Kp	3o	3+	2o	1+	1o	1o	1o	1+	1 I
8	sc									0 Ip / 0 Ia

00 03 06 09 12 15 18 21 24

136 10 cm flux
87 Rz

Moderately br. green corona 7 days earlier on NE limb and 7 days later on NW and SW limb.

Oct. 15, 1970 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES
86 24.0

Bursts: cm, dm, m, Dkm

m: noise storm

SID
X-Rays

Ap	Kp	2o	1+	1-	0+	1-	0+	1o	1o	2 I
4	sc									0 Ip / 0 Ia

00 03 06 09 12 15 18 21 24

141 10 cm flux
87 Rz

One of five most magnetically quiet days; aurora overhead over USSR at ϕ = 59° 2300-2400; moderately br. green corona 7 days earlier on NE limb, no coronal data 7 days later on W. limb.

Oct. 16, 1970 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES
29 24.0

Bursts: cm, dm, m, Dkm

m: noise storm

SID
X-Rays

Ap	Kp	0+	0+	1o	5+	5+	6o	6o	3+	8 I
37	sc				▲ 0917(59)					0 Ip / 2 Ia

00 03 06 09 12 15 18 21 24

135 10 cm flux
94 Rz
CMP 10986 N24 (2)
10987 N06 (2) (18164) N06 (αp)1
18165 N10 (δ)4 CMP Oct. 17
18169 N04 (βp)4
10990 S12

One of five most magnetically disturbed days, with moderate storm beginning with sc at 0917; aurora overhead over USSR at ϕ = 60° 1800, ϕ = 55° 2200-2300 and ϕ = 59° 2300-2400; cosmic ray decrease of about 5% begins near middle of day, reaches a maximum near 2400 and returns to normal on Oct. 21; br. green corona 7 days earlier on NE limb.

Oct. 17, 1970 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES
4 24.0

Bursts: cm, dm, m, Dkm

SID
X-Rays

Ap	Kp	4o	3o	4-	3+	3o	5o	5o	6o	8 I
34	sc									0 Ip / 3 Ia

00 03 06 09 12 15 18 21 24

132 10 cm flux
84 Rz
CMP 10989 S13 18170 S13 (β)2

One of five most magnetically disturbed days, with storm becoming moderately severe near end of day; aurora overhead over USSR at ϕ = 55° 0100-0300 and ϕ = 59° 2300; br. green corona 7 days earlier on NE limb, moderately br. green corona 7 days earlier on SE limb and 7 days later on NW limb.

Oct. 18, 1970 00 UT 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FLARES
17 23.2

