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BOULDER, COLORADO

WASHINGTON, D.C.

JUNE 1971

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

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SOLAR FLARES

Confirmed

DECEMBER 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
242 CRON	1970 DEC 01	0250	0302	0251	S11	E61	.881	11066	5.7	12	--N	2	C	0250	.22	.45			3
GRP35243	01	0427	0503	0433	S09	E49	.764	11063	4.9	36	-N				1.13				3 3 3 5
TEHR	01	0423	0515	0433	S08	E49	.762	11063	4.9	52	-N		C		.68				F
CRON	01	0429	0450	0433	S10	E49	.766	11063	4.9	21	-N	1	C	0433	.54	.83			
CULG	01	0429	04460	0433	S08	E48	.751	11063	4.8	170	1N		P	0433	2.17	3.15			
GRP35244	01	0437	0457	0441	N23	E39	.692	11060	4.1	20	--N				.47				2 2 2 5
CRON	01	0437	0452	0440	N22	E38	.676	11060	4.0	15	-N	1	C	0440	.65	.88			FOE
TEHR	01	0437	0502	0442	N24	E39	.698	11060	4.1	25	-N		C		.28				
245 CRON	01	0454	0512	0456	S13	E63	.899	11066	5.9	18	--N	1	C	0456	.32				4
GRP35246	01	0543	0609	0545	N09	W77	.974	11061	25.5	26	-N				.45				2 1 1 5
TEHR	01	0543	0609	0545	N09	W77	.974	11061	25.5	26	-N		C		.45				F
ABST	01	0547E	0602	0548	N10	W82	.990	11061	25.1	150	1F		P	0548	2.34			47	EN
GRP35250	01	0826	0836	0828	N23	E37	.671	11060	4.1	10	--N				.58				4 4 4 8
ABST	01	0810	08340	0828	N24	E36	.667	11060	4.0	240	-N		P	0828	1.26	1.70		63	DJK
CATA	01	0825	0830	0825	N21	E36	.649	11060	4.1	5	-B			0825	.14	.19		202	
ARCE	01	0825	08350	0828	N22	E37	.666	11060	4.1	100	-F		C	0828	.63	.80			DE
TEHR	01	0827	0845	0832	N23	E37	.671	11060	4.1	18	-N		C		.28				
252 HTPR	01	1428	1500	1442	S08	E43	.692	11063	4.8	32	--F		C	1442	.62	.90			E 3
	01	1533	1535																
	01	1718	1719																
	01	1720	1730																
254 BOUL	01	1739	1754	1740	S13	E75	.969	11066	7.4	15	-N	1	V						2
256 PALE	01	2028E	2059	2037U	N13	E86	.997	11068	8.3	310	--F		C		.19				F 3
257 PALE	01	2118E	2144	2127U	S14	W18	.395	11053	30.5	260	--F		C		.36				F 2
GRP35258	01	2132	2141	2132	N01	E79	.982	11068	7.8	9	--F				.19				2 2 1 2
PALE	01	2131	2141	2131	N04	E78	.978	11068	7.7	10	-F		C		.19				
BOUL	01	2133	2141	2133	S02	E80	.985	11068	7.9	8	-F	2	V						
	01	2253	2302																
259 PALE	01	2342E	2352D	2342U	N25	E27	.581	11060	4.0	100	--F		C		.19				2
	01	2359	0000																
260 TEHR	02	0520E	0535	0523U	S18	E33	.609	11063	4.7	150	--F		C		.28				DE 4
GRP35262	02	0538	0608	0542	S13	W25	.475	11053	30.4	30	-N				2.02				3 3 3 5
TEHR	02	0537	0615	0541	S14	W24	.469	11053	30.4	38	-N		C		1.19				FS
CRON	02	0539	0600	0543	S13	W22	.435	11053	30.6	21	-N	1	C	0543	.43	.48			
CULG	02	0544E	0555D		S12	W30	.536	11053	30.0	110	1N		P	0544	4.43	5.19			
GRP35263	02	0541	0603	0544	S09	W44	.706	11053	28.9	22	--F				.39				2 2 2 5
CRON	02	0540	0555	0542U	S07	W43	.690	11053	29.0	15	-F	1	C	0542	.22	.30			FS
TEHR	02	0541	0610	0545	S10	W45	.720	11053	28.9	29	-N		C		.55				
GRP35264	02	0747	0802	0754	S08	E33	.560	11063	4.8	15	--F				.34				2 2 2 5
TEHR	02	0744	0803	0754U	S07	E33	.557	11063	4.8	19	-F		C		.45				DE
CRON	02	0750	0800	0753	S08	E32	.546	11063	4.7	10	-N	1	C	0753	.22	.26			
GRP35265	02	1419	1439	1423	S17	E28	.542	11063	4.7	20	-N				1.11				4 4 4 5
MCMA	02	1419	1430	1422	S16	E27	.522	11063	4.6	11	-F		C	1422	.83	.90			EK
HTPR	02	1419	1430	1423	S17	E27	.530	11063	4.6	11	-N		C	1423	1.44	1.70			
CANR	02	1420	1445	1423	S18	E26	.526	11063	4.5	25	-N	2	C	1423	.65	.76			
CAPS	02	1422E	1451D		S18	E30	.573	11063	4.8	290	-N	2	S	1425	1.50	2.00		164	
35265	02	1433	1446	1436	S17	E27	.530	11063	4.6	13	*-N				.41				4 4 4 6
HUAN	02	1431	1437D	1436	S18	E28	.550	11063	4.7	60	-N	2	P	1436	.43	.52			E
HTPR	02	1433	1444	1436	S17	E27	.530	11063	4.6	11	-F		C	1436	.41	.50			
MCMA	02	1434	1443	1436	S18	E27	.538	11063	4.6	9	-N		C	1436	.26	.26			D
RAMY	02	1434E	1452D	1434E	S13	E24	.462	11063	4.4	180	-N		V		.52				DE
GRP35268	02	1447	1529	1459	N26	E02	.427	11060	2.8	42	--F				.68				4 4 4 5
HTPR	02	1445	1529	1459	N27	E02	.443	11060	2.8	44	-F		C	1459	.93	1.00			
HUAN	02	1446	1457D	1453	N27	E03	.444	11060	2.8	110	-N	2	P	1453	.21	.23			E
CANR	02	1449	1529	1502	N26	E02	.427	11060	2.8	40	-N	3	C	1502	.75	.84			
RAMY	02	1452E	1517D	1501U	N24	E02	.396	11060	2.8	250	-F		C		.83				F

SOLAR FLARES
Confirmed
DECEMBER 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35269 MCMA CANR CANR RAMY	02	1559	1730	1611	S09	E28	.493	11063	4.8	91	18				3.52			3 3 3 3
	02	1558	1730D	1608	S09	E28	.493	11063	4.8	92D	18		C	1608	2.32	2.70	FLU	
	02	1559	1718D	1615U	S10	E29	.512	11063	4.8	79D	18	2	C	1615	4.73	5.50		
	02	1559	1718D	1603	S10	E29	.512	11063	4.8	79D	18	2	C	1603	1.51	1.80		
	02	1601E	1647D	1611U	S09	E28	.493	11063	4.8	46D	1N		C		3.51		U	
271 PALE	02	1920	1941	1926	N23	E08	.399	11060	3.4	21	--F		C		.19			3
272 PALE	02	2137	2200	2148	S09	W52	.796	11053	29.0	23	-N		C		.81		F	2
273 PALE	02	2146	2201	2147	N21	E09	.375	11060	3.6	15	--F		C		.19		F	2
274 CRON	03	0000E	0008	0001	N19	E09	.348	11060	3.7	8D	--N	2	C	0001	.43	.46		3
GRP35275 PALE CRON MITK	03	0203	0227	0208	S14	E42	.696	11066	6.2	24	-N		C		.77			3 3 3 5
	03	0202	0223	0208	S18	E41	.700	11066	6.2	21	-N		C		.72		F	
	03	0204	0231	0207	S13	E42	.692	11066	6.2	27	-N	2	C	0207	.86	1.19		
	03	0212E	0213D		S12	E42	.689	11066	6.2	1D	-N		P	0213	.72	1.00	D	
GRP35277 CRON MITK	03	0228	0243	0233	S10	E50	.776	11066	6.9	15	--N		C		.52			2 2 2 5
	03	0228	0244	0232	S10	E50	.776	11066	6.9	16	-N	2	C	0231	.32	.51		
	03	0232E	0242	0233	S10	E50	.776	11066	6.9	10D	-N		C	0233	.72	1.10	D	
GRP35278 CULG CRON MITK	03	0326	0344	0332	S09	E48	.752	11066	6.7	18	-N		C		1.11			3 3 3 5
	03	0322	0347	0331	S10	E47	.743	11066	6.7	25	1N		C	0331	2.17	3.15	R	
	03	0329	0341	0332	S11	E49	.767	11066	6.8	12	-N	2	C	0330	.32	.51		
	03	0331E	0334D		S07	E49	.760	11066	6.8	3D	-N		P	0334	.83	11.30	E	
GRP35279 TEHR CRON MANI	03	0432	0449	0434	N16	W07	.290	11060	2.7	17	--N		C		.48			3 3 3 5
	03	0431	0449	0435U	N16	W07	.290	11060	2.7	18	-N		C		.36		DE	
	03	0432	0447	0433	N15	W07	.274	11060	2.7	15	-N	2	C	0433	.32	.32		
	03	0435E	0450		N18	W08	.326	11060	2.6	15D	-N	2	C	0436	.77	.82		
GRP35280 TEHR CRON MONT MANI	03	0731	0803	0740	S16	E16	.390	11063	4.5	32	--F		C		.98			4 3 3 5
	03	0730	0804	0741	S16	E16	.390	11063	4.5	34	-F		C		.36		DE	
	03	0731	0801	0733	S16	E16	.390	11063	4.5	30	-F	2	C	0733	.32	.35		
	03	0735E	0803	0746	S15	E15	.368	11063	4.4	28D	-N		C	0746	2.27			
	03	0750E	0807		S16	E17	.401	11063	4.6	17D	-N	2	C	0755	.72	.78		
GRP35283 HTPR TEHR MONT CANR	03	1049	1121	1057	S17	E16	.401	11063	4.7	32	--N		C		.79			4 4 4 6
	03	1047	1130	1058	S17	E15	.391	11063	4.6	43	-F		C	1058	.52	.60		
	03	1048	1127	1054	S17	E17	.412	11063	4.7	39	-N		C		.45		DE	
	03	1050	1111	1056	S16	E15	.379	11063	4.6	21	-N		C	1056	1.55			
	03	1051	1115	1059	S17	E16	.401	11063	4.7	24	-N	2	C	1059	.65	.70		
GRP35286 CANR BOUL	03	1555	1607	1558	S09	E15	.305	11063	4.8	12	--F		C		.32			2 2 1 2
	03	1552	1606	1555	S08	E15	.297	11063	4.8	14	-N	1	C	1555	.32	.32		
	03	1558	1608	1600	S09	E14	.292	11063	4.7	10	-F	1	V					
288 BOUL	03	1923	1935	1925	S07	E27	.470	11066	5.8	12	--F	2	V					2
GRP35289 PALE BOUL RAMY	03	2012	2143	2022	S07	E37	.611	11066	6.6	91	--N		C		.47			3 2 2 3
	03	2012	2044	2022	S09	E39	.643	11066	6.8	32	-N		C		.63		FH	
	03	2018	2143	2126U	S10	E39	.646	11066	6.8	85	-F	1	C	2126	.21	.28		
	03	2019E	2029D	2021U	S05	E35	.579	11066	6.5	10D	-N		V		.31		DE	
GRP35290 BOUL PALE CRON	03	2106	2202	2112	S16	E08	.316	11063	4.5	56	-N		C		1.40			3 1 1 3
	03	2106	2202	2112U	S16	E08	.316	11063	4.5	56	-N	1	C	2112	1.40	1.44		
	03	2115	2204	2129	S14	E08	.287	11063	4.5	49	1N		C		2.26		FDE	
	03	2139E	2204		S12	E08	.258	11063	4.5	25D	1F		V		2.60			
292 MANI	03	2328	2356	2338	S19	W03	.340	11063	3.8	28	-N	2		2338	.93	.95		4
GRP35294 PALE CULG CULG CRON VORO	04	0154	0215	0200	S09	E35	.590	11066	6.7	21	-N		C		1.19			4 4 4 7
	04	0152	0211	0200	S08	E36	.600	11066	6.8	19	-N		C		.99		FH	
	04	0152	0234	0201	S08	E33	.559	11066	6.6	42	1N		C	0201	2.78	3.24	K	
	04	0152	0234	0208	S10	E31	.539	11066	6.4	42	1N		C	0208	1.86	2.07		
	04	0155	0208	0159	S11	E36	.610	11066	6.8	13	-N	2	C	0158	.43	.54		
	04	0156	0205	0158	S09	E37	.617	11066	6.9	9	-B		C	0158	.56	.80		79 EJ
GRP35299 KODA MONT TEHR HTPR CATA CAPS	04	0954	1014	0957	N21	E90	1.000	11073	11.2	20	2N		C		2.18			6 6 4 9
	04	0938	1146D	0958	N23	E90	1.000	11073	11.2	128D	38		C	0958			15.50	AKIRXY
	04	0953	1009	0957	N21	E90	1.000	11073	11.2	16	18		C	0957	4.54		H	
	04	0953	1036D	0955	N21	E90	1.000	11073	11.2	43D	-N		V		.45		F	
	04	0954	1001	0958	N20	E90	1.000	11073	11.2	7	2N		C	0958	1.86			
	04	0955	1010	0957	N18	E90	1.000	11073	11.2	15	1N		C	0957	1.86			191 A
	04	0955E	1150D		N21	E90	1.000	11073	11.2	115D	3N	3	P					F
	04	0955E	1150D		N21	E90	1.000	11073	11.2	115D	3N	3	P					

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35301	04	1250	1301	1252	N20	W11	.379	11060	3.7	11	-N			.96			5 5 4 5	
CANR	04	1246	1300		N20	W12	.387	11060	3.6	14	-N	3 V		.60	.60			
MONT	04	1249	1259	1251	N20	W10	.371	11060	3.8	10	-N	C	1251	1.13				
HTPR	04	1250	1305	1253	N20	W10	.371	11060	3.8	15	-N	C	1253	.93	1.00			
HURB	04	1251E	1300D	1252	N20	W12	.387	11060	3.6	90	1F					1.97		
CATA	04	1252	1300	1252	N20	W10	.371	11060	3.8	8	-N		1252	1.16	1.26		191	
GRP35303	04	1424	1441	1430	N18	E87	.999	11073	11.1	17	-N			.64			4 4 3 5	
CANR	04	1423	1437	1428	N17	E82	.991	11073	10.7	14	-N	2 C	1428	.75				
RAMY	04	1423	1446	1429	N19	E87	.999	11073	11.1	23	18	C					DE	
HTPR	04	1425	1440	1428	N18	E90	1.000	11073	11.4	15	-N	C	1428	.93			A	
HUAN	04	1425	1442	1433	N19	E90	1.000	11073	11.4	17	-N	1 C	1433	.25			D	
GRP35305	04	1533	1556	1536	S16	W03	.289	11063	4.4	23	--N			.61			4 4 4 4	
HUAN	04	1533	1552D	1538	S16	W02	.286	11063	4.5	190	-N	2 P	1538	.38	.40		E	
RAMY	04	1533	1553	1536	S15	W03	.272	11063	4.4	20	-N	C		.88			DE	
BOUL	04	1533	1602	1535	S16	W03	.289	11063	4.4	29	-F	1 C	1535	.32	.32			
CANR	04	1534	1553	1535	S16	W03	.289	11063	4.4	19	-N	2 C	1535	.86	.86			
GRP35309	04	1814	1831	1817	N17	W29	.544	11060	2.6	17	--F			.21			2 2 1 4	
BOUL	04	1810	1840	1815	N15	W28	.518	11060	2.7	30	-F	2 V						
HUAN	04	1817	1821	1819	N18	W30	.563	11060	2.5	4	-N	2 C	1819	.21	.25		D	
GRP35312	04	1929	1944	1935	N14	W25	.472	11060	2.9	15	--F			.17			2 2 2 4	
BOUL	04	1928	1948	1937	N14	W29	.525	11060	2.6	20	-F	1 C	1937	.21	.25			
HUAN	04	1929	1940	1933	N14	W20	.406	11060	3.3	11	-N	2 C	1933	.12	.15		D	
	04	2205	2216	NO FLARE PATROL														
313 MITK	04	2327	2355	2339	S19	W09	.365	11063	4.3	28	-N	C	2339	1.44	1.50		E 3	
GRP35315	05	0135	0200	0145	N16	E80	.986	11073	11.1	25	1N			1.42			5 5 5 7	
KODA	05	0130	0157		N19	E83	.993	11073	11.3	27	1N	C	0145	2.95	2.90		D	
CRON	05	0135	0153	0144	N16	E78	.979	11073	10.9	18	-N	1 C	0144	.54				
MITK	05	0139	0210	0146	N18	E82	.991	11073	11.2	31	1N	C	0146	1.44			H	
PALE	05	0144E	0156	0144U	N17	E78	.980	11073	10.9	120	-B	C		.63			H	
MANI	05	0145E	0202		N10	E80	.985	11073	11.1	170	1N	2	0150	1.55	3.97			
GRP35316	05	0155	0211	0204	N15	W32	.571	11060	2.7	16	--F			.33			2 2 2 6	
CRON	05	0154	0210		N15	W32	.571	11060	2.7	16	-N	V		.30				
PALE	05	0156	0211	0204U	N14	W32	.566	11060	2.7	15	-F	C		.36			F	
4 STATIONS REPORTING GROUP 35317. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35317	05	0515	0534	0517	S10	E20	.382	11066	6.7	19	--N			.48			3 3 3 4	
CRON	05	0512	0526	0515	S11	E20	.389	11066	6.7	14	-N	1 C	0515	.43	.46			
TEHR	05	0516	0541D	0519U	S09	E19	.360	11066	6.6	250	-N	V		.28			F	
MITK	05	0516	0520D	0517	S11	E20	.389	11066	6.7	40	-N	C	0517	.72	.80		E	
317 MANI	05	0513E	0520		S11	E05	.215	11066	5.6	70	*-N	2	0516	.31	.32		4	
GRP35318	05	0513	0541	0521	S16	W10	.328	11063	4.5	28	--N			.86			3 3 3 4	
MITK	05	0507	0520D	0512	S17	W11	.350	11063	4.4	130	-N	C	0512	.93	1.00		E	
MANI	05	0515	0541		S15	W08	.298	11063	4.6	26	-N	2	0517	.83	.86			
TEHR	05	0516	0541D	0521U	S15	W11	.323	11063	4.4	250	-N	V		.83			FDE	
3 STATIONS REPORTING GROUP 35319. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35319	05	0632	0704	0635	S10	E20	.382	11066	6.8	32	--N			.48			2 2 2 4	
CRON	05	0631	0647	0635	S10	E20	.382	11066	6.8	16	-N	1 C	0635	.32	.35			
TEHR	05	0633	0721	0635	S10	E20	.382	11066	6.8	48	-N	V		.64			HF	
319 MANI	05	0635E	0655		S11	E05	.215	11066	5.6	200	*-N	2	0638	.93	.95		4	
GRP35324	05	0855	0912	0900	N14	W36	.617	11060	2.7	17	--F			.62			3 3 3 7	
TEHR	05	0853	0915	0857	N16	W36	.626	11060	2.7	22	-N	V		.55			FDE	
BUCA	05	0855E	0911D		N14	W36	.617	11060	2.7	160	-F	C	0855	1.10	1.40			
CRON	05	0856	0910	0902U	N13	W36	.613	11060	2.7	14	-F	1 C	0902	.22	.27			
GRP35326	05	0949	1015	0958	S10	E16	.326	11066	6.6	26	--N			.42			4 3 3 10	
TEHR	05	0945	1017	1000	S10	E17	.340	11066	6.7	32	-N	V		.36			F	
CRON	05	0952	1008	0958U	S10	E17	.340	11066	6.7	16	-F	1 C	0958	.22	.23			
CATA	05	0955E	1005D	0955	S10	E17	.340	11066	6.7	100	-N	C	0955	.69	.74		155	
CANR	05	1008	1020		S11	E13	.296	11066	6.4	12	-N	2 V		.50	.60			
GRP35330	05	1122	1147	1129	S10	E17	.340	11066	6.7	25	--N			.53			4 4 4 5	
HTPR	05	1118	1145	1128	S10	E17	.340	11066	6.7	27	-N	C	1128	.93	1.00		U	
TEHR	05	1121	1152	1126	S10	E17	.340	11066	6.7	31	-N	V		.36			F	
HUAN	05	1126	1144	1131	S11	E17	.348	11066	6.8	18	-N	2 C	1131	.43	.46		E	
RAMY	05	1129E	1146	1132	S10	E17	.340	11066	6.8	170	-F	C		.41			DE	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND.	TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
1970 DEC																			
GRP35334 HUAN RAMY CANR TEHR CATA	05	1208	1245	1213	N21	W20	.475	11060	4.0	37	--N				.72				5 5 5 6
	05	1201	12120	1212U	N22	W20	.486	11060	4.0	110	-N	2	P	1212	.61	.70			E
	05	1205	12200	1210	N22	W19	.476	11060	4.1	150	-F		C		.72			DE	
	05	1210	1244	1212	N21	W19	.465	11060	4.1	34	-N	2	C	1212	.54	.61			DE
	05	1214	1246	1218	N21	W20	.475	11060	4.0	32	-N		V		.73				
	05	1215E	12200	1215	N21	W20	.475	11060	4.0	50	-N			1215	.98	1.12	170		
GRP35336 TEHR RAMY HUAN HUAN CATA	05	1236	1305	1247	S16	W14	.366	11063	4.5	29	--N				.54				4 4 4 7
	05	1236	12460	1241	S15	W13	.343	11063	4.6	100	-N		V		.45				FDE
	05	1242E	1305	1250	S16	W14	.366	11063	4.5	230	-F		C		.93			DE	
	05	1243E	12540	1245	S15	W14	.354	11063	4.5	110	-N	1	P	1245	.33	.35			E
	05	1243E	12540	1252	S20	W12	.399	11063	4.6	110	-N	1	P	1252	.15	.17			D
	05	1250E	12550	1250	S14	W14	.342	11063	4.5	50	-N			1250	.46	.49	168		
GRP35338 RAMY CATA HUAN CANR ZURI CAPS	05	1320	1336	1321	S10	E16	.326	11066	6.8	16	--N				.57				6 6 6 6
	05	1320	13320	1322	S09	E15	.303	11066	6.7	120	-F		C		.83				DE
	05	1320	1345	1320	S10	E15	.312	11066	6.7	25	-N			1320	.63	.67	166		
	05	1320	1339	1321	S10	E16	.326	11066	6.8	19	-N	2	C	1321	.30	.32			E
	05	1320	1330	1322	S10	E15	.312	11066	6.7	10	-N	2	C	1322	.54	.57			
	05	1321	13230	1322	S11	E17	.348	11066	6.8	20	-N		P	1322	.63	.70			
	05	1321E	1333		S10	E15	.312	11066	6.7	120	-N	3	V	1321	.50	.50	150		
343 HUAN	05	1726E	1742	1730	S18	W13	.381	11063	4.8	160	--F	1	P	1730	.25	.27			D 2
344 HUAN	05	1726E	18000	1730	N15	W18	.391	11060	4.4	340	--N	2	P	1730	.76	.83			E 2
GRP35346 PALE RAMY RAMY	05	1850	2012	1854	N21	E82	.991	11073	11.9	82	--F				.36				2 2 1 4
	05	1848	20120	1853U	N22	E82	.991	11073	11.9	840	-F		C		.36				H
	05	1851	19140	1855	N23	E82	.991	11073	11.9	230	-N		C					DE	
	05	1906E	19140		N16	E80	.986	11073	11.8	80	-F		C					DE	
GRP35347 PALE MCMA HUAN	05	1929	1951	1935	N14	W43	.703	11060	2.6	22	--N				.37				3 3 3 4
	05	1926	1955	1935	N14	W43	.703	11060	2.6	29	-N		C		.45				F
	05	1931	1947	1933	N13	W44	.712	11060	2.5	16	-F		C	1933	.31	.40			E
	05	1935E	19400	1937U	N14	W43	.703	11060	2.6	50	-N	1	P	1937	.35	.50			
GRP35348 PALE MCMA BOUL	05	2004	2025	2009	S18	W16	.410	11063	4.6	21	--F				.53				3 3 3 3
	05	2000	2029	2009	S18	W17	.420	11063	4.6	29	-N		C		.55				F
	05	2006E	20150		S19	W15	.412	11063	4.7	90	-F		P	2011	.62	.70			E
	05	2006	2020	2008	S18	W16	.410	11063	4.6	14	-F	1	C	2008	.43	.47			
GRP35349 PALE BOUL HUAN RAMY	05	2115	2139	2120	S16	W20	.433	11063	4.4	24	--N				.61				4 4 4 4
	05	2114	2139	2118	S16	W20	.433	11063	4.4	25	-N		C		.55				F
	05	2115U	2139	2118U	S15	W21	.436	11063	4.3	240	-F	1	C	2118	.21	.24			
	05	2115	2140	2121	S15	W19	.411	11063	4.5	25	-N	2	C	2121	.76	.84			E
	05	2116E	21350	2122U	S19	W19	.453	11063	4.5	190	-N		V		.93				DE
GRP35350 PALE HUAN BOUL CRON LOCK	05	2144	2202	2150	S16	W19	.421	11063	4.5	18	-N				1.25				5 5 4 5
	05	2143	2159	2147	S14	W19	.402	11063	4.5	16	-N		C		.99				F
	05	2144	2202	2148	S15	W19	.411	11063	4.5	18	1N	2	C	2148	2.23	2.44			E
	05	2145	2157	2149	S15	W19	.411	11063	4.5	12	-N	1	C	2149	.97	1.06			
	05	2145	2202		S18	W18	.431	11063	4.6	17	-N		V		.80				
	05	2155E	2210	2155E	S16	W20	.433	11063	4.4	150	-F		C						
6 STATIONS REPORTING GROUP 35352. 0 STATIONS OBSERVING AND NOT REPORTING.																			
GRP35352 CRON PALE LOCK MANI	05	2259	0034	2325	N16	W45	.732	11060	2.6	95	1N				2.21				4 4 3 4
	05	2257	0050	2322	N15	W46	.740	11060	2.5	113	1N	2	C	2321	2.15	3.20			
	05	2259	2359D	2324	N14	W46	.737	11060	2.5	600	1N		C		2.62				DE
	05	2300	00000	2330	N15	W47	.751	11060	2.4	600	1F		C						
	05	2327	0018		N18	W40	.683	11060	3.0	51	1N	2		2335	1.86	2.50			
35352 MITK VORO	05	2352	0026	(2354)	N15	W46	.740	11060	2.5	34	*1B				2.53				2 2 2 5
	05	2352E	0030		N16	W45	.732	11060	2.6	380	1N		C	2352	3.20	5.00			BE
	05	2355E	0022		N13	W46	.735	11060	2.5	270	1B		C	2355	1.85	2.60	83		EJ
GRP35353 LOCK LOCK CRON PALE MANI	05	2333	2352	2335	S17	W18	.420	11063	4.6	19	--N				.66				4 4 3 4
	05	2315	2350	2332	S16	W17	.398	11063	4.7	35	-N		C						K
	05	2315	2350	2320	S16	W17	.398	11063	4.7	35	-F		C						K
	05	2330	2351	2333	S18	W18	.431	11063	4.6	21	-N	2	C	2332	.54	.59			F
	05	2331	2348	2336	S18	W18	.431	11063	4.6	17	-N		C		.72				
	05	2338	2357		S14	W18	.389	11063	4.6	19	-N	2		2340	.72	.78			
GRP35355 PALE VORO CRON MITK MANI	06	0124	0143	0129	N22	W28	.572	11060	4.0	19	-N				1.06				5 5 5 6
	06	0121	0151	0131	N22	W28	.572	11060	4.0	30	-N		C		1.54				F
	06	0122	0138	0129	N20	W28	.556	11060	4.0	16	-B		C	0129	1.02	1.20	77		E
	06	0123	0148	0128	N22	W26	.550	11060	4.1	25	-N	2	C	0127	1.08	1.30			
	06	0123	0142	0127	N22	W26	.550	11060	4.1	19	-N		C	0127	.93	1.30			E
	06	0129	0134		N22	W30	.594	11060	3.8	5	-N	2		0130	.72	.92			

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35356	06	0612	0619	0614	N16	E70	.944	11073	11.5	7	-N		.68				3 3 3 4	
CRON	06	0611	0618	0613	N17	E69	.939	11073	11.4	7	-N	2 C	0613	.32				
TACH	06	0612	0618	0614	N20	E73	.961	11073	11.7	6	1F	C	0614	1.19	2.14	57	D	
MANI	06	0612E	0620		N12	E68	.930	11073	11.4	80	-N	2	0615	.52	1.57			
357 CRON	06	0628	0635	0631	N10	E78	.979	11073	12.1	7	--N	2 C	0630	.32			3	
GRP35358	06	0715	0740	0717	N16	W51	.795	11060	2.5	25	--F		.23				3 2 2 6	
CRON	06	0714	0759	0719	N16	W51	.795	11060	2.5	45	-F	1 C	0718	.32	.54			
CATA	06	0715	0720	0715	N16	W51	.795	11060	2.5	5	-N		0715	.14	.24	193		
MANI	06	0727E	0747		N18	W52	.810	11060	2.4	200	-N	2	0729	1.29	2.11			
GRP35361	06	0928	0944	0931	N21	W31	.597	11060	4.1	16	--N		.53				5 5 5 10	
HTRP	06	0925	0955	0931	N22	W32	.616	11060	4.0	30	-F	C	0931	.21	.30		D	
CANR	06	0927	0940	0932	N21	W32	.609	11060	4.0	13	-N	2 C	0932	.54	.68			
MONI	06	0928	0944	0931	N21	W31	.597	11060	4.1	16	-N	C	0931	.77				
ARCE	06	0930E	0939		N22	W30	.594	11060	4.1	90	-F	P	0933	.57	.70			
CATA	06	0930	0940	0930	N21	W32	.609	11060	4.0	10	-N		0930	.58	.72	174		
GRP35362	06	0934	0949	0938	N15	W52	.803	11060	2.5	15	-N		.65				7 7 6 10	
ONDR	06	0932	0949		N15	W52	.803	11060	2.5	17	1F	V	0937		1.80		C	
HTRP	06	0934	1000	0939	N15	W52	.803	11060	2.5	26	-F	C	0939	.41	.70		U	
CRON	06	0934	0946	0936	N15	W51	.793	11060	2.6	12	-N	2 C	0936	.22	.36			
ARCE	06	0934	0945D	0935	N18	W56	.846	11060	2.2	110	-N	C	0935	.63	1.10		E	
MONI	06	0934	0951	0939	N16	W52	.805	11060	2.5	17	-N	C	0939	1.55				
CANR	06	0935	0950	0941	N14	W51	.791	11060	2.6	15	-N	2 C	0941	.43	.70			
CATA	06	0935	0945	0935	N15	W52	.803	11060	2.5	10	-N		0935	.63	1.09	155		
GRP35364	06	1225	1246	1230	S18	W25	.509	11063	4.6	21	--N		.59				5 5 5 7	
HTRP	06	1210	1345	1233	S18	W26	.521	11063	4.6	95	-F	C	1233	.52	.60		KU	
RAMY	06	1223	1250	1228	S18	W25	.509	11063	4.6	27	-N	C		.62			DE	
TEHR	06	1225E	1229D	1227	S17	W26	.513	11063	4.6	40	-N	C		.28			DE	
CANR	06	1226	1247	1229	S18	W25	.509	11063	4.6	21	-N	2 C	1229	.75	.88			
ZURI	06	1232E	1240	1232	S17	W24	.489	11063	4.7	80	-N	P	1232	.79	.90			
372 RAMY	06	1552	1601	1553	N18	E72	.955	11073	12.1	9	--F	C		.72			DE 3	
GRP35373	06	1614	1621	1617	N13	E76	.972	11073	12.4	7	--N		.21				2 2 2 4	
HUAN	06	1614	1621	1617	N13	E76	.972	11073	12.4	7	-N	1 C	1617	.21			D	
RAMY	06	1614	1620	1617	N13	E76	.972	11073	12.4	6	-N	C		.21			DE	
GRP35374	06	1635	1705	1639	N17	W31	.571	11060	4.4	30	--F		.84				4 3 2 4	
RAMY	06	1634	1715	1639	N18	W32	.589	11060	4.3	41	-F	C		1.03			DE	
LOCK	06	1635	1655	1639	N16	W31	.565	11060	4.4	20	-F	C						
CANR	06	1639E	1651D	1640U	N16	W30	.552	11060	4.4	120	-N	1 C	1640	.65	.78			
HUAN	06	1656E	1703D	1702	N16	W32	.577	11060	4.3	70	-N	2 P	1702	.71	.87		E	
GRP35376	06	1659	1708	1702	N13	E76	.972	11073	12.4	9	-N		.38				2 2 2 4	
HUAN	06	1659	1703D	1703U	N14	E76	.972	11073	12.4	40	-N	1 P	1703	.35			D	
RAMY	06	1659	1708	1701	N12	E75	.967	11073	12.3	9	-N	C		.41			DE	
GRP35377	06	1735	1741	1737	N14	E77	.976	11073	12.5	6	-N		.52				2 2 1 3	
BOUL	06	1735	1740	1737	N15	E78	.979	11073	12.6	5	-N	1 V						
RAMY	06	1735	1741	1737	N12	E75	.967	11073	12.4	6	-N	C		.52			DE	
4 STATIONS REPORTING GROUP 35378. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35378	06	1752	1817	1755	N24	E69	.944	11073	11.9	25	1F		.90				3 3 3 4	
RAMY	06	1751	1819D	1754	N25	E70	.950	11073	12.0	280	1F	C		1.34			DE	
PALE	06	1751	1803	1758U	N22	E67	.931	11073	11.8	12	-F	C		.63			FH	
MCMA	06	1753	1830D	1754	N24	E70	.949	11073	12.0	370	1F	C	1754	.72	2.10		EFK	
35378	06	1807	1841	1813	N21	E69	.942	11073	11.9	34	*-N		.30				2 2 2 4	
PALE	06	1807	1841	1811U	N21	E68	.936	11073	11.9	34	-N	C		.27			F	
BOUL	06	1813E	1835U	1814U	N20	E69	.941	11073	11.9	220	-N	1 C	1814	.32				
35378	06	1756	1819	1800	N16	E70	.944	11073	12.0	23	*-F		.93				2 1 1 4	
RAMY	06	1756	1819D	1800	N16	E70	.944	11073	12.0	230	-F	C		.93			DE	
BOUL	06	1813E	1822	1813E	N14	E66	.918	11073	11.7	90	-N	1 C	1813	.11				
380 PALE	06	2242	2259	2247	S11	E51	.787	11070	10.8	17	--F	C		.59			F 3	
GRP35381	06	2336	0000	2344	S07	W18	.332	11066	5.6	24	--F		.36				2 2 1 5	
PALE	06	2334	2359D	2342	S07	W17	.317	11066	5.7	250	-N	C		.36			F	
LOCK	06	2337	0000D	2345	S07	W19	.347	11066	5.6	230	-F	C						
383 PALE	07	0159	0201	0200	N14	E90	1.000	11077	13.8	2	-B	C					4	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35384	07	0230	0239	0234	S13	W20	.403	11066	5.6	9	--F		.21				2 2 2 4	
PALE	07	0230	0237	0235	S13	W20	.403	11066	5.6	70	-N	C	.19				DE	
CRON	07	0230	0239	0233	S13	W20	.403	11066	5.6	9	-F	1 C	0233 .22	.23				
385 PALE	07	0305	0315	0309	S13	W21	.417	11066	5.6	100	--N	C	.23				DE 3	
GRP35389	07	0845	0936	0903	S07	W24	.422	11066	5.6	51	-N		1.24				4 3 3 10	
CATA	07	0830E	09150	0830	S08	W23	.412	11066	5.6	450	-N		0830 1.04	1.14		162		
ABST	07	0845E	09140	0859	S07	W24	.422	11066	5.6	290	-F	P	0859 1.53	1.70			CEJ	
TACH	07	0857E	0936	0906	S07	W25	.437	11066	5.5	390	-N	C	0906 1.09	1.21	2.13	48	E	
CAPS	07	0906E	09300		S08	W22	.397	11066	5.7	240	-N	1 V	0907 1.10	1.20		160		
GRP35391	07	1142	1205	1149	S10	E43	.694	11070	10.7	23	--N		.46				2 2 2 5	
RAMY	07	1142	11510	1147	S09	E43	.692	11070	10.7	90	-N	C	.62				DE	
CATA	07	1150E	1205	1150	S10	E42	.682	11070	10.6	150	-N		.29	.38		195		
394 MCMA	07	1412	1419	1414	N15	E90	1.000	11077	14.3	7	-N	C	1414				3	
GRP35395	07	1522	1545	1525	N20	E56	.850	11073	11.8	23	--F		.32				3 3 2 3	
CANR	07	1516	1535	1522	N15	E56	.841	11073	11.8	19	-N	1 C	1522 .32	.59				
MCMA	07	1522	1536	1524	N18	E58	.863	11073	12.0	14	-F	C	1524 .31	.60			EL	
BOUL	07	1528	1555	1529	N25	E55	.854	11073	11.8	27	1F	1 V						
CANR	07	1529	1545	1532	N20	E56	.850	11073	11.8	16	-N	1 C	1532 .32	.61				
GRP35396	07	1555	1608	1559	N13	E84	.995	11077	14.0	13	--F		.16				4 4 2 4	
CANR	07	1555	1611	1557	N13	E82	.991	11077	13.8	16	-N	2 C	1557 .11					
BOUL	07	1555	1608	1559	N12	E82	.991	11077	13.8	13	-N	1 C	1559 .21					
LOCK	07	1555	1607	1600	N11	E82	.991	11077	13.8	12	-F	C					D	
MCMA	07	1556	1605	1600	N15	E90	1.000	11077	14.4	9	-F	C	1600					
GRP35397	07	1938	2000	1943	S10	E35	.592	11070	10.4	22	--F						2 2 0 4	
LOCK	07	1935	2010	1944	S10	E35	.592	11070	10.4	35	-F	C						
BOUL	07	1941	1950	1942	S10	E35	.592	11070	10.4	9	-F	1 V						
GRP35398	07	1949	2002	1955	S10	E32	.551	11070	10.2	13	--F		.19				2 1 1 4	
PALE	07	1949	2002	1955	S10	E32	.551	11070	10.2	13	-F	C	.19					
BOUL	07	1950	2002	1954	S11	E43	.697	11070	11.1	12	-F	1 V						
GRP35403	08	0012	0024	0014	N11	E89	1.000	11077	14.7	12	--N		.15				2 2 2 4	
MANI	08	0010	0027	0013	N08	E90	1.000	11077	14.8	17	-N	2	0013 .10	.32				
CRON	08	0014	0021	0015	N14	E87	.999	11077	14.5	7	-N	V	.20					
GRP35405	08	0318	0348	0322	N13	E78	.979	11077	14.0	30	18		1.01				4 3 3 6	
CRON	08	0317	0340	0320	N12	E78	.979	11077	14.0	23	1N	1 C	0320 .86					
PALE	08	0318	03360	03230	N14	E78	.979	11077	14.0	180	-8	C	.72				DE	
MANI	08	0318	0355	0322	N12	E79	.982	11077	14.1	37	18	2	0322 1.44	3.71			CDKRX	
KODA	08	0321	0347	0337	N14	E80	.986	11077	14.1	26	18	C	0338 3.78	3.80	10.00			
GRP35406	08	0426	0450	0428	N13	E80	.986	11077	14.2	24	18		1.48				4 4 4 5	
TEHR	08	0425	0452	0427	N14	E81	.988	11077	14.3	27	-8	C	.55				F	
MANI	08	0425	0451	0428	N13	E80	.986	11077	14.2	26	18	2	0428 1.24	3.18				
CRON	08	0426	0445	0427	N11	E78	.979	11077	14.0	19	1N	1 C	0427 .86				CDKRX	
KODA	08	0429	0453	0430	N14	E80	.986	11077	14.2	24	18	C	0433 3.25	3.20	12.00			
GRP35407	08	0622	0633	0623	S14	E29	.529	11070	10.4	11	--F		.33				2 2 2 4	
CRON	08	0622	0632	0623	S14	E28	.516	11070	10.4	10	-F	1 C	0623 .43	.50				
TEHR	08	0622	0633	0623	S13	E29	.523	11070	10.4	11	-N	C	.23				F	
GRP35408	08	0626	0649	0629	N14	E79	.983	11077	14.2	23	-N		1.16				4 3 3 4	
CRON	08	0623	0650	0625	N12	E78	.979	11077	14.1	27	-N	1 C	0625 .32					
TEHR	08	0625	0644	0627	N15	E80	.986	11077	14.3	19	-N	C	.45				DE	
KODA	08	0629	0652	0631	N14	E78	.979	11077	14.1	23	18	C	0634 2.71	2.70	5.25		CDK	
MANI	08	0642E	0649		N15	E80	.986	11077	14.3	70	-N	2	0644 .72	1.85				
GRP35409	08	0709	0721	0713	N14	E79	.983	11077	14.2	12	--N		.35				2 2 2 5	
TEHR	08	0709	0721	0712	N14	E78	.979	11077	14.1	12	-N	C	.28				FH	
MANI	08	0709	07150	0713	N13	E80	.986	11077	14.3	60	-N	2	0713 .41	1.06				
GRP35410	08	0811	0828	0814	N12	E77	.975	11077	14.1	17	-N		.51				2 2 2 4	
CRON	08	0811	0828	0814	N11	E76	.971	11077	14.0	17	-N	1 C	0813 .32					
CANR	08	0815E	0827		N13	E78	.979	11077	14.2	120	-N	2 V	.70	2.00				
GRP35413	08	1144	1228	1200	N17	E44	.726	11073	11.8	44	-N		.98				3 3 3 5	
TEHR	08	1144	1240	1156	N16	E43	.711	11073	11.7	56	-8	C	.59				FDE	
CAPE	08	1144	1227	1200	N20	E46	.758	11073	11.9	43	-N	C	1200 1.38	2.00			H	
CANR	08	1200E	1217	1205	N14	E42	.693	11073	11.7	170	-N	2 C	1205 .97	1.35				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35414 CANR CAPE	08	1252	1306	1255	N12	E78	.979	11077	14.4	14	-N			.63				2 2 2 4
	08	1252	1306	1253	N12	E78	.979	11077	14.4	14	-N	1 C	1253	.22				
	08	1252	1305	1256	N12	E78	.979	11077	14.4	13	-N	1 C	1256	1.04				
GRP35415 CANR MCMA BOUL	08	1543	1553	1545	N14	E41	.681	11073	11.7	10	--F			.32			3 3 2 4 E	
	08	1543E	1557	1545	N14	E41	.681	11073	11.7	14D	-N	1 C	1545	.32	.44			
	08	1543	1550	1544	N15	E42	.696	11073	11.8	7	-F	1 C	1544	.31	.40			
	08	1544	1552	1545	N13	E41	.678	11073	11.7	8	-F	1 V						
GRP35417 BOUL CANR	08	1612	1619	1613	N11	E73	.958	11077	14.2	7	--N			.38			2 2 2 4	
	08	1612	1618	1613	N09	E73	.957	11077	14.2	6	-N	1 C	1613	.43				
	08	1612	1619	1613	N12	E73	.958	11077	14.2	7	-N	1 C	1613	.32				
GRP35421 BOUL PALE LOCK	08	1802	1811	1805	S10	E22	.408	11070	10.4	9	--F			.34			3 3 2 4 F	
	08	1802	1810	1805	S11	E22	.414	11070	10.4	8	-F	1 C	1805	.32	.32			
	08	1802	1813	1806	S10	E22	.408	11070	10.4	11	-F	1 C		.36				
	08	1802	1810	1805	S10	E22	.408	11070	10.4	8	-F	1 C						
GRP35422 LOCK PALE BOUL	08	1807	1821	1811	N14	E44	.716	11073	12.1	14	--F			.20			3 3 2 4 DE	
	08	1806	1822	1810	N15	E44	.719	11073	12.1	16	-F	1 C						
	08	1807	1822	1811	N15	E43	.708	11073	12.0	15	-F	1 C		.19				
	08	1808	1820	1811	N13	E44	.713	11073	12.1	12	-F	1 C	1811	.21	.31			
GRP35424 LOCK BOUL	08	2001	2013	2005	N15	E44	.719	11073	12.1	12	--F			.21			2 2 1 3	
	08	2000	2015	2005	N15	E44	.719	11073	12.1	15	-F	1 C						
	08	2002	2011	2005	N14	E44	.716	11073	12.1	9	-F	1 C	2005	.21	.31			
GRP35425 LOCK BOUL	08	2013	2031	2017	N11	E76	.971	11077	14.5	18	--F			.21			2 2 1 2	
	08	2010	2030	2017	N11	E76	.971	11077	14.5	20	-F	1 C						
	08	2015	2032	2017	N11	E76	.971	11077	14.5	17	-F	1 C	2017	.21				
426 LOCK	08	2031	2048	2039	S11	E21	.400	11070	10.4	17	--F	1 C					2	
GRP35428 BOUL LOCK	08	2145	2159	2149	N11	E75	.967	11077	14.5	14	--F			.11			2 2 1 2	
	08	2144	2158	2148	N10	E73	.958	11077	14.4	14	-F	1 C	2148	.11				
	08	2145	2200	2150	N11	E76	.971	11077	14.6	15	-F	1 C						
429 BOUL	08	2200	2215	2204	S11	E20	.386	11070	10.4	15	--F	1 C	2204	.21	.23		2	
	08	2230	2250	NO FLARE PATROL														
430 CRON	08	2239	2303	2247	N12	E42	.687	11073	12.1	24	-N	1 V					1	
GRP35431 PALE VORO	09	0037	0051	0042	N16	E43	.712	11073	12.3	14	-N			.74			2 2 2 4 F D	
	09	0029	0053	0037U	N15	E42	.697	11073	12.2	24	-F	1 C		.63				
	09	0045	0049	0046	N17	E43	.715	11073	12.3	4	-B	1 C	0046	.84	1.20	66		
GRP35434 VORO CRON PALE MITK	09	0142	0159	0144	N15	E38	.649	11073	11.9	17	-N			1.29			4 4 4 4 E F H	
	09	0140	0156	0144	N16	E37	.641	11073	11.8	16	1N	1 C	0144	1.66	2.10	70		
	09	0142	0200	0144	N13	E37	.629	11073	11.8	18	-N	1 C	0143	.75	.97			
	09	0143	0209	0145	N14	E39	.657	11073	12.0	26	-N	1 C		1.18				
	09	0143	0151	0144	N15	E37	.637	11073	11.8	8	-N	1 C	0144	1.55	1.90			
GRP35436 CRON MITK VORO	09	0343	0353	0344	N14	E40	.669	11073	12.2	10	--N			.50			3 3 3 4 E E	
	09	0343	0355	0345	N12	E40	.663	11073	12.2	12	-N	1 C	0344	.43	.57			
	09	0343	0357	0344	N14	E39	.657	11073	12.1	14	-N	1 C	0344	.52	.70			
	09	0344	0348	0344	N16	E40	.677	11073	12.2	4	-B	1 C	0344	.56	.70	75		
GRP35437 CRON MANI	09	0623	0646	0625	N15	E36	.625	11073	12.0	23	--N			.69			2 2 2 3	
	09	0623	0651	0625	N14	E34	.595	11073	11.8	28	-N	1 C	0624	.65	.80			
	09	0629E	0641		N15	E38	.649	11073	12.1	12D	-N	2	0631	.72	.95			
GRP35439 CRON MANI	09	0726	0751	(0739)	S10	E14	.294	11070	10.4	25	--N			.41			2 2 1 3	
	09	0726	0750		S09	E13	.271	11070	10.3	24	-N	1 V						
	09	0738E	0751		S10	E15	.307	11070	10.4	13D	-N	2	0739	.41	.43			
GRP35440 CRON MANI	09	0751	0802	0754	S11	E21	.399	11070	10.9	11	--F			.47			2 2 2 4	
	09	0749	0803	0752	S11	E19	.371	11070	10.8	14	-F	1 C	0752	.32	.40			
	09	0753	0801	0755	S10	E23	.421	11070	11.1	8	-N	2	0755	.62	.68			

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	DATE	START	END	MAX. PHASE	APPROX.	CENTRAL DISTANCE	MCMA PLAGE REGION	CMP DAY	TIME UT				MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %		
					LAT. MER. DIST.													
	1970 DEC																	
GRP35442	09	0800	0840	0806	N13	E73	.959	11077	14.8	40	1N			1.40			7 5 5 8	
BUCA	09	0800E	0855D		N12	E67	.924	11077	14.4	55D	1N	C	0805	2.21				
CRON	09	0800	0835	0804	N11	E71	.948	11077	14.7	35	1N	1 C	0804	1.18				
HTPR	09	0800	0840	0805	N12	E70	.943	11077	14.6	40	1N	C	0805	.93			K	
MONT	09	0801E	0811	0805	N16	E71	.950	11077	14.7	10D	-N	C	0805	2.06				
ONDR	09	0804E	0818D		N10	E62	.887	11077	14.0	14D	2N	V	0815		3.20		G	
CANR	09	0809E	0820D	0809U	N14	E73	.959	11077	14.8	11D	-N	1 C	0809	.75				
ARCE	09	0809E	0845D		N13	E78	.979	11077	15.2	36D	1B	C	0815	2.06			HTF	
MONT	09	0813	0825D	0816	N16	E71	.950	11077	14.7	12D	-N	C	0816	1.55				
ARCE	09	0845	0905D	0900	N13	E60	.874	11077	13.9	20D	-F	C	0900	.34				
GRP35443	09	0904	0932	0913	N15	E35	.612	11073	12.0	28	--F			1.42			2 2 2 5	
HTPR	09	0903	0913	0908	N14	E32	.569	11073	11.8	10	-F	C	0908	.52	.60		E	
ARCE	09	0905	0936D	0918	N15	E35	.612	11073	12.0	31D	1F	C	0918	2.31	2.90		HF	
HTPR	09	0923	0927	0923	N15	E38	.649	11073	12.2	4	-F	C	0923	.21	.30		D	
5 STATIONS REPORTING GROUP 35446. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35446	09	1137	1157	1141	N14	E35	.607	11073	12.1	20	-B			.69			3 3 3 3	
CANR	09	1136	1203	1139	N14	E35	.607	11073	12.1	27	-B	1 C	1139	.65	.81			
MEUD	09	1137	1148	1138	N14	E35	.607	11073	12.1	11	-B	C	1138	1.03	1.30		E	
HUAN	09	1145E	1201D	1146U	N15	E35	.612	11073	12.1	16D	-N	1 P	1146	.40	.50		E	
35446	09	1151	1235	(1155)	N15	E33	.587	11073	12.0	44	*-F			1.22			2 2 2 5	
ARCE	09	1151E	1213D		N15	E32	.574	11073	11.9	22D	1F	P	1155	2.22	2.70		F	
HTPR	09	1155E	1235		N14	E33	.582	11073	12.0	40D	-F	C	1155	.21	.30		E	
GRP35451	09	1243	1253	1244	S10	E11	.255	11070	10.4	10	--F			.33			2 2 2 4	
HUAN	09	1242	1255	1244	S09	E11	.244	11070	10.4	13	-F	1 C	1244	.35	.47		D	
HTPR	09	1244	1250	1244	S10	E10	.242	11070	10.3	6	-F	C	1244	.31	.30			
GRP35453	09	1347	1403	1350	N20	E37	.662	11073	12.3	16	--N			.32			3 3 3 3	
HTPR	09	1347	1405	1349	N20	E37	.662	11073	12.3	18	-N	C	1349	.21	.30			
MEUD	09	1347	1400	1349	N20	E36	.650	11073	12.3	13	-N	C	1349	.52	.70		D	
CANR	09	1348	1405	1351	N20	E37	.662	11073	12.4	17	-N	1 C	1351	.22	.29			
09 1504 1507 NO FLARE PATROL																		
454 HUAN	09	1507E	1518D	1508U	S08	E90	1.000	11080	16.4	11D	--F	1 P	1508	.10			E 1	
GRP35455	09	1511	1535	1513	N16	E34	.605	11073	12.2	24	--N			.50			2 2 2 3	
HUAN	09	1509	1518D	1513	N16	E33	.592	11073	12.1	9D	-N	1 P	1513	.40	.50		E	
CANR	09	1513	1535		N15	E33	.587	11073	12.1	22	-N	2 V		.60	.70			
HUAN	09	1521E	1533D	1524	N16	E35	.617	11073	12.3	12D	-N	1 P	1524	.30	.37		D	
GRP35456	09	1547	1603	1549	N11	E63	.895	11077	14.4	16	--N			.44			3 3 2 3	
CANR	09	1542	1601	1546	N11	E61	.880	11077	14.2	19	-N	1 C	1546	.32	.68			
HUAN	09	1546E	1601	1549U	N13	E64	.904	11077	14.5	15D	-B	1 P	1549	.56	1.22		E	
BOUL	09	1553	1606	1553	N10	E65	.909	11077	14.5	13	-N	1 V						
458 MCMA	09	1703	1709	1704	N14	E27	.503	11073	11.7	6	--F	C	1704	.31	.30		E 3	
GRP35459	09	1713	1723	1715	N12	E58	.855	11077	14.1	10	--N			.26			4 4 3 4	
MCMA	09	1708	1722	1711	N12	E60	.872	11077	14.2	14	-N	C	1711	.15	.30		D	
CANR	09	1709	1719D	1712	N11	E57	.845	11077	14.0	10D	-N	1 C	1712	.22	.41			
PALE	09	1717E	1726	1717U	N11	E59	.863	11077	14.1	9D	-N	C		.42			DE	
BOUL	09	1718	1720	1718	N12	E57	.847	11077	14.0	2	-N	1 V						
GRP35460	09	1752	1814	1755	N03	E85	.996	11077	16.1	22	1B			1.44			3 3 1 3	
PALE	09	1750	1813	1756	N03	E81	.988	11077	15.8	23	1B	C		1.44			OES	
MCMA	09	1752	1808D	1754	N02	E88	.999	11077	16.3	16D	1N	C	1754				E	
BOUL	09	1755	1815	1755	N04	E87	.999	11077	16.3	20	1B	1 V						
461 PALE	09	1830	1839	1832	S09	E08	.207	11070	10.4	9	--F	C		.17			3	
GRP35463	09	1907	1924	1911	N16	E61	.885	11077	14.4	17	--F			.46			3 3 3 3	
PALE	09	1905	1924	1914	N15	E60	.876	11077	14.3	19	-F	C		.81			F	
HUAN	09	1907E	1911D	1908	N17	E61	.886	11077	14.4	4D	-N	1 P	1908	.21	.42		D	
MCMA	09	1909	1914D	1911	N16	E61	.885	11077	14.4	5D	-F	C	1911	.36	.70		EH	
464 PALE	09	1936E	1942	1937U	N02	E80	.985	11077	15.8	6D	--F	C		.17			DEU 3	
GRP35465	09	1944	1958	1951	N16	E26	.504	11073	11.8	14	--F			.72			2 2 1 2	
PALE	09	1941	2106	1951	N16	E27	.517	11073	11.8	85	-N	C		.72			FS	
BOUL	09	1947	1958	1950	N15	E25	.484	11073	11.7	11	-F	1 V						
GRP35466	09	2011	2106	2020	N15	E27	.510	11073	11.9	55	-F			1.94			2 2 2 2	
PALE	09	1941	2106	2026	N16	E27	.517	11073	11.8	85	1N	C		2.79				
PALE	09	1941	2106	2056	N16	E27	.517	11073	11.8	85	-B	C		.63				
BOUL	09	2011	2020D	2014U	N14	E27	.503	11073	11.9	9D	-F	1 C	2014	1.08	1.24			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
467 PALE	09	2033	2051	2033	N13	E56	.839	11077	14.1	18	--F	C		.17				1
GRP35468	09	2145	2230	2204	N15	E26	.497	11073	11.9	45	1F			1.96				3 3 2 3
LOCK	09	2142	2230	2203	N14	E27	.503	11073	11.9	48	1F	C					K	
LOCK	09	2142	2230	2147	N12	E24	.450	11073	11.7	48	-F	C					K	
CRON	09	2148	2230		N16	E27	.517	11073	11.9	42	-N	V		1.20				
PALE	09	2150E	2205D	2205U	N16	E27	.517	11073	11.9	15D	1F	C		2.71				
4 STATIONS REPORTING GROUP 35469. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35469	09	2354	0019	2358	N15	E27	.510	11073	12.0	25	-B			.84				4 4 4 4
MITK	09	2354	0021	2357	N15	E28	.523	11073	12.1	27	-B	C	2357	.93	1.10			E
CRON	09	2354	0011	2359	N13	E28	.510	11073	12.1	17	-N	2	C	2358	.43	.50		
VORO	09	2354	0010	2357	N16	E28	.530	11073	12.1	16	-B			.74	.80			114
PALE	09	2355	0032	2359	N15	E25	.484	11073	11.9	37	-N	C		1.27				EJL DE
469 CRON	09	2355	0021	0000	N13	E20	.403	11073	11.5	26	*-N	2	C	0000	.22	.24		4
GRP35471	10	0206	0225	0214	N15	E55	.833	11077	14.2	19	--N			.52				2 2 2 5
PALE	10	0206	0222	0214	N16	E54	.826	11077	14.1	16	-N	C		.72				DE
CRON	10	0206	0227	0213	N14	E55	.832	11077	14.2	21	-N	1	C	0213	.32	.58		
GRP35475	10	0417	0453	0420	N13	E22	.431	11073	11.8	36	--N			.80				2 2 2 3
CRON	10	0416	0450	0420	N13	E22	.431	11073	11.8	34	-N	1	C	0420	.86	.95		DE
TEHR	10	0417	0456	0419	N13	E21	.417	11073	11.8	39	-N	C		.73				
GRP35478	10	0803	0811	0804	S10	W02	.173	11070	10.2	8	--N			.34				2 2 2 6
CRON	10	0800	0815	0804	S10	E02	.173	11070	10.5	15	-N	1	C	0804	.32	.32		
MANI	10	0805	0807		S10	W05	.190	11070	10.0	2	-N	2		.36	.36			
GRP35480	10	0849	0906	0853	N18	E27	.533	11073	12.4	17	--N			.25				3 3 3 7
HTPR	10	0845	0905	0853	N18	E27	.533	11073	12.4	20	-F	C	0853	.21	.20			D
MONT	10	0850	0907	0852	N19	E28	.553	11073	12.5	17	-N	C	0852	.21				
CRON	10	0852	0906	0855	N17	E26	.513	11073	12.3	14	-N	1	C	0855	.32	.38		
GRP35481	10	0925	0932	0927	N11	E52	.797	11077	14.3	7	--N			.83				5 5 3 8
HTPR	10	0921	0927	0923	N12	E52	.799	11077	14.3	6	-N	C	0923	.21	.30			D
CRON	10	0924	0936	0927	N10	E50	.775	11077	14.1	12	-N	1	C	0927	.22	.34		
MONT	10	0925	0929	0928	N11	E52	.797	11077	14.3	4	-N	C	0928	2.06				2.58
HURB	10	0928E	0930D	0928	N12	E57	.847	11077	14.7	2D	-B							
WEND	10	0928	0940		N12	E49	.768	11077	14.1	12	-N							
GRP35482	10	1210	1238	1217	N20	E24	.515	11073	12.3	28	-N			1.33				5 5 5 5
HTPR	10	1204	1240	1212	N20	E24	.515	11073	12.3	36	-N	C	1212	.31	.40			D
MONT	10	1211	1233	1217	N19	E25	.518	11073	12.4	22	-N	C	1217	1.55				
CAPE	10	1215	1240	1221	N20	E24	.515	11073	12.3	25	-N	C	1221	1.12	1.30			E
HUAN	10	1216E	1238D	1218	N21	E23	.514	11073	12.2	22D	-N	1	P	1218	.56	.64		
WEND	10	1222E	1238		N19	E24	.506	11073	12.3	16D	1N	V		3.09				
4 STATIONS REPORTING GROUP 35483. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35483	10	1304	1327	1311	N19	E22	.484	11073	12.2	23	1N			3.75				4 4 4 5
WEND	10	1255	1332		N17	E20	.441	11073	12.0	37	2N	V		11.34				
HTPR	10	1302	1325	1306	N20	E24	.515	11073	12.3	23	-F	C	1306	.31	.40			D
WEND	10	1302	1326		N19	E23	.495	11073	12.3	24	1N	V		3.09				
HUAN	10	1305	1328	1310	N20	E22	.493	11073	12.2	23	-N	2	C	1310	.35	.40		D
MONT	10	1306	1326	1312	N19	E25	.518	11073	12.4	20	-N	C	1312	.72				
MONT	10	1313	1327	1317	N15	E19	.410	11073	12.0	14	-N	C	1317	2.27				
35483	10	1244	1317	1256	N15	E18	.398	11073	11.9	33	*-N			1.83				3 3 3 5
HTPR	10	1244	1325	1252	N15	E18	.398	11073	11.9	41	-F	C	1252	1.34	1.40			L
MONT	10	1249E	1311	1255	N15	E19	.410	11073	12.0	22D	1N	C	1255	3.40				
HUAN	10	1301E	1314D	1302	N15	E17	.386	11073	11.8	13D	-N	1	P	1302	.76	.82		E
GRP35485	10	1429	1510	1433	N16	E17	.396	11073	11.9	41	1B			4.61				7 7 7 7
HTPR	10	1424	1530	1429	N17	E17	.407	11073	11.9	66	1B	C	1429	2.58	2.80			EL
HUAN	10	1428	1457D	1432	N17	E16	.397	11073	11.8	29D	1N	1	P	1432	2.30	2.50		E
MONT	10	1429	1456D	1441	N15	E19	.410	11073	12.0	27D	1B	C	1441	5.16				
MCMA	10	1429	1529	1431	N18	E16	.408	11073	11.8	60	-B	C	1431	1.29	1.40			EL
CAPE	10	1429	1456	1432	N15	E17	.386	11073	11.9	27	1B	C	1432	2.52	2.70			HV
LOCA	10	1430E	1445D	1430	N15	E16	.374	11073	11.8	15D	2N	S	1430	5.04	5.50			
WEND	10	1434	1514D		N17	E19	.430	11073	12.0	40D	3N	V		13.41				
GRP35486	10	1436	1453	1442	N15	E48	.764	11077	14.2	17	-N			1.55				4 4 4 7
HUAN	10	1434	1445	1435	N09	E52	.794	11077	14.5	11	-F	1	C	1435	.30	.50		E
WEND	10	1434	1454		N14	E48	.761	11077	14.2	20	1N	V		3.09				
HUAN	10	1436	1457D	1441	N17	E48	.769	11077	14.2	21D	-N	1	P	1441	.51	.79		E
MONT	10	1436	1450	1445	N15	E49	.774	11077	14.3	14	-N	C	1445	2.27				
MCMA	10	1437	1450	1439	N15	E46	.742	11077	14.1	13	-N	C	1439	.31	.60			E

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
	1970 DEC																		
GRP35487	10	1543	1608	1550	N17	E15	.386	11073	11.8	25	--F				.67			2 2 2 4	
HUAN	10	1542	1605	1550	N15	E14	.352	11073	11.7	23	-F	1	C	1550	.30	.32	E		
MCMA	10	1544	1610D	1549	N18	E16	.408	11073	11.9	26D	-F		C	1549	1.03	1.10	EL		
488 HUAN	10	1626	1648	1640	N20	E21	.483	11073	12.3	22	--F	1	C	1640	.15	.16	D 2		
GRP35489	10	1700	1718	1705	N20	E21	.483	11073	12.3	18	--F				.25			2 2 1 2	
HUAN	10	1700	1715	1705	N20	E21	.483	11073	12.3	15	-F	1	C	1705	.25	.28	D		
LOCK	10	1700	1720	1705	N19	E21	.472	11073	12.3	20	-F		C						
490 LOCK	10	1712	1740	1725	N15	E44	.720	11077	14.0	28	--F		C				2		
GRP35491	10	1741	1755	1744	S09	W03	.161	11070	10.5	14	-B				1.45			3 3 2 3	
LOCK	10	1740	1754	1743	S10	W04	.183	11070	10.4	14	-B		C				V		
HUAN	10	1741	1753	1746	S09	W03	.161	11070	10.5	12	-B	1	C	1746	1.27	1.28	E		
PALE	10	1742	1757	1744	S07	W03	.129	11070	10.5	15	-N		C		1.63		DE		
GRP35492	10	1912	1950	1934	N16	E16	.385	11073	12.0	38	-B				1.71			2 2 1 2	
LOCK	10	1852	1920	1900	N14	E14	.340	11073	11.8	28	-F		C						
PALE	10	1910E	1940D	1932U	N16	E16	.385	11073	12.0	30D	-N		C		1.71		DE		
LOCK	10	1914	1930	1917	N19	E20	.462	11073	12.3	16	-B		C						
LOCK	10	1925	1950	1935	N14	E13	.329	11073	11.8	25	-N		C						
493 LOCK	10	1955	2002	1957	S09	W05	.175	11070	10.5	7	--F		C				1		
494 LOCK	10	2010	2020	2014	N10	E44	.707	11077	14.1	10	--F		C				1		
495 LOCK	10	2028	2040	2032	S10	W05	.190	11070	10.5	12	-N		C				1		
496 LOCK	10	2240	2300	2250	N12	E44	.711	11077	14.2	20	--F		C				2		
GRP35497	10	2251	2315	2259	N14	E12	.318	11073	11.9	24	-N				1.10			3 3 2 3	
LOCK	10	2240	2249	2244	N14	E12	.318	11073	11.8	9	-F		C						
PALE	10	2248E	2310D	2258	N15	E12	.331	11073	11.9	22D	-N		C		1.49		DE		
CRON	10	2252E	2315		N13	E11	.295	11073	11.8	23D	-N		V		.70				
LOCK	10	2252	2315	2300	N14	E12	.318	11073	11.9	23	-F		C						
GRP35498	10	2355	0025	2358	N16	E42	.701	11077	14.1	30	--N				.54			3 2 2 4	
MITK	10	2355	0025	2358	N16	E43	.712	11077	14.2	30	-F		C	2358	.52	.70	D		
VORO	11	0001E	0031		N18	E41	.698	11077	14.1	30D	-B		C	0006	.56	.80	EJ		
CRON	11	0015E	0018		N13	E43	.703	11077	14.2	3D	-N		V		.70		81		
GRP35499	11	0211	0227	0214	S09	W08	.204	11070	10.5	16	--N				.90			4 4 4 5	
MITK	11	0210	0228	0212	S08	W08	.191	11070	10.5	18	-N		C	0212	1.44	1.50	E		
PALE	11	0210	0222	0215	S08	W07	.179	11070	10.6	12	-F		C		.72		DE		
CRON	11	0211	0222	0213	S09	W08	.204	11070	10.5	11	-N	1	C	0213	.32	.32			
MANI	11	0212	0235	0217	S10	W08	.216	11070	10.5	23	-B	2	C	0217	1.13	1.15			
GRP35500	11	0335	0342	0337	N11	E45	.721	11077	14.5	7	-N				.73			3 3 3 5	
MITK	11	0334	0338	0335	N12	E45	.724	11077	14.5	4	-N		C	0335	.93	1.30	D		
CRON	11	0334	0340	0336	N10	E43	.695	11077	14.4	6	-N	1	C	0335	.65	.90			
MANI	11	0336	0348	0341	N12	E47	.746	11077	14.7	12	-N	2	C	0341	.62	.92			
GRP35501	11	0351	0417	0355	N04	E64	.900	11077	16.0	26	1N				1.37			3 3 3 5	
CRON	11	0350	0413	0355	N04	E64	.900	11077	16.0	23	-N	1	C	0354	.65				
TEHR	11	0351	0416	0355	N04	E64	.900	11077	16.0	25	1N		C		1.28		FH		
MITK	11	0351	0423D	0355	N04	E65	.907	11077	16.0	32D	1N		C	0355	2.17	5.00	EH		
GRP35503	11	0436	0454	0438	N20	E16	.434	11073	12.4	18	--B				.66			4 3 3 4	
TEHR	11	0435	0445D	0437	N19	E15	.412	11073	12.3	10D	-B		C		.73		F		
MANI	11	0436	0456		N21	E18	.465	11073	12.5	20	-B	2		0440	.83	.94			
CRON	11	0436	0452	0437	N19	E15	.412	11073	12.3	16	-N	1	C	0437	.43	.47			
SIBE	11	0436E	0451	0440	N20	E02	.350	11073	11.3	15D	-N		C	0442	1.01	1.07	86		
GRP35505	11	0557	0617	0600	N17	E39	.671	11077	14.2	20	--N				.21			3 3 3 5	
TEHR	11	0556	0614	0558	N18	E38	.664	11077	14.1	18	-N		C		.19		DE		
CRON	11	0557	0618	0600U	N15	E39	.663	11077	14.2	21	-F	1	C	0600	.22	.29			
MANI	11	0558	0620	0602	N18	E40	.687	11077	14.2	22	-N	2		0602	.21	.28			
GRP35506	11	0721	0732	0722	N15	E08	.297	11073	11.9	11	--F				.25			2 2 2 3	
TEHR	11	0721	0733	0722	N15	E08	.297	11073	11.9	12	-F		C		.27		DE		
CRON	11	0721	0731	0722	N14	E07	.275	11073	11.8	10	-F	1	C	0721	.22	.21			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35507	11	0750	0809	0753	N11	E37	.622	11077	14.1	19	--N			.46			6 6 6 7	
	CRON	11	0749	0810	0751	N09	E36	.603	11077	14.0	21	-N	1 C	0750	.22	.27		
	MONTE	11	0749	0805	0753	N12	E38	.639	11077	14.2	16	-N	C	0753	.77			
	TEHR	11	0750	0816	0753	N11	E37	.622	11077	14.1	26	-N	C		.36		DE	
	HTPR	11	0750	0810	0754	N10	E37	.619	11077	14.1	20	-N	C	0754	.41	.50	D	
	MANI	11	0752	0805		N12	E39	.651	11077	14.3	13	-B	2	0755	.52	.69		
	ARCE	11	0800E	0810		N12	E33	.574	11077	13.8	100	-F	P	0800	.46	.60		
GRP35508	11	0801	0822	0811	N15	E07	.290	11073	11.9	21	--F			.35			4 4 4 9	
	CRON	11	0754	0824	0755	N13	E06	.253	11073	11.8	30	-N	1 C	0755	.22	.21		
	ARCE	11	0800E	0822		N15	E06	.284	11073	11.8	220	-F	C	0800	.66	.70	E	
	MANI	11	0800	0817		N16	E09	.319	11073	12.0	17	-N	2	0807	.26	.27		
	TEHR	11	0810	0825	0811	N16	E07	.305	11073	11.9	15	-F	C		.27		DE	
GRP35509	11	0814	0839	0819	S09	W11	.241	11070	10.5	25	--F			.30			3 3 3 11	
	TEHR	11	0813	0856	0817	S09	W09	.215	11070	10.7	43	-F	C		.27		DE	
	HTPR	11	0814	0830	0821	S10	W12	.264	11070	10.4	16	-N	C	0821	.21	.20	E	
	ARCE	11	0816	0832	0820	S08	W13	.259	11070	10.4	16	-F	C	0820	.43	.50		
GRP35511	11	0854	0923	0859	N16	E06	.299	11073	11.8	29	--F			.51			5 5 5 11	
	CANR	11	0850	0927		N17	E05	.310	11073	11.7	37	-N	2 V		.60	.60		
	ARCE	11	0851	0908D	0902	N14	E05	.262	11073	11.7	170	-F	C	0902	.66	.70		
	CATA	11	0855E	0915D	0855	N16	E07	.305	11073	11.9	200	-N		0855	.23	.24	178	
	CAPS	11	0856E	0908D		N16	E05	.294	11073	11.7	120	-F	2 V	0901	.70	.70	148	
	TEHR	11	0858	0918	0859	N16	E07	.305	11073	11.9	20	-F	C		.36		DE	
GRP35512	11	1025	1053	1031	N10	E36	.606	11077	14.1	28	1B			3.55			9 9 9 9	
	WEND	11	1005E	1056	1032	N08	E36	.600	11077	14.1	51D	2B		9.28				
	TEHR	11	1020	1057	1029	N10	E36	.606	11077	14.1	37	1B	C		3.09		FH	
	CANR	11	1020	1048	1030	N10	E34	.579	11077	14.0	28	1B	2 C	1030	2.90	3.57		
	CATA	11	1024E	1043	1033	N11	E35	.596	11077	14.1	190	-B		1033	1.09	1.11	327	
	CAPS	11	1025	1056	1029	N12	E35	.600	11077	14.1	31	1B	3 P	1029	2.00	2.50	610	
	HTPR	11	1026	1055	1030	N10	E37	.619	11077	14.2	29	1B	C	1030	3.51	4.40		
	CAPP	11	1027E	1050		N10	E36	.606	11077	14.1	23D	1B	C	1028	2.48	3.12		
	CAPE	11	1027	1054	1030	N10	E37	.619	11077	14.2	27	1B	C	1030	4.16	5.10	V	
	MONTE	11	1028	1054	1032	N11	E37	.622	11077	14.2	26	1B	C	1032	3.40		D	
	HTPR	11	1050	1100	1052	N10	E37	.619	11077	14.2	10	-F	C	1052	.21	.20		
GRP35513	11	1049	1100	1051	S08	W12	.245	11070	10.6	11	--N			.47			3 3 3 9	
	CATA	11	1047	1057	1050	S08	W12	.245	11070	10.5	10	-N		1050	.29	.30	195	
	MONTE	11	1049	1057	1052	S08	W11	.231	11070	10.6	8	-N	C	1052	.77			
	TEHR	11	1050	1105	1052	S09	W12	.254	11070	10.6	15	-B	C		.36		DE	
GRP35515	11	1255	1309	1257	S09	W14	.282	11070	10.5	14	--N			.77			5 5 5 9	
	CATA	11	1250	1306	1250	S09	W14	.282	11070	10.5	16	-N		1250	.52	.54	182	
	RAMY	11	1255E	1311D	1256U	S09	W13	.268	11070	10.6	160	-N	C		.72		DE	
	CANR	11	1256	1300	1257	S10	W14	.291	11070	10.5	4	-N	2 C	1257	.32	.32		
	MONTE	11	1256	1311	1302	S09	W13	.268	11070	10.6	15	-N	C	1302	2.06			
	HTPR	11	1258	1315	1301	S10	W15	.305	11070	10.4	17	-F	C	1301	.21	.20		
GRP35516	11	1321	1341	1326	N19	E10	.370	11073	12.3	20	--B			.74			7 7 7 8	
	CATA	11	1318	1340	1318	N19	E09	.363	11073	12.2	22	-B		1318	.58	.63	246	
	RAMY	11	1319	1332D	1332D	N19	E11	.377	11073	12.4	130	-B	C		.41		DE	
	CANR	11	1322	1342	1324	N22	E10	.413	11073	12.3	20	-B	2 C	1324	.43	.47		
	MONTE	11	1323	1336	1325	N20	E10	.384	11073	12.3	13	-N	C	1325	1.55			
	HTPR	11	1323	1327D	1324	N19	E09	.363	11073	12.2	40	-N	C	1324	.72	.80		
	CAPE	11	1323	1340	1326	N20	E11	.391	11073	12.4	17	-N	C	1326	1.12	1.20		
	CAPS	11	1327E	1348D		N15	E08	.297	11073	12.2	210	-B	3 V	1329	.40	.40	204	
8 STATIONS REPORTING GROUP 35517. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35517	11	1430	1501	1437	N13	E43	.703	11077	14.8	31	-N			1.85			8 8 7 9	
	HTPR	11	1428	1530	1440	N13	E41	.679	11077	14.7	62	-N	C	1440	.93	1.20	E	
	LOCA	11	1429	1456D	1440	N12	E38	.639	11077	14.5	27D	1N	P	1440	2.94	3.90		
	CANR	11	1430	1525	1432	N14	E41	.683	11077	14.7	55	-N	2 C	1432	.65	.88		
	CAPS	11	1430E	1453D		N12	E48	.757	11077	15.2	230	-F	2 V	1436	1.20	1.80	145	
	CAPE	11	1430	1453	1436	N12	E43	.700	11077	14.8	23	1N	C	1436	1.77	2.40		
	CATA	11	1430	1455D	1435	N12	E41	.676	11077	14.7	250	-B		1435	1.44	1.98	237	
	MONTE	11	1431	1445D	1437	N11	E41	.673	11077	14.7	140	1N	C	1437	3.40			
	BOUL	11	1434	1537	1440	N13	E45	.726	11077	15.0	63	1N	1 V					
	HTPR	11	1435	1504	1440	N15	E48	.764	11077	15.2	29	-F	C	1440	.31	.40		
	CATA	11	1435	1455D	1435	N14	E47	.751	11077	15.1	200	-N		1435	.29	.45	174	
35517	11	1445	1502	1453	N11	E33	.569	11077	14.1	17	*-B			.94			4 4 3 7	
	CAPE	11	1445	1505	1453	N10	E33	.565	11077	14.1	20	-N	C	1453	1.47	1.80	H	
	HTPR	11	1445	1504	1453	N10	E32	.552	11077	14.0	19	-B	C	1453	1.03	1.10		
	CANR	11	1445	1457	1452	N10	E32	.552	11077	14.0	12	-N	2 C	1452	.32	.39		
	BOUL	11	1446	1501	1452	N12	E35	.600	11077	14.2	15	-B	1 V					