Bursts: cm, dm, m, Dkm

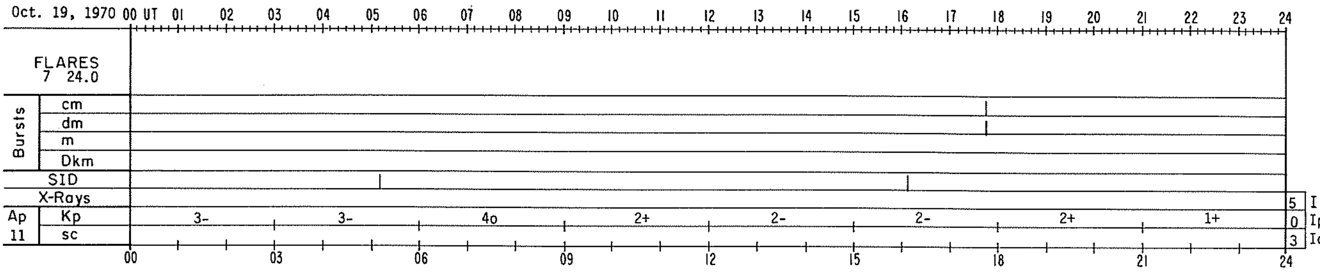
SID
X-Rays

Ap	Kp	6o	7-	5-	3o	3o	4o	2-	3+	8 I
39	sc									0 Ip / 5 Ia

00 03 06 09 12 15 18 21 24

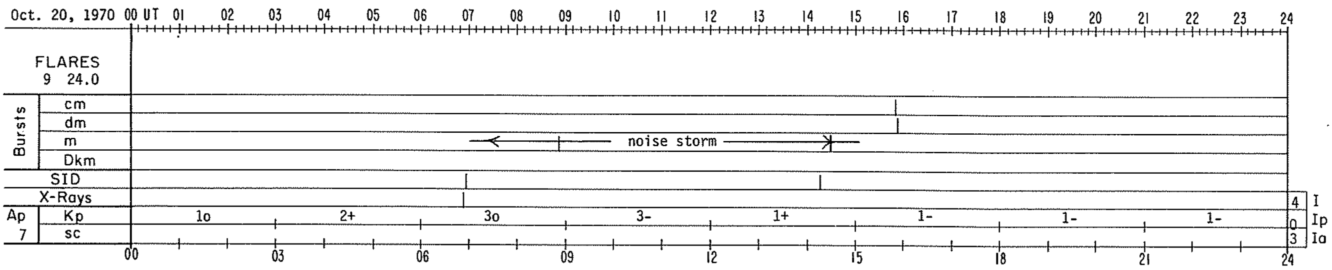
140 10 cm flux
76 Rz
CMP 10991 S21 (4)
10992 N10 18173 N10 (βp)4

One of five most magnetically disturbed days, with moderately severe storm through 0900; aurora overhead over USSR at ϕ = 57° 0000, at ϕ = 58° 0100-0200, at ϕ = 59° 0300-0400 and 2300, aurora overhead over N. America at ϕ = 56° 0000-0500 and ϕ = 59° 0600-1100; moderately br. green corona 7 days earlier on NE and SE limb, no coronal data 7 days later on W. limb.



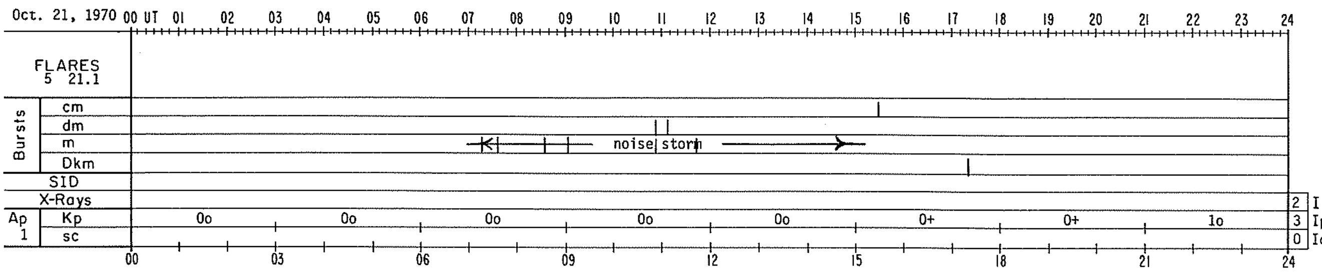
140 10 cm flux
83 Rz
CMP 10993 N21 (2) 18166 N17 (βp)5 CMP Oct. 18

Aurora overhead over USSR at ϕ = 59° 0000-0100 and 0300-0400; moderately br. green corona 7 days earlier on NE limb, no coronal data 7 days later on W. limb.