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1979 DEC																	
GRP35518	11	1520	1540	1525	S10	W13	.278	11070	10.7	20	--N				.40			2 2 1 4
CANR	11	1519	1540		S10	W12	.264	11070	10.7	21	-N	2	V		.40	.40		
BOUL	11	1520	1539	1525	S09	W13	.268	11070	10.7	19	-N	1	V					
GRP35519	11	1523	1537	1527	N18	E09	.348	11073	12.3	14	--N				.32			3 3 2 3
CANR	11	1521	1539	1529	N19	E09	.363	11073	12.3	18	-N	2	C	1529	.32	.35		
HTPR	11	1523	1535	1527	N17	E09	.334	11073	12.3	12	-N		C	1527	.31	.30		
BOUL	11	1524	1537	1525	N19	E09	.363	11073	12.3	13	-N	1	V					
GRP35520	11	1614	1622	1617	N14	E06	.268	11073	12.1	8	--F							2 2 0 3
LOCK	11	1613	1622	1616	N14	E06	.268	11073	12.1	9	-F		C					
BOUL	11	1615	1622	1617	N14	E06	.268	11073	12.1	7	-F	1	V					
GRP35523	11	1725	1746	1736	S11	W18	.355	11070	10.4	21	--F				.21			2 2 1 4
LOCK	11	1725	1750	1735	S11	W18	.355	11070	10.4	25	-F		C					
HUAN	11	1736E	1742	1736U	S10	W17	.333	11070	10.5	60	-N	1	P	1736	.21	.22		D
4 STATIONS REPORTING GROUP 35524. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35524	11	1734	1816	1741	N15	E02	.267	11073	11.9	42	-N				.54			3 3 2 4
PALE	11	1732E	1816	1740	N15	E02	.267	11073	11.9	440	-N		C		.62			DE
BOUL	11	1735	1815	1744	N15	E01	.266	11073	11.8	40	-N	1	V					
HUAN	11	1736E	1745U	1740U	N15	E02	.267	11073	11.9	90	-N	1	P	1740	.45	.47		E
35524	11	1730	1812	1753	N14	E02	.250	11073	11.9	42	*-F				1.44			2 2 1 4
LOCK	11	1730	1807	1752	N13	E01	.232	11073	11.8	37	1F		C					
PALE	11	1732E	1816	1754	N15	E02	.267	11073	11.9	440	-N		C		1.44			
GRP35525	11	1832	1839	1837	S07	W18	.328	11070	10.4	7	--F				.30			2 2 1 3
HUAN	11	1827	1836	1833	S10	W17	.333	11070	10.5	9	-F	1	C	1833	.30	.32		E
BOUL	11	1836	1842	1840	S04	W18	.315	11070	10.4	6	-F	2	V					
526 LOCK	11	1911	1927	1916	N18	E06	.330	11073	12.2	16	--F		C					2
GRP35527	11	1916	1942	1921	N17	E30	.563	11077	14.1	26	-N				.40			3 3 1 3
BOUL	11	1915	1944	1917	N14	E31	.558	11077	14.1	29	-N	2	V					
LOCK	11	1916	1948	1919	N14	E32	.571	11077	14.2	32	-N		C					
LOCK	11	1919	1940	1927	N26	E25	.584	11077	13.7	21	-F		C					
HUAN	11	1925E	1934U	1927	N16	E32	.582	11077	14.2	90	-N	1	P	1927	.40	.49		E
GRP35529	11	2018	2100	2027	N14	E01	.249	11073	11.9	42	--F				.21			2 2 1 3
HUAN	11	2016	2024U	2024U	N14	E00	.248	11073	11.8	80	-F	1	P	2024	.21	.21		E
LOCK	11	2020	2100	2030	N13	E01	.232	11073	11.9	40	-F		C					
530 LOCK	11	2042	2100	2051	N06	E47	.735	11077	15.4	18	--F		C					2
GRP35531	11	2236	2303	2242	N15	E30	.551	11077	14.2	27	-N				1.48			4 4 3 4
CRON	11	2236	2300	2241	N15	E30	.551	11077	14.2	24	-N	2	C	2241	.43	.51		
PALE	11	2236	2305	2243	N15	E30	.551	11077	14.2	29	-N		C		1.54			F
LOCK	11	2236	2300	2242	N14	E30	.545	11077	14.2	24	-N		C					
CULG	11	2237	2307	2241	N17	E29	.551	11077	14.1	30	1N		C	2241	2.48	2.88		
	12	0550	0615	NO FLARE PATROL														
	12	0630	0635	NO FLARE PATROL														
6 STATIONS REPORTING GROUP 35532. 0 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35532	11	2205	0125	2241	N16	W02	.284	11073	11.8	200	1N				4.88			5 3 3 6
BOUL	11	2205	2215	2207	N15	W09	.305	11073	11.2	10	-F	1	V					
PALE	11	2206	0000U	2241	N15	W01	.266	11073	11.8	1140	2N		C		8.13			F
HUAN	11	2214E	2236U	2236U	N17	W02	.300	11073	11.8	220	1N	2	P	2236	3.29	3.45		E
CULG	11	2229E	0201U	2310	N19	E01	.332	11073	12.0	2120	3N		P	2310	17.02	17.32		LRU
CRON	11	2235E	0125	2245U	N17	W02	.300	11073	11.8	1700	1N	2	C	2245	3.23	3.40		
35532	11	2210	2228	2226	N17	W01	.299	11073	11.8	18	*1N							2 2 0 5
LOCK	11	2205	0003U	2228	N17	W01	.299	11073	11.8	1180	2N		C					FS
BOUL	11	2214	2228	2223	N16	W01	.282	11073	11.9	14	-N	1	V					
35532	12	0004	0200	0004	N15	W02	.269	11073	11.9	116	*2N				8.13			2 1 1 5
PALE	12	0004E	0200	0004U	N15	W02	.269	11073	11.9	1160	2N		C		8.13			F
MANI	12	0020	0043		N16	E00	.284	11073	12.0	23	1B	2		0020	3.92	4.00		
GRP35533	12	0640	0703	0645	N18	W01	.318	11073	12.2	23	--B				.49			2 2 2 3
MANI	12	0640	0705	0645	N16	W03	.288	11073	12.1	25	-N	2		0645	.52	.54		
CATA	12	0645E	0700	0645	N19	E01	.334	11073	12.4	150	-B			0645	.46	.49		229
GRP35534	12	0642	0703	0645	N08	E22	.399	11077	13.9	21	--B				.46			2 2 2 3
MANI	12	0642	0705	0645	N06	E20	.358	11077	13.8	23	-B	2		0645	.52	.55		
CATA	12	0645E	0700	0645	N10	E24	.440	11077	14.1	150	-N			0645	.40	.46		191

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.													
	1970 DEC																		
GRP35535	12	0732	0753	0736	N10	E23	.425	11077	14.0	21	--N			.50			4 4 4 4		
	CRON	12	0728	0753	0732	N10	E23	.425	11077	14.0	25	-F	1	C	0732	.22	.24		
	MANI	12	0730	0748	0732	N07	E21	.379	11077	13.9	18	-N	2		0732	.72	.78		
	ABST	12	0737	0754	0740	N12	E23	.439	11077	14.0	17	-F		C	0740	.81	.90	56	
	CATA	12	0740E	0755	0740	N10	E24	.440	11077	14.1	150	-B			0740	.23	.26	243	
GRP35536	12	0808	0831	0815	N14	W06	.270	11073	11.9	23	-N			1.79			9 7 7 10		
	CAPS	12	0804E	0833		N13	E07	.262	11073	12.9	290	-N	2	V	0811	.50	.50	190	
	ABST	12	0807	0840	0808	N14	W07	.277	11073	11.8	33	-N		C	0808	1.98	2.00	62	
	MANI	12	0807	0819	0810	N16	W05	.296	11073	12.0	12	1N	2		0810	2.58	2.58		
	BUCA	12	0808E	0828D		N15	W06	.286	11073	11.9	200	1N		C	0810	2.21	2.30		
	CRON	12	0808	0818	0808	N13	W05	.248	11073	12.0	10	-N		V		.90			
	MONT	12	0808	0814	0811	N14	W06	.270	11073	11.9	6	-N		C	0811	2.27			
	CATA	12	0811E	0835	0820	N14	W07	.277	11073	11.8	240	-B			0820	1.09	1.15	263	
	CATA	12	0811E	0816	0811	N21	W05	.375	11073	12.0	50	-B			0811	.29	.31	234	
	MONT	12	0814	0831	0821	N13	W07	.262	11073	11.8	17	1N		C	0821	2.58			
	CAPE	12	0819E	0835	0821	N13	W07	.262	11073	11.8	160	-N		P	0821	1.21	1.30		
	CANR	12	0822E	0842		N14	W07	.277	11073	11.8	200	-N	2	V		.80	.80		
	GRP35537	12	0903	0927	0905	N10	E23	.425	11077	14.1	24	1B			2.69			8 8 8 9	
		CANR	12	0900U	0922	0905	N09	E23	.419	11077	14.1	220	1B	2	C	0905	2.58	2.85	
		ABST	12	0900	0925D	0904	N11	E24	.446	11077	14.2	250	1B		C	0904	2.88	3.20	112
ARCE		12	0902	0945	0904	N10	E22	.411	11077	14.0	43	1F		C	0904	2.09	2.30		
MONT		12	0902	0915D	0905	N10	E24	.440	11077	14.2	130	1B		C	0905	4.54		220	
CAPS		12	0903E	0935D		N08	E24	.429	11077	14.2	32D	-B	3	P	0909	1.60	1.80		
WEND		12	0904	0920		N09	E24	.434	11077	14.2	16	1B		P		4.13			
CAPP		12	0905E	0920		N10	E22	.411	11077	14.0	150	1N		C	0910	2.27	2.53	H	
CATA		12	0905	0920D	0906	N10	E23	.425	11077	14.1	150	-N			0906	1.39	1.55	197	
GRP35538	12	1049	1105	1052	N19	W02	.335	11073	12.3	16	-B			1.60			8 8 8 8		
	CANR	12	1044U	1107	1051	N18	W04	.324	11073	12.1	230	-N	2	C	1051	.65	.68		
	HTPR	12	1045	1105	1050	N18	W03	.321	11073	12.2	20	-B		C	1050	.52	.50		
	MONT	12	1046	1102	1051	N19	W01	.334	11073	12.4	16	-N		C	1051	2.06			
	CAPE	12	1047	1104	1053	N19	W03	.337	11073	12.2	17	-N		C	1053	1.30	1.40	H	
	CATA	12	1049	1057D	1050	N19	W02	.335	11073	12.3	80	-B			1050	.75	.80	282	
	CAPS	12	1050E	1107D		N18	E03	.321	11073	12.7	17D	-B	3	V	1053	1.30	1.40	205	
	WEND	12	1051E	1110		N19	W02	.335	11073	12.3	19D	1N		P		4.13			
	LVOV	12	1057	1102	1057	N18	W03	.321	11073	12.2	5	1B		C	1057	2.06	2.18	80	
GRP35540	12	1431	1448	1436	N01	E40	.643	11077	15.6	17	--N			.57			3 3 3 7		
	CATA	12	1430	1445D	1435	N01	E40	.643	11077	15.6	150	-N			1435	.63	.83	186	
	HUAN	12	1431	1448	1435	N02	E41	.657	11077	15.7	17	-N	2	C	1435	.53	.68		
	CANR	12	1432	1447	1437	N01	E40	.643	11077	15.6	15	-N	2	C	1437	.54	.70		
GRP35541	12	1436	1450	1440	N18	W03	.321	11073	12.4	14	-N			.98			6 6 5 7		
	HUAN	12	1426	1448	1440	N17	W04	.308	11073	12.3	22	-N	2	C	1440	.96	1.01	E	
	CAPE	12	1436	1445D	1440	N18	W05	.328	11073	12.2	9D	-N		P	1440	1.38	1.50	H	
	BOUL	12	1437	1446	1441	N19	W06	.348	11073	12.2	9	-N	2	V					
	CANR	12	1437	1500	1440	N18	W03	.321	11073	12.4	23	-N	1	C	1440	.65	.68		
	LOCA	12	1440E	1446D	1440	N17	W03	.305	11073	12.4	6D	-N		S	1440	1.47	1.50		
	CATA	12	1440	1445D	1441	N19	E03	.337	11073	12.8	5D	-B			1441	.46	.49	251	
	HUAN	12	1449	1512	1452	N17	W06	.317	11073	12.2	23	-F	2	C	1452	.25	.26		
GRP35543	12	1450	1543	1505	N12	E28	.507	11077	14.7	53	1N			1.99			4 4 4 5		
	CANR	12	1448U	1550	1459	N13	E30	.540	11077	14.9	62D	1N	2	C	1459	2.58	3.08		
	HUAN	12	1452	1630	1510	N13	E27	.500	11077	14.6	98	1N	2	C	1510	2.53	2.92	E	
	CATA	12	1454E	1510D	1504	N12	E35	.601	11077	15.2	16D	-B			1504	1.16	1.45	204	
	CATA	12	1454E	1510D	1504	N10	E28	.497	11077	14.7	16D	1B			1504	2.20	2.54	276	
	BOUL	12	1501E	1535	1505	N11	E26	.474	11077	14.6	34D	-F	1	C	1505	.64	.74		
GRP35544	12	1531	1559	1537	N05	E43	.686	11077	15.9	28	--N			.40			2 2 1 3		
	HUAN	12	1530	1610	1539	N04	E42	.672	11077	15.8	40	-N	2	C	1539	.40	.53	D	
	BOUL	12	1532	1548	1534	N06	E43	.687	11077	15.9	16	-N	2	V					
GRP35545	12	1607	1629	1616	N10	E18	.354	11077	14.0	22	--N			.56			4 4 2 4		
	BOUL	12	1603	1628	1617	N11	E18	.363	11077	14.0	25	-B	2	V					
	LOCK	12	1605E	1632	1615	N10	E19	.369	11077	14.1	27D	-N		C					
	CANR	12	1606E	1631		N09	E17	.332	11077	13.9	250	-N	2	V		.20			
	HUAN	12	1612	1625	1616	N11	E18	.363	11077	14.0	13	-F	2	C	1616	.91	.98	E	
GRP35546	12	1740	1800	1746	S07	W29	.495	11070	10.6	20	--F			.29			3 3 2 4		
	HUAN	12	1727	1746	1733	S08	W31	.527	11070	10.4	19	-F	2	C	1733	.38	.45	D	
	PALE	12	1740	1810	1749	S06	W28	.477	11070	10.6	30	-N		C		.36			
	LOCK	12	1740	1755	1745	S08	W29	.498	11070	10.6	15	-F		C					
	HUAN	12	1740	1755	1745	S08	W28	.483	11070	10.6	15	-F	1	C	1745	.21	.24	D	
GRP35547	12	1758	1821	1808	N02	E40	.644	11077	15.7	23	--F			.23			2 2 1 4		
	LOCK	12	1755	1820	1805	N01	E41	.656	11077	15.8	25	-F		C					
	HUAN	12	1801	1822	1810	N03	E39	.631	11077	15.7	21	-N	2	C	1810	.23	.29	E	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H _g	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35548	12	1840	1904	1844	N16	W11	.338	11073	12.0	24	1N			2.86			4 4 3 4	
LOCK	12	1840	1900	1844	N14	W12	.321	11073	11.9	20	1N	C						
BOUL	12	1840	1900	1845	N17	W11	.352	11073	12.0	20	1N	2 C	1845	2.16	2.32			
HUAN	12	1840	1909	1844	N12	W13	.308	11073	11.8	29	-B	2 C	1844	1.62	1.71		E	
PALE	12	1841	1911	1844	N15	W11	.325	11073	12.0	30	1N	C		4.24			F	
HUAN	12	1842	1906	1846	N21	W10	.401	11073	12.0	24	-N	2 C	1846	.56	.61		E	
3 STATIONS REPORTING GROUP 35549. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35549	12	1854	1922	1905	N11	E18	.363	11077	14.1	28	--N			.59			2 2 2 4	
PALE	12	1847	1920	1902	N11	E18	.363	11077	14.1	33	-N	C		.80				
PALE	12	1847	1920	1851	N11	E18	.363	11077	14.1	33	-F	C		.45			F	
HUAN	12	1901	1924	1907	N11	E18	.363	11077	14.1	23	-N	1 C	1907	.38	.41		E	
HUAN	12	1921	1930	1923	N10	E17	.341	11077	14.1	9	-N	2 C	1923	.15	.17		D	
35549	12	1847	1909	1853	N10	E17	.341	11077	14.1	22	*-F			.40			2 2 1 4	
HUAN	12	1845	1902	1853	N10	E17	.341	11077	14.1	17	-N	2 C	1853	.40	.43		E	
LOCK	12	1848	1915	1853	N09	E17	.332	11077	14.1	27	-F	C					H	
3 STATIONS REPORTING GROUP 35551. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35551	12	2048	2115	2053	N11	E17	.349	11077	14.1	27	--F			.28			3 3 1 4	
LOCK	12	2043	2128	2054	N10	E17	.341	11077	14.1	45	-F	C					K	
BOUL	12	2051	2101	2052	N11	E19	.376	11077	14.3	10	-F	1 V					E	
HUAN	12	2051E	2058D	2053	N11	E16	.336	11077	14.1	7D	-N	2 P	2053	.28	.29			
35551	12	2043	2123	2109	N12	E18	.372	11077	14.2	40	*-F			.32			2 2 1 4	
BOUL	12	2005	2117	2111	N12	E17	.358	11077	14.1	72	-F	1 C	2111	.32	.35			
LOCK	12	2043	2128	2107	N11	E18	.363	11077	14.2	45	-N	C					K	
552 LOCK	12	2117	2132	2122	S10	W31	.534	11070	10.6	15	--F	C					3	
553 LOCK	12	2144	2215	2150	N05	E42	.673	11077	16.1	31	--F	C					3	
GRP35555	12	2346	0017	2350	N12	E16	.346	11077	14.2	31	-N			1.81			4 4 3 4	
PALE	12	2345	0000D	2349	N13	E17	.368	11077	14.3	15D	-N	C		1.35			F	
CRON	12	2346	0007	2349	N12	E16	.346	11077	14.2	21	-N	2 C	2349	1.29	1.38			
LOCK	12	2347	0000D	2350	N11	E16	.336	11077	14.2	13D	-B	C					V	
CULG	12	2347	0027	2352	N13	E16	.356	11077	14.2	40	1N	C	2352	2.78	2.89			
GRP35556	13	0016	0031	0021	N18	W10	.359	11073	12.3	15	--F			.25			2 2 2 3	
CRON	13	0015	0034	0021	N18	W09	.352	11073	12.3	19	-N	2 C	0021	.22	.23			
PALE	13	0016	0028	0020	N18	W10	.359	11073	12.3	12	-F	C		.27			F	
GRP35557	13	0038	0122	0056	S11	W34	.578	11070	10.5	44	-N			1.37			3 3 3 3	
CULG	13	0034	0150D	0056	S09	W33	.558	11070	10.5	76D	1N	C	0056	2.68	3.32		H	
PALE	13	0036	0111	0053	S11	W34	.578	11070	10.5	35	-N	C		.99			FH	
CRON	13	0045	0105	0058	S12	W34	.582	11070	10.5	20	-N	2 C	0058	.43	.53			
GRP35558	13	0135	0158	0144	N11	E12	.287	11077	14.0	23	--N			.65			3 3 3 4	
PALE	13	0134	0158	0143U	N14	E10	.303	11077	13.8	24	-N	C		.63			DE	
CRON	13	0135	0200	0143	N09	E13	.278	11077	14.0	25	-N	2 C	0143	.32	.32			
KODA	13	0142E	0155	0146	N11	E13	.299	11077	14.0	13D	-N	V	0142	1.01	1.00	1.72	CD	
GRP35560	13	0513	0525	0516	N09	E12	.265	11077	14.1	12	--N			.74			2 2 2 4	
MITK	13	0512	0524	0515	N09	E12	.265	11077	14.1	12	-N	C	0515	.93	1.00		E	
CRON	13	0513	0525	0517	N09	E11	.252	11077	14.0	12	-N	1 C	0516	.54	.54			
GRP35561	13	0702	0747	0703	N09	E11	.252	11077	14.1	45	-N			.93			3 3 3 4	
ABST	13	0658	0702D	0700	N10	E11	.263	11077	14.1	4D	-N	P	0700	1.62	1.70		EJ	
CRON	13	0700E	0747	0702	N08	E11	.241	11077	14.1	47D	-N	1 C	0701	.43	.43			
CATA	13	0708	0745D	0708	N10	E10	.251	11077	14.0	37D	-B		0708	.75	.78	246		
GRP35562	13	0832	0858	0832	N13	E17	.369	11077	14.6	26	--N			.33			2 2 2 4	
CRON	13	0832	0840	0832	N12	E16	.347	11077	14.6	8	-N	V		.30				
CANR	13	0832	0915		N13	E18	.382	11077	14.7	43	-N	2 V		.35	.40			
GRP35563	13	0946	1012	0956	N10	E09	.240	11077	14.1	26	--N			.55			3 3 3 5	
CANR	13	0942	1012		N10	E09	.240	11077	14.1	30	-N	2 V		.35	.40			
ARCE	13	0945E	1004D	0956	N11	E09	.253	11077	14.1	19D	-F	C	0956	.60	.60		E	
CATA	13	0950	1000D	0955	N10	E09	.240	11077	14.1	10D	-B		0955	.69	.72	209		
GRP35565	13	1130	1145	1132	N18	W16	.413	11073	12.3	15	--N			.42			2 2 2 2	
CATA	13	1130	1145	1130	N18	W16	.413	11073	12.3	15	-N		1130	.52	.57	191		
CANR	13	1134E	1145	1134	N18	W15	.403	11073	12.4	11D	-N	1 C	1134	.32	.35			
GRP35566	13	1239	1249	1240	N14	E12	.323	11077	14.4	10	--F			.48			2 2 2 3	
CANR	13	1238	1247	1239	N11	E11	.275	11077	14.4	9	-F	1 C	1239	.32	.32			
CATA	13	1240	1250	1240	N17	E12	.362	11077	14.4	10	-N		1240	.63	.67	178		

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OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IM-POR-TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
	1970 DEC																
3 STATIONS REPORTING GROUP 35567. 0 STATIONS OBSERVING AND NOT REPORTING.																	
GRP35567	13	1255	1330	1300	N13	W23	.447	11073	11.8	35	18		3.72				3 3 3 3
CANR	13	1254	1330	1257	N13	W22	.434	11073	11.9	36	18	1 C	1257 3.55	3.96			
CATA	13	1255	13100	1302	N13	W23	.447	11073	11.8	150	18		1302 3.19	3.58			251
RAMY	13	1301E	13100	1301E	N13	W23	.447	11073	11.8	90	18	C		4.43			F
567 CATA	13	1255	13100	1302	N20	W21	.487	11073	12.0	150	*-B		1302 .58	.67			229 3
	13	1417	1429	NO FLARE PATROL													
GRP35568	13	1533	1542	1534	N13	E10	.290	11077	14.4	9	-N						2 2 0 4
BOUL	13	1533	1542	1534	N13	E09	.281	11077	14.3	9	-N	2 V					DE
RAMY	13	1533	15350		N12	E10	.277	11077	14.4	20	-N	C					
GRP35571	13	1715	1736	1722	N09	E04	.181	11077	14.0	21	--F		.21				2 2 1 2
LOCK	13	1715	1735	1722	N09	E03	.175	11077	13.9	20	-F	C					
BOUL	13	1718U	1737U	1722U	N09	E04	.181	11077	14.0	190	-F	1 C	1722 .21	.21			
GRP35572	13	1830	1843	1833	N10	E04	.197	11077	14.1	13	-B		1.11				5 5 4 5
PALE	13	1827	1843	1832	N09	E04	.181	11077	14.1	16	-N	C	.91				DE
RAMY	13	1831	1842	1833	N10	E05	.203	11077	14.1	11	-B	C	1.75				F
LOCK	13	1831	1844	1833	N10	E04	.197	11077	14.1	13	-B	C					V
HUAN	13	1831	18380	1833	N10	E04	.197	11077	14.1	70	-B	1 P	1833 1.01	1.03			E
BOUL	13	1833U	1844U	1836U	N10	E04	.197	11077	14.1	110	-B	1 C	1836 .75	.75			
GRP35573	13	2008	2023	2014	N14	W27	.507	11073	11.8	15	--N		.64				5 5 3 5
RAMY	13	2007	2023	2014	N13	W26	.487	11073	11.9	16	-F	C	.83				DE
LOCK	13	2008	2024	2014	N14	W28	.520	11073	11.7	16	-N	C					
BOUL	13	2008	2024	2011	N14	W25	.481	11073	12.0	16	-N	2 V					
HUAN	13	2010	2018	2015	N12	W27	.494	11073	11.8	8	-N	2 C	2015 .45	.57			E
HUAN	13	2012	2017	2015	N17	W26	.517	11073	11.9	5	-F	2 C	2015 .23	.27			E
PALE	13	2014E	2026	2014U	N14	W30	.546	11073	11.6	120	-F	V	.41				F
GRP35574	13	2132	2147	2136	N15	E03	.274	11077	14.1	15	--F						2 2 0 2
LOCK	13	2129	2145	2135	N15	E03	.274	11077	14.1	16	-F	C					
BOUL	13	2135	2149	2137	N15	E02	.272	11077	14.0	14	-F	2 V					
GRP35575	13	2216	2226	2218	N10	E01	.185	11077	14.0	10	--F		.40				2 2 1 5
LOCK	13	2216	2227	2218	N09	E02	.171	11077	14.1	11	-F	C					
CRON	13	2218E	2225	2218E	N11	E00	.202	11077	13.9	70	-F	V	.40				
GRP35576	13	2323	2330	2324	N09	E03	.175	11077	14.2	7	--F		.37				4 4 3 5
LOCK	13	2322	23260	2325	N09	E03	.175	11077	14.2	40	-F	C					
PALE	13	2322	2329	2324	N08	E02	.154	11077	14.1	7	-F	C	.27				F
CRON	13	2323	2330	2323	N09	E03	.175	11077	14.2	7	-N	2 C	2323 .32	.32			
MITK	13	2323	2330	2324	N09	E02	.171	11077	14.1	7	-N	C	2324 .52	.50			E
GRP35577	14	0105	0120	0109	N21	E83	.994	11084	20.3	15	-N		.35				4 4 4 5
PALE	14	0102	01170	0108U	N21	E80	.988	11084	20.0	150	-N	C	.36				
CRON	14	0105	0123	0108	N19	E78	.981	11084	19.9	18	-N	2 C	0107 .22				
VORO	14	0106	0119	0110	N24	E86	.998	11084	20.5	13	-B	C	0110 .28	1.00			64 D
MITK	14	0107	0118	0110	N21	E89	1.000	11084	20.7	11	-N	C	0110 .52				D
GRP35579	14	0129	0134	0130	N12	E01	.221	11077	14.1	5	--F		.19				2 2 2 6
PALE	14	0129	0134	0129	N13	E01	.238	11077	14.1	5	-F	C	.27				F
CRON	14	0129	0133	0131	N11	E01	.204	11077	14.1	4	-N	2 C	0130 .11	.11			
GRP35581	14	0547	0552	0548	N12	W01	.221	11077	14.2	5	--B		.37				2 2 2 4
CRON	14	0547	0551	0548	N11	E00	.204	11077	14.2	4	-N	1 C	0547 .22	.21			
MITK	14	0547	0553	0548	N12	W02	.223	11077	14.1	6	-B	C	0548 .52	.50			E
GRP35582	14	0722	0755	0732	N01	E18	.310	11077	15.7	33	--F		1.06				2 2 2 4
ABST	14	0721E	07460	0734	N01	E18	.310	11077	15.7	250	-F	P	0734 1.80	1.90			FJ
CRON	14	0722	0755	0730	N01	E17	.294	11077	15.6	33	-F	1 C	0729 .32	.32			
GRP35583	14	0933	0946	0937	N12	E03	.227	11077	14.6	13	--N		.22				2 2 2 5
CRON	14	0933	0944	0937	N11	E03	.210	11077	14.6	11	-N	1 C	0937 .22	.21			
CANR	14	0933	0948	0937U	N12	E03	.227	11077	14.6	15	-N	1 C	0937 .22	.21			
GRP35584	14	0944	1006	0948	N13	W02	.240	11077	14.3	22	--N		.70				2 2 2 5
CRON	14	0943	1006	0949	N13	W02	.240	11077	14.3	23	-N	1 C	0949 .75	.75			
CANR	14	0945	09480	0947U	N12	W01	.221	11077	14.3	30	-N	1 C	0947 .65	.64			
GRP35585	14	1037	1050	1042	N03	E17	.299	11077	15.7	13	--F		1.02				3 3 3 4
CANR	14	1035	1055		N03	E17	.299	11077	15.7	20	-F	2 V	1.00	1.00			
CAPE	14	1038	1050	1042	N03	E16	.283	11077	15.6	12	-N	C	1042 1.25	1.30			
CRON	14	1040E	1046		N02	E19	.329	11077	15.9	60	-F	V	.80				

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH FLARE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35586	14	1339	1408	1345	N03	E14	.250	11077	15.6	29	--N			.90				4 4 4 6
HUAN	14	1335	1430	1345	N03	E14	.250	11077	15.6	55	-N	2	C	1345	.80	.83		E
RAMY	14	1339	14050	1345	N03	E15	.267	11077	15.7	260	-N		C		1.86			U
MCMA	14	1341	14000	1345	N03	E15	.267	11077	15.7	190	-F		C	1345	.52	.50		E
CANR	14	1342	1356	1345	N03	E13	.234	11077	15.5	14	-N	1	C	1345	.43	.43		
GRP35587	14	1342	1356	1349	S04	W55	.820	11070	10.4	14	-N			.70				4 4 4 6
RAMY	14	1337	1358	1349	S02	W55	.819	11070	10.4	21	-N		C		.62			DE
HUAN	14	1340	1356	1348	S06	W53	.800	11070	10.6	16	-N	1	C	1348	.76	1.30		D
CANR	14	1344	1356	1348	S05	W55	.820	11070	10.4	12	-N	1	C	1348	.43	.75		
CAPE	14	1346	1355	1349	S03	W55	.819	11070	10.4	9	-N		C	1349	.99	1.80		H
GRP35588	14	1512	1549	1518	N05	E18	.324	11077	16.0	37	--F			.44				2 2 2 4
RAMY	14	1512	15450	1517	N04	E18	.319	11077	16.0	330	-F		C		.52			DE
HUAN	14	1512	1549	1518	N05	E17	.308	11077	15.9	37	-F	2	C	1518	.35	.37		E
590 RAMY	14	1630	1636	1632	S03	W56	.829	11070	10.5	6	--F		C		.31			DE 3
GRP35591	14	1641	1649	1643	S05	W56	.830	11070	10.5	8	--F			.27				3 3 2 3
LOCK	14	1640	1648	1642	S06	W56	.830	11070	10.5	8	-F		C					
RAMY	14	1640	1651	1644	S03	W56	.829	11070	10.5	11	-F		C		.31			DE
CANR	14	1642	1647	1643	S06	W55	.820	11070	10.6	5	-N	1	C	1643	.22	.38		
GRP35592	14	1701	1719	1703	N15	E79	.984	11084	20.6	18	--F			.32				2 2 1 3
CANR	14	1701	1717	1703	N16	E78	.981	11084	20.6	16	-N	1	C	1703	.32			
RAMY	14	1701	1721	1703	N14	E79	.983	11084	20.6	20	-F		C					DE
593 CANR	14	1702	1717	1705	N18	E72	.957	11084	20.1	15	--N	1	C	1705	.11			3
594 LOCK	14	1747	1753	1750	S06	W56	.830	11070	10.5	6	--F		C					3
GRP35596	14	1851	1900	1853	S12	E66	.916	11085	19.7	9	--F			.32				2 2 2 5
PALE	14	1850	1858	1853	S12	E65	.909	11085	19.7	8	-F		C		.23			
RAMY	14	1851	1902	1853	S12	E66	.916	11085	19.7	11	-F		C		.41			DE
597 RAMY	14	1957E	20120	1959	N19	E72	.958	11084	20.2	150	--F		C					DE 3
GRP35598	14	2219	2228	2223	N11	W04	.215	11077	14.6	9	--N			.29				3 3 2 4
PALE	14	2218	2229	2221	N10	W04	.199	11077	14.6	11	-N		C		.36			
LOCK	14	2219	2227	2221	N11	W05	.221	11077	14.6	8	-N		C					
CRON	14	2224E	2229	2227	N11	W04	.215	11077	14.6	50	-N	2	C	2227	.22	.21		F
GRP35600	14	2229	0009	2307	N05	W02	.106	11077	14.8	100	1N			5.09				5 4 3 5
CULG	14	2213E	0103	2315	N05	W02	.106	11077	14.8	1700	2N		P	2315	8.04	7.80		RS
PALE	14	2227	2358	2304	N08	E02	.156	11077	15.1	91	1N		C		3.35			SU
PALE	14	2227	2358	2253	N08	E02	.156	11077	15.1	91	1N		C		2.96			SU
LOCK	14	2230	00000	2305	N04	W02	.090	11077	14.8	900	2F		C					S
CRON	14	2231	0013	2302	N03	W04	.096	11077	14.6	102	1N	1	C	2302	3.87	3.87		
MITK	14	2340E	0023	2341	N04	W02	.090	11077	14.8	430	1N		C	2341	5.05	5.10		BF
GRP35602	15	0859	0930	0905	N05	E06	.146	11077	15.8	31	--N			.96				5 5 5 6
TEHR	15	0858	0937	0901	N05	E06	.146	11077	15.8	39	-N		C		.45			DE
HTPR	15	0859	0920	0904	N05	E07	.159	11077	15.9	21	-N		C	0904	.41	.40		
CRON	15	0859	0932	0905	N04	E06	.135	11077	15.8	33	-N	1	C	0905	.32	.32		
CAPE	15	0900	0935	0905	N05	E06	.146	11077	15.8	35	-N		C	0905	.99	1.00		
ABST	15	0909E	0928	0910	N05	E06	.146	11077	15.8	190	1N		P	0910	2.61	2.60	59	EJ
GRP35603	15	1105	1127	1111	N14	E66	.920	11084	20.4	22	--F			.27				2 2 2 6
TEHR	15	1105	1128	1110	N14	E64	.907	11084	20.3	23	-F		C		.23			DE
HTPR	15	1105	1126	1112	N13	E67	.926	11084	20.5	21	-F		C	1112	.31	.60		
	15	1353	1355		NO FLARE PATROL													
605 RAMY	15	1353E	1400	1353E	S04	W67	.920	11070	10.6	70	-N		V		.62			DE 3
607 RAMY	15	1510	1535	1514U	N16	E70	.946	11084	20.9	25	--N		C		.41			DE 3
GRP35608	15	1707	1730	1712	N12	E67	.925	11084	20.7	23	--F			.36				2 2 2 3
HUAN	15	1704E	17140	1710	N12	E66	.919	11084	20.7	100	-F	1	P	1710	.30	.68		D
RAMY	15	1709	1730	1713U	N11	E67	.925	11084	20.7	21	-N		C		.41			DE
609 RAMY	15	2052	2109	2057	N14	E59	.868	11084	20.3	17	--F		C		.52			DE 2
610 PALE	15	2104	2111	2106	N09	W24	.436	11077	14.1	7	--N		C		.15			2
611 PALE	15	2144	2200	2149	S03	W76	.970	11070	10.2	16	1N		C		1.44			F 1