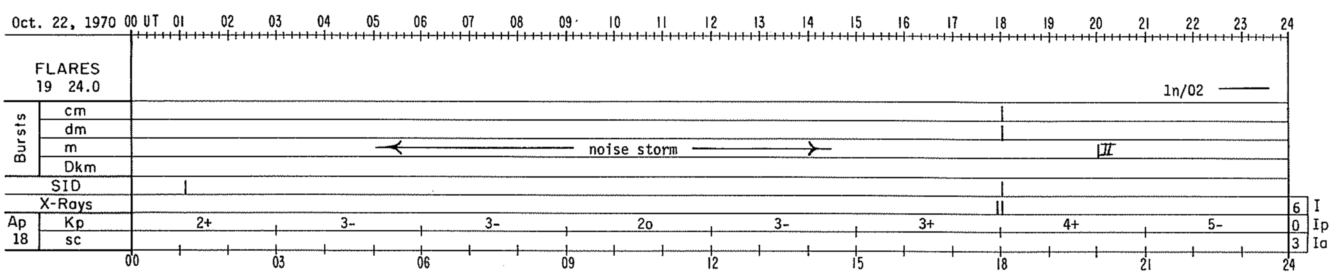
138 10 cm flux
70 Rz

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



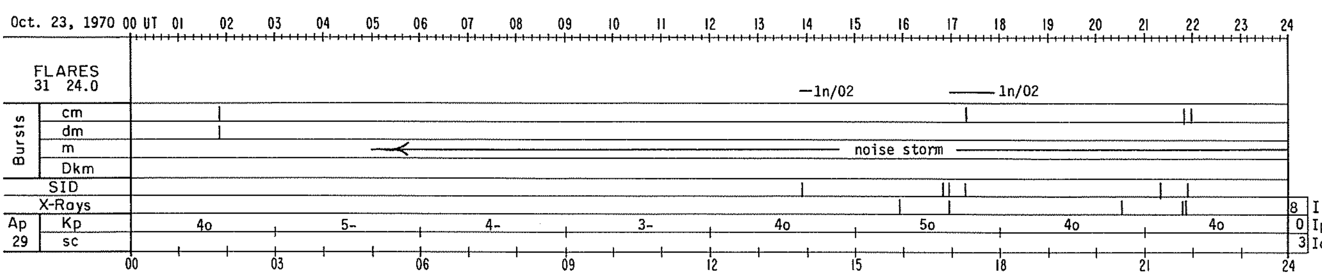
138 10 cm flux
69 Rz
CMP 10994 S11

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



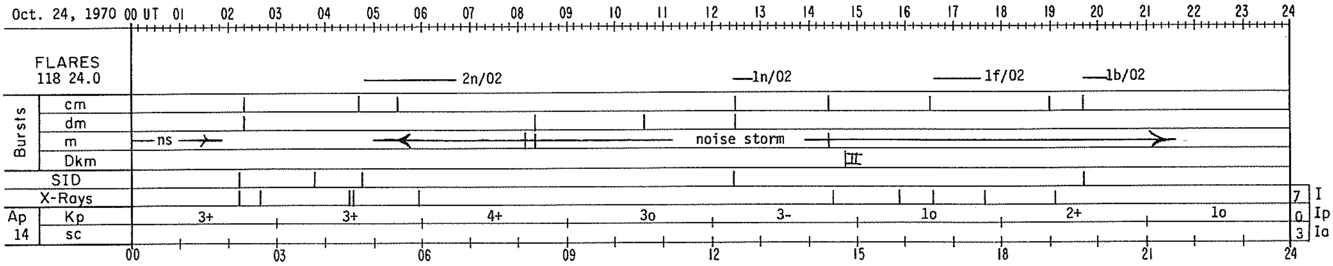
136 10 cm flux
73 Rz
CMP 10995 N12 (3&1) 18172 N11 βp
18174 N13 αp CMP Oct. 23
(18175) N12 (αp)2

Aurora overhead over USSR at ϕ = 60° 1800-2000, ϕ =58° 2100 and ϕ = 57° 2200-2400; br. green corona 7 days earlier on NE limb, moderately br. green corona 7 days earlier on SE limb, no coronal data 7 days later on W. limb.



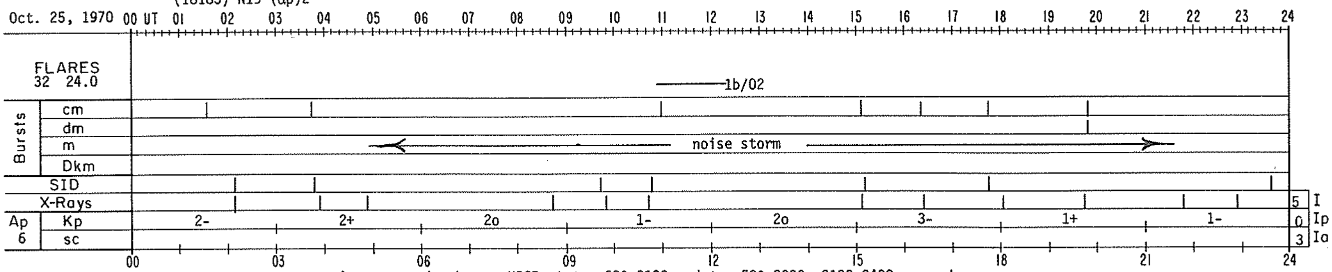
150 10 cm flux
89 Rz
CMP 10999 S21 (7)

One of five most magnetically disturbed days, with moderate activity all day; aurora overhead over USSR at ϕ = 57° 0000-0400, ϕ = 58° 1700, ϕ = 56° 1900-2400, aurora overhead over N. America at ϕ = 58° 0000-0500; br. green corona 7 days earlier on NE limb, moderately br. green corona 7 days earlier on SE limb and 7 days later on NW limb.



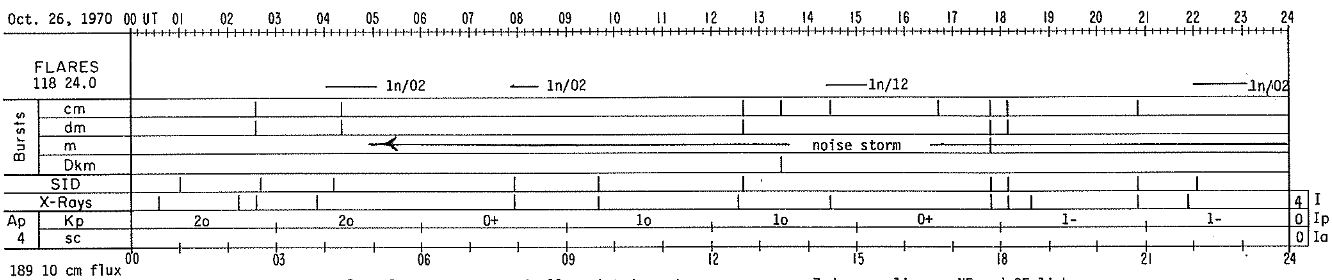
163 10 cm flux
100 Rz
CMP 10996 N23 (2) (18181) N19 (αp)2
(18182) N15 (βp)3
(18183) N19 (αp)2

Aurora overhead over USSR at φ = 56° 0000-0100, φ = 58° 0100-0500, φ = 59° 0600-0700, 1800 and φ = 57° 2000-2400; very br. green corona 7 days earlier on NE limb.



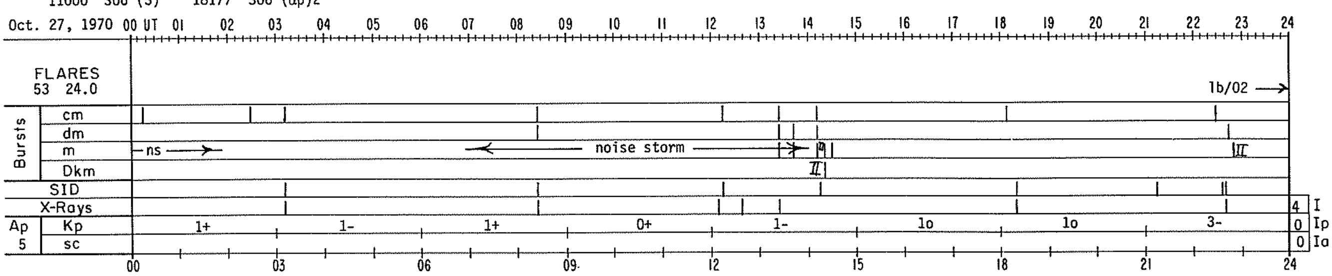
171 10 cm flux
111 Rz
CMP 10998 N15 (2) 18176 N15 (βp)6

Aurora overhead over USSR at φ = 60° 0100 and φ = 58° 2000, 2100-2400; very br. green corona 7 days later on NW limb.