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.													
	1970 DEC																		
GRP35612 MANI CULG	15	2227	2235	2231	S07	W74	.961	11070	10.4	8	-N				.78				2 2 2 4
	15	2225E	2233		S10	W75	.966	11070	10.3	80	-N	2		2225	.72	1.75			R
	15	2228	2237D	2231	S04	W73	.956	11070	10.5	90	1N		P	2231	.83				
GRP35613 PALE MITK CRON	16	0102	0126	0105	N05	W03	.117	11077	15.8	24	-N				.96				3 3 3 5
	16	0101	0129	0104	N05	W03	.117	11077	15.8	28	-B		C		1.35				UH
	16	0102	0124	0105	N06	W02	.127	11077	15.9	22	-F		C	0105	.93	.90			EH
	16	0107E	0125		N03	W05	.112	11077	15.7	180	-N		V		.60				
GRP35615 MITK CRON	16	0445	0455	0447	S10	E44	.703	11085	19.5	10	--N				.42				2 2 2 5
	16	0445	0455	0447	S09	E44	.701	11085	19.5	10	-N		C	0447	.52	.70			E
	16	0445	0454	0446	S11	E43	.693	11085	19.4	9	-N	2	C	0446	.32	.45			
GRP35622 RAMY CAPE CANR HUAN HUAN CATA CATA	16	1206	1234	1217	N17	E50	.793	11084	20.3	28	-N				.75				5 5 5 6
	16	1204	1230	1211	N17	E50	.793	11084	20.3	26	-N		C		1.24				DE
	16	1207	1235	1215	N18	E49	.786	11084	20.2	28	-F		C	1215	.95	1.50			
	16	1207	1232	1212	N16	E50	.790	11084	20.3	25	-N	2	C	1212	.65	1.05			
	16	1218E	1240	1225	N15	E52	.807	11084	20.4	220	-N	1	P	1225	.33	.54			E
	16	1218E	1240	1221	N18	E48	.776	11084	20.1	220	-N	1	P	1221	.28	.44			D
	16	1220E	1235D	1220	N18	E48	.776	11084	20.1	150	-N			1220	.58	.94		191	
	16	1220E	1235D	1220	N14	E51	.795	11084	20.3	150	-N			1220	.52	.87		174	
626	RAMY	16	1550	1557		N13	E83	.993	11088	22.9	7	--F		C					DE 3
GRP35627 RAMY HUAN BOUL PALE	16	1738	1749	1741	S11	E68	.929	11087	21.8	11	-N				.59				4 4 4 4
	16	1737	1753	1740	S12	E69	.935	11087	21.9	16	-F		C		.83				DE
	16	1738	1748	1741	S10	E69	.935	11087	21.9	10	-B	1	C	1741	.35				E
	16	1739	1748	1741	S12	E68	.929	11087	21.8	9	-N	1	C	1741	.64				F
	16	1741E	1747	1742U	S11	E65	.908	11087	21.6	60	-N		C		.54				
GRP35630 PALE BOUL HUAN	16	1853	1905	1855	N03	W18	.316	11077	15.4	12	--N				.30				3 3 2 4
	16	1846	1900	1849	N04	W17	.304	11077	15.5	14	-N		C		.45				DE
	16	1857	1908	1857	N03	W20	.348	11077	15.3	11	-N	2	V						
	16	1857E	1907	1858	N03	W16	.284	11077	15.6	100	-N	1	P	1858	.15	.16			D
632	PALE	16	2243	2300	2247	N13	W30	.543	11077	14.7	17	--F		C		.19			2
GRP35633 CRON MANI	17	0401	0422	0405	N11	E47	.746	11084	20.7	21	--N				.64				2 2 2 5
	17	0401	0428	0405	N10	E44	.709	11084	20.5	27	-N	1	C	0404	.75	1.07			
	17	0402E	0415		N12	E50	.781	11084	20.9	130	-N	2		0404	.52	.80			
GRP35639 HTPR CRON MONT ARCE CANR	17	0948	1001	0952	N12	E39	.655	11084	20.3	13	-N				.65				5 4 4 9
	17	0946	0955	0949	N13	E40	.671	11084	20.4	9	-N		C	0949	.83	1.00			E
	17	0948	1007	0950	N11	E39	.651	11084	20.3	19	-N	1	C	0949	.43	.57			
	17	0950	0957	0952	N11	E39	.651	11084	20.3	7	-N		C	0952	1.13				
	17	0951	1000D	0952	N10	E49	.766	11084	21.1	90	-N		C	0952	1.10	1.80			
	17	0955E	1006	0956	N11	E38	.639	11084	20.3	110	-N	1	C	0956	.22	.28			
GRP35642 HTPR RAMY CANR MONT ZURI HUAN WEND CAPS	17	1305	1316	1308	N21	E55	.849	11084	21.7	11	-N				.85				8 8 7 9
	17	1302	1315	1306	N24	E55	.857	11084	21.7	13	-F		C	1306	.62	1.20			
	17	1304	1319	1307	N22	E57	.868	11084	21.8	15	-F		C		.52				DE
	17	1305	1315	1307	N21	E54	.841	11084	21.6	10	-N	2	C	1307	.43	.79			
	17	1305	1315	1309	N19	E56	.853	11084	21.7	10	-N		C	1309	2.27				
	17	1306	1314	1308	N21	E55	.849	11084	21.7	8	-N		C	1308	.77	1.40			
	17	1306E	1317	1308	N23	E53	.838	11084	21.5	110	-N	2	P	1308	.61	1.16			D
	17	1306	1318		N19	E56	.853	11084	21.7	12	-N								
	17	1307E	1315D		N21	E54	.841	11084	21.6	80	-F	3	V	1309	.70	1.30		145	
	GRP35643 HUAN RAMY	17	1619	1648	1637	N18	E29	.564	11084	19.9	29	--N				.43			
17		1619	1648D	1637	N18	E29	.564	11084	19.9	290	-N	2	P	1637	.43	.53			E
17		1621	1648	1626	N18	E32	.600	11084	20.1	27	-F		C		.62				DE
GRP35645 BOUL PALE BOUL PALE RAMY RAMY	17	1836	1906	1844	N18	E35	.635	11084	20.4	30	--F				.50				3 3 3 3
	17	1831	1906	1839	N14	E38	.650	11084	20.6	35	-F	1	C	1839	.21	.28			
	17	1833	1906	1846	N18	E38	.669	11084	20.6	33	-F		C		.45				F
	17	1835	1901	1841	N18	E32	.600	11084	20.2	26	-F	1	C	1841	.32	.40			
	17	1836	1903	1838	N20	E32	.613	11084	20.2	27	-F		C		.19				
	17	1836	1856	1838	N20	E31	.602	11084	20.1	20	-F		C		.31				DE
	17	1838	1909	1846	N16	E38	.659	11084	20.6	31	-F		C		.52				DE
GRP35646 PALE PALE BOUL RAMY LOCK PALE	17	1916	1959	1927	N11	E35	.600	11084	20.4	43	--N				.64				4 3 3 4
	17	1913	1951	1926	N10	E35	.596	11084	20.4	38	-N		C		.55				
	17	1913	1951	1915	N10	E35	.596	11084	20.4	38	-F		C		.27				
	17	1914	2010	1924	N11	E34	.587	11084	20.4	56	-N	1	C	1924	.64	.80			
	17	1921	1941D	1924	N11	E36	.613	11084	20.5	200	-N		C		.72				DE
	17	1933E	1955	1935	N11	E33	.573	11084	20.3	220	-F		C						
	17	2005	2017	2007	N10	E35	.596	11084	20.5	12	-F		C		.36				F

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY					TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.													
	1970 DEC																		
GRP35648	17	2046	2106	2057	N12	E33	.578	11084	20.3	20	--F				.21				2 2 1 4
BOUL	17	2046	2106	2055	N11	E32	.560	11084	20.3	20	-F	1	V						D
HUAN	17	2055E	2059D	2058	N12	E33	.578	11084	20.3	40	-N	1	P	2058	.21	.25			
GRP35649	17	2106	2122	2109	N11	E34	.587	11084	20.4	16	--F				.64				3 3 2 4
LOCK	17	2100	2125	2108	N11	E35	.600	11084	20.5	25	-F		C						
BOUL	17	2106	2120	2109U	N11	E33	.573	11084	20.4	14	-F	1	C	2109	.64	.78			F
PALE	17	2111	2121	2111	N10	E35	.596	11084	20.5	10	-F		C		.63				
GRP35650	17	2114	2122	2118	N21	E82	.992	11089	24.0	8	--N				.15				2 2 2 3
BOUL	17	2114	2120	2117	N21	E81	.990	11089	24.0	6	-F	1	C	2117	.11				
PALE	17	2114	2124	2118	N21	E83	.994	11089	24.1	10	-B		C		.19				
GRP35652	17	2210	2226	2213	N10	E33	.569	11084	20.4	16	--F				.34				2 2 2 4
BOUL	17	2210	2225	2212U	N09	E32	.551	11084	20.3	15	-F	1	C	2212	.32	.39			F
PALE	17	2214E	2226D	2214U	N10	E34	.583	11084	20.5	120	-F		C		.36				
GRP35655	18	0034	0046	0035	N11	E32	.561	11084	20.4	12	--N				.61				3 3 3 5
VORO	18	0031	0043	0034	N12	E31	.552	11084	20.3	12	-B		C	0034	.84	1.00		74	EJ
CRON	18	0035	0047	0036	N10	E31	.542	11084	20.3	12	-N	2	C	0035	.43	.51			F
PALE	18	0035E	0047	0036U	N11	E33	.574	11084	20.5	120	-F		C		.55				
GRP35657	18	0154	0201	0155	N13	E35	.609	11084	20.7	7	--N				.37				2 2 2 6
VORO	18	0152	0159	0154	N13	E35	.609	11084	20.7	7	-B		C	0154	.46	.60		71	D
PALE	18	0156	0203	0156	N12	E34	.592	11084	20.6	7	-F		C		.27				
GRP35658	18	0227	0239	0228	N11	E31	.547	11084	20.4	12	--F				.19				2 2 2 6
CRON	18	0226	0239	0227	N10	E29	.515	11084	20.3	13	-N	1	C	0227	.11	.13			F
PALE	18	0228	0238	0229	N11	E32	.561	11084	20.5	10	-F		C		.27				
GRP35661	18	0349	0407	0349	N11	E29	.520	11084	20.3	18	--F				.68				2 2 2 5
CRON	18	0348	0407	0349	N10	E29	.515	11084	20.3	19	-N	2	C	0349	.43	.50			
MITK	18	0350	0351D		N12	E28	.512	11084	20.3	10	-F		P	0351	.93	1.10			E
GRP35666	18	0855	0904	0855	N12	E31	.552	11084	20.7	9	--N				.27				3 2 2 7
ABST	18	0830	0905	0832	N11	E29	.520	11084	20.5	35	1F		C	0832	2.07	2.40		50	EJ
CATA	18	0855E	0905	0855	N12	E30	.539	11084	20.6	100	-N			0855	.23	.28		176	
CRON	18	0858E	0903		N12	E32	.566	11084	20.8	50	-N		V		.30				
GRP35670	18	1006	1015	1008	N19	E30	.584	11084	20.7	9	--N				.61				3 3 3 7
ABST	18	1005	1012D	1007	N18	E29	.565	11084	20.6	70	-F		P	1007	.90	1.10		54	DJ
MONT	18	1006	1015	1010	N20	E30	.592	11084	20.7	9	-N		C	1010	.77				
CATA	18	1007E	1015D	1007	N19	E30	.584	11084	20.7	80	-N			1007	.17	.21		186	
GRP35671	18	1108	1143	1118	N18	E21	.473	11084	20.0	35	-N				2.16				4 4 4 4
CAPE	18	1105	1147	1116	N18	E21	.473	11084	20.0	42	-N		C	1116	1.47	1.60			FDE
TEHR	18	1110	1142	1115	N18	E20	.462	11084	20.0	32	-N		C		1.09				
MONT	18	1119E	1139	1119	N18	E20	.462	11084	20.0	200	1N		C	1119	4.54				U
RAMY	18	1120E	1145D	1120E	N18	E22	.484	11084	20.1	250	-N		V		1.55				
GRP35672	18	1218	1241	1221	S11	E83	.992	11090	24.7	23	-N				.36				2 2 1 4
TEHR	18	1217	1245	1222	S11	E84	.994	11090	24.8	28	-N		C		.36				FDE
RAMY	18	1218	1237	1220	S10	E82	.990	11090	24.7	19	-N		C						DE
GRP35673	18	1350	1401	1352	N22	E73	.965	11089	24.1	11	--N				.32				2 2 2 5
RAMY	18	1350	1400	1351	N22	E73	.965	11089	24.1	10	-N		C		.41				DE
CANR	18	1350	1401	1353	N22	E72	.961	11089	24.0	11	-N	2	C	1353	.22				
GRP35675	18	1418	1500	1429	S10	E81	.987	11090	24.7	42	-N				.59				4 4 3 6
HUAN	18	1410	1441D	1431	S09	E80	.985	11090	24.6	310	-N	1	P	1431	.51				E
CANR	18	1420	1449	1426	S10	E79	.981	11090	24.5	29	-N	1	C	1426	.32				DE
RAMY	18	1420	1451	1426	S11	E82	.990	11090	24.7	31	-N		C						
CAPE	18	1421	1510	1433	S11	E83	.992	11090	24.8	49	-F		C	1433	.95				D
HUAN	18	1449	1508	1457	S07	E80	.985	11090	24.6	19	-F	1	C	1457	.15				
677 HUAN	18	1557	1627	1604	S06	E80	.985	11090	24.7	30	--F	1	C	1604	.25				E 3
GRP35678	18	1703	1711	1705	N21	E70	.950	11089	24.0	8	--N				.26				2 2 2 3
HUAN	18	1701	1706D	1705U	N21	E69	.945	11089	23.9	50	-N	1	P	1705	.21				D
RAMY	18	1704	1711	1705	N20	E70	.949	11089	24.0	7	-N		C		.31				DE
GRP35679	18	1729	1837		S08	E79	.981	11090	24.7	68	--N				.30				2 2 1 2
RAMY	18	1729	1752	1733	S10	E79	.981	11090	24.7	23	-N		C						DE
HUAN	18	1752E	1837	1758	S07	E78	.978	11090	24.6	450	-N	1	P	1758	.30				E
RAMY	18	1806	1815D		S09	E79	.981	11090	24.7	90	-N		C						DE

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMT PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hc	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35680 HUAN HUAN RAMY	18	1756	1808	1801	N16	E20	.442	11084	20.2	12	-N			1.22				2 2 2 2
	18	1755	1807	1800	N16	E19	.430	11084	20.2	12	-N	2	C	1800	.89	.98		E
	18	1758	1808	1803	N18	E18	.441	11084	20.1	10	-N	2	C	1803	.15	.17		D
	18	1802E	1806D	1802E	N15	E21	.444	11084	20.3	40	-N		C		1.55			DE
681 RAMY	18	1811E	1815D	1813	N11	E21	.410	11084	20.3	40	--N		C		.62			DE 3
	18	1900	1912	NO FLARE PATROL														
	18	1915	1921	NO FLARE PATROL														
GRP35682 PALE RAMY	18	1955	2017	2004	S11	E77	.974	11090	24.6	22	-N			.78				2 2 1 2
	18	1955	2017	2004	S11	E76	.970	11090	24.5	22	-N		C	.78				HF
	18	2001E	2007D		S10	E78	.978	11090	24.7	60	-N		V					DE
683 PALE	18	2138	2156	2139	S10	E83	.992	11090	25.1	18	--N		C		.19			H 1
684 CULG	18	2207E	2232		S10	E74	.961	11090	24.5	250	1N		P	2207	1.34			HR 2
GRP35685 CRON PALE	18	2208	2230	2210	N10	E19	.375	11084	20.3	22	-N			1.30				2 1 1 3
	18	2208E	2230	2210E	N10	E19	.375	11084	20.3	220	-N		V	1.30				DE
	18	2219	2235	2222	N12	E19	.392	11084	20.4	16	-N		C	.81				
686 CULG	18	2302	2333	2320	S09	E74	.961	11090	24.5	31	1N		C	2320	.93			H 3
GRP35687 PALE CRON VORO	19	0230	0242	0233	N16	E24	.491	11084	20.9	12	--N			.83				3 3 3 5
	19	0230	0240	0234	N16	E25	.503	11084	21.0	10	-F		C	.91				F
	19	0230	0244	0232	N15	E24	.483	11084	20.9	14	-N	2	C	0232	.75	.86		
	19	0231	0241	0233	N16	E23	.479	11084	20.8	10	-B		C	0233	.84	.90	91	E
GRP35689 TEHR CRON KODA	19	0601	0621	0605	S11	E71	.946	11090	24.6	20	-N			1.24				3 3 3 5
	19	0600	0631	0605	S10	E71	.946	11090	24.6	31	-N		C	.73				FH
	19	0602	0620	0604	S13	E72	.952	11090	24.7	18	-N	2	C	0603	.54			
	19	0605E	0613	0606	S11	E70	.940	11090	24.5	80	1N		V	0605	2.46	2.50	2.60	LU
6 STATIONS REPORTING GROUP 35690. 2 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35690 CRON MONT TEHR CRON ONDR CRON CAPE	19	0809	0838	0812	N18	E08	.357	11084	19.9	29	1N			1.68				5 4 3 7
	19	0808	0853	0811	N17	E08	.342	11084	19.9	45	-N	2	C	0810	1.18	1.21		
	19	0809	0824	0812	N18	E09	.364	11084	20.0	15	1B		C	0812	3.40			
	19	0810	0855	0813	N18	E08	.357	11084	19.9	45	-N		C		.45			FDE
	19	0812	0829	0817	N10	E12	.284	11084	20.2	17	-N	2	C	0817	.54	.54		
	19	0813E	0827D		N16	E06	.315	11084	19.8	140	2F		V	0815			1.60	
	19	0821	0824	0822	N24	E06	.439	11084	19.8	3	-N	2	C	0822	.11	.12		
	19	0822E	0854		N16	E10	.342	11084	20.1	320	-N		P	0822	1.25	1.30		F
	19	0822	0904	0833	N16	E10	.342	11084	20.1	42	*-N			2.08				2 2 2 8
	19	0822	0904	0833	N18	E09	.364	11084	20.0	42	1B		C	0833	3.40			
GRP35691 TEHR MONT	19	0828E	0853D		N13	E10	.300	11084	20.1	250	-F		C	0828	.76	.80		
	19	0810	0841	0815	N11	E13	.307	11084	20.3	31	--N			.64				2 1 1 7
	19	0810	0841	0815	N11	E13	.307	11084	20.3	31	-N		C	.64				FDE
GRP35692 TEHR CRON CANR MONT	19	0814	0830	0819	N10	E13	.296	11084	20.3	16	-N		C	0819	1.13			
	19	0851	0903	0853	S11	E74	.961	11090	24.9	12	-N			.62				4 4 4 7
	19	0848	0859	0854	S10	E71	.946	11090	24.7	11	-N		C	.36				DE
	19	0850	0857	0852	S12	E75	.966	11090	25.0	7	-N		V	.60				
	19	0852	0915		S11	E72	.951	11090	24.8	23	-N	2	V	.40	1.00			
GRP35698 HTPR WEND TEHR	19	0853	0900	0854	S11	E78	.978	11090	25.2	7	-N		C	0854	1.13			
	19	1148	1206	1154	N11	W70	.944	11077	14.2	18	-N			1.64				3 3 3 3
	19	1147	1200	1154	N10	W72	.954	11077	14.1	13	-F		C	1154	.52			
	19	1147E	1206		N13	W68	.933	11077	14.4	190	1N		P	4.13				DE
GRP35703 HTPR CANR	19	1149	1211	1154	N10	W71	.949	11077	14.2	22	-N		C	.28				
	19	1232	1248	1234	N25	E01	.445	11084	19.6	16	--N			.21				2 2 2 6
	19	1232	1240	1234	N25	E02	.446	11084	19.7	8	-F		C	1234	.31	.30		
GRP35704 CANR ONDR HTPR	19	1238	1256D		N24	E00	.429	11084	19.5	180	-B	1	V	.10	.10			
	19	1341	1357	1346	N20	E59	.880	11089	24.0	16	--N			.27				3 3 2 5
	19	1334	1401	1341	N19	E59	.878	11089	24.0	27	-N	2	C	1341	.22	.45		
	19	1343E	1355	1349	N20	E59	.880	11089	24.0	120	-F		V	1349			2.20	CD
GRP35706 HUAN WEND HTPR CANR	19	1345	1355	1349	N20	E60	.887	11089	24.1	10	-N		C	1349	.31	.60		
	19	1431	1445	1436	S10	E65	.907	11090	24.5	14	--N			.98				4 4 4 4
	19	1428	1446	1437	S08	E64	.899	11090	24.4	18	-N	1	C	1437	.30	.68		D
	19	1429	1455D		S11	E66	.915	11090	24.6	260	1N		V	3.09				
	19	1433	1437	1435	S10	E65	.907	11090	24.5	4	-F		C	1435	.41	.80		
	19	1434	1440	1437	S11	E64	.901	11090	24.4	6	-N	2	C	1437	.11			

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION				CMP DAY	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α		MAX. INT. %
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35708 HUAN CANR	19	1539	1557	1544	N10	E10	.261	11084	20.4	18	--N			.55				2 2 2 3
	19	1539	1554D	1546	N10	E10	.261	11084	20.4	15D	-N	1	C	1546	.45	.47		E
	19	1539	1557	1541	N10	E10	.261	11084	20.4	18	-N	2	C	1541	.65	.65		
709 HUAN	19	1509	1554D	1528	S15	W89	1.000	11081	13.0	45D	-N	1	P	1528	.43			D 4
709 BOUL	19	1541	1602	1545	S12	W82	.990	11078	13.5	21	*-N	1	V					3
711 HUAN	19	1714	1755	1730	N25	W03	.447	11084	19.5	41	--N	1	C	1730	.40	.44		D 3
712 HUAN	19	1735	1750	1742	S09	E67	.921	11090	24.8	15	--F	1	C	1742	.07			D 2
713 HUAN	19	1819	1840	1827	N26	W03	.462	11084	19.5	21	--N	2	P	1827	.51	.57		E 2
715 RAMY	19	1958E	2013	2005U	S09	E63	.892	11090	24.6	15D	-N		C		.52			DE 3
GRP35717 BOUL HUAN	19	2050	2108	2053	N11	E05	.231	11084	20.2	18	--F			.29				2 2 2 3
	19	2050U	2110U	2053U	N10	E05	.215	11084	20.2	20D	-F	1	C	2053	.32	.32		
	19	2052E	2105	2052U	N11	E04	.225	11084	20.2	13D	-N	1	P	2052	.25	.25		D
718 BOUL	19	2159	2211	2200	N23	W03	.416	11084	19.7	12	-N	1	V					1
719 CRON	19	2222	2229	2223	S12	W85	.996	11078	13.6	7	-N		V		.30			3
	19	2235	2250	NO FLARE PATROL														
	19	2255	2301	NO FLARE PATROL														
GRP35720 CRON PALE	19	2308	2348	2337	N11	E03	.221	11084	20.2	40	--N			.52				2 2 2 2
	19	2308	2348	2334	N10	E03	.204	11084	20.2	40	-N	1	C	2334	.22	.21		
	19	2340E	2342D	2340U	N12	E02	.234	11084	20.1	2D	-N		C		.81			
GRP35721 CRON PALE	19	2341	2355	2349	N24	W06	.439	11084	19.5	14	--N			.29				2 2 2 2
	19	2339	2355	2348U	N23	W05	.421	11084	19.6	16	-N	1	C	2347	.22	.24		
	19	2342	2351D	2350U	N24	W06	.439	11084	19.5	9D	-N		C		.36			
722 CRON	20	0023	0040	0024	N10	E05	.217	11084	20.4	17	--F	2	C	0024	.22	.21		1
723 MANI	20	0046E	0102		N10	E05	.217	11084	20.4	16D	--N	1		0047	.41	.42		2
724 CRON	20	0118	0135	0121U	N20	E53	.831	11089	24.0	17	--N	1	C	0120	.22	.39		1
725 CRON	20	0119	0129	0122	N25	W07	.460	11084	19.5	10	--N	1	C	0121	.43	.49		1
726 CRON	20	0125	0133	0125	S12	E66	.915	11090	25.0	8	--N		V		.30			3
727 CRON	20	0415	0424	0418	N21	E51	.816	11089	24.0	9	--N	2	C	0418	.32	.36		2
GRP35728 CRON TEHR	20	0630	0647	0636	S11	E60	.869	11090	24.8	17	--N			.44				2 2 2 4
	20	0630	0647	0634	S12	E60	.869	11090	24.8	17	-N	2	C	0634	.43	.87		
	20	0637E	0643D	0638	S09	E60	.867	11090	24.8	6D	-N		C		.45			FDE
729 CRON	20	0855E	0907		N12	W10	.289	11084	19.6	12D	--F		V		.30			3
GRP35732 ABST TEHR CRON WEND	20	1002	1048	1021	S11	E60	.869	11090	24.9	46	-N			1.73				4 3 3 7
	20	1002	1037	1006	S09	E63	.892	11090	25.1	35	1F		C	1006	1.89	4.00		EJK
	20	1004	1048	1021	S09	E61	.876	11090	25.0	44	-N		C		.36			DE
	20	1007E	1037		S12	E60	.869	11090	24.9	30D	-N		V		.70			
	20	1018E	1059D		S12	E60	.869	11090	24.9	41D	1N		P		4.13			
	20	1100	1118	1104	N23	W10	.444	11084	19.7	18	--F			.72				2 2 1 5
35733 WEND ABST	20	1036	1130		N23	W09	.439	11084	19.8	54	-N							
	20	1100	1106	1104	N23	W10	.444	11084	19.7	6	-F		C	1104	.72	.80		DJ
	20	1454	1615	1600	N19	E65	.920	11091	25.5	81	--F			.41				2 1 1 3
GRP35737 RAMY HUAN	20	1454	1615	1600	N19	E65	.920	11091	25.5	81	-F		C		.41			DE
	20	1615	1648	1627	N19	E67	.933	11091	25.7	33	-B	2	C	1627	.30			D
	20	1516	1527D	1518U	N10	W04	.211	11084	20.3	11D	--F		C		.31			DE 3
738 RAMY	20	1516	1527D	1518U	N10	W04	.211	11084	20.3	11D	--F		C		.31			
739 BOUL	20	1600	1620	1603	N20	E45	.755	11089	24.0	20	--F	1	V					2
741 BOUL	20	1652	1703	1653	S10	W90	1.000	11078	14.0	11	--F	1	V					2
GRP35742 HUAN PALE RAMY BOUL	20	1729	1758	1737	S09	E12	.244	11087	21.6	29	--N			.76				4 4 3 4
	20	1618	1749D	1740	S09	E12	.244	11087	21.6	91D	-N	1	P	1740	.71	.73		E
	20	1725E	1800	1735	S08	E13	.250	11087	21.7	35D	-N		C		.91			
	20	1730	1742D	1735	S09	E13	.258	11087	21.7	12D	-F		C		.67			DE
	20	1731	1755		S09	E09	.202	11087	21.4	24	-N	1	V					

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35743	20	1804	1813	1806	S08	E57	.840	11090	25.0	9	--F		.47				2 2 2 3	
PALE	20	1804	1813	1806	S07	E56	.830	11090	25.0	9	--F	C	.63					
RAMY	20	1804	1812	1806	S08	E58	.849	11090	25.1	8	--F	C	.31				DE	
GRP35744	20	1837	1914	1841	N26	W16	.523	11084	19.6	37	--F		.32				2 2 2 3	
PALE	20	1837	1905	1841	N26	W16	.523	11084	19.6	28	--N	C	.27					
RAMY	20	1837	1922	1841	N25	W15	.504	11084	19.7	45	--F	C	.36				DE	
RAMY	20	1837	1922	1902	N25	W15	.504	11084	19.7	45	--F	C	.72				DE	
GRP35745	20	1922	1946	1930	S05	E12	.216	11087	21.7	24	--F		.48				3 3 3 3	
PALE	20	1915	1950	1926	S04	E13	.229	11087	21.8	35	--N	C	.72				F	
BOUL	20	1925	1940	1935	S05	E12	.216	11087	21.7	15	--F	1 C	.32	.32				
RAMY	20	1925	1947	1928	S06	E12	.221	11087	21.7	22	--F	C	.41				DE	
GRP35746	20	1931	1952	1936	N24	W17	.506	11084	19.5	21	--F		.15				2 2 2 3	
PALE	20	1928	2003	1936	N24	W16	.498	11084	19.6	35	--F	C	.19				DE	
BOUL	20	1934	1940	1936	N23	W17	.494	11084	19.5	6	--F	1 C	.11	.12				
GRP35747	20	2000	2035	2004	N20	E40	.704	11089	23.8	35	--F		.54				2 2 1 3	
PALE	20	1958	2045	2001	N19	E42	.720	11089	24.0	47	--N	C	.54				F	
BOUL	20	2002	2025	2007	N20	E38	.682	11089	23.7	23	--F	1 V						
748 RAMY	20	2129	2141D	2134	N22	W14	.457	11084	19.8	12D	--F	C	.52				DE 2	
749 CRON	20	2235E	2243		N23	W15	.478	11084	19.8	8D	--N	V	.40				2	
750 CRON	20	2355E	0010		N12	W88	1.000	11077	14.4	15D	--N	V	.30				3	
GRP35751	21	0046	0059	0049	N22	W16	.475	11084	19.8	13	--F		.63				4 4 4 4	
PALE	21	0044	0054	0048	N22	W18	.492	11084	19.7	10	--F	C	.45				F	
CRON	21	0044	0053	0046	N23	W16	.487	11084	19.8	9	--N	2 C	.22	.25				
MANI	21	0048	0108	0050	N20	W12	.417	11084	20.1	20	--N	2 C	0050	1.03	1.14			
MITK	21	0048	0101D	0050	N23	W18	.504	11084	19.7	13D	--F	C	0050	.83	1.00		E	
GRP35755	21	1234	1252	1237	S10	E45	.713	11090	24.9	18	--F		.48				2 2 2 5	
CANR	21	1234	1252	1236	S09	E43	.687	11090	24.7	18	--F	2 C	.43	.59				
RAMY	21	1238E	1252	1238E	S10	E46	.725	11090	25.0	14D	--F	C	.52				DE	
GRP35757	21	1451	1520	1453	N24	W30	.627	11084	19.4	29	--F		.46				2 2 2 3	
RAMY	21	1450	1515D	1453	N24	W28	.607	11084	19.5	25D	--F	C	.62				DE	
CANR	21	1452	1520		N23	W31	.629	11084	19.3	28	--N	2 V	.30					
758 BOUL	21	1741U	1800U	1746U	N24	W30	.627	11084	19.5	19D	--F	1 C	.21	.28			1	
759 BOUL	21	1811	1821	1813	N24	W25	.578	11084	19.9	10	--F	2 V					1	
760 BOUL	21	1826	1840	1831	S10	E37	.612	11090	24.5	14	--F	1 C	.43	.54			2	
761 RAMY	21	2014	2027	2016	S11	E38	.627	11090	24.7	13	--F	C	.72				DE 3	
763 PALE	21	2156	2200	2158	N13	W21	.430	11084	20.3	4	--F	C	.19				2	
GRP35764	21	2215	2227	2217	N14	W23	.464	11084	20.2	12	--N		.38				2 2 2 2	
BOUL	21	2215	2223	2217	N15	W23	.472	11084	20.2	8	--N	1 C	.43	.48				
PALE	21	2217E	2231	2217	N13	W22	.443	11084	20.3	14D	--N	C	.32				F	
765 PALE	21	2250	2325	2259	S10	W47	.737	11083	18.4	35	--N	C	.55				F 1	
GRP35766	21	2259	2306	2300	N24	W35	.677	11084	19.3	7	--N		.47				2 2 2 2	
PALE	21	2258	2309	2300	N24	W35	.677	11084	19.3	11	--N	C	.72				F	
CRON	21	2259	2302	2300	N23	W35	.670	11084	19.3	3	--N	1 C	.22	.29				
GRP35767	21	2321	2348	2324	S11	E39	.640	11090	24.9	27	--B		.93				2 2 2 2	
PALE	21	2320	2342	2325	S10	E39	.638	11090	24.9	22	--B	C	.99				F	
CRON	21	2321	2353	2323	S11	E38	.627	11090	24.8	32	--B	2 C	.86	1.11				
768 PALE	22	0050E	0109	0057	N25	W36	.694	11084	19.3	19D	--N	C	.36				F 3	
GRP35770	22	0505	0623	0512	N10	W27	.490	11084	20.2	78	--F		.65				2 2 2 3	
TEHR	22	0502	0623	0510	N10	W27	.490	11084	20.2	81	--F	C	.64					
CRON	22	0508	0537U	0513U	N09	W27	.484	11084	20.2	29D	--N	1 C	.65	.74				
GRP35771	22	0650	0708	0708	N19	W32	.611	11084	19.9	18	--F		.34				2 2 2 4	
TEHR	22	0650	0708	0708	N19	W31	.600	11084	20.0	18	--N	C	.28				DE	
CRON	22	0653E	0705		N18	W33	.616	11084	19.8	12D	--F	V	.40					

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35772	22	1038	1102	1039	N25	W40	.732	11084	19.4	24	--N			.61				3 3 3 6
ABST	22	1036	1111D	1038	N24	W41	.736	11084	19.4	35D	-F	C	1038	1.08	1.60			EJK
UCCL	22	1037	1045	1040	N27	W40	.744	11084	19.4	8	-N	C	1040	.52				DJ
CATA	22	1040	1045	1040	N24	W39	.717	11084	19.5	5	-B		1040	.23	.33		207	
UCCL	22	1057	1110	1057	N25	W40	.732	11084	19.5	13	-N	C	1057	.52	1.20			EJ
GRP35774	22	1244	1301	1259	N23	W44	.760	11084	19.2	17	1B			2.22				5 5 5 5
UCCL	22	1242	1244	1244	N22	W45	.765	11084	19.2	2	-F	C	1244	.52				DJ
CANR	22	1243	1332	1252	N21	W44	.751	11084	19.2	49	1N	1	C	1252	2.15	3.24		
TEHR	22	1243	1247D	1245	N23	W42	.741	11084	19.4	40	-N	C		.45				DE
CAPE	22	1246	1350	1257	N23	W44	.760	11084	19.2	64	1B	C	1257	2.52	3.80			EJ
UCCL	22	1248	1351	1305	N25	W48	.805	11084	18.9	63	2B	C	1305	4.13				Z
CATA	22	1250	1305D	1259	N23	W42	.741	11084	19.4	150	1B		1259	1.86	2.83		214	
775 UCCL	22	1355	1410	1402	N25	W45	.779	11084	19.2	15	1F	C	1402	2.06				EJ 3
GRP35776	22	1455	1505	1456	S10	E26	.456	11090	24.6	10	--F			.43				2 2 1 3
CANR	22	1454	1505	1456	S10	E28	.485	11090	24.7	11	-N	1	C	1456	.43	.48		
BOUL	22	1455	1505	1456	S10	E24	.426	11090	24.4	10	-F	1	V					
GRP35777	22	1516	1556	1521	N23	W43	.750	11084	19.4	40	-B			1.58				5 4 4 5
CANR	22	1512	1555	1520	N22	W43	.746	11084	19.4	43	-B	1	C	1520	.86	1.30		
BOUL	22	1517	1523D	1520U	N23	W44	.760	11084	19.3	60	1B	1	C	1520	1.72	2.69		
CAPE	22	1518	1552	1522	N23	W43	.750	11084	19.4	34	1B	C	1522	2.17	3.40			F
RAMY	22	1521E	1600	1521E	N23	W43	.750	11084	19.4	39D	-F	C		1.55				E
HUAN	22	1533E	1546D	1534	N23	W43	.750	11084	19.4	13D	-B	1	P	1534	.48	.72		
GRP35778	22	1713	1723	1716	N22	W46	.775	11084	19.3	10	--N			.31				3 3 2 3
RAMY	22	1713	1727	1716	N22	W46	.775	11084	19.3	14	-N	C		.41				DE
LOCK	22	1713	1722	1715	N23	W47	.788	11084	19.2	9	-F	C						
CANR	22	1716E	1720		N22	W46	.775	11084	19.3	4D	-N	2	V	.20	.30			
GRP35779	22	1842	1846	1844	N12	W34	.594	11084	20.2	4	--F			.19				2 2 1 3
LOCK	22	1841	1845	1843	N11	W34	.590	11084	20.2	4	-F	C						
PALE	22	1842	1847	1844	N13	W34	.599	11084	20.2	5	-F	C		.19				
GRP35780	22	1927	1955	1930	N10	W35	.599	11084	20.2	28	-N			1.01				4 4 2 4
PALE	22	1901	1914	1904	N13	W34	.599	11084	20.2	13	-F	C		.19				
PALE	22	1912	1958	1930	N09	W34	.581	11084	20.2	46	-N	C		1.08				F
LOCK	22	1920	1950	1926	N07	W36	.602	11084	20.1	30	-F	C						
RAMY	22	1928E	1951D	1928E	N09	W35	.595	11084	20.2	23D	-N	C		.93				F
BOUL	22	1934	2002	1934	N11	W34	.590	11084	20.3	28	-N	1	V					
GRP35781	22	2044	2058	2048	N22	W48	.793	11084	19.3	14	--N			.39				3 3 2 3
PALE	22	2042	2059	2049	N23	W48	.797	11084	19.3	17	-N	C		.36				F
LOCK	22	2045	2053	2047	N20	W48	.786	11084	19.3	8	-F	C						
RAMY	22	2046	2101	2048	N22	W47	.784	11084	19.3	15	-N	C		.41				DE
782 RAMY	22	2120	2134D	2121	S11	W57	.842	11083	18.6	14D	--F	C		.52				DE 2
	22	2200	2236	NO FLARE PATROL														
	23	0530	0550	NO FLARE PATROL														
783 MANI	23	0623E	0647		S10	E18	.336	11090	24.6	24D	--N	2	0625	.41	.44			1
784 MANI	23	0640	0652		S11	E27	.474	11090	25.3	12	--N	2	0643	.52	.58			1
	23	0708	0715	NO FLARE PATROL														
785 ABST	23	0724	0728	0726	N15	W46	.749	11084	19.9	4	--F	C	0726	.90	1.40			DJ 2
786 ABST	23	0735E	0737D	0735	N11	W41	.679	11084	20.2	2D	1F	P	0735	1.80	2.40			EJ 1
	23	0738	0745	NO FLARE PATROL														
GRP35787	23	0800	0832	0809	N10	W44	.712	11084	20.0	32	-N			1.71				3 3 3 4
HTPR	23	0800	0830	0807	N10	W45	.724	11084	20.0	30	-N	C	0807	1.55	2.10			E
CATA	23	0805E	0810D	0805	N09	W43	.697	11084	20.1	5D	-B		0805	.69	.98		204	
ABST	23	0812E	0833D	0814	N10	W45	.724	11084	20.0	21D	1N	P	0814	2.88	4.30			EJ
789 RAMY	23	1158	1210	1200	N25	W56	.870	11084	19.3	12	--N	C		.31				DE 3
GRP35791	23	1417	1422	1419	N20	E23	.522	11091	25.3	5	--F			.59				2 2 2 4
HTPR	23	1416	1423	1418	N20	E23	.522	11091	25.3	7	-F	C	1418	.41	.50			
MONT	23	1418	1421	1419	N20	E22	.511	11091	25.2	3	-N	C	1419	.77				