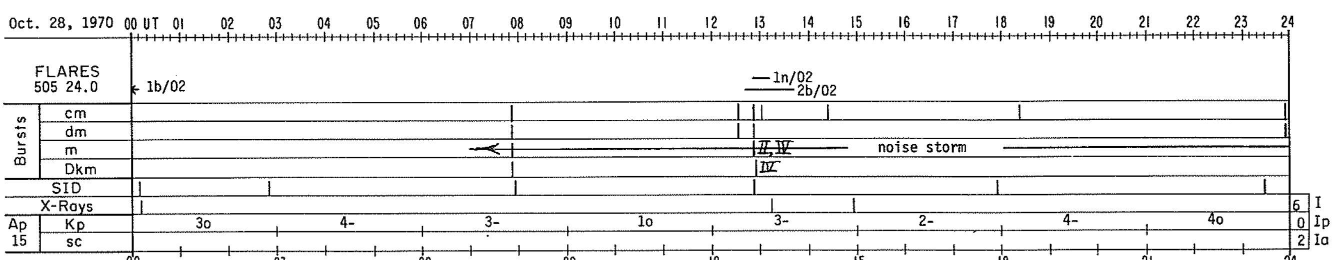
189 10 cm flux
117 Rz
CMP (11004) N27
(11011) N18 (18184) N19 (βf)4
11000 S06 (3) 18177 S06 (αp)2

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



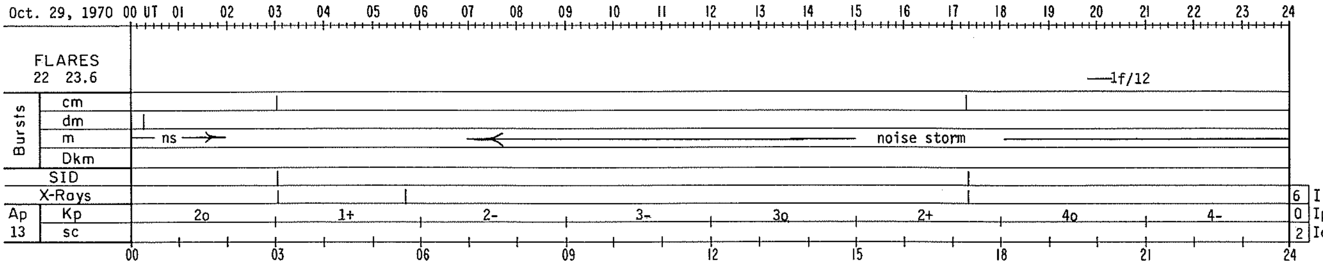
194 10 cm flux
142 Rz
CMP 11007 N17 (3)

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



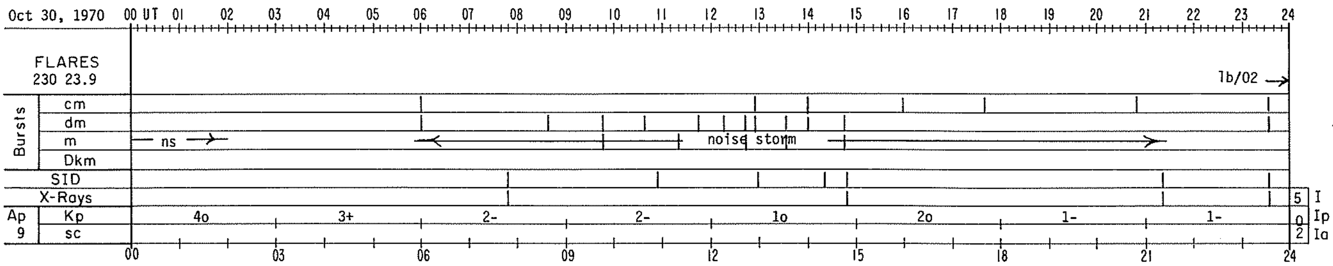
193 10 cm flux
131 Rz
CMP 11015 N04 18187 N04 βp
(18193) N04 (αp)2
11005 S09(2) (18185) S10 (αp)1
11003 S23 (18178) S22 (αp)2
(11006) N01

Br. green corona 7 days earlier on NE limb and moderately br. green corona 7 days earlier on SE limb and 7 days later on NW limb.