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCARTH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35792	23	1429	1450	1436	N13	W42	.698	11084	20.5	21	-N			1.82			3 3 3 5	
MONT	23	1428	1445D	1437	N12	W42	.694	11084	20.5	17D	1N	C	1437	3.09			DE	
RAMY	23	1429	1500	1436U	N14	W42	.701	11084	20.5	31	-N	C		1.34				
HTPR	23	1430	1445	1436	N13	W43	.709	11084	20.4	15	-N	C	1436	1.03	1.40		E	
2 STATIONS REPORTING GROUP 35793. 4 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35793	23	1456	1504	1458	N14	W46	.746	11084	20.2	8	--N			.42			2 2 2 6	
CANR	23	1453	1502	1454	N14	W48	.768	11084	20.0	9	-N	2 C	1454	.43	.67			
RAMY	23	1458	1506D	1501	N14	W44	.724	11084	20.3	8D	-N	C		.41			DE	
35793	23	1458	1510	1500	N24	W58	.882	11084	19.3	12	*-N			.42			2 2 2 6	
CANR	23	1458	1510	1500	N22	W58	.878	11084	19.3	12	-N	2 C	1500	.32	.68		DE	
RAMY	23	1458	1506D	1500	N25	W57	.878	11084	19.3	8D	-N	C		.52				
GRP35794	23	1733	1744	1736	S07	E11	.210	11090	24.6	11	--F						2 2 0 3	
LOCK	23	1732	1743	1735	S06	E10	.187	11090	24.5	11	-F	C						
BOUL	23	1733	1744	1736	S07	E11	.210	11090	24.6	11	-N	1 V						
GRP35795	23	1831	1856	1837	N13	W47	.754	11084	20.2	25	--F			.93			2 2 1 3	
LOCK	23	1830	1850	1837	N10	W46	.735	11084	20.3	20	-F	C						
RAMY	23	1831	1902D	1836	N15	W47	.760	11084	20.2	31D	-N	C		.93			DE	
GRP35796	23	1959	2010	2002	N23	W56	.865	11084	19.6	11	--N			.32			2 2 1 2	
BOUL	23	1959U	2010U	2002U	N24	W56	.868	11084	19.6	11D	-N	1 C	2002	.32	.65			
LOCK	23	1959	2010	2001	N22	W55	.855	11084	19.7	11	-N	C						
797 PALE	23	2054E	2055D	2055U	N16	W53	.822	11084	19.9	10	--F	C		.19			3	
798 LOCK	23	2112	2125	2115	N23	W61	.901	11084	19.3	13	--F	C					3	
	23	2150	2210	NO FLARE PATROL														
800 LOCK	23	2220	2227	2222	N16	W54	.831	11084	19.9	7	--F	C					2	
4 STATIONS REPORTING GROUP 35801. 1 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35801	23	2315	2342	2318	N13	W46	.743	11084	20.5	27	-N			.32			2 2 1 3	
LOCK	23	2315	2353D	2318	N11	W46	.738	11084	20.5	38D	-N	C						
CRON	23	2315	2330	2318	N14	W45	.735	11084	20.6	15	-N	1 C	2318	.32	.48			
35801	23	2315	0000	2343	N12	W47	.751	11084	20.4	45	*-F			.91			3 2 1 6	
LOCK	23	2315	2353D	2345	N11	W46	.738	11084	20.5	38D	-F	C						
PALE	23	2339E	0000D	2341	N12	W47	.751	11084	20.5	21D	-N	C		.91			F	
VORO	23	2352E	0004		N11	W50	.781	11084	20.2	12D	-B	C	2355	.93	1.40	70	E	
GRP35802	24	0140	0148	0142	S11	E10	.232	11090	24.8	8	--F			.35			2 2 2 5	
PALE	24	0140	0149	0142	S09	E09	.197	11090	24.7	9	-N	C		.19				
CRON	24	0142E	0147		S12	E11	.255	11090	24.9	5D	-F	V		.50				
GRP35804	24	0215	0222	0216	N16	W58	.866	11084	19.7	7	--N			.46			3 3 3 4	
CRON	24	0214	0225	0215	N15	W57	.856	11084	19.8	11	-N	1 C	0215	.22	.42			
VORO	24	0215	0223	0216	N12	W58	.860	11084	19.7	8	-B	C	0216	.74	1.40	82	EH	
MANI	24	0215E	0217		N20	W58	.874	11084	19.7	2D	-N	2	0216	.41	.76			
GRP35805	24	0730	0747	0732	N16	W56	.850	11084	20.1	17	-N			.49			3 3 3 5	
TEHR	24	0647	0736D	0659	N15	W45	.739	11084	20.9	49D	-N	C		.28			DE	
TEHR	24	0730	0736D	0735U	N16	W58	.866	11084	20.0	6D	-N	C		.28			F	
CRON	24	0730	0743	0732	N14	W59	.871	11084	19.9	13	-N	1 C	0732	.32	.65			
CATA	24	0730	0750	0730	N14	W60	.879	11084	19.8	20	-N		0730	.87	1.85	158		
CRON	24	0734	0750	0736	N19	W59	.880	11084	19.9	16	-N	1 C	0736	.22	.45			
CATA	24	0735	0750	0735	N18	W59	.878	11084	19.9	15	-N		0735	.46	.99	174		
	24	1300	1345	NO FLARE PATROL														
	24	1352	1416	NO FLARE PATROL														
806 RAMY	24	1524	1544	1527	N14	W66	.923	11084	19.7	20	--F	C		.26			DE 3	
807 BOUL	24	1740	1754	1743	N24	W68	.945	11084	19.6	14	-N	2 V					2	
808 PALE	24	2134	2146	2138	S12	W12	.268	11090	24.0	12	--N	C		.36			F 1	
809 PALE	24	2144	2152	2146	N18	W56	.854	11084	20.7	8	--F	C		.27			1	
810 PALE	25	0220	0237D	0223	N13	W70	.946	11084	19.8	17D	-N	C		.63			F 4	
811 PALE	25	0305	0329D	0310	N08	W68	.931	11084	20.0	24D	--F	C		.81			F 4	

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35812	25	0706	0723	0709	S12	W09	.230	11090	24.6	17	--N			.58				2 2 2 4
TEHR	25	0706	0716	0709	S11	W09	.218	11090	24.6	10	-N			.28				F
CATA	25	0709E	0730	0709	S12	W09	.230	11090	24.6	210	-N	C	0709	.87	.90		174	
GRP35813	25	0738	0743	0739	N12	W65	.914	11084	20.4	5	-F			.77				2 2 2 5
CRIM	25	0738	0741D		N11	W66	.920	11084	20.4	30	-F	C	0739	.63				D
TACH	25	0738	0743	0739	N12	W64	.907	11084	20.5	5	1N	C	0739	.91			60	E
GRP35814	25	0749	0801	0750	N21	W82	.993	11084	19.2	12	-N			.97				3 3 3 6
TACH	25	0748	0754	0749	N22	W85	.998	11084	18.9	6	1F	C	0749	1.96			56	E
TEHR	25	0748	0813	0751	N21	W80	.989	11084	19.3	25	-N	C		.36				F
CATA	25	0750	0756	0750	N21	W80	.989	11084	19.3	6	-N		0750	.58			195	
GRP35816	25	1306	1321	1314	N13	W74	.966	11084	20.0	15	-N			3.09				2 2 1 4
WEND	25	1259E	1319		N14	W73	.962	11084	20.1	200	1N	P		3.09				
RAMY	25	1313	1323	1314	N12	W74	.965	11084	20.0	10	-N	C					DE	
GRP35817	25	1316	1340	1319	N12	E59	.869	11097	30.0	24	-F			1.91				2 2 2 4
RAMY	25	1314	1340D	1319	N12	E59	.869	11097	30.0	260	-F	C		.72				DE
WEND	25	1317	1330D		N12	E59	.869	11097	30.0	130	1N	V		3.09				
GRP35818	25	1435	1458	1439	N20	W77	.980	11084	19.8	23	-N			.77				3 3 2 3
RAMY	25	1434	1501	1438	N20	W78	.983	11084	19.8	27	-N	C					DE	
CAPE	25	1435	1455	1440	N21	W77	.981	11084	19.8	20	-N	C	1440	.95				
CATA	25	1440E	1445D	1440	N19	W75	.973	11084	20.0	50	-N		1440	.58			186	
GRP35821	25	1637	1657	1641	N12	W77	.977	11084	19.9	20	--F			.21				2 2 1 2
RAMY	25	1637	1657	1640	N12	W75	.969	11084	20.1	20	-F	C					DE	
BOUL	25	1640U	1652U	1641U	N12	W78	.981	11084	19.8	120	-N	1 C	1641	.21				
824 BOUL	25	1959U	2021U	2005U	N12	E50	.784	11097	29.6	220	--N	1 C	2005	.54	.88			1
	25	2234	2239	NO FLARE PATROL														
	25	2240	2257	NO FLARE PATROL														
GRP35826	25	2258	2327	2313	N20	W79	.986	11084	20.0	29	-B			.58				2 2 2 2
PALE	25	2258	2329D	2310	N20	W81	.991	11084	19.9	310	-B	C		.72				DE
CRON	25	2314E	2325	2315U	N20	W77	.980	11084	20.2	110	-N	1 C	2315	.43				
	25	2310	2314	NO FLARE PATROL														
GRP35827	26	0807	0831	0813	N12	E44	.719	11097	29.6	24	-N			1.05				8 7 6 9
TEHR	26	0804	0824	0812	N13	E44	.722	11097	29.6	20	-N			.55				F
CRON	26	0805	0830	0811	N12	E43	.708	11097	29.6	25	-N	1 C	0811	.22	.31			
MONT	26	0807	0825	0814	N12	E44	.719	11097	29.6	18	-N	C	0814	2.27				
ISTA	26	0808	0830		N11	E44	.716	11097	29.6	22	-N							
CAPE	26	0809	0826	0813	N12	E44	.719	11097	29.6	17	-N	C	0813	1.04	1.50			
ABST	26	0810E	0856	0815	N12	E45	.730	11097	29.7	460	1F	P	0815	1.53	2.20		58	EJ
CAPS	26	0817E	0827D		N11	E43	.704	11097	29.6	100	-F	1 S	0818	.70	1.00		147	
WEND	26	0834E	0912		N10	E42	.689	11097	29.5	380	1N	V		3.09				
GRP35828	26	0840	0846	0841	N12	W85	.997	11084	20.0	6	-N			1.61				6 5 5 9
ISTA	26	0840	0845		N12	W90	1.000	11084	19.6	5	-B							
ABST	26	0840	0842	0841	N13	W89	1.000	11084	19.7	2	1N	P	0841	1.18			64	AEV
CAPE	26	0840	0855	0841	N12	W88	1.000	11084	19.8	15	-B	C	0841	.86				V
CRON	26	0840	0844	0841	N11	W78	.981	11084	20.5	4	-N	1 C	0841	.32				H
MONT	26	0840	0843	0841	N12	W81	.989	11084	20.3	3	-N	C	0841	.77				D
KODA	26	0840	0846	0843	N11	W87	.999	11084	19.8	6	1B	V	0840	4.92	4.90	3.52		
839 RAMY	26	1959	2005	2001	N27	W36	.712	11089	24.1	6	--F	C		.41				DE 2
	26	2042	2103	NO FLARE PATROL														
	26	2108	2124	NO FLARE PATROL														
	26	2130	2147	NO FLARE PATROL														
	26	2202	2226	NO FLARE PATROL														
GRP35841	27	0425	0436	0428	N20	E68	.941	11098	1.3	11	--F			.39				2 2 2 3
CRON	27	0423	0434	0425U	N19	E65	.922	11098	1.1	11	-F	1 C	0425	.11				
MANI	27	0426	0437	0430	N20	E70	.951	11098	1.4	11	-N	2	0430	.67	1.46			
GRP35842	27	0911	0945	0917	S11	W36	.599	11090	24.7	34	--N			.49				3 3 2 4
CANR	27	0910	0941D	0919U	S11	W36	.599	11090	24.7	310	-N	1 C	0919	.65	.81			
ISTA	27	0910	0942	0915	S10	W36	.596	11090	24.7	32	-N							
CRON	27	0912	0948	0916	S11	W36	.599	11090	24.7	36	-N	1 C	0916	.32	.40			

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
	27	1027	1029	NO FLARE PATROL														
843 CANR	27	1034	1055	1048	S11	W36	.599	11090	24.7	21	--N	1 C	1048	.65	.81		1	
844 CANR	27	1241	1251	1244	N25	W49	.816	11089	23.9	10	--N	1 C	1244	.22	.38		2	
845 RAMY	27	1417	1431	1420	N18	E34	.631	11097	30.1	14	--F	C		.72		DE	2	
846 BOUL	27	1835	1908	1836	N20	E90	1.000	11102	3.5	33	-N	1 V					2	
	27	2145	2203	NO FLARE PATROL														
	27	2249	2311	NO FLARE PATROL														
	27	2320	2331	NO FLARE PATROL														
847 MANI	27	2331E	2346		N15	E88	1.000	11102	3.6	150	-N	2	2333	.31	.96		2	
GRP35850	28	0636	0648	0640	N12	E19	.404	11097	29.7	12	--N			.19		2 2 2 3		
TEHR	28	0635	0647	0638U	N12	E18	.391	11097	29.6	12	-N	C		.27				
CRON	28	0636	0648	0642U	N12	E19	.404	11097	29.7	12	-N	2 C	0642	.11	.12			
GRP35854	28	1307	1330	1307	S13	W07	.218	11095	28.0	23	--F			.58		2 2 2 5		
RAMY	28	1302	1327	1307	S13	W06	.209	11095	28.1	25	-F	C		.46		F		
CAPS	28	1312	1333		S13	W08	.227	11095	27.9	21	-F	3 V	1315	.70	.70	140	DG	
855 RAMY	28	1525	1543D		S12	E74	.960	11101	3.2	180	--F	C				U	3	
GRP35856	28	1626	1637	1629	N13	E13	.345	11097	29.7	11	--F			.52		2 2 1 4		
RAMY	28	1623	1636	1627	N11	E12	.309	11097	29.6	13	-F	C		.52		DE		
BOUL	28	1628	1637	1631	N14	E14	.367	11097	29.7	9	-N	2 V						
GRP35863	29	1123	1203	1133	S15	W19	.382	11095	28.0	40	--N			.57		4 3 3 7		
CATA	29	1120	1210	1135	S16	W19	.391	11095	28.0	50	-N		1135	.80	.88	178		
CANR	29	1121	1121D		S15	W19	.382	11095	28.0		-F	2 V		.45	.50			
TEHR	29	1127	1145	1129	S15	W20	.395	11095	28.0	18	-F	C		.28		DE		
RAMY	29	1135E	1213	1135E	S15	W19	.382	11095	28.1	380	-N	C		.62		DE		
GRP35865	29	2021	2030	2022	S15	W28	.504	11095	27.7	9	--N			.12		3 3 1 5		
HUAN	29	2020	2031	2022	S15	W27	.490	11095	27.8	11	-N	2 C	2022	.12	.14	D		
LOCK	29	2020	2029	2023	S14	W27	.485	11095	27.8	9	-N	C				H		
BOUL	29	2022	2029	2022	S15	W29	.517	11095	27.7	7	-N	1 V						
GRP35866	29	2056	2108	2100	S14	W24	.443	11095	28.1	12	-N			.90		3 3 2 4		
HUAN	29	2015	2154D	2058	S14	W24	.443	11095	28.0	990	-N	2 P	2058	1.36	1.50	E		
BOUL	29	2055	2108	2103	S13	W24	.437	11095	28.1	13	-N	1 C	2103	.43	.48			
LOCK	29	2056	2107	2100	S14	W23	.429	11095	28.1	11	-F	C						
GRP35868	29	2124	2139	2131	S13	W23	.423	11095	28.2	15	--N			.20		3 3 2 4		
BOUL	29	2123	2139	2133	S13	W23	.423	11095	28.2	16	-N	1 C	2133	.21	.24			
LOCK	29	2125	2140	2130	S14	W23	.429	11095	28.2	15	-F	C						
PALE	29	2127E	2139	2131U	S13	W22	.408	11095	28.2	120	-N	C		.19				
GRP35870	29	2321	2330	2324	S14	W27	.485	11095	27.9	9	--F			.83		2 2 1 3		
LOCK	29	2320	2332	2324	S14	W27	.485	11095	27.9	12	-F	C						
PALE	29	2321	2328	2324	S14	W26	.471	11095	28.0	7	-N	C		.83		F		
GRP35871	30	0159	0302	0209	S13	E56	.832	11101	3.3	63	-N			.96		5 5 5 6		
CULG	30	0156	0301	0212	S14	E57	.842	11101	3.4	65	1N	C	0212	1.75	3.06	R		
PALE	30	0200	02140	0205	S12	E54	.812	11101	3.1	140	-N	C		.63		F		
VORO	30	0201	02210	0204	S11	E57	.840	11101	3.4	200	-N	C	0204	.84	1.40	67	EJ	
MANI	30	0205E	0303		S14	E56	.833	11101	3.3	560	-N	2	0212	.72	.96			
CRON	30	0210E	02190	0215U	S13	E55	.822	11101	3.2	90	-F	1 C	0215	.86	1.50			
GRP35873	30	0446	0544	0456	N18	W64	.916	11091	25.4	58	-N			1.17		2 2 2 4		
CULG	30	0443	0551	0500	N18	W60	.888	11091	25.7	68	1N	C	0500	2.06		R		
TEHR	30	0448	0537	0451	N18	W67	.934	11091	25.2	49	-N	C		.28		SDE		
877 CRON	30	0639E	0647	0640U	N04	E67	.922	11105	4.3	80	--F	1 C	0640	.22			4	
GRP35879	30	0730	0747	0735	S14	E55	.823	11101	3.4	17	--N			.42		2 2 2 5		
CRON	30	0730	0744	0732	S14	E56	.833	11101	3.5	14	-N	1 C	0732	.22	.39			
MANI	30	0733E	0750	0737	S14	E54	.814	11101	3.4	170	-N	2	0737	.62	.81			

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	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %		
					LAT.	MER. DIST.													
	1970 DEC																		
GRP35883	30	1646	1655	1650	S13	W39	.642	11095	27.8	9	--N				.42			5 5 4 5	
CANR	30	1644	1657		S13	W38	.629	11095	27.8	13	-N	1	V		.30	.40			
LOCK	30	1646	1655	1649	S14	W40	.657	11095	27.7	9	-N		C					DE	
RAMY	30	1646	1654	1651	S12	W38	.626	11095	27.8	8	-F		C		.41			DLR	
MCMA	30	1647	1657	1649	S15	W38	.635	11095	27.8	10	-N		C	1649	.52	.70			
BOUL	30	1648	1654	1649	S13	W39	.642	11095	27.8	6	-N	1	C	1649	.43	.56			
GRP35884	30	1722	1729	1724	S14	W39	.644	11095	27.8	7	--F				.31			4 4 3 4	
LOCK	30	1720	1730	1724	S14	W40	.657	11095	27.7	10	-F		C					DH	
MCMA	30	1722	1728	1723	S15	W38	.635	11095	27.9	6	-N		C	1723	.41	.60			
BOUL	30	1723E	1728	1724	S13	W39	.642	11095	27.8	50	-F	1	C	1724	.21	.28		DE	
RAMY	30	1724	1729	1726	S14	W38	.632	11095	27.9	5	-F		C		.31				
GRP35885	30	1753	1801	1756	S14	W39	.644	11095	27.8	8	--F				.21			3 3 2 5	
MCMA	30	1751	1758	1753	S15	W38	.635	11095	27.9	7	-N		C	1753	.21	.30		D	
BOUL	30	1752	1800	1755	S13	W38	.629	11095	27.9	8	-F	1	C	1755	.21	.28			
LOCK	30	1756	1804	1800	S14	W40	.657	11095	27.7	8	-F		C						
GRP35886	30	1825	1846	1829	S14	W39	.644	11095	27.8	21	--N				.64			5 5 4 5	
RAMY	30	1825	1849	1829	S13	W38	.629	11095	27.9	24	-B		C		.62			DE	
LOCK	30	1825	1845	1829	S14	W40	.657	11095	27.8	20	-N		C						
MCMA	30	1825	1845	1827	S15	W39	.647	11095	27.8	20	-B		C	1827	.52	.70		DK	
MCMA	30	1825	1845	1840	S15	W39	.647	11095	27.8	20	-B		C						
BOUL	30	1826	1846	1828	S13	W39	.642	11095	27.8	20	-N	2	C	1828	.32	.42		F	
PALE	30	1830E	1845	1830U	S14	W38	.632	11095	27.9	15D	-N		C		1.08				
GRP35887	30	1915	1925	1918	S14	W40	.657	11095	27.8	10	--N				.30			5 5 4 5	
BOUL	30	1910	1915	1912	S13	W41	.667	11095	27.7	5	-F	1	C	1912	.21	.29			
PALE	30	1912	1925	1920U	S13	W40	.654	11095	27.8	13	-N		C		.45				
LOCK	30	1915	1925	1918	S14	W40	.657	11095	27.8	10	-N		C					DE	
RAMY	30	1916	1927	1918	S13	W41	.667	11095	27.7	11	-N		C		.31			D	
MCMA	30	1917	1919D	1918	S15	W40	.660	11095	27.8	20	-N		P	1918	.21	.30			
BOUL	30	1917	1923	1918	S13	W41	.667	11095	27.7	6	-N	1	C	1918	.21	.29			
GRP35889	30	2011	2018	2014	S14	W39	.644	11095	27.9	7	--F				.29			3 3 2 4	
BOUL	30	2010	2017	2013	S14	W37	.619	11095	28.1	7	-F	1	V					D	
MCMA	30	2011	2015D		S15	W40	.660	11095	27.8	40	-N		P	2012	.21	.30		F	
PALE	30	2011	2018	2014U	S14	W40	.657	11095	27.8	7	-F		C		.36				
GRP35892	30	2056	2108	2101	S13	W41	.667	11095	27.8	12	--N				.52			4 4 3 4	
PALE	30	2051	2106	2101	S13	W40	.654	11095	27.9	15	-N		C		.72				
PALE	30	2051	2106	2056	S13	W40	.654	11095	27.9	15	-N		C		.45			F	
RAMY	30	2057	2108	2100	S14	W41	.669	11095	27.8	11	-N		C		.41			DE	
BOUL	30	2058U	2109U	2100U	S13	W41	.667	11095	27.8	11D	-B	1	C	2100	.43	.58			
LOCK	30	2058	2108	2102	S13	W41	.667	11095	27.8	10	-F		C						
894 PALE	30	2307	2331	2310	S12	E52	.791	11101	3.9	24	--F		C		.27			F 3	
GRP35895	30	2307	2346	2318	N13	W13	.348	11097	30.0	39	--N				.48			2 2 2 4	
PALE	30	2307	2327	2309	N13	W14	.358	11097	29.9	20	-N		C		.45				
CRON	30	2322E	2342	2327	N13	W12	.338	11097	30.1	200	-N		V		.50				
PALE	30	2336	2350	2345U	N12	W14	.346	11097	29.9	14	-N		C		.27				
GRP35898	31	0241	0250	0244	S14	W45	.717	11095	27.7	9	--N				.50			3 3 3 4	
PALE	31	0236	0251	0243	S13	W44	.703	11095	27.8	15	-N		C		.45			F	
CRON	31	0243	0250	0244	S13	W46	.726	11095	27.7	7	-N	2	C	0244	.32	.46			
VORO	31	0243	0248	0244	S16	W46	.733	11095	27.7	5	-B		C	0244	.74	1.00	101	EJ	
GRP35900	31	0445	0457	0448	N12	W16	.371	11097	30.0	12	--N				.25			2 2 2 5	
TEHR	31	0442	0458	0445	N12	W16	.371	11097	30.0	16	-N		C		.28			DE	
CRON	31	0448	0455	0450	N12	W16	.371	11097	30.0	7	-N	1	C	0450	.22	.23			
	31	1715	1724	NO FLARE PATROL															
904 PALE	31	2035	2047	2040	N04	E41	.663	11105	3.9	12	--N		C		.36			DE 3	
GRP35905	31	2128	2155	2139	N03	E44	.699	11105	4.2	27	--F				.36			2 2 1 2	
LOCK	31	2120	2155	2134	N02	E46	.722	11105	4.3	35	-F		C						
PALE	31	2135	2155	2143	N04	E42	.676	11105	4.0	20	-N		C		.36			DE	
906 PALE	31	2253E	2253D	2253U	S14	W56	.833	11095	27.8		--F		C		.54			3	
907 PALE	31	2341	2347D	2345	N04	E43	.689	11105	4.2	60	--N		C		.19			3	

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

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity nor are these subflares included in the Flare Index below.

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
701201	8.65	23.6	701211	111.24	24.0	701221	4.56	24.0
701202	96.89	24.0	701212	155.15	23.5	701222	67.86	23.4
701203	24.54	24.0	701213	99.29	23.8	701223	50.56	23.1
701204	50.53	23.8	701214	139.97	24.0	701224	2.16	22.9
701205	44.67	24.0	701215	16.18	24.0	701225	84.86	23.6
701206	17.06	24.0	701216	9.67	24.0	701226	20.26	22.7
701207	9.80	24.0	701217	6.04	24.0	701227	1.35	23.1
701208	34.48	23.7	701218	61.17	23.7	701229	4.27	24.0
701209	79.34	24.0	701219	52.46	23.6	701230	12.09	24.0
701210	250.23	24.0	701220	16.27	24.0	701231	0.00	23.9

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

SOLAR FLARES

Unconfirmed

DECEMBER 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
241 CRON	01	0218	0225	0219	N12	W76	.971	11048	25.4	7	-N	2	C	0219	.54			3
247 TEHR	01	0622	0652	0628	N06	W78	.978	11061	25.4	30	-N		C		.23		F	5
GRP35248 ABST CRON	01	0705	0729	0709	S10	E47	.743	11063	4.8	24	-F				1.29		2	2
	01	0702E	0736	0710	S10	E47	.743	11063	4.8	340	1F	P	0710	2.25	3.40	EJ	2	
	01	0707	0721	0708	S09	E46	.730	11063	4.7	14	-N	1	C	0708	.32	.47		6
249 CRON	01	0713	0718	0716U	S12	E63	.898	11066	6.0	5	-F	1	C	0716	.11			6
251 ARCE	01	0850E	0905		S11	E59	.865	11066	5.8	150	-F		C	0855	.40	.80		7
253 HUAN	01	1635E	1646D	1637U	N12	W85	.996	11048	25.3	110	-F	1	P	1637	.25		D	3
255 BOUL	01	1845	1853	1846	N13	W84	.994	11048	25.5	8	-F	2	V					3
261 TEHR	02	0532	0605	0539U	S07	E35	.585	11063	4.9	33	-N		C		.28		F	5
266 HUAN	02	1446	1457D	1452	N22	W01	.362	11060	2.5	110	-N	2	P	1452	.12	.13	D	6
GRP35267 HUAN CANR	02	1446	1509	1454	N22	E17	.453	11060	3.9	23	-N				.29		2	2
	02	1442	1457D	1455	N22	E16	.443	11060	3.8	150	-N	2	P	1455	.25	.27	D	2
	02	1449	1509	1453	N21	E18	.451	11060	4.0	20	-N	3	C	1453	.32	.36		6
270 HUAN	02	1808	1822D	1813	S08	E29	.503	11063	4.9	140	-F	1	P	1813	.15	.18	D	3
276 CRON	03	0213	0220	0214	S17	E20	.446	11063	4.6	7	-F	2	C	0214	.22	.24		5
281 CRON	03	0748E	0757		S18	E70	.947	11069	8.6	90	-F		V		.60			5
GRP35282 TEHR CATA	03	0959	1013	1000	N20	E05	.341	11060	3.8	14	-F				.46		2	2
	03	0957	1016	0959	N20	E04	.338	11060	3.7	19	-F		C		.45		DE	2
	03	1000	1010	1000	N20	E05	.341	11060	3.8	10	-N		1000	.46	.49	151		
284 CANR	03	1150	1204		N15	W12	.319	11060	2.6	14	-F	2	V		.50	.60		5
285 CANR	03	1154	1154D		S12	E45	.725	11066	6.9		-F	2	V		.30	.40		5
287 RAMY	03	1610	1622	1612	S09	E27	.478	11066	5.7	12	-F		C		.31		DE	4
291 BOUL	03	2150	2204	2150	S10	E19	.370	11063	5.3	14	-F	1	V					2
293 PALE	03	2345	2357	2347	S08	E38	.627	11066	6.8	12	-F		C		.36		F	6
295 CRON	04	0306	0322	0308	S09	E18	.347	11066	5.5	16	-N	2	C	0307	.22	.23		5
296 PALE	04	0307	0327	0310	N07	E18	.327	11065	5.5	20	-N		C		.27		H	5
297 MITK	04	0322	0355	0329	S08	E85	.996	11070	10.5	33	1N		C	0329	.83		D	5
298 CATA	04	0905	0935	0910	N22	W03	.369	11060	4.2	30	-F		0910	.58	.63	148		9
GRP35300 HTPR CAPS	04	1112	1123	1115	S18	E01	.318	11063	4.5	11	-F				.66		2	2
	04	1112	1120	1115	S18	E02	.320	11063	4.6	8	-F		C	1115	.72	.80	E	2
	04	1114E	1125		S18	E00	.318	11063	4.5	110	-F	3	V	1115	.60	.60	145	C
302 RAMY	04	1402E	1412		N19	E87	.999	11073	11.1	100	-N		C				DE	7
304 CANR	04	1511	1519	1513	S10	E14	.300	11066	5.7	8	-N	2	C	1513	.43	.43		5
306 BOUL	04	1544	1551	1546	N17	E88	.999	11073	11.3	7	-N	1	V					4
307 HUAN	04	1654	1659	1656	S17	W03	.305	11063	4.5	5	-F	1	C	1656	.21	.22	D	4
308 HUAN	04	1814	1819	1815	N24	W09	.423	11060	4.1	5	-F	1	C	1815	.25	.27	D	5
310 HUAN	04	1920	1935	1925U	S11	E73	.958	11070	10.3	15	-F	1	C	1925	.25		D	5
311 HUAN	04	1920E	1944D	1932	S20	E01	.351	11063	4.9	240	-N	2	P	1932	.15	.17	D	5
314 MANI	05	0135	0143	0137	S19	W03	.336	11063	4.8	8	-N	2		0137	.31	.33		6
320 TEHR	05	0656	0735	0700	S16	W11	.337	11063	4.5	39	-N		V		.28		DE	5
GRP35321 CATA TEHR	05	0751	0804	0755	S09	E07	.203	11066	5.9	13	-N				.47		2	2
	05	0750	0805	0755	S10	E06	.208	11066	5.8	15	-N			0755	.58	.59	157	2
	05	0752	0802	0754	S08	E07	.189	11066	5.9	10	-N		V		.36		DE	6

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMAH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
GRP35322 TEHR CATA	1970 DEC																	
	05	0828	0850	0830	S17	W13	.368	11063	4.4	22	-N			.23				2 2 2 8
	05	0826	0850	0830	S16	W13	.355	11063	4.4	24	-N	V		.28				HF
	05	0830	0835D	0830	S17	W13	.368	11063	4.4	50	-N		0830	.17	.19		168	
323 HTPR	05	0847	0905	0850	N15	E37	.634	11068	8.1	18	-N	C	0850	.52	.70			U 6
GRP35325 CANR TEHR	05	0921	0945	0925	N18	W39	.671	11060	2.5	24	-F			.43				2 2 2 8
	05	0850	0930		N19	W38	.664	11060	2.5	40	-N	2 V		.50	.60			DE
	05	0921	1000	0925	N16	W40	.674	11060	2.4	39	-F	V		.36				
GRP35327 TEHR CATA	05	0955	1007	0957	S17	W12	.359	11063	4.5	12	-F			.52				2 2 2 9
	05	0955	1007	0958	S17	W11	.350	11063	4.6	12	-F	V		.28				DE
	05	0955E	1005D	0955	S17	W12	.359	11063	4.5	100	-N		0955	.75	.81		174	
328 HERS	05	0956	1002E	0958	N13	E80	.985	11073	11.4	60	-N	P	0958	.30	2.00			D 9
329 TEHR	05	1014	1030	1016	S17	W13	.368	11063	4.5	16	-N	V		.64				SDE 10
331 CANR	05	1124	1145	1134	S15	E25	.487	11069	7.4	21	-N	2 C	1134	.86	.98			4
332 HUAN	05	1146	1201	1152	S18	W11	.364	11063	4.7	15	-F	1 C	1152	.30	.32			D 5
333 HUAN	05	1207	1212D	1212U	S11	E69	.937	11070	10.7	50	-F	2 P	1212	.15				D 5
335 HUAN	05	1219E	1225	1219U	S16	E11	.337	11066	6.3	60	-F	2 P	1219	.18	.18			E 6
337 RAMY	05	1248	1305	1250	S09	E64	.902	11070	10.3	17	-F	C		.52				DE 7
339 HUAN	05	1355	1414	1402	S18	W12	.372	11063	4.7	19	-F	1 C	1402	.23	.24			E 5
340 HUAN	05	1402	1420D	1419U	N13	W40	.664	11060	2.6	180	-F	1 P	1419	.21	.27			D 4
341 RAMY	05	1515E	1524D		N17	E77	.976	11073	11.4	90	-F	C						DE 4
342 HUAN	05	1633	1639D	1636	S18	W12	.372	11063	4.8	60	-N	1 P	1636	.15	.17			E 3
345 RAMY	05	1832	1840D	1834	N16	W45	.732	11060	2.4	80	-F	C		.31				DE 4
351 HUAN	05	2147	2155	2150	N19	W27	.535	11060	3.9	8	-F	1 C	2150	.15	.18			D 4
354 PALE	06	0023	0037	0027U	S09	W03	.169	11066	5.8	14	-F	C		.23				F 5
359 ARCE	06	0827	0840	0832	S17	W28	.538	11063	4.3	13	1F	C	0832	2.03	2.40			7
360 ARCE	06	0840	0910	0844	N15	E80	.986	11073	12.4	30	-N	C	0844	.46				H 7
363 CANR	06	1125	1142	1126	N16	W53	.815	11060	2.5	17	-N	2 C	1126	.32	.56			8
GRP35365 CANR HUAN	06	1312	1323	1321	S18	W24	.498	11063	4.8	11	-N			.28				2 1 1 7
	06	1303	1310		S18	W25	.509	11063	4.7	7	-F	2 V		.25	.30			D
	06	1320E	1323D	1321U	S18	W23	.486	11063	4.8	30	-N	1 P	1321	.28	.34			DE 6
366 RAMY	06	1313	1320	1315	N14	E80	.986	11073	12.6	7	-F	C		.62				
GRP35367 RAMY CANR	06	1348	1355	1349	N14	E77	.976	11073	12.4	7	-N			.21				2 2 2 7
	06	1347	1357	1349	N14	E78	.979	11073	12.4	10	-N	C		.31				DE
	06	1348	1352		N13	E75	.967	11073	12.2	4	-N	1 V		.10	.20			
368 RAMY	06	1437	1453	1440	N25	E72	.959	11073	12.0	16	-N	C		.72				DE 8
369 RAMY	06	1452	1500	1454	N15	E76	.972	11073	12.3	8	-N	C		.31				DE 6
370 CANR	06	1453	1502	1455	S15	W75	.969	11062	1.0	9	-N	1 C	1455	.11				6
371 HUAN	06	1505E	1515D	1515U	N14	W52	.801	11060	2.7	100	-F	2 P	1515	.23	.38			D 5
375 HUAN	06	1656E	1703D	1703U	S11	E54	.817	11070	10.8	70	-F	1 P	1703	.15	.25			E 4
379 BOUL	06	1802	1807	1805	S10	W18	.353	11066	5.4	5	-F	1 V						4
382 MANI	07	0150E	0205		S10	E49	.764	11070	10.8	150	-N	2	0152	1.03	1.59			5
386 MANI	07	0534	0548		N15	E68	.932	11073	12.3	14	-N	2	0535	.41	.88			3
387 MANI	07	0605	0611		N15	E65	.913	11073	12.1	6	-N	2	0607	.31	.63			3
388 TEHR	07	0822E	0826D	0823U	S08	W22	.397	11066	5.7	40	-N	C		.45				DE 7
390 ABST	07	0902E	0914D	0904	S11	E42	.684	11070	10.5	120	-N	P	0904	1.08	1.50			DJ 10

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
392 CANR	1970 DEC 07	1230U	1242	1234	N14	E62	.890	11073	12.2	120	-N	1	C	1234	.54	1.18			5
393 UCCL	07	1235	1251	1240	S12	E43	.699	11070	10.7	16	-F		C	1240	.52	1.00			D 5
399 LOCK	07	2125	2200	2135	N12	E82	.991	11077	14.0	35	-F		C						K 4
400 LOCK	07	2125	2200	2145	N12	E82	.991	11077	14.0	35	-F		C						K 4
401 HUAN	07	2138E	2145D	2140	S10	E30	.523	11070	10.2	70	-F	1	P	2140	.76	.90			E 4
402 LOCK	07	2322	2329	2324	N10	E82	.991	11077	14.1	7	-F		C						H 4
404 MANI	08	0121	0135	0124	S10	E35	.591	11070	10.7	14	-N	2		0124	.21	.26			4
411 TEHR	08	1017	1038	1019	N13	W54	.820	11060	4.4	21	-F		C		.09				DE 5
412 CANR	08	1110E	1120		N13	E77	.976	11077	14.2	100	-N	2	V		.25	.60			6
416 BOUL	08	1601	1610	1602	N13	E80	.986	11077	14.7	9	-F	1	V						4
418 LOCK	08	1649	1655	1651	N11	E51	.786	11073	12.5	6	-F		C						4
419 BOUL	08	1727	1733	1728	N13	E66	.918	11077	13.7	6	-F	1	C	1728	.11				4
420 BOUL	08	1740	1748	1742	N13	E50	.780	11073	12.5	8	-F	1	C	1742	.32	.52			4
423 PALE	08	1958E	1958D	1958U	S10	E20	.379	11070	10.3		-F		C		.36				F 4
427 BOUL	08	2058	2230	2100	S10	E90	1.000	11080	15.6	92	1F	1	V						2
432 MANI	09	0052E	0114		N13	E78	.979	11077	14.9	220	-N	2		0053	.41	1.02			5
433 MANI	09	0100	0106	0102	N16	W80	.986	11060	3.0	6	-N	2		0102	.21	.53			5
435 MANI	09	0320	0326D		N11	E62	.888	11077	13.8	60	-N	2		0322	.21	.40			5
438 CRON	09	0710	0726		N10	E75	.967	11077	14.9	16	-F		V						5
GRP35441	09	0759	0804	0801	N13	E42	.690	11073	12.5	5	-B				.37				2 2 2 6
CRON	09	0758	0802	0759	N10	E40	.657	11073	12.3	4	-N	1	C	0759	.22	.29			
MANI	09	0800	0805D	0803	N15	E44	.720	11073	12.6	50	-B	2		0803	.52	.76			
444 ARCE	09	0945	1000D	0955	N19	E38	.668	11073	12.3	150	-F		C	0955	.50	.60			6
GRP35445	09	1027	1044	1029	N14	E35	.607	11073	12.1	17	-F				.21				2 2 2 6
HTPR	09	1026	1042	1029	N14	E36	.620	11073	12.1	16	-F		C	1029	.21	.30			E
CANR	09	1027	1045		N14	E33	.582	11073	11.9	18	-F	2	V		.20	.30			
447 HUAN	09	1145E	1157	1145U	S07	E13	.253	11070	10.5	120	-F	1	P	1145	.10	.11			D 3
448 HUAN	09	1145E	1201D	1153	S11	E17	.344	11070	10.8	160	-F	1	P	1153	.51	.53			D 5
449 CANR	09	1205	1300		S06	E85	.996	11080	15.9	55	-F	2	V		.25	.70			4
450 CANR	09	1225	1250		N03	E85	.996	11077	15.9	25	-F	1	V		.10	.30			4
452 HUAN	09	1329E	1335	1330	N13	E68	.931	11077	14.7	60	-F	1	P	1330	.12				D 4
457 BOUL	09	1558	1601	1558	N17	E28	.537	11073	11.8	3	-F	1	V						3
462 BOUL	09	1851	1855	1853	N13	E62	.889	11077	14.4	4	-F	1	V						3
470 PALE	10	0059	0105	0100	N16	E55	.835	11077	14.2	6	-F		C		.45				HF 6
472 MANI	10	0310	0332		N12	E59	.864	11077	14.6	22	-F	2		0312	.31	.56			6
473 MITK	10	0315	0335D	0326	S12	E80	.985	11080	16.1	200	-F		C	0326	.52				E 6
474 MANI	10	0408	0414		N12	E58	.856	11077	14.5	6	-F	2		0410	.31	.55			4
476 CRON	10	0513	0527		N05	W85	.996	11065	3.8	14	-N		V		.30				3
477 MANI	10	0736	0748		S05	W06	.133	11070	9.9	12	-N	2		0741	.41	.42			7
479 MONT	10	0842	0855	0848	N09	E59	.861	11077	14.8	13	-N		C	0848	1.13				7
484 HUAN	10	1305	1314D	1311	S08	E72	.952	11080	15.9	90	-F	1	P	1311	.40				E 5
502 SIBE	11	0359E	0415	0359	N20	E30	.584	11077	13.4	160	1F		V	0359	1.86	2.34		64	BEJ 5

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OBSERVATORY	OBSERVED UT				LOCATION					DURATION — MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE 1970 DEC	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H α	MAX. INT. %	
504 MANI	11	0451	0500		S08	W08	.191	11070	10.6	9	-N	2	0455	.31	.32			3
510 ARCE	11	0824	0830	0825	N12	E40	.664	11077	14.3	6	-F	C	0825	.34	.50			12
514 CANR	11	1227	1235	1231	N10	E33	.565	11077	14.0	8	-N	2	C	1231	.22	.26		7
521 BOUL	11	1623	1716	1636	S10	W18	.347	11070	10.3	53	-N	1	V					3
522 BOUL	11	1650	1721	1652	N12	E03	.220	11073	11.9	31	-F	2	V					3
528 PALE	11	1948	1957	1949	N20	E07	.366	11073	12.4	9	-F	C		.27				DE 5
539 CANR	12	1200E	1250		N14	E29	.532	11077	14.7	500	-N	2	V	.50	.60			5
542 HUAN	12	1437	1459	1445	S08	W31	.527	11070	10.3	22	-F	2	C	1445	.21	.24		E 7
550 HUAN	12	2027	20390	20370	N01	E40	.643	11077	15.9	120	-F	2	C	2037	.56	.73		E 4
554 LOCK	12	2325	2347	2332	N19	W09	.365	11073	12.3	22	-F	C						4
559 PALE	13	0236	0258	02420	S05	E37	.605	11080	15.9	22	-F	C		.36				F 4
564 CANR	13	1017	1028		N12	E12	.298	11077	14.3	11	-F	3	V	.55	.60			5
569 BOUL	13	1604	1610	1606	N12	E07	.249	11077	14.2	6	-N	2	V					4
570 BOUL	13	1639	1646	1641	N12	E08	.257	11077	14.3	7	-F	1	V					3
578 PALE	14	0114	01170	01160	N12	E02	.223	11077	14.2	30	-F	C		.27				F 5
580 PALE	14	0222	0237	0226	N08	E00	.152	11077	14.1	15	-F	C		.36				F 5
589 CANR	14	1525	1540		S04	W56	.829	11070	10.4	15	-N	1	V	.30	.40			3
595 RAMY	14	1849E	1858	1849E	S03	W57	.839	11070	10.5	90	-F	C		.31				DE 4
599 PALE	14	2222	2233	2229	S03	W58	.848	11070	10.6	11	-F	C		.27				H 4
601 HTPR	15	0845	0850	0845	S04	W67	.920	11070	10.3	5	-F	C	0845	.31	.60			6
604 CANR	15	1213	1222	1216	N16	E63	.902	11084	20.2	9	-N	2	C	1216	.32			4
606 HUAN	15	1425	14370	1429	S10	E04	.173	11080	15.9	120	-F	1	P	1429	.30	.30		E 3
614 MANI	16	0120E	0132		N10	W21	.401	11077	14.5	120	-N	2		.83	.90			4
616 CRON	16	0746	0811	0757	N10	W26	.471	11077	14.4	25	-N	1	C	0756	.32	.37		6
GRP35617	16	0900	0928	0904	N05	W08	.174	11077	15.8	28	-F			.60				2 2 2 8
ABST	16	0900	0930	0903	N05	W08	.174	11077	15.8	30	-F	P	0903	.90	.90			D
CATA	16	0900E	0925	0905	N05	W08	.174	11077	15.8	250	-N		0905	.29	.29		52 164	
618 TEHR	16	0905	0936	0909	S11	W80	.985	11070	10.4	31	-N	C		.59				DE 8
619 CANR	16	0905	0928	0909	N10	E75	.968	11084	22.0	23	-N	2	C	0909	.22			8
620 CRON	16	0949	0957	0951	S04	W79	.981	11070	10.5	8	-N	1	C	0950	.54			7
621 CANR	16	1116E	1135		S15	E80	.985	11087	22.5	190	-N	2	V	.20	.60			6
623 RAMY	16	1208	1216		S15	E85	.996	11087	22.9	8	-F	C						DE 4
624 HUAN	16	1222	12440	1234	S13	E89	1.000	11087	23.2	220	-F	1	P	1234	.10			D 6
625 HUAN	16	1435	1443	1438	N04	W13	.241	11077	15.6	8	-N	1	C	1438	.25	.25		E 4
628 BOUL	16	1804	1808	1804	S08	E30	.510	11085	19.0	4	-F	2	V					4
629 HUAN	16	1823	1830	1825	N09	W29	.509	11077	14.6	7	-F	1	C	1825	.30	.35		D 4
631 HUAN	16	2024E	2038	2029	N12	W74	.964	11073	11.3	140	-F	1	P	2029	.21			D 3
634 CRON	17	0620	0638	0624	N09	E42	.683	11084	20.4	18	-N	2	C	0624	.22	.30		4
635 CRON	17	0754	0816	0801	N17	E44	.731	11084	20.6	22	-N	2	C	0801	.32	.47		5
636 ARCE	17	0834E	09000		N13	E38	.646	11084	20.2	260	-F	C	0834	.61	.80			7

SOLAR FLARES

Unconfirmed

DECEMBER 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS		
	DATE 1970 DEC	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %			
					LAT.	MER. DIST.														
GRP35637 CRON TEHR	17 17 17	0932 0932 0932	0946 0940 0951	0934 0933 0935	N17 N16 N17	E36 E36 E35	.641 .636 .629	11084 11084 11084	20.1 20.1 20.0	14 8 19	-F -F -N			0933	.25 .22 .28		.28			2 2 2 8 SF
638 ARCE	17	0933E	0938D		S16	W90	1.000	11070	10.6	50	-N		P	0933	.34					8
640 TEHR	17	1027	1050	1034	N05	W23	.403	11077	15.7	23	-N		C		.28				DE	7
641 HUAN	17	1247	1256	1248	N03	W25	.428	11077	15.7	9	-N	2	C	1248	.15	.17			E	9
644 RAMY	17	1656E	1939	1711	N15	W80	.987	11073	11.7	1630	-F		C						DE	4
647 HUAN	17	2020E	2035D	2023	N12	E32	.565	11084	20.2	150	-N	2	P	2023	.40	.50			E	4
651 PALE	17	2204	2223	2205	N15	E66	.922	11088	22.9	19	-F		C		.19				F	4
653 LOCK	17	2242	2248	2244	N10	E35	.596	11084	20.6	6	-F		C							4
654 PALE	17	2256E	0000D	2359U	N10	E34	.583	11084	20.5	640	-F		C		.45				F	5
656 PALE	18	0054	0106	0055	N11	E32	.561	11084	20.4	12	-N		C		.72				F	5
659 PALE	18	0317	0324	0318	S14	E07	.250	11083	18.7	7	-F		C		.36				HF	6
660 CRON	18	0323E	0330	0323E	N17	E36	.642	11084	20.8	70	-F		V		.40					6
662 ABST	18	0608	0620	0610	N14	E27	.512	11084	20.3	12	1N		C	0610	1.80	2.10		80	EJ	4
663 TEHR	18	0635	0704	0641	N16	E24	.490	11084	20.1	29	-F		C		.36				DE	5
664 CRON	18	0647	0658	0649	S09	E82	.990	11090	24.4	11	-N	2	C	0649	.22					5
665 TEHR	18	0750	0820	0754	N18	E21	.473	11084	19.9	30	-N		C		.36				FDE	5
667 TEHR	18	0915	0925	0918	N14	E25	.486	11084	20.3	10	-F		C		.28				DE	5
668 CRON	18	0936E	0952		S09	E85	.996	11090	24.8	160	-N		V		.40					6
669 CRON	18	0936E	0943		S10	E04	.167	11083	18.7	70	-N		V		.50					6
674 HUAN	18	1409E	1421	1409U	S10	E01	.153	11083	18.7	120	-F	1	P	1409	.33	.33			E	6
676 HUAN	18	1517	1532	1520	S10	W01	.153	11083	18.6	15	-F	1	C	1520	.25	.25			D	5
688 CRON	19	0454	0529	0457U	N12	E46	.739	11088	22.7	35	-N	2	C	0457	.11	.16				5
693 TEHR	19	0924	0940	0927	S08	E70	.940	11090	24.6	16	-N		C		.28				DE	9
694 MONT	19	0931	0937	0932	N26	E03	.462	11084	19.6	6	-N		C	0932	1.13					9
695 ARCE	19	1005E	1005D		N22	E02	.398	11084	19.6		-F		P	1005	.76	.80				9
696 TEHR	19	1110	1130	1114	S10	E70	.940	11090	24.7	20	-N		C		.45				DE	7
697 HTPR	19	1113	1117	1114	N25	E03	.447	11084	19.7	4	-F		C	1114	.21	.20				7
699 RAMY	19	1210	1223	1213	S21	E60	.880	11090	24.0	13	-N		C		.41				DE	6
GRP35700 CANR ONDR	19 19 19	1210 1210 1223E	1229 1230 1228	(1225)	N20 N20 N20	E60 E59 E60	.887 .880 .887	11089 11089 11089	24.0 23.9 24.0	19 20 50	-F -N -F				.50 .50		1.10			2 2 1 6 CD
701 TEHR	19	1211	1226	1212	N21	E70	.951	11091	24.8	15	-N		C		.28				DE	6
702 ONDR	19	1213E	1220		N09	W77	.976	11077	13.7	70	-F		V	1215			1.60		DG	6
705 HUAN	19	1426	1541	1441	N25	W02	.446	11084	19.5	75	-F	1	C	1441	.45	.50			E	4
707 HUAN	19	1438	1501	1445	S15	W88	.999	11081	13.0	23	-N	1	C	1445	.33				D	4
710 HUAN	19	1637E	1658D	1641	S14	W88	.999	11081	13.1	210	-F	1	P	1641	.15				D	3
714 BOUL	19	1958	2045	1959	S15	W85	.996	11078	13.5	47	-N	1	V							3
716 RAMY	19	2020	2026D	2021U	S20	E56	.846	11090	24.0	60	-F		C		.31				DE	4
730 ABST	20	0938	0957	0941	N23	W13	.463	11084	19.4	19	-F		C	0941	.90	1.00			DJ	5

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SOLAR FLARES

Unconfirmed

DECEMBER 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS. COND. TYPE	MEASUREMENTS					REMARKS
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY				TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %	
					LAT.	MER. DIST.												
	1970 DEC																	
GRP35731	20	1001	1046	1004	N19	E48	.782	11089	24.0	45	-F			.81			2 1 1 7	
ABST	20	1001	1046	1004	N19	E48	.782	11089	24.0	45	-F	C	1004	.81	1.30		D	
CRON	20	1017	1020	1017	N18	E49	.788	11089	24.1	3	-N	V		.40				
4 STATIONS REPORTING GROUP 35733. 3 STATIONS OBSERVING AND NOT REPORTING.																		
GRP35733	20	1032	1105	1036	N24	W09	.453	11084	19.8	33	-N			.44			2 2 2 7	
TEHR	20	1032	1105D	1036	N24	W10	.459	11084	19.7	33D	-N	C		.28			DE	
CRON	20	1037E	1037D		N23	W07	.430	11084	19.9		-N	V		.60				
734 WEND	20	1255	1318D		N17	E64	.911	11091	25.3	23D	1N	V		3.09			3	
735 WEND	20	1306	1314		N18	E47	.768	11089	24.1	8	-N						3	
736 HUAN	20	1413E	1425D	1425U	N19	E66	.927	11091	25.5	12D	-N	2 P	1425	.25			D 4	
740 HUAN	20	1651	1749D	1724	N19	E64	.914	11091	25.5	58D	-N	2 P	1724	.25			E 3	
752 MANI	21	0050	0108	0053	S10	E10	.225	11087	21.8	18	-N	2	0053	.52	.52		4	
753 MANI	21	0601	0608	0603	N10	W08	.244	11084	20.7	7	-N	2	0603	.41	.43		5	
754 ARCE	21	0803E	0813		N21	W23	.529	11084	19.6	10D	-F	C	0803	.34	.50		4	
756 RAMY	21	1300	1315D	1301	S11	E48	.749	11090	25.1	15D	-F	C		.41			DE 4	
762 BOUL	21	2027	2039	2028	N24	W31	.637	11084	19.5	12	-F	1 V					3	
769 PALE	22	0204	0222	0208	N13	W25	.483	11084	20.2	18	-N	C		.27			4	
GRP35773	22	1133	1158	1136	N20	W45	.757	11084	19.1	25	-F			1.08			2 1 1 6	
ABST	22	1133	1158D	1136	N20	W45	.757	11084	19.1	25D	-F	P	1136	1.08	1.70		E	
UCCL	22	1142	1155	1150	N25	W45	.779	11084	19.1	13	-F	C	1150	.52			DJ	
788 CATA	23	0955	1000	0955	N14	W45	.735	11084	20.0	5	-N		0955	.14	.22	166	3	
790 RAMY	23	1337	1347	1340	S10	E15	.292	11090	24.7	10	-F	C		.21			DE 4	
799 LOCK	23	2116	2130	2122	S10	E08	.197	11090	24.5	14	-F	C					4	
803 PALE	24	0200	0207	0203	N13	W54	.825	11084	20.0	7	-N	C		.19			5	
815 TEHR	25	1055	1115	1100	N13	W68	.934	11084	20.4	20	-F	C		.36			F 5	
819 HUAN	25	1529	1542	1532	N13	W74	.966	11084	20.1	13	-F	1 C	1532	.10			D 4	
820 HUAN	25	1542	1601D	1555	N12	E53	.814	11097	29.6	19D	-F	1 P	1555	.21	.35		E 4	
822 HUAN	25	1754E	1756D	1754U	N13	E51	.797	11097	29.6	2D	-F	1 P	1754	.12	.20		D 3	
823 HUAN	25	1914	1917D	1916	N13	W75	.970	11084	20.2	3D	-N	1 P	1916	.25			D 3	
825 HUAN	25	2135E	2156	2145	S21	E28	.547	11094	28.0	21D	-N	1 P	2145	.21	.25		D 3	
GRP35829	26	0930	1031	0938	N20	E72	.961	11098	31.8	61	1N			.90			2 1 1 8	
ABST	26	0930E	1031	0938	N21	E75	.974	11098	1.0	61D	1N	P	0938	.90		68	DJK	
WEND	26	1021	1026		N18	E68	.939	11098	31.5	5	-N							
830 ABST	26	0941	0943	0942	N13	W89	1.000	11084	19.7	2	1F	P	0942	.90		54	ADV 8	
831 CANR	26	1014	1014D		N29	W32	.692	11089	24.0		-F	2 V		.50	.50		8	
832 ABST	26	1015	1041D	1019	N27	W36	.712	11089	23.7	26D	1F	P	1019	2.07	2.90	48	EJ 8	
833 WEND	26	1029	1040		N13	W86	.998	11084	20.0	11	1N	V		4.13			8	
834 RAMY	26	1136	1139D	1138	N13	W90	1.000	11084	19.7	3D	-N	C					DE 4	
835 RAMY	26	1147	1208	1150	N30	W35	.725	11089	23.9	21	-F	C					DE 6	
836 RAMY	26	1217	1256	1227	N22	E73	.967	11098	1.0	39	-N	C		.62			DE 4	
837 RAMY	26	1223	1237	1226	N17	W89	1.000	11084	19.8	14	-N	C					DE 4	
838 RAMY	26	1230	1239	1232	N10	W90	1.000	11084	19.8	9	-F	C					DE 4	
840 PALE	26	2352	0000	2354	N15	W12	.358	11091	26.1	8	-F	C		.27			F 4	
848 CRON	27	2334E	2340	2336	N12	E28	.519	11097	30.1	6D	-N	V		.30			3	

SOLAR FLARES

Unconfirmed

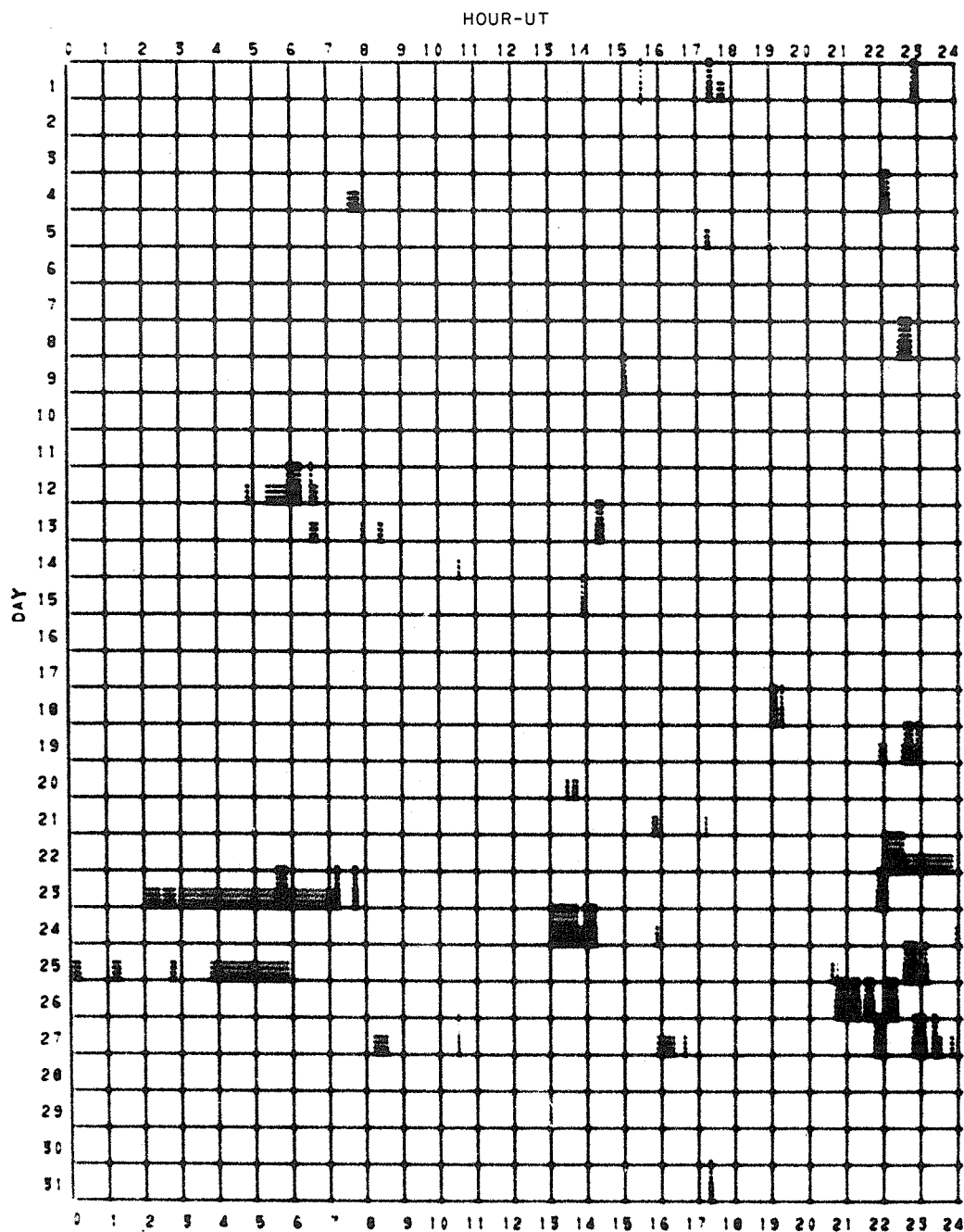
DECEMBER 1970

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM- POR- TANCE	OBS.		MEASUREMENTS					REMARKS		
	DATE	START	END	MAX. PHASE	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY			COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Ha	MAX. INT. %			
					LAT.	MER. DIST.															
	1970 DEC																				
849 TEHR	28	0355E	0442	0402U	S24	W01	.367	11094	28.1	47D	-N		C		.73				F	5	
851 CRON	28	0755E	0804		N21	E80	.989	11102	3.3	9D	-N		V		.50					4	
852 CATA	28	0940	0955	0940	S24	W04	.372	11094	28.1	15	-F			0940	.17	.19		130		6	
853 RAMY	28	1232	1247	1236	S12	E75	.965	11101	3.1	15	-F		C		.31			DE		5	
857 BOUL	28	1639U	1655U	1645U	S14	W07	.232	11095	28.2	16D	-N	1	C	1645	.43	.43				4	
858 MANI	29	0120	0132		N23	E72	.964	11102	3.5	12	-N	2		0122	.41	.98				3	
859 PALE	29	0204E	0209D	0205U	N13	E12	.336	11097	30.0	5D	-F		C		.41			F		6	
860 MANI	29	0210E	0215		N09	E07	.234	11097	29.6	5D	-N	2		0212	.62	.64				5	
GRP35861	29	1015	1050	1020	S11	W59	.858	11090	25.0	35	-N				.23			1	1	1	5
CATA	29	1015E	1050D	1020	S11	W62	.883	11090	24.8	35D	-N			1020	.23	.51		155			
CATA	29	1020	1050D	1020	S11	W57	.840	11090	25.2	30D	-F			1020	.14	.27		143			
862 TEHR	29	1051	1103	1053	S08	E55	.819	11101	2.6	12	-F		C		.28			DE		4	
864 BOUL	29	1832U	1851U	1840U	S14	W24	.443	11095	28.0	19D	-F	1	C	1840	.32	.36				4	
867 HUAN	29	2123	2145	2136	S11	W69	.933	11090	24.7	22	-F	1	C	2136	.30			E		4	
869 BOUL	29	2234	2236		S13	W24	.437	11095	28.1	2	-F	1	V							3	
872 CRON	30	0358	0410		N19	W65	.924	11091	25.3	12	-N		V		.80					5	
874 MANI	30	0527	0536	0529	S15	W30	.530	11095	28.0	9	-N	2		0529	.41	.49				4	
875 CRON	30	0552	0558	0555	S14	W28	.498	11095	28.1	6	-F		V		.25					5	
876 CRON	30	0613	0618		N13	E60	.880	11105	3.8	5	-F		V		.30					4	
878 CRON	30	0714	0728	0720	S13	W31	.535	11095	28.0	14	-F		V		.30					4	
880 TEHR	30	0842	0856	0842	S13	W32	.549	11095	28.0	14	-F		C		.28			DE		5	
881 RAMY	30	1153	1232	1205	N14	W16	.392	11097	29.3	39	-N		C		.31			DE		4	
882 RAMY	30	1347	1433	1405	N17	W70	.950	11091	25.3	46	-F		C					DE		5	
888 RAMY	30	1959	2008D		N16	W72	.959	11091	25.4	9D	-F		C					DE		5	
890 BOUL	30	2023	2034	2026	S12	W35	.586	11095	28.2	11	-F	1	V							3	
891 PALE	30	2040	2113	2056	S14	E44	.705	11101	3.2	33	-F		C		.27					4	
893 BOUL	30	2121	2127	2124	S13	W38	.629	11095	28.0	6	-F	1	V							4	
896 PALE	31	0026	0041	0032	N13	W15	.371	11097	29.9	15	-F		C		.36			F		4	
897 PALE	31	0229	0240	0234	N12	W22	.445	11097	29.5	11	-N		C		.54			DE		4	
899 PALE	31	0252	0301	0255	N12	W16	.371	11097	29.9	9	-F		C		.27			F		4	
901 CRON	31	0816E	0828	0820	S16	W47	.744	11095	27.8	12D	-N		V		.30					6	
902 HTPR	31	0940	0954	0948	S13	W45	.715	11095	28.0	14	-N		C	0948	1.03	1.50		E		5	
903 HTPR	31	1315	1322	1317	S13	W46	.726	11095	28.1	7	-F		C	1317	.62	.90		E		4	

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

DECEMBER 1970



Observatories included in total patrol:

Abastumani	Carnarvon	Hurbanovo	McMath-Hulbert	Siberie
Arcetri	Catania	Istanboul	Meudon	Tachkent
	Crimee	Kiev	Mitaka	Tehran
Boulder	Culgoora	Kodaikanal	Monte Mario	Uccle
Bucharest	Gran Canaria	Locarno	Ondrejov	
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
OUTSTANDING OCCURRENCES

DECEMBER 1970

DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
1	200 HIRA	45	0334.5	0334.5	2	100.0	10.0		
	9400 TYKW	5	0500	0500.8	2	11.0	6.0		
	8800 MANI	3	0500.2	0500.8	5.7	13.3	4.4		
	4995 MANI	3	0500.2	0500.5	7.9	8.1	2.7		
	3750 TYKW	5	0500	0500.8	1.5	3.0	1.0		
	9400 TYKW	29	0502		20	4.0	2.0		
	204 KIEV	42	0700 E		360 D	21.0	9.0		
	9500 BERL	3	1005.7	1006.5	1.6	15.0	3.0		
	408 SANM	45	1023.3	1024.6	1.7	87.0	12.0		
	237 TRST	41	1023.7	1025	1.5	170.0			
	260 ONDR	45	1024	1025	2	90.0			
	204 KIEV	6	1024.5	1024.7	.9	83.0			
	221 ABST	1	1025	1025.3	1	67.0			
	206 IZMI	6	1025	1025.2	.5	127.0	40.0		
	260 ONDR	45	1254	1254.5	1.5	70.0			
	7000 SAOP	32	1340	1343.2	-5	-14.9			
	2800 OTTA	21	1556	1611	170	12.2	5.0		
	2800 OTTA	1	1603	1605	6	8.4	4.2		
	408 SANM	3	2041.2	2041.4	.4	15.0	4.5		
	208 VORO	41	2300	2300.5	9	234.0			
2	204 KIEV	42	0700 E		335	29.0	8.0		
	600 UCCL	20	1023.5	1026.2	8.5	5.0	2.0		
	600 UCCL	1	1059	1059.3	.5	5.0	3.0		
	930 BORD	5	1539	1540	2	10.0	4.0		
	1415 SGMR	23	1555	1605.5	20.3	17.4	8.7		
	960 PENN	45	1555.6	1611	18.6	16.5	3.8		
	606 SGMR	22	1555.4	1605.8	20.9	6.0	3.0		
	2695 SGMR	23	1556.5	1605.4	34.5	18.4	9.2		
	1420 CANR	41	1556	1558.5	17			1	
	4995 SGMR	20	1558.1	1612.4	40.3	17.2	8.6		
	2695 SGMR	1	1558	1558.3	.7	3.5	1.6		
	1415 SGMR	3	1558	1558.3	.7	11.2	4.2		
	10700 PENN	20	1559.7	1611.1	60.8	19.6	10.0		
	245 SGMR	6	1559.1	1603.1	16.4	23.1	8.0		
	9400 HUAN	20	1600	1617.4	65.9	19.6	9.0		
	15400 SGMR	20	1601	1614.8	29.3	21.1	10.5		
	8800 SGMR	20	1601.6	1615.3	28	14.8	7.4		
	18 BOUL	6	1629	1632	4			1	
	18 MCMA	41	1734	1736	5			2	
	18 MCMA	6	1800	1801	2			1	
	18 MCMA	41	1833	1834	2			1	
	408 SANM	3	1850.8	1851	.4	118.0	39.0		
3	500 HIRA	27	0210	0233	110	30.0	10.0		
	8800 MANI	2	0414.9	0415.8	4.1	5.3	2.7		
	4995 MANI	4	0414.9	0416.1	7.4	24.4	5.4		
	2695 MANI	4	0414.9	0416.7	7.4	84.0	22.5		
	1415 MANI	4	0414.9	0416.7	7.4	57.0	17.4		
	606 MANI	4	0414.9	0416.7	7.4	14.6	7.3		
	200 HIRA	45	0414	0416	4	1800.0D	170.0D		
	9400 TYKW	5	0415	0416	10	5.0	2.0		
	3750 TYKW	45	0415	0416	5	51.0	16.0		
	2000 TYKW	5	0415	0416.8	6	100.0	30.0		
	1000 TYKW	5	0415	0416.9	5	37.0	18.0		
	500 HIRA	45	0415	0418.2	5	15.0	10.0		
	3750 TYKW	29	0420		10	3.0	1.0		
	2000 TYKW	29	0421		10	3.0	1.0		
	1000 TYKW	29	0421		10	7.0	4.0		
	200 HIRA	45	0526	0526	1.5	50.0	10.0		
	237 TRST	41	0827.7	0827.8	.5	190.0			
	234 POTS	45	0827.8	0827.8	.1	175.0	60.0		
	204 KIEV	6	0827.8	0827.9	.3	40.0			
	260 ONDR	5	0936	0936	1	100.0			
	600 UCCL	1	0938.5		.5	8.0	5.0		
	260 ONDR	45	1100	1100	1.5	120.0D			
	600 UCCL	20	1123.5		37	8.0U	4.0U		
	260 ONDR	45	1132	1132.5	1.5	45.0			
	260 ONDR	45	1150		6.5	120.0D			
	237 TRST	42	1150.1	1154.5	6.2	11000.0			
	234 POTS	41	1151.6	1154.6	4.1	5000.0	65.0		
	408 SANM	45	1154.4	1154.6	1.3	52.0	8.0		
	600 UCCL	1	1237		.3	5.0	3.0		
	600 UCCL	1	1258.2	1258.6	.8	8.0	5.0		
	260 ONDR	45	1308	1308	1	110.0			
	237 TRST	42	1404.9	1405.3	3.3	1400.0			
	408 SANM	3	1407.7	1408	.6	15.0	4.5		
	930 BORD	45	1408	1408.1	1	10.0	2.0		
	234 POTS	45	1408	1408.1	.1	200.0	40.0		
	18 BOUL	41	1442	1447	13			2	
	408 SANM	3	1508.7	1508.9	.6	36.5	5.0		
	2695 BOUL	41	1643.5	1644.5	5				
	2695 BOUL	40	1712.5	1713.5	5				
	2695 BOUL	8	1834	1834.5	1			1	
4	600 UCCL	3	0810.2	0810.5	1	18.0	9.0		
	650 GORK	20	0926.2	0927	5.5	6.3	3.0		
	950 GORK	1	0927	0928.9	3.5	12.0			
	3100 CRIM	3	0945	0947	8	150.0	50.0		
	1420 CANR	4	0945.5	0946.5	5			1	