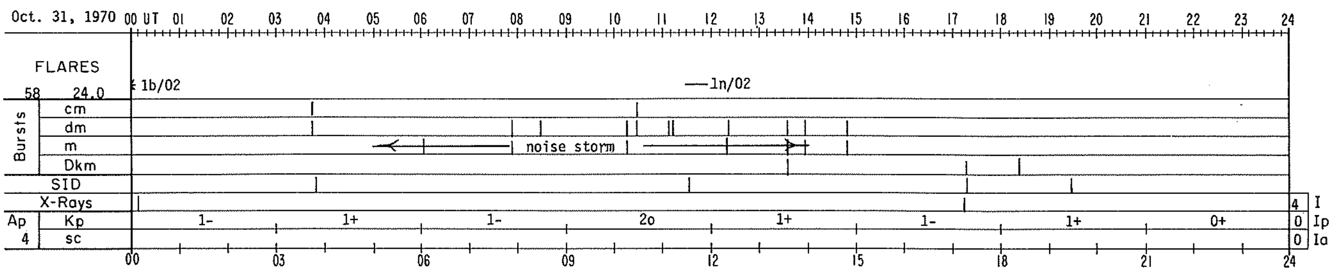
192 10 cm flux
139 Rz
CMP 11002 N17 (6)   18179 N15 (βγ)5   CMP Oct. 28
18180 N20 (δ)6
(18189) N18 (βp)3   CMP Oct. 28

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



178 10 cm flux
126 Rz

No coronal data 7 days later on W. limb.



171 10 cm flux
117 Rz
CMP 11010 N19 (5)
11016 S05 (4)   (18196) S09 (βf)2   CMP Nov. 1

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

ADDENDA:
IONOSPHERIC F-REGION INDICES

AUGUST 1970

DATE	I	DATE	I	DATE	I	DATE	I	DATE	I	DATE	I
01	4	06	2	11	4	16	4	21	1	26	7
02	1	07	5	12	4	17	8	22	2	27	6
03	1	08	8	13	1	18	8	23	5	28	5
04	1	09	6	14	0	19	7	24	2	29	4
05	0	10	4	15	4	20	4	25	7	30	4
										31	5

SEPTEMBER 1970

DATE	I	DATE	I	DATE	I	DATE	I	DATE	I	DATE	I
01	8	06	1	11	4	16	4	21	7	26	4
02	7	07	1	12	5	17	4	22	6	27	6
03	7	08	5	13	8	18	5	23	4	28	4
04	6	09	4	14	8	19	7	24	4	29	2
05	2	10	5	15	6	20	7	25	4	30	5

REGIONAL FLARE INDEX

OCTOBER 1970

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
10965	N18	70/10/02.8	70/09/29	70/10/09	146.19	13.29	23
10971	S11	70/10/07.1	70/10/04	70/10/13	385.04	38.50	15
10979	N17	70/10/12.1	70/10/07	70/10/18	58.51	4.88	7
10982	S13	70/10/12.8	70/10/06	70/10/19	410.71	29.34	13
10987	N 7	70/10/16.7	70/10/13	70/10/21	124.36	13.82	14
10989	S13	70/10/17.4	70/10/15	70/10/16	70.80	35.40	4
10992	N10	70/10/18.5	70/10/22	70/10/22	5.90	5.90	2
10993	N21	70/10/19.3	70/10/22	70/10/24	6.54	2.18	2
10995	N12	70/10/22.6	70/10/16	70/10/27	61.31	5.11	12
10996	N20	70/10/23.9	70/10/29	70/10/29	0.85	0.85	1
10998	N15	70/10/25.5	70/10/21	70/10/28	11.36	1.42	2
11000	S 6	70/10/26.8	70/10/31	70/10/31	2.03	2.03	1
11015	N 4	70/10/28.2	70/10/29	70/11/02	32.43	6.49	6
11006	N 2	70/10/28.7	70/10/22	70/10/22	1.43	1.43	1
11002	N17	70/10/29.5	70/10/21	70/11/04	1317.78	87.85	62

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

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