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			UT	UT	MINUTES	PEAK	MEAN		
4	1420 KIEL	5	0945	0946	5	60.0	20.0		
	240 KIEL	6	0945	0946	3	500.0	20.0		
	100 GORK	41	0949.8	0955 U	22.5	50.00			
	100 GORK		0949.8	0957.2U		1500.00			
	100 GORK		0949.8	1005 U		1500.00			
	221 ABST	40	0951.1	0953	2.5	37.0			
	930 BORD	45	0953	0956.8	7	25.0	3.0		
	113 POTS	45	0953.7	0956.9	11.6	35000.0	2000.0		
	9500 BERL	3	0955	0957	9	565.0U			
	9400 SLOU	3	0955.5U	0956.8	4.5	710.0			
	9400 ONDR	45	0955.5	0956	25				
	2950 GORK	4	0955.1	0956.9	4.5	24.0	6.0		
	2800 SLOU	45	0955	0956.4	7.5	70.0			
	2695 CANR	3	0955.5	0958	5			1	
	237 TRST	45	0955	0956.9	2.3	760.0	200.0		
	200 GORK	41	0955	0956.2	7.4	80.0			
	200 GORK		0955	0957.1		2000.0			
	200 GORK		0955	1000		70.0			
	37000 SLOU	3	0956	0957	.5	160.0U			
	19000 SLOU	3	0956.5U	0957	1 U	435.0U			
	10500 BERN		0956.2	0956.8	14	480.0	3.0		
	4995 CANR	3	0956	0958.8	4.5			2	
	600 UCCL	1	0956	0957	7.5	9.0	4.0		
	234 POTS	45	0956.9	0956.9	.1	350.0	60.0		
	206 IZMI	41	0956	0956.8	4.2	700.00			
	23 POTS	5	0956.8	0956.9	.3	4000.0	1500.0		
	1490 BERL	3	0957 E	0957		26.0			
	808 ONDR	45	0957	0957.5	2				
	260 ONDR	45	1056	1057	1.5	75.0			
	9100 GORK	4	1155.3	1156.8	2.6	378.0	94.0		
	9400 HUAN	1	1249.1	1249.3	2.8	9.8	3.9		
	9500 BERL	3	1250	1250.5	2	12.0	6.3		
	7000 SAOP	3	1250	1250.3	1.2	20.6	11.5		
	4995 CANR	3	1250	1250.5	1			1	
	2695 CANR	3	1250.5	1251.5	2.5			1	
	1490 BERL	1	1250.5E	1250.5		3.0			
	204 KIEV	41	1254.8	1256.1	7.2	150.00			
	18 MCMA	42	1405	1430	60			3	
	9400 HUAN	21	1420	1428.5	18	5.9	2.5		
	2800 SLOU	3	1422.5	1426	14.5	73.0			
	2700 PENN	3	1423.2	1426.2	13.5	74.9	10.5		
	4995 SGMR	4	1424.9	1426.1	2.9	40.5	9.6		
	2800 OTTA	3	1424.8	1426	3.2	56.0	24.0		
	9400 SLOU	3	1425	1426	2	13.0			
	9400 HUAN	3	1425.6	1426	2.4	15.7	7.5		
	7000 SAOP	3	1425.2	1426	2	23.9	13.6		
	4995 CANR	3	1425.5	1426.5	2.5			1	
	4995 BOUL	3	1425	1428.5	6			1	
	2695 CANR	3	1425	1427	4			1	
	1415 SGMR	1	1425	1426.5	2.5	7.5	2.0		
	245 SGMR	6	1425.3	1425.5	1.2	52.9	10.5		
	8800 SGMR	1	1426.1	1426.3	.6	5.4	1.5		
	18 BOUL	42	1447	1456	56			3	
	2700 PENN	1	1533.7	1535.3	6.9	4.2	2.1		
	9400 HUAN	20	1534.3	1542.6	80.5	7.8	3.3		
	2800 OTTA	1	1534	1535	4	2.0	1.0		
	960 PENN	1	1534.2	1535	2.5	2.4	1.2		
	7000 SAOP	3	1647	1647.2	1	15.9			
	7000 SAOP	20	1650.5		20.1	12.0			
	2800 OTTA	20	1705	1920	200	4.8	2.4		
	2700 PENN	24	1720	1853		11.3			
	9400 HUAN	22	1850.7	1856.5	113.6	9.8	7.8		
5	208 VORO	5	0146.5	0147	2	280.0	80.0		
	200 HIRA	45	0146.8	0146.8	1.5	560.0	70.0		
	9400 TYKW	5	0251	0252.3	4	67.0	17.0		
	8800 MANI	3	0251.8	0252.4	2.6	28.6	14.3		
	4995 MANI	3	0251.8	0252.4	2.6	30.7	15.4		
	3750 TYKW	5	0251	0252.3	2	14.0	4.0		
	3750 TYKW	29	0253		20	3.0	2.0		
	9400 TYKW	29	0255		15	4.0	2.0		
	3750 TYKW	5	0515	0515.2	2	3.0	1.0		
	2000 TYKW	5	0515	0515.2	1	18.0	5.0		
	1000 TYKW	5	0515	0515.4	1.5	4.0	2.0		
	2000 TYKW	29	0516		10	2.0	1.0		
	2950 GORK	41	0633.6	0634.8	4.7	17.0	8.0		
	2950 GORK		0633.6	0637.5		5.0			
	2695 MANI	4	0633.5	0634.7	3.5	29.3	8.0		
	950 GORK	4	0633	0634.9	3.8	14.0	7.3		
	650 GORK	1	0633.6	0633.8	.5	1.9	1.0		
	8800 MANI	1	0634.6	0634.7	.4	2.9	.9		
	4995 MANI	3	0634.5	0634.7	2	17.9	5.1		
	1415 MANI	4	0634.2	0634.9	3	36.9	11.1		
	650 GORK	4	0634.6	0634.9	4.2	9.9	3.8		
	606 MANI	4	0634.2	0634.5	1.8	38.4	9.4		
	950 GORK	41	0836.3	0836.4	.8	1.9			
	950 GORK		0836.3	0836.8		1.9			
	650 GORK	1	0836.4	0836.8	2.1	3.5	1.5		
	237 TRST	45	0836.4	0836.6	.3	180.0	40.0		
	234 POTS	45	0836.7	0836.7	.1	100.0	25.0		
	200 GORK	6	0836.6	0836.8	.8	20.0	10.0		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
6	100 GORK	41	0836.3	0836.5	6.1	10.0			
	100 GORK		0836.3	0839.1		10.0			
	100 GORK		0836.3	0841.8		100.0			
	200 GORK	6	0840.9	0841.6	1.1	20.0	10.0		
	930 BORD	45	1017	1017.3	1	11.0	2.0		
	950 GORK	1	1131	1131.1	.2	3.1	1.6		
	930 BORD	45	1131	1131.1	1	9.0	2.0		
	2800 OTTA	1	1320	1322	2.5	6.0	3.0		
	600 UCCL	1	1322.2	1322.3	.4	10.0	5.0		
	9400 HUAN	22	1323.6	1324.5	11.6	18.4	7.0		
	9700 SLOU	45	1324	1324.5	6	16.0U			
	9500 BERL	22	1324	1325.7	5 U	15.7	8.6		
	408 SANM	45	1437.7	1438.5	1.7	35.5	9.0		
	2800 OTTA	21	1545	1635	130	4.4	2.2		
	9400 HUAN	22	1546.6	1641.4	62.2	9.2	4.1		
	2800 OTTA	1	1632.8	1633.8	1.5	1.8	.9		
	2800 OTTA	21	1900	1910	30	3.4	1.2		
	9400 HUAN	22	1904.2	1919.3	52.5	9.2	5.0		
	2700 PENN	20	1904.8	1912.5	16.5	7.0	2.8		
	7000 SAOP	3	1910.5	1911.3	1.7	14.9	9.2		
	2800 OTTA	1	1911.5	1912	2.5	4.2	2.0		
	7000 SAOP	29	1912.2		3.8				
	408 SANM	45	2049.3	2049.8	1.4	33.0	9.5		
	408 SANM	42	2106	2106.3	14	156.0	47.0		
	2695 PENT	1	2115	2116.5	3	3.0	1.5		
	2695 PENT	1	2121	2121.5	4	4.2	2.1		
	2695 PENT	20	2140	2200	35	3.8	1.9		
	9400 TYKW	5	2310	2340	120	20.0	10.0		
	3750 TYKW	45	2310	2324	120	13.0	6.0		
	2695 MANI	22	2319.5	2324	12	19.0	5.4		
	1415 MANI	22	2319.5	2324	12	16.9	4.8		
	606 MANI	4	2319.5	2321.6	12	17.8	5.9		
	2000 TYKW	5	2320	2324	20	15.0	6.0		
	1000 TYKW	5	2320	2322.3	15	17.0	6.0		
	600 UCCL	1	0758.3	0758.6	.8	8.0	4.0		
	600 UCCL	1	1109.8	1110.8	2.5	4.0	2.0		
	600 UCCL	20	1119.2	1132	21	8.0	5.0		
	600 UCCL	4	1205.2	1206	5.5	12.0	4.0		
	600 UCCL	4	1210.5	1212.5	3.5	8.0	5.0		
	600 UCCL	2	1217.5	1218.2	2	6.0	3.0		
	600 UCCL	4	1225	1226.3	2	29.0	12.0		
	600 UCCL	41	1323.8	1328	11.5	54.0	15.0		
	7000 SAOP	3	1347.8	1349.5	1.8	21.8	10.9		
	15400 SGMR	3	1348.8	1349	.7	9.6	4.5		
	9400 HUAN	3	1348.5	1349	1.3	18.8	10.6		
	8800 SGMR	1	1348.9	1349.2	3.1	5.4	2.6		
	4995 SGMR	3	1348.7	1349.1	2.2	15.6	7.3		
	2800 OTTA	3	1348.5	1349	2	12.8	6.0		
	2695 SGMR	3	1348.5	1348.9	1.9	11.4	5.3		
	10500 BERN		1348.4	1348.9	1.5	11.0	3.0		
	18 BOUL	41	1414	1423	15			2	
	2700 PENN	8	1446.3	1446.3	.2	7.0			
	18 BOUL	42	1517	1529	48			2	
	2700 PENN	1	1549.7	1550.5	1.4	5.2	2.1		
	2800 OTTA	1	1550	1550.7	1	2.0	1.0		
	2800 OTTA	21	1753	1759	50	6.4	3.2		
	9400 HUAN	22	1806.8	1817.4	18.8	9.4	4.1		
	2800 OTTA	22	1806	1815	23	15.6	8.0		
	2695 PENT	2	2158	2202.5	6	8.0	2.8		
7	3750 TYKW	5	0036	0036.4	1	8.0	3.0		
	2000 TYKW	5	0036	0036.5	1	2.0	1.0		
	9400 TYKW	5	0130	0131	2	3.0	1.0		
	3750 TYKW	5	0130	0131	2	2.0	1.0		
	2000 TYKW	5	0130.5	0131.4	1.5	2.0	1.0		
	9400 TYKW	5	0158	0159	3	2.0	1.0		
	3750 TYKW	5	0158.5	0159	2	5.0	2.0		
	606 MANI	40	0158.2	0158.4	2	17.6	6.3		
	9400 TYKW	5	0220.5	0221.7	2.5	5.0	2.0		
	606 MANI	1	0534.4	0534.6	7.4	5.0	2.5		
	3750 TYKW	5	0555	0601.5	18	32.0	4.0		
	9750 IRKU	1	0600.7	0601.4	2.5	28.0	9.0		
	9400 TYKW	5	0600.5	0601.5	3.5	23.0	5.0		
	8800 MANI	3	0600.9	0601.5	.8	12.6	6.3		
	4995 MANI	3	0600.9	0601.5	.8	26.6	11.1		
	2695 MANI	3	0600.8	0601.4	1	17.7	8.2		
	100 GORK	6	0745	0748 U	.8	50.0D			
	113 POTS	41	0747.7	0747.8	7.1	140.0	3.0		
	9750 IRKU	20	0753.5	0755.8	6	19.0	12.0		
	100 GORK	41	0753.4	0753.8U	3.4	50.0D			
	100 GORK		0753.4	0754.2U		50.0D			
	100 GORK		0753.4	0755.6U		50.0D			
	9100 GORK	22	0754	0755.8	6.9	31.0	9.7		
	10500 BERN		0756.4U	0756.5U	2	8.0	1.0		
	2950 GORK	20	0804	0816	18.8	5.0			
	113 POTS	5	0833	0833	.2	175.0	60.0		
	100 GORK	6	0833	0833.1U	.8	50.0D			
	600 UCCL	8	1052		.3	92.0	46.0		
	9500 BERL	22	1228.5	1231.1	5	10.0	6.4		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
8	9400 HUAN	3	1229.6	1231.2	5.9	13.0	5.6		
	3100 CRIM	3	1229	1231	5	30.0	10.0		
	1490 BERL	22	1229.3	1230.1	2.7	1.9	1.2		
	10700 PENN	1	1320.9	1321.8	3.2	5.7	2.8		
	2700 PENN	3	1320.5	1321.7	3.6	11.8	5.9		
	15400 SGMR	3	1410.8	1411.4	4	12.8	5.0		
	10700 PENN	3	1410.6	1411.5	8.4	32.6	9.0		
	9400 SLOU	4	1410.2	1411.1	2.5	33.0			
	9400 HUAN	3	1410.6	1411.3	3.6	33.5	12.6		
	8800 SGMR	3	1410.9	1411.5	8.5	25.0	10.0		
	7000 SAOP	3	1410.5	1411	2.3	29.2	14.6		
	4995 SGMR	3	1410.7	1411.4	5.8	31.5	12.5		
	2700 PENN	1	1410.6	1411.4	3.5	7.9	2.6		
	2695 SGMR	20	1410.7	1411.4	9.5	5.5	2.7		
	2800 OTTA	23	1510	1528	120	7.8	3.4		
	7000 SAOP	3	1514.3		1.8	12.3			
	9400 HUAN	23	1517.7	1522.7	60.5	9.3	5.4		
	8800 SGMR	20	1519.7	1525.4	16.1	5.5	2.8		
	4995 SGMR	20	1519.4	1521.3	14.9	17.1	8.6		
	2800 OTTA	4	1519	1521	9	12.6	6.3		
	2695 SGMR	20	1519.3	1521.2	17	9.9	4.9		
	9400 HUAN	3	1557.9	1559.8	7.2	83.8	25.6		
	15400 SGMR	3	1558.2	1559.8	4.1	56.3	22.5		
	10700 PENN	3	1558.1	1559.8	9.2	87.6	20.0		
	8800 SGMR	3	1558.5	1559.8	3.2	45.5	19.0		
	7000 SAOP	3	1558	1559.8	5.2	77.4	62.8		
	4995 SGMR	3	1558.3	1559.9	3.1	22.5	9.0		
	2695 SGMR	1	1558.4	1559.7	2.1	2.6	1.3		
	2800 OTTA	1	1559	1559.7	1	2.8	1.4		
	200 HIRA	45	2244	2244	1	280.0	80.0		
	3750 TYKW	5	0259	0301	9	2.0	1.0		
	3750 TYKW	5	0310.5	0312.7	3.5	2.0	1.0		
	9750 IRKU	1	0318.3	0319.1	3	31.0	9.0		
	9400 TYKW	5	0318	0319.1	7	45.0	9.0		
	8800 MANI	3	0318.3	0318.9	3.7	38.7	18.1		
	4995 MANI	3	0318.3	0318.9	2.7	48.4	19.4		
	3750 TYKW	5	0318	0319.1	2	20.0	8.0		
	2695 MANI	3	0318.3	0318.9	3.3	13.2	5.3		
	2000 TYKW	5	0318.5	0319.2	2	6.0	2.0		
	1415 MANI	1	0318.6	0318.9	1.4	4.8	2.4		
	1000 TYKW	5	0318.5	0319.2	1.5	5.0	2.0		
	3750 TYKW	29	0320	0320	10	3.0	1.0		
	9400 TYKW	45	0328	0333	10	6.0	3.0		
	3750 TYKW	45	0350	0401	28	5.0	2.0		
	9400 TYKW	45	0400	0401	5	5.0	2.0		
	9400 TYKW	5	0421	0436	50	9.0	5.0		
	3750 TYKW	5	0421	0436	50	3.0	2.0		
	9750 IRKU	41	0426.8	0427.5	5	156.0	44.0		
	9400 TYKW	45	0426.8	0427.5	3.2	290.0	85.0		
	8800 MANI	4	0426.6	0427.4	4.9	155.0	52.0		
	4995 MANI	4	0426.6	0427.3	4.9	126.0	36.3		
	3750 TYKW	45	0426.8	0427.5	3.2	74.0	25.0		
	2695 MANI	4	0426.6	0427.3	8.4	37.0	19.8		
	2000 TYKW	5	0426.8	0428	3.2	18.0	9.0		
	1415 MANI	4	0426.6	0426.8	4.9	14.5	2.4		
	606 MANI	2	0426.6	0427.3	3.9	5.5	1.2		
	9400 TYKW	5	0430	0430.6	1.5	85.0	25.0		
	3750 TYKW	5	0430	0430.7	6	6.0	2.0		
	2000 TYKW	5	0430	0430.7	4	4.0	2.0		
	4995 MANI	20	0432.5	0440.7	17.3	29.0	4.8		
	8800 MANI	20	0436.2	0440.7	14.6	38.7	15.5		
	2695 MANI	20	0437.4	0440.7	21.8	9.2	2.6		
	9400 TYKW	5	0440	0440.9	2	24.0	5.0		
	3750 TYKW	5	0440	0441	2	7.0	3.0		
	2000 TYKW	5	0440	0441	3	3.0	1.0		
	9400 TYKW	5	0624	0625.8	6	70.0	8.0		
	3750 TYKW	45	0624.5	0625.9	3.5	28.0	4.0		
	3100 CRIM	3	0624	0626	4	35.0	11.0		
	1000 TYKW	45	0624.5	0626	1.7	41.0	5.0		
	9750 IRKU	3	0625	0626	2.5	39.0	11.0		
	8800 MANI	3	0625.5	0625.8	1.6	54.0	25.8		
	4995 MANI	3	0625.5	0625.8	1.6	61.0	24.2		
	2695 MANI	3	0625.5	0625.8	1.6	9.2	2.6		
	2000 TYKW	5	0625.7	0625.9	.5	4.0	2.0		
	1415 MANI	1	0625.5	0625.8	1.6	6.1	2.4		
	200 HIRA	45	0625.5	0625.5	1	420.0	200.0		
	200 GORK	6	0625.8		.4	70.0			
	100 GORK	6	0625.8	0625.9	.5	15.0D			
	606 MANI	4	0627.1	0627.6	.9	15.4	3.1		
	9750 IRKU	20	0630	0630.5	8	22.0	9.0		
	3100 CRIM	3	0708	0709.5	2	15.0	5.0		
	100 GORK	41	0708.8	0709.4	9.1	15.0D			
	100 GORK		0708.8	0717.3		15.0			
	8800 MANI	4	0709	0709.1	.9	18.1	7.7		
	4995 MANI	4	0709	0709.1	.9	16.9	7.3		
	2695 MANI	1	0709	0709.1	.9	4.0	1.3		
	1415 MANI	1	0709	0709.3	.9	2.3	1.2		
	606 MANI	1	0709	0709.3	1	3.1	1.2		
	221 ABST	1	0709	0709.1	.5	67.0			

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
8	204 KIEV	6	0709.1	0709.4	1	50.0			
	200 GORK	41	0709	0709.2	8.6	60.0			
	200 GORK		0709	0715.3		80.0			
	200 GORK		0709	0717.4		100.0			
	221 ABST	1	0714	0714.1	.2	35.0			
	204 KIEV	6	0714.2	0714.4	.6	34.0			
	204 KIEV	6	0716.9	0717.5	1	80.0			
	221 ABST	1	0717.1	0717.1	.2	94.0			
	200 GORK	6	0724	0724.7	.9	30.0			
	100 GORK	6	0724.6	0724.7	.3	20.0	10.0		
	204 KIEV	41	0738.4	0739.2	2.1	50.0			
	8800 MANI	2	0749.3	0750.1	2.7	5.2	2.6		
	4995 MANI	4	0749.3	0750.1	2.7	12.1	4.8		
	606 MANI	2	0749.3	0749.8	1.2	1.2	.6		
	3100 CRIM	3	0750	0750.5	2	13.0	4.0		
	204 KIEV	6	0754.4	0755.3	1.5	62.0			
	200 GORK	6	0755.2	0755.5	.5	90.0	40.0		
	1490 BERL	22	0804.5	0812.5	15.5	7.8	5.4		
	9500 BERL	4	0810.3	0812.6	4.7	40.0	18.7		
	10500 BERN		0811.5	0812.4	1.8	37.0	3.0		
	8800 MANI	3	0811.7	0812.2	2.3	52.0	25.8		
	4995 MANI	3	0811.7	0812.2	2.3	48.4	24.2		
	3100 CRIM	3	0811	0812	3	45.0	15.0		
	2950 GORK	1	0811.5	0812.5	1.8	13.6	5.0		
	2695 MANI	4	0811.7	0812.2	2.3	10.6	5.3		
	1415 MANI	2	0811.7	0812.2	2.3	2.4	1.2		
	200 GORK	41	0811	0812.4	1.9	30.0			
	100 GORK	6	0811.7	0812.4	1.6	20.00			
	9750 IRKU	1	0812	0812.5	2	38.0	10.0		
	9100 GORK	3	0812.1	0812.5	.7	59.0	28.0		
	237 TRST	5	0812.3	0812.3	.1	140.0	40.0		
	113 POTS	45	0812.1	0812.5	.9	220.0	35.0		
	204 KIEV	6	0839.5	0839.7	.4	51.0			
	200 GORK	41	0839.6	0840	.4	80.0			
	100 GORK	6	1009.2	1009.3	.4	20.0	10.0		
	536 ONDR	45	1022.5	1023.5	3.5	75.0			
	930 BORD	41	1026	1027.4	3	9.0	2.0		
	100 GORK	6	1027.4	1027.5	.2	15.0	8.0		
	930 BORD	5	1035	1035.3	1	8.0	2.0		
	100 GORK	6	1035.3	1035.3	.2	25.0	10.0		
	200 GORK	6	1036.8	1036.9	.2	90.0	40.0		
	100 GORK	41	1048.4	1048.5	.7	25.0			
	650 GORK	1	1109.7	1110.5	1.7	3.7	1.8		
	950 GORK	1	1113.4	1113.8	1	3.1	1.5		
	536 ONDR	45	1130	1132	4	65.0			
	2950 GORK	40	1131.1	1132.6	4.8	5.5	2.5		
	950 GORK	2	1131.2	1132.1	1.9	13.4	4.0		
	930 BORD	45	1131	1132	2	26.0	3.0		
	650 GORK	2	1131	1131.8	1.4	10.0	3.2		
	100 GORK	41	1131.9	1132.3	.7	25.0			
	3100 CRIM	3	1144	1201	55	48.0	16.0		
	9400 HUAN	22	1152.8	1157.7	12.6	13.3	5.3		
	7000 SAOP	4	1157.2	1157.6	3.6	12.7	8.0		
	9400 HUAN	20	1210	1214.5	13.2	7.6	4.3		
	930 BORD	45	1212	1213	2	181.0	5.0		
	1415 SGMR	4	1225.5	1225.9	.6	16.1	3.2		
	930 BORD	45	1225	1226	3	1130.0	20.0		
	606 SGMR	4	1225.1	1225.5	1.4	40.7	8.1		
	245 SGMR	6	1225.6	1225.7	.9	22.4	4.4		
	113 POTS	45	1225.5	1226	1	250.0	40.0		
	10500 BERN		1227.4	1227.6	1.8	30.0	3.0		
	237 TRST	45	1242.2	1242.3	.2	120.0	30.0		
	7000 SAOP	32	1301		-21.6	-10.9			
	260 ONDR	45	1316	1327.5	14	130.00			
	606 SGMR	4	1322.8	1327.8	12.3	59.0	12.0		
	960 PENN	45	1323	1327.7	8.6	400.0	26.00		
	930 BORD	41	1323	1327.6	12	2250.0	8.0		
	2800 SLOU	3	1324	1328	9.5	43.0			
	536 ONDR	45	1325	1328	7	80.0			
	808 ONDR	45	1326.5	1327.5	3.5				
	19000 SLOU	3	1327	1327.1	.7	51.0			
	15400 SGMR	4	1327.5	1327.6	1.7	51.9	10.3		
	10700 PENN	3	1327.5	1327.7	1.3	54.2	14.1		
	9500 BERL	3	1327.5	1327.8	2	32.0	16.3		
	9400 SLOU	3	1327.6	1328	1	49.0			
	9400 HUAN	3	1327.2	1327.7	1.6	43.6	17.1		
	8800 SGMR	4	1327.4	1327.6	1.5	25.0	5.0		
	7000 SAOP	8	1327.5	1128	.7	25.3	12.7		
	4995 SGMR	4	1327.4	1327.6	3.1	18.9	3.8		
	2800 OTTA	3	1327.5	1327.9	1.5	22.0	8.0		
	2700 PENN	3	1327.5	1327.7	2.9	36.2	7.4		
	2695 SGMR	4	1327.5	1327.7	2.3	21.6	4.3		
	1490 BERL	3	1327.1	1327.6	3.9	127.0	32.0		
	1420 CANR	8	1327.5	1328	2			2	
	1420 KIEL	5	1327	1328	2	450.0	80.0		
	1415 SGMR	4	1327	1327.5	7.4	478.0	96.0		
	420 KIEL	6	1327	1328	2	800.0	60.0		
	245 SGMR	48	1327.5	1327.7	1.6	998.0	195.0		
	240 KIEL	6	1327	1328	2	500.0	30.0		
	237 TRST	45	1327.5	1327.7	.7	1450.0	300.0		

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DEC. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
8	234 POTS	45	1327.3	1327.7	.7	700.0	150.0	1 3 1 1 1	
	113 POTS	41	1327.3	1327.8	7	2100.0	100.0		
	2695 CANR	3	1328	1328.5	2				
	7000 SAOP	40	1335			14.5			
	18 BOUL	42	1412	1439	45				
	2800 OTTA	2	1610	1612.5	6	4.0	1.6		
	7000 SAOP	3	1611.4	1612.7	2.4	9.9	4.9		
	10700 PENN	1	1612.1	1612.7	4.1	7.8	3.9		
	4995 SGMR	3	1612.4	1612.5	1.6	5.7	1.1		
	2695 SGMR	1	1612.4	1612.7	2.5	3.6	.7		
	1415 SGMR	1	1612.2	1612.9	1.6	4.6	.9		
	960 PENN	20	1612.1	1613.2	11.1	4.6	1.1		
	606 SGMR	1	1612.4	1612.9	2.1	3.0	.6		
	245 SGMR	48	1612	1612.7	2	525.0	105.0		
	10700 PENN	1	1652.9	1653.6	2	7.8	1.4		
	9400 HUAN	1	1652.2	1653.4	2.8	5.7	3.1		
	2800 OTTA	20	1700	1740	95	2.6	1.3		
	2695 BOUL	40	2027.5	2027.5	4				
	2695 BOUL	40	2055	2055	7.5				
	2695 BOUL	45	2112	2112.5	1				
	9400 TYKW	5	2240	2240.6	2	25.0	8.0		
	3750 TYKW	5	2240	2240.6	2	7.0	2.0		
	9400 TYKW	5	2244	2246.5	6	10.0	4.0		
	3750 TYKW	5	2244	2246.4	5	9.0	4.0		
	9400 TYKW	5	2316.8	2317	1	5.0	2.0		
	3750 TYKW	5	2316.8	2317	1	2.0	1.0		
	3750 TYKW	5	2320	2320.6	3	2.0	1.0		
	9400 TYKW	5	2323.5	2324.3	1.5	3.0	1.0		
	9400 TYKW	5	2331	2331.5	2	11.0	3.0		
	3750 TYKW	5	2331	2331.6	2	5.0	2.0		
	9400 TYKW	5	2341	2341.5	1	16.0	3.0		
	9400 TYKW	5	2352	2354	5	5.0	2.0		
	3750 TYKW	5	2353	2354.8	3	3.0	1.0		
9	9400 TYKW	5		0002	4	5.0	2.0		
	9400 TYKW	5		0143.6	4	6.0	2.0		
	9400 TYKW	5	0155	0155.2	3	12.0	4.0		
	9400 TYKW	5	0315.8	0315.9	.4	5.0	2.0		
	3750 TYKW	5	0315.8	0316	.5	5.0	2.0		
	2000 TYKW	5	0315.8	0316	1	2.0	1.0		
	4995 MANI	3	0343.8	0344.3	1.4	9.5	4.1		
	2695 MANI	3	0343.8	0344.3	1.4	22.1	9.8		
	9400 TYKW	5	0344	0344.6	3	4.0	2.0		
	3750 TYKW	5	0344	0344.6	1	15.0	8.0		
	2000 TYKW	5	0344	0344.7	2	3.0	1.0		
	3750 TYKW	29	0345		8	4.0	2.0		
	4995 MANI	3	0623	0624.2	3.9	14.7	4.9		
	3750 TYKW	5	0623.5	0624.2	2	6.0	3.0		
	2695 MANI	1	0624.1	0624.2	2.8	2.7	1.4		
	1415 MANI	1	0624.1	0624.2	2.8	3.9	1.3		
	204 KIEV	42	0745		315	32.0	8.0		
	606 MANI	4	0755	0803	15	15.1	3.8		
	3100 CRIM	47	0758	0803	43	310.0	100.0		
	9500 BERL	46	0759	0803.5	11 U	87.0	40.0		
	1490 BERL	22	0759	0803.4	25 U	21.0	12.5		
	8800 MANI	4	0800.8	0802.7	9.2	113.0	28.2		
	4995 MANI	4	0800.8	0802.9	9.2	98.0	24.5		
	2950 GORK	45	0800	0803	27	51.0			
	2950 GORK		0800	0807.8		30.0			
	2695 MANI	4	0800.8	0802.9	9.2	43.5	13.6		
	10500 BERN		0801.8	0802.8	8	65.0	45.0		
	10500 BERN		0801.8	0803.2		54.0			
	10500 BERN		0801.8	0803.8		36.0			
	10500 BERN		0801.8	0806.4		30.0			
	10500 BERN		0801.8	0807.1		36.0			
	9750 IRKU	3	0801	0802.9	8	73.0	15.0		
	1415 MANI	4	0801.8	0803.2	8.2	14.2	6.5		
	9100 GORK	45	0802.1	0803.4	6.8	121.0	53.0		
	9100 GORK		0802.1	0807.4		73.0			
	200 GORK	41	0802.7	0802.8	28.2	20.0			
	200 GORK		0802.7	0815.7		40.0			
	100 GORK	41	0802.6	0807.2	30.8	30.00			
	100 GORK		0802.6	0817.2		30.0			
	100 GORK		0802.6	0821.4		30.0			
	100 GORK		0802.6	0830.8		20.0			
	650 GORK	1	0803.2	0803.3	.5	4.0	1.8		
	9100 GORK	29	0808.9	0808.9	19.6	25.0	14.0		
	2950 GORK	29	0809	0812	18	11.0			
	260 ONDR	40	0810	0847	330	40.0			
	113 POTS	41	0814.1	0816	6.7	700.0	35.0		
	3100 CRIM	24	0840	0840		18.0			
	100 GORK	42	0929.2	1011.1	51	30.0			
	200 GORK	42	0930.3	1010.3	47.7	200.0			
	200 GORK		0930.3	1011.7		200.0			
	3100 CRIM	20	1103	1129	87	27.0			
	9400 HUAN	3	1112.8	1113.3	1.1	11.2	5.6		
	10500 BERN		1117.8	1118.5	2.3	11.0	3.0		
	9500 BERL	1	1118.2	1118.5	1.8	10.0	6.2		
	7000 SAOP	1	1118.2	1118.7	1.2	12.4	6.2		
	1490 BERL	1	1118.8	1119.6	1.2	6.9	3.8		

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DEC. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
9	9500 BERL	22	1136.7	1137.4	6.3	7.8	4.7		
	9400 HUAN	1	1136.8	1137.7	1.6	9.4	4.7		
	2950 GORK	45	1136.4	1136.8	2.2	12.0			
	2950 GORK		1136.4	1137.5		11.0			
	1490 BERL	22	1136	1136.6	5	4.1	2.5		
	3100 CRIM	3	1155	1156	3	43.0	14.0		
	2800 OTTA	8	1347	1347	.3	6.0			
	930 BORD	41	1417	1419.3	3	11.0	2.0		
	2800 OTTA	1	1454	1456	4	2.4	1.2		
	2800 OTTA	25	1520		35	3.0			
	2800 OTTA	1	1522.5	1522.6	1	4.4	2.2		
	2700 PENN	1	1522.6	1522.8	.6	5.6	2.7		
	960 PENN	1	1522.6	1522.9	1	3.3	1.2		
	9400 HUAN	20	1539.2	1559.5	47.6	5.6	3.0		
	8800 SGMR	3	1546.1	1546.8	2.4	10.1	2.0		
	4995 SGMR	4	1546.2	1546.5	6	21.4	4.1		
	18 BOUL	6	1604	1606	3			1	
	9400 HUAN	20	1707.4	1709.6	10.4	7.5	4.7		
	2700 PENN	3	1707.8	1708.9	6	10.1	5.0		
	10700 PENN	1	1708	1708.9	5.4	8.3	4.2		
	960 PENN	1	1708	1708.9	8	2.7	1.3		
	2800 OTTA	1	1718	1718.9	3	4.0	2.0		
	18 BOUL	6	1733	1735	4			1	
	2800 OTTA	21	1748	1805	55	3.0	1.5		
	2695 SGMR	20	1751	1753.2	27.4	13.2	3.1		
	10700 PENN	20	1752.2	1753.5	26.1	8.3	4.8		
	9400 HUAN	22	1752.3	1759.3	57.7	13.1	7.8		
	4995 SGMR	20	1752	1753.2	27.9	13.3	3.2		
	2800 OTTA	3	1752	1753	10	10.4	3.4		
	2700 PENN	3	1752.3	1753.2	13.4	14.4	5.9		
	2695 BOUL	3	1753.5	1754.5	2.5			1	
	960 PENN	1	1753.6	1754	.9	3.6	1.2		
	2800 OTTA	2	1905.5	1906	1	13.2	4.4		
	2700 PENN	3	1905.4	1906	1.2	24.7	6.7		
	2695 SGMR	3	1905.7	1906	.6	9.8	2.0		
	606 SGMR	1	1905.4	1905.8	.9	4.1	1.0		
	245 SGMR	6	1905.6	1905.7	.4	4.6	1.1		
	2695 BOUL	8	1907	1907.5	1			1	
	2800 OTTA	21	2011	2025	40	5.0	2.5		
	2800 OTTA	1	2012.5	2012.9	1.5	5.8	2.2		
	2700 PENN	3	2012	2012.9	3.6	13.1	6.0		
	2695 PENT	21	2145	2200	30	3.8	1.9		
	2695 PENT	1	2148.5	2149	1	5.4	2.7		
	3750 TYKW	45	2354	2356.9	18	9.0	3.0		
	8800 MANI	1	2355.2	2356.9	4.8	5.6	2.8		
	4995 MANI	1	2355.2	2356.9	4.8	7.0	2.3		
	2695 MANI	1	2355.2	2356.9	4.8	4.1	1.4		
	2000 TYKW	45	2355	2357	5	6.0	2.0		
	9400 TYKW	5	2356	2400	15	6.0	3.0		
	1415 MANI	1	2356.7	2356.9	.8	2.7	1.3		
	606 MANI	4	2356.8	2356.9	.7	15.1	3.8		
10	1415 MANI	2	0251.4	0251.7	1.6	2.5	.4		
	606 MANI	40	0251.4	0251.7	1.6	71.7	15.4		
	3750 TYKW	5	0418	0419.2	3	29.0	8.0		
	0400 TYKW	5	0418.5	0419.2	2	26.0	7.0		
	9750 IRKU	3	0419	0420	1	43.0	24.0		
	8800 MANI	3	0419.2	0419.6	1.3	30.4	8.3		
	4995 MANI	3	0419.2	0419.6	1.3	56.0	24.5		
	2695 MANI	4	0419.2	0419.8	1.3	20.3	5.4		
	2000 TYKW	5	0419	0419.2	1.5	3.0	1.0		
	3750 TYKW	29	0421		60	8.0	4.0		
	1000 TYKW	5	0455.5	0456.2	1	115.0	27.0		
	3750 TYKW	5	0456	0456.2	1.5	3.0	1.0		
	600 UCCL	1	0757.2		.1	6.0	3.0		
	930 BORD	41	0800	0800.4	3	26.0	2.0		
	600 UCCL	1	0802.8		.1	7.0	3.0		
	3100 CRIM	3	0820	0822	6	17.0	6.0		
	206 IZMI	41	0824.9	0825.4	.7	30.0			
	600 UCCL	1	0827.8		.2	11.0	5.0		
	100 GORK	6	0838.4	0838.5	.4	10.0			
	600 UCCL	20	1015.5	1018.5	12.5	6.0	2.0		
	600 UCCL	20	1027.5	1032	23.5	16.0	7.0		
	600 UCCL	22	1058	1106.5	20	25.0	10.0		
	950 GORK	40	1134.8	1135.4	1.2	8.8			
	260 ONDR	45	1134		8.5	130.00			
	237 TRST	41	1138.7	1139.5	4.6	290.00			
	930 BORD	45	1139	1141	3	32.0	3.0		
	650 GORK	40	1139.8	1141.6	2.6	44.0	5.0		
	536 ONDR	45	1139	1140.5	2.5	135.0			
	234 POTS	45	1139.5	1139.7	.2	1200.0	120.0		
	204 KIEV	41	1139.4	1139.4	3.1	141.0			
	200 GORK	41	1139.8	1140.1	2.2	170.0			
	600 UCCL	4	1140.5	1141.5	1.2	50.0	10.0		
	100 GORK	41	1140	1141.8	2	10.0			
	600 UCCL	20	1154	1208	46	9.0	4.0		
	260 ONDR	5	1213	1213	1.5	105.00			
	930 BORD	41	1304	1304.4	3	30.0	2.0		
	260 ONDR	45	1310	1311	1.5	140.00			
	245 SGMR	48	1353.6	1356.6	5.2	2200.0	230.0		

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			UT	UT	MINUTES	PEAK	MEAN		
10	234 POTS	41	1353.9	1356.8	3.4	3500.0	175.0		
	10700 PENN	3	1355.3	1355.8		12.3			
	9400 HUAN	3	1355.6	1356.6	2.2	11.3	5.0		
	2700 PENN	3	1355.4	1355.9	3.6	11.2	3.9		
	960 PENN	45	1355.7	1356.3	2.3	24.1	3.9		
	2800 OTTA	1	1356	1356.5	3	5.2	2.6		
	930 BORD	41	1356	1357.2	4	96.0	4.0		
	606 SGMR	4	1356	1357.6	2.8	23.0	8.0		
	113 POTS	45	1356.4	1356.8	1.2	17000.0	1400.0		
	600 UCCL	41	1357	1358	2	32.0	6.0		
	2695 CANR	3	1420.5	1421	2.5			1	
	2800 OTTA	21	1425	1500	55	6.8	3.4		
	9400 HUAN	20	1428.5	1433.8	24.8	5.7	2.6		
	4995 SGMR	4	1428.2	1430.2	5.4	32.1	8.0		
	2695 SGMR	4	1428.1	1430.1	3.9	30.5	7.5		
	4995 CANR	3	1429.5	1430.5	3			1	
	2800 OTTA	4	1429	1430	3	31.0	15.5		
	2700 PENN	20	1429.3	1430.2	58.7	44.8	4.6		
	10700 PENN	20	1430	1430.4	19.4	8.3	3.9		
	2800 OTTA	30	1432		16	9.2	4.6		
	2695 SGMR	29	1432	1432	11	6.7	3.5		
	4995 SGMR	29	1433.6	1433.6	13.4	5.6	3.0		
	8800 SGMR	20	1434.6	1437.3	14.9	11.4	5.5		
	2800 OTTA	1	1437	1437.5	3	3.0	1.5		
	1415 SGMR	20	1437.3	1439	10.7	1.8	.9		
	2800 OTTA	21	1535	1547	60	5.2	2.6		
	2700 PENN	20	1537.5	1541.6	23.1	22.2	5.6		
	606 SGMR	1	1538.9	1541.4	5.1	4.6	2.3		
	15400 SGMR	3	1539.5	1541.5	4.5	23.5	9.0		
	10700 PENN	3	1539.3	1541.6	16.9	41.7	6.9		
	9400 HUAN	45	1539.3	1541.6	3	41.5	18.9		
	4995 CANR	41	1539.5	1542	4			1	
	4995 SGMR	4	1539.4	1541.5	6.8	29.5	10.0		
	2695 SGMR	4	1539.4	1541.5	12.6	15.1	6.1		
	1415 SGMR	3	1539.5	1541.5	7.9	8.1	3.5		
	960 PENN	3	1539.2	1542	5	10.2	2.6		
	245 SGMR	6	1539	1542.2	7	89.0	30.0		
	8800 SGMR	3	1540.1	1541.5	8.5	34.2	13.8		
	2800 OTTA	45	1540	1541.7	4.5	13.0	5.0		
	930 BORD	45	1540	1542	3	20.0	4.0		
	9400 HUAN	29	1542.3	1542.3	10	9.4	4.7		
	4995 BOUL	41	1542	1543.5	3			1	
	930 BORD	5	1558	1558.1	.1	6.0	1.0		
	10700 PENN	40	1732.7		85.3				
	9400 HUAN	20	1741.6	1744.8	10.6	7.5	3.3		
	4995 SGMR	3	1741.3	1742.5	11.9	7.8	3.0		
	2800 OTTA	1	1741	1742	2	8.6	4.3		
	2700 PENN	20	1741.5	1742.3	40.6	14.4	3.7		
	2695 SGMR	3	1741.2	1742	12.7	12.0	4.5		
	1415 SGMR	1	1741.3	1742	2.9	5.7	2.8		
	960 PENN	1	1741	1742.2	2.2	3.0	1.5		
	606 SGMR	4	1741.2	1741.4	1.8	29.3	10.5		
	2695 BOUL	1	1742.5	1743.5	2			1	
	2800 OTTA	29	1743		60	2.8	2.0		
	2700 PENN	40	1831.7		28				
	2800 OTTA	23	1903	1906	20	6.2	3.1		
	9400 HUAN	22	1913.4	1918.8	23.7	11.3	5.7		
	960 PENN	40	1913.6		106				
	10700 PENN	20	1914	1916.1	21.6	6.3	3.2		
	2700 PENN	20	1914	1923.8	44.4	15.8	3.4		
	4995 SGMR	3	1922.8	1923.8	6	9.8	4.2		
	2695 SGMR	1	1922.6	1923.7	3.3	7.2	3.6		
	2800 OTTA	1	1923	1924	3	8.0	4.0		
	1415 SGMR	1	1923.5	1924	3.7	1.8	.9		
	2695 BOUL	3	1924	1925	3			1	
	10700 PENN	40	2005.2		54.8				
	2700 PENN	40	2005		55				
	245 SGMR	6	2010.3	2011.8	5.7	110.0	40.0		
	15400 SGMR	4	2012.8	2013.9	3.2	37.2	15.0		
	10700 PENN	3	2012.8	2014	3.2	59.0	22.0		
	9400 HUAN	45	2012.3	2013.8	4.7	56.6	27.1		
	8800 SGMR	4	2012.9	2013.9	4.9	18.6	8.0		
	4995 SGMR	4	2012.4	2013.9	7.4	24.5	10.0		
	2695 SGMR	1	2012.8	2013.9	2.8	2.4	1.2		
	1415 SGMR	1	2012.8	2013.3	5.7	3.8	1.9		
	606 SGMR	4	2012.4	2014	2.9	68.0	25.0		
	2800 OTTA	2	2013	2014	4	5.0	2.5		
11	2000 TYKW	5	0030	0030.7	2	3.0	1.0		
	9400 TYKW	5	0135.5	0137.2	4	14.0	5.0		
	3750 TYKW	5	0136	0137.3	3	5.0	2.0		
	9400 TYKW	5	0211	0212.3	10	6.0	2.0		
	8800 MANI	1	0211.6	0211.8	1	2.7	.8		
	4995 MANI	1	0211.6	0211.8	1	4.6	1.2		
	3750 TYKW	45	0211	0211.8	3	7.0	3.0		
	2695 MANI	1	0211.6	0211.8	1	2.9	.7		
	2000 TYKW	5	0211	0211.8	3	6.0	2.0		
	1415 MANI	1	0211.6	0211.8	1	2.5	.6		
	1000 TYKW	5	0211.5	0211.8	1	8.0	2.0		
	9400 TYKW	45	0333.8	0335	2	18.0	2.0		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
11	3750 TYKW	45	0333.8	0335	2	10.0	2.0	1	
	8800 MANI	3	0334.8	0335	.9	13.7	5.5		
	4995 MANI	4	0334.8	0335	.9	23.0	11.5		
	9750 IRKU	3	0435.8	0440.2	11	69.0	20.0		
	500 HIRA	45	0435.8	0436.2	9.2	25.0	5.0		
	9400 TYKW	45	0436	0440.2	20	55.0	10.0		
	8800 MANI	22	0436.2	0440.3	9.8	55.0	21.8		
	4995 MANI	22	0436.2	0440.3	20.8	62.0	23.0		
	3750 TYKW	45	0436	0437.8	20	38.0	11.0		
	2695 CRON	45	0436.5	0437	10.5				
	2695 MANI	4	0436.2	0436.5	9.8	37.2	14.3		
	2000 TYKW	45	0436	0436.6	20	65.0	8.0		
	1415 MANI	4	0436.2	0437.2	22	30.0	12.5		
	1000 TYKW	45	0436	0440.3	15	29.0	8.0		
	606 MANI	22	0436.3	0441.1	21.9	17.4	5.3		
	200 HIRA	45	0440	0440	1	140.0	40.0		
	4995 CRON	5	0536.5	0540.5	10.5				
	1420 CRON	45	0537	0538.5	8.5				
	1420 CRON		0537	0542					
	3100 CRIM	20	0712	0729	30	30.0	10.0		
	3100 CRIM	3	0721	0722	3	35.0	11.0		
	237 TRST	45	0727.7	0728	.8	550.0	100.0		
	234 POTS	45	0727.8	0728	.4	700.0	100.0		
	221 ABST	5	0731	0731.1	1	52.0	12.0		
	237 TRST	41	0743.4	0750.3	9.1	1450.0			
	234 POTS	41	0743.7	0750.3	8.4	700.0	2.0		
	950 GORK	1	0747.9	0748	.2	5.2	2.6		
	930 BORD	41	0747	0752.5	6	25.0	2.0		
	950 GORK	1	0748.3	0748.4	.2	4.3	2.1		
	650 GORK	1	0748.3	0748.3	.3	4.6	2.0		
	3100 CRIM	45	0749	0751	10	35.0	11.0		
	3100 CRIM		0749	0756			11.0		
	650 GORK	3	0749.9	0750	4	44.0	22.0		
	2950 GORK	40	0750.6	0751	7	7.0			
	221 ABST	40	0750	0750	2.5	67.0			
	204 KIEV	41	0750	0750.1	3	83.0			
	200 GORK	41	0750	0750.2	2.8	150.0			
	200 GORK		0750	0752.2		150.0			
	113 POTS	45	0750.6	0752.1	2.7	800.0	50.0		
	100 GORK	41	0750.2	0751.2U	2.8	300.0D			
	100 GORK		0750.2	0752.1U		10000.0			
	950 GORK	1	0751.6	0751.9	1.5	3.4	1.9		
	2950 GORK	20	0851.6	0906	26.5	14.0			
	9100 GORK	21	1017.1		26.1				
	9500 BERL	4	1025	1028.4	30 U	1370.0U			
	9400 ONDR	45	1025.5	1029	14.5				
	808 ONDR	45	1025.5		14.5				
	37000 SLOU	4	1026.8	1028.5	8	2150.0			
	19000 SLOU	4	1026.4	1028.5	8	1970.0			
	10500 BERN		1026	1028.3	20	1400.0	47.0		
	10500 BERN		1026	1028.9		480.0			
	9400 SLOU	4	1026.2	1028.5	7	2350.0			
	9100 GORK	45	1026.2	1027.8	3	250.0			
	9100 GORK		1026.2	1028.3		1340.0			
	4995 CANR	41	1026.5	1029	15				
	3100 CRIM	47	1026	1028		3050.0	1016.0		
	2950 GORK	46	1026.1	1028	16.9	62.0			
	2950 GORK		1026.1	1028.4		500.0			
	2950 GORK		1026.1	1040.3		43.0			
	1490 BERL	4	1026.8	1028.7	93.2	360.0U			
	4995 CRON	29	1027.5	1029	5.5				
	2800 SLOU	4	1027	1028.9	7.5	590.0D			
	1420 CANR	45	1027.5	1028.5	19				
	950 GORK	46	1027.5	1029	4.6	234.0			
	950 GORK		1027.5	1031		115.0			
	930 BORD	45	1027	1028.5	28	381.0	41.0		
	650 GORK	46	1027.6	1028.4	20.2	93.0	38.0		
	650 GORK		1027.6	1028.7		360.0			
	650 GORK		1027.6	1031.1		130.0			
	650 GORK		1027.6	1039.3		24.0			
	420 KIEL	6	1027	1029	23	16000.0	120.0		
	408 SANM	45	1027.1	1029.2	22.9	850.0	26.0		
	240 KIEL	48	1027	1031	23	12000.0	1000.0		
	237 TRST	42	1027.4	1030.6	15	500000.0U			
	234 POTS	45	1027.6	1030.4	5.6	175000.0D	1000.0D		
	204 KIEV	48	1027.3	1021.7U	7	2820.0			
	200 GORK	48	1027.5	1031	5.2	100000.0D			
	113 POTS	45	1027.6	1030.5	14.8	200000.0	7000.0		
	100 GORK	41	1027.7	1028.5	14.8	3000.0D			
	100 GORK		1027.7	1031		100000.0D			
	100 GORK		1027.7	1037.4		1500.0			
	2695 CANR	45	1028	1029.5	13.5				
	1420 CRON	45	1028	1029	12				
	1420 KIEL	45	1028	1029	15	400.0	60.0		
	536 ONDR	45	1028		32	220.0			
	221 ABST	5	1028	1033	7.5	273.0	38.0		
	206 IZMI	48	1028	1028.5	6.4	1370.0	800.0		
	206 IZMI		1028	1030.9		2400.0	900.0		
	9100 GORK	1	1037.1	1037.3	.5	11.0	5.5		
	9100 GORK	1	1040.2	1040.5	.6	19.0	9.7		

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			UT	UT	MINUTES	PEAK	MEAN		
11	100 GORK	44	1045		54 D		5.0		
	100 GORK	6	1053	1053.1	.6	40.0D			
	408 SANM	45	1127.4	1128.4	2.6	59.0	18.0		
	100 GORK	6	1128.3	1130.1	2.9	40.0D			
	100 GORK	6	1136.8	1137	.4	40.0D			
	536 ONDR	45	1220	1318	80	230.0			
	260 ONDR	45	1226.5		13.5	130.0D			
	260 ONDR	45	1226		2.5	140.0D			
	237 TRST	41	1226.7	1227.5	1.4	1450.0			
	1490 BERL	4	1227.1	1227.2	1.9	14.0	6.1		
	1420 CANR	3	1227	1227.5	.2			1	
	1420 KIEL	5	1227	1228	2	50.0	20.0		
	1415 SGMR	4	1227.3	1227.6	2	20.8	10.1		
	930 BORD	45	1227	1228.5	2	21.0	3.0		
	606 SGMR	3	1227	1228.6	2.1	16.1	5.4		
	420 KIEL	6	1227	1228	2	1000.0	50.0		
	408 SANM	45	1227.4	1228.4	2.6	325.0	30.5		
	245 SGMR	48	1227	1229	6.4	1380.0	450.0		
	234 POTS	45	1227	1227.4	.8	500.0	25.0		
	204 KIEV	6	1227	1227.4	1.3	85.0			
	113 POTS	45	1227	1227.4	1.7	3000.0	250.0		
	1490 BERL	1	1234.7E	1234.7		3.6			
	930 BORD	45	1234	1234.8	2	23.0	2.0		
	808 ONDR	45	1300		40				
	1490 BERL	3	1321.5	1323.3	11.5U	23.0	8.6		
	408 SANM	45	1321.2	1323.7	8.8	208.0	8.0		
	15400 SGMR	1	1322.7	1323.3	2.7	3.2	1.6		
	9500 BERL	3	1322.3	1323.1	7.2	16.0	11.0		
	9400 HUAN	3	1322.3	1323.3	1.3	14.2	7.1		
	8800 SGMR	3	1322.1	1323.4	6.8	10.8	5.5		
	4995 SGMR	3	1322.5	1323.3	6.1	16.0	7.3		
	2800 SLOU	3	1322.8	1323.5	1.5	38.0			
	2800 OTTA	4	1322.5	1323.2	1.5	38.0	17.0		
	2700 PENN	3	1322.6	1323.4	10.5	46.2	5.5		
	2695 SGMR	3	1322.4	1323.3	5.3	34.1	11.8		
	1420 CANR	3	1322.5	1323.5	3.5			1	
	1420 KIEL	5	1322	1324	2	25.0	10.0		
	1415 SGMR	3	1322.5	1323.4	5.9	33.2	12.4		
	960 PENN	3	1322.4	1323.4	3.4	15.3	4.7		
	930 BORD	5	1322	1323.5	6	26.0	4.0		
	606 SGMR	3	1322.3	1323.5	9.5	7.4	3.5		
	420 KIEL	6	1322	1323	2	350.0	30.0		
	260 ONDR	45	1322		1.5	140.0D			
	245 SGMR	48	1322.2	1323.5	2.9	1380.0	460.0		
	237 TRST	45	1322.9	1323.3	.8	2000.0D			
	9400 SLOU	3	1323	1323.3	1.5	17.0			
	2695 CANR	3	1323	1324	1.5			1	
	234 POTS	45	1323.2	1323.3	.4	4000.0	600.0		
	9400 HUAN	20	1324.3	1327.1	5.5	7.1	3.1		
	2800 OTTA	29	1324		4	6.4	5.0		
	2800 OTTA	1	1329	1332	5	3.2	1.6		
	2800 OTTA	21	1425	1515	255	10.2	5.4		
	9400 HUAN	23	1430	1524.8	155	12.5	5.4		
	2800 OTTA	40	1430	1432	11	8.8			
	2700 PENN	40	1431.8		27.9				
	960 PENN	8	1434.5	1434.5	.1	7.0			
	930 BORD	5	1434	1434.4	1	31.0	1.0		
	4995 SGMR	20	1444.8	1445.4	18.3	5.0	2.5		
	1415 SGMR	22	1444.8	1445.4	21.4	14.4	7.0		
	960 PENN	45	1444.2	1446	4.2	18.3	3.5		
	930 BORD	41	1444	1444.2	5	72.0	3.0		
	606 SGMR	22	1444	1444.3	12.5	74.0	24.2		
	245 SGMR	6	1444.4	1452	10.9	35.7	14.0		
	2800 OTTA	2	1445	1445.4	1.5	4.2	2.1		
	2695 SGMR	22	1445	1451.9	20.2	6.8	3.4		
	408 SANM	42	1445	1446.4	10	88.0	10.0		
	960 PENN	1	1450.9	1452	5.4	9.7	2.2		
	2800 OTTA	1	1451.2	1452	1.8	4.4	2.2		
	930 BORD	45	1451	1452	5	15.0	3.0		
	2800 OTTA	20	1520	1523	40	6.2	3.1		
	930 BORD	41	1538	1538.2	1	11.0	2.0		
	10700 PENN	3	1647.6	1647.8	1.5	16.4	6.0		
	9400 HUAN	3	1647.4	1647.7	1.1	12.5	5.3		
	2800 OTTA	20	1730	1740	40	4.4	2.2		
	2695 BOUL	41	1758.5	1800	3			2	
	2695 BOUL	40	1810	1812	5			1	
	2695 BOUL	41	1829	1829	3.5			1	
	9400 HUAN	20	2016.2	2030	22.6	5.3	3.5		
	2800 OTTA	20	2020	2025	60	3.2	1.6		
	2695 CRON	45	2027.5	2029	8.5			2	
	2695 PENT		2205	2220.5	45 D	72.0			
	200 HIRA	45	2209	2314	146	430.0	30.0		
	500 HIRA	45	2212	2313.5	151	210.0	40.0		
	606 MANI	46	2215	2325.8	127.2D	320.0U	90.0D		
	3750 TYKW	45	2237	2253.5	22 D	65.0	50.0		
	2000 TYKW	45	2237	2249.8	24 D	80.0	58.0		
	1000 TYKW	45	2240	2252	23 D	110.0	67.0		
	9400 TYKW	45	2242	2251.4	15 D	100.0	70.0		
	9400 TYKW	29	2257		8	82.0	80.0		
	3750 TYKW	29	2259		6	40.0	38.0		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
11	2000 TYKW	29	2301		4	42.0	40.0		
	1000 TYKW	29	2303		2	45.0	45.0		
	9400 TYKW	5	2305	2317.5	85	235.0	115.0		
	3750 TYKW	5	2305	2320	85	580.0	200.0		
	2000 TYKW	5	2305	2320	85	935.0	245.0		
	1000 TYKW	5	2305	2320	85	900.0	220.0		
	208 VORO	27	2306	2317	54 U	298.0	144.0		
	8800 MANI	4	2308.2	2318.4	34	160.0	73.0		
	4995 MANI	4	2308.2	2318.4	34	460.0	159.0		
	2695 MANI	47	2308.2	2318.9	34	1120.0	415.0		
	1415 MANI	47	2308.2	2318.9	34	860.0	340.0		
	4995 CRON	3	2309.5	2323.5	58			2	
	2695 CRON	3	2309	2320	59			2	
	1420 CRON	3	2309.5	2320.5	57			2	
	8800 MANI	29	2342.2	2342.2	31.8	46.5	12.4		
	4995 MANI	29	2342.2	2342.2	31.8	118.0	47.2		
	2695 MANI	29	2342.2	2342.2	31.8	126.0	50.0		
	1415 MANI	29	2342.2	2342.2	31.8	107.0	42.7		
	606 MANI	29	2342.2	2342.2	34.8	68.0	30.2		
	9400 TYKW	29	2430		140	34.0	15.0		
	3750 TYKW	29	2430		130	35.0	17.0		
	2000 TYKW	29	2430		130	20.0	10.0		
	1000 TYKW	29	2430		60	10.0	5.0		
12	3750 TYKW	45	0106.5	0108.7	7	7.0	3.0		
	208 VORO	5	0107.7	0108	1	334.0	36.0		
	200 HIRA	45	0108	0108	1	680.0	70.0		
	9750 IRKU	1	0416.9	0417.9	3	8.0	4.0		
	9400 TYKW	5	0417.8	0418	1.5	17.0	5.0		
	8800 MANI	3	0417.8	0418	2.7	8.4	2.8		
	3750 TYKW	5	0417.8	0418	1.5	8.0	3.0		
	2695 MANI	3	0417.8	0418	2.7	8.8	3.8		
	2000 TYKW	5	0417.8	0418	2	8.0	2.0		
	1415 MANI	3	0417.8	0418	2.7	11.9	4.8		
	1000 TYKW	5	0417.8	0418	4	7.0	2.0		
	606 MANI	1	0417.8	0418	3.2	4.8	2.1		
	606 MANI	40	0425.9	0426.2	1.1	62.0	6.9		
	100 GORK	44	0630		315 D		10.0		
	200 GORK	44	0631		312 D		10.0		
	200 GORK	24	0631.8	0642.5	25.2	1000.0	500.0		
	8800 MANI	4	0640.9	0642.3	10.6	47.4	16.7		
	4995 MANI	4	0640.9	0641.3	3.1	33.9	14.5		
	2950 GORK	45	0640.9	0641.3	2.2	24.0			
	2950 GORK		0640.9	0642.5		5.0			
	2695 MANI	4	0640.9	0641.3	3.1	15.1	5.0		
	1415 MANI	4	0640.9	0642.5	3.8	17.9	7.1		
	650 GORK	45	0640.8	0641.3	2.4	10.0	5.0		
	650 GORK		0640.8	0642.5		7.0			
	606 MANI	46	0640.9	0641.3	3.1	25.5	11.0		
	9750 IRKU	3	0641 E	0642.4	3.5	48.0	19.0		
	9400 TYKW	45	0641	0641.9	4	36.0	14.0		
	9100 GORK	45	0641	0641.4	3.3	38.0	23.0		
	3750 TYKW	45	0641	0642	4	18.0	7.0		
	2000 TYKW	45	0641	0641.3	4	14.0	6.0		
	1000 TYKW	45	0641	0641.3	3	10.0	5.0		
	950 GORK	45	0641	0641.3	3.2	10.0			
	950 GORK		0641	0642.3		10.0			
	2695 CRON	5	0642.5	0642.5	2.5			1	
	950 GORK	40	0654.1	0654.5	1.1	6.3	3.4		
	200 GORK	6	0708.3	0708.5	.8	100.0	20.0		
	950 GORK	1	0727.7	0730.5	1.6	6.6	4.1		
	9100 GORK	20	0728.5	0739.2	10.9	11.0	5.8		
	606 MANI	2	0728.9	0730.5	2.1	6.2	2.8		
	2950 GORK	4	0729.3	0729.8	2	7.0	3.0		
	650 GORK	1	0729.7	0730.5	1.5	4.3	2.0		
	221 ABST	5	0729.3	0729.3	2	60.0	8.0		
	200 GORK	6	0729.6	0729.8	1.5	90.0	25.0		
	234 POTS	41	0730.5	0730.7	.3	150.0	10.0		
	606 MANI	4	0751.5	0800.5	20.5	13.1	4.8		
	2950 GORK	1	0754.8	0755.3	1.4	5.0	2.0		
	221 ABST	5	0755.1	0755.3	1	60.0	8.0		
	9100 GORK	20	0807.6	0820.3	20.1	35.0	13.0		
	8800 MANI	4	0807.4	0809.9	3.9	16.7	5.6		
	4995 MANI	4	0807.3	0807.9	3.1	109.0	29.0		
	2950 GORK	21	0807.2	0814.2	25.4	8.5	4.0		
	2950 GORK	45	0807.5	0808	1.7	35.0	14.0		
	2950 GORK		0807.5	0810.1		12.5			
	2695 MANI	4	0807.4	0807.6	2.1	15.1	6.3		
	950 GORK	41	0807.9	0808	3.7	5.0			
	950 GORK		0807.9	0810		1.2			
	930 BORD	45	0807	0810	5	25.0	4.0		
	650 GORK	1	0807.8	0808.2	.9	3.1	1.5		
	237 TRST	42	0807.8	0817.3	13.1	22400.0			
	234 POTS	41	0807.8	0817.3	13.1	60000.0	1500.0		
	221 ABST	5	0807.4	0811	4.5	198.0	16.0		
	206 IZMI	41	0807.9		3.7	700.0D			
	204 KIEV	6	0807.9		1	180.0D			
	200 GORK	41	0807.7	0808.2	13.3	6000.0D			
	200 GORK		0807.7	0810.3		10000.0			
	200 GORK		0807.7	0817.6		10000.0			

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DEC. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
12	200 GORK		0807.7	0820.5		100000.0		1	
	4995 CRON	45	0808	0808	4.5				
	1415 MANI	4	0808.1	0810.2	4.2	11.9	4.8		
	260 ONDR	45	0808 E		13	105.0D			
	650 GORK	45	0809.5	0810.1	2.2	16.0			
	650 GORK		0809.5	0810.8		8.8			
	204 KIEV	48	0809.5		2.9	180.0D			
	113 POTS	41	0809.4	0820.4	11.6	20000.0	700.0		
	100 GORK	6	0809.7	0810.6	1.7	10000.0D			
	600 UCCL	4	0810.5	0811.5	1.8	18.0	10.0		
	204 KIEV	48	0816.6	0818.2	.8	400.0			
	2950 GORK	3	0817.2	0817.6	1.6	12.5	6.0		
	2695 MANI	4	0817.2	0820.4	7.1	42.8	7.6		
	1420 CANR	3	0817	0817.5	1			1	
	1415 MANI	4	0817.2	0817.4	1.9	32.1	14.3		
	950 GORK	4	0817.2	0817.6	.6	24.0	12.0		
	930 BORD	41	0817	0817.5	4	515.0D	8.0		
	650 GORK	41	0817.1	0817.7	3.8	32.0	16.0		
	650 GORK		0817.1	0820.5		5.0			
	606 MANI	4	0817.2	0817.4	18.2	13.8	5.5		
	221 ABST	1	0817.1	0817.3	2	178.0			
	206 IZMI	48	0817.1		1.2	700.0D	700.0		
	600 UCCL	3	0818	0818.5	1	21.0	10.0		
	2950 GORK	40	0819.9	0820.5	1	30.0			
	206 IZMI	6	0819.8		1.3	700.0D	210.0		
	950 GORK	3	0820.2	0820.8	.8	70.0	35.0		
	221 ABST	5	0820	0820.3	1.5	113.0	30.0		
	204 KIEV	6	0820	0820.8	1.4	630.0			
	600 UCCL	2	0821	0821.8	2	9.0	4.0		
	536 ONDR	45	0900	0904.5	10.5	175.0			
	9500 BERL	4	0902.7	0904	15.3	50.0	13.3		
	4995 CANR	45	0902.5	0904	9			2	
	2695 CRON	45	0902.5	0904.5	9.5				
	1490 BERL	4	0902	0905.2	14	280.0U			
	930 BORD	45	0902	0905	16	258.0	44.0		
	600 UCCL	3	0902.8	0906	11	130.0	50.0		
	260 ONDR	45	0902		10	130.0D			
	237 TRST	41	0902.1	0906.1	5.6	7700.0			
	221 ABST	5	0902.1	0907.1	6.5	273.0	56.0		
	206 IZMI	41	0902.2		6.8	700.0D			
	10500 BERN		0903.1	0903.8	7	83.0	45.0		
	10500 BERN		0903.1	0904.3		150.0			
	10500 BERN		0903.1	0904.5		120.0			
	10500 BERN		0903.1	0905		120.0			
	10500 BERN		0903.1	0905.1		130.0			
	10500 BERN		0903.1	0906.9		27.0			
	9400 ONDR	45	0903	0904.5	2.5				
	9100 GORK	3	0903.6	0904 U	.8D	180.0			
	8800 MANI	4	0903.7	0904	.5	64.0	27.9		
	4995 CRON	45	0903.5	0904	3			2	
	4995 MANI	4	0903.6	0904	1.7	75.0	31.5		
	2695 MANI	4	0903.6	0904	4.4	37.8	15.1		
	1420 CRON	45	0903	0905.5	9			2	
	1420 CRON		0903	0906					
	1420 KIEL	5	0903	0907	8	250.0	70.0		
	1415 MANI	4	0903.6	0903.9	3.4	38.1	17.9		
	808 ONDR	45	0903		6				
	606 MANI	4	0903.6	0904.5	3.4	42.7	20.0		
	420 KIEL	6	0903	0905	9	9000.0	150.0		
	240 KIEL	6	0903	0906	6	7000.0	200.0		
	204 KIEV	48	0903.2		7	670.0D			
	2695 CANR	45	0904	0905	5			2	
	950 GORK		0906.7E	0906.8U		270.0			
	650 GORK		0906 E	0906 U	8.6	71.0			
	234 POTS	45	0906.1E	0906.1U		3500.0U			
	113 POTS	45	0906.3E	0906.3U		14000.0U			
	200 GORK	6	0907.2E	0908.5	1.7	2500.0			
	1420 CANR	45	0908	0911	10			2	
	221 ABST	5	0934.4	0935.3	3.5	60.0	15.0		
	1420 KIEL	5	1046	1048	6	90.0	30.0		
	930 BORD	45	1046	1048	13	113.0	7.0		
	100 GORK	6	1046.8	1048.2U	1.7	100000.0D			
	9400 SLOU	3	1047	1048	2	11.0			
	9100 GORK	1	1047.8	1048.2	.8	15.0	7.5		
	4995 CANR	41	1047.5	1048	4			1	
	2950 GORK	45	1047.6	1048	4.2	140.0			
	2950 GORK		1047.6	1050.3		13.0			
	2800 SLOU	3	1047.4	1048.1	4.1	164.0			
	1420 CANR	3	1047.5	1048	4.5			1	
	950 GORK	45	1047.3	1048.3	5.8	128.0			
	950 GORK		1047.3	1050.5		37.0			
	808 ONDR	45	1047.5	1048	6.5				
	650 GORK	45	1047.6	1048.2	7.1	54.0	25.0		
	650 GORK		1047.6	1050.7		22.0			
	420 KIEL	6	1047	1048	5	400.0	30.0		
	408 SANM	45	1047.4	1048.4	17.6	165.0	14.0		
	260 ONDR	45	1047.5		2.5	140.0D			
	240 KIEL	6	1047	1048	5	2000.0	80.0		
	237 TRST	42	1047.3	1048	3.7	2300.0			
	234 POTS	45	1047.7	1048	.7	1600.0	150.0		

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			UT	UT	MINUTES	PEAK	MEAN		
12	206 IZMI	48	1047.5	1048.2	1.4	2300.0	1050.0	2	
	200 GORK	6	1047.6	1048.2	.9	50000.0			
	113 POTS	45	1047.7	1048.1	1.3	28000.0	3000.0		
	2695 CANR	41	1048.5	1049.5	4.5				
	600 UCCL	22	1048	1048	6	57.0	30.0		
	536 ONDR	45	1048	1049	6	105.0			
	204 KIEV	6	1048.2		.5	670.0D			
	9500 BERL	1	1304 E	1304		5.3			
	237 TRST	42	1308.9	1313.3	6.7	1750.0			
	930 BORD	41	1311	1313.3	3	98.0	2.0		
	420 KIEL	6	1311	1312	1	5000.0	200.0		
	600 UCCL	8	1312.5		.1	27.0	13.0		
	408 SANM	45	1312.2	1313.7	2.8	580.0	28.5		
	420 KIEL	6	1313	1313	1	700.0	60.0		
	2800 OTTA	21	1405	1515	270	23.0	11.5		
	930 BORD	45	1436	1438.5	8	72.0	9.0		
	15400 SGMR	3	1437.4	1437.5	4	26.4	5.3		
	10700 PENN	3	1437.8	1438.5	4	50.9	10.2		
	10500 BERN		1437.9	1438.4	4	56.0	3.0		
	9400 HUAN	3	1437.8	1438.6	1.1	115.0	57.5		
	4995 SGMR	4	1437.7	1438.4	10.4	383.0	76.6		
	2800 SLOU	3	1437.8U	1438.6	1.3U	256.0U			
	2800 OTTA	4	1437.5	1438.5	7	216.0	27.0		
	2700 PENN	3	1437.6	1438.4	5	161.0	24.1		
	2695 SGMR	3	1437.5	1438.4	14.1	206.0	51.2		
	1420 CANR	3	1437.5	1438.5	7.5			1	
	1415 SGMR	3	1437.7	1438.5	7.3	111.0	22.5		
	960 PENN	45	1437.4	1438.4	6	32.3	8.4		
	606 SGMR	4	1437.5	1438.5	8.6	56.4	10.3		
	9400 SLOU	3	1438	1438.2	1	84.0U			
	9400 HUAN	29	1438.9	1438.9	3.9	13.2	9.4		
	8800 SGMR	3	1438.1	1438.5	5.7	122.0	24.5		
	4995 CANR	41	1438	1439	4.5				
	2695 CANR	8	1438	1439.5	3.5				
	600 UCCL	4	1438	1439.5	4.2	54.0	16.0		
	245 SGMR	7	1438.2	1440.1	5	442.0	85.0	2	
	408 SANM	45	1440	1441.2	10	260.0	13.0		
	9400 HUAN	20	1451.4	1459.1	95.9	35.8	12.0		
	4995 SGMR	20	1451.5	1458.6	68.9	53.8	20.2		
	2695 SGMR	20	1451.6	1458.5	58.5	25.0	9.0		
	1415 SGMR	20	1451.5	1457.4	61.5	6.5	2.0		
	15400 SGMR	20	1452	1458.4	53.1	33.7	12.2		
	245 SGMR	7	1452.8	1452.9	3	411.0	35.0		
	2800 OTTA	4	1454	1458.5	9	25.0	12.0		
	2700 PENN	3	1454.1	1458.6	9.5	29.7	11.4		
	10700 PENN	3	1455.2	1459.5	8.8	24.5	9.0	1	
	4995 CANR	20	1455.5	1459	6.5				
	8800 SGMR	20	1456.8	1459.5	50.1	24.8	9.0		
	960 PENN	1	1456.5	1459.5	8.4	4.2	1.3		
	930 BORD	41	1456	1456.8	1	9.0	2.0		
	606 SGMR	3	1458.3	1458.8	1.9	8.9	2.2		
	600 UCCL	3	1459	1459.6	1	12.0	6.0		
	2700 PENN	40	1603		18.8				
	960 PENN	45	1603.6	1604.7	5.6	25.8	2.7		
	2800 OTTA	8	1604.5	1604.6	.5	6.0	3.0		
	408 SANM	41	1604.7	1607.2	17.7	326.0	17.0		
	960 PENN	1	1612	1612.8	1.5	4.9	2.0		
	960 PENN	45	1615.2	1616.3	6.8	29.7	4.3		
	2800 OTTA	1	1616	1618	3	2.6	1.3		
	15400 SGMR	45	1839.4	1842.6	5.1	21.7	4.1		
	10700 PENN		1840.5	1843.6	6.9	64.8	11.3		
	9400 HUAN	45	1840	1840.8	5.8	71.7	44.1		
	9400 HUAN		1840	1843.5		116.9			
	8800 SGMR	45	1840.4	1843.6	5.6	115.0	31.8		
	4995 SGMR	45	1840.3	1843.4	5.7	170.0	57.0		
	2800 OTTA	46	1840.2	1843.5	5.8	88.0	39.0		
	2800 OTTA	46	1840.2	1841	1.8	49.0			
	2800 OTTA	46	1842	1843.5	4	88.0			
	2700 PENN	45	1840.3	1843.7		142.0			
	2695 SGMR	45	1840.3	1843.5	5.4	100.0	27.5		
1415 SGMR	45	1840.8	1843.6	4.7	38.8	8.3			
960 PENN	41	1840.2	1843.6	5.6	66.4				
606 SGMR	22	1840.8	1841.2	13.2	14.1	3.0			
245 SGMR	48	1840.4	1840.9	23.4	3160.0	610.0			
9400 HUAN	29	1845.8	1845.8	11.5	11.3	5.0			
2695 SGMR	29	1845.7	1845.7	28.8	17.5	8.6			
8800 SGMR	29	1846	1846	19.9	9.0	4.5			
4995 SGMR	29	1846	1846	27.6	16.8	8.4			
2800 OTTA	29	1846		45	16.2	4.4			
408 SANM	45	1847.1	1842.5	.9	340.0	110.0			
960 PENN	41	1850.5	1851	3.6	36.8				
2800 OTTA	1	1918	1918.5	3	4.0	1.4			
9400 HUAN	45	2045.8	2047.1	11.3	18.9	10.4			
9400 HUAN		2045.8	2048.3		28.3				
2695 PENT	45	2046	2048.2	6	12.0	4.4			
2695 BOUL	45	2047.5	2049	3.5					
4995 BOUL	45	2048.5	2049	2.5					
4995 BOUL		2048.5	2049.5						
2695 PENT	1	2105.5	2106	1.2	3.4	1.6			
408 SANM	45	2105	2108.4	5	157.0	15.5			

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			UT	UT	MINUTES	PEAK	MEAN		
	9400 HUAN	45	2108	2108.5	2	18.9	11.3	1	
	9400 HUAN		2108	2109.1		17.0			
	2800 OTTA	1	2108	2108.7	2	4.8	2.4		
	2695 BOUL	41	2126	2126.5	5				
	2695 BOUL		2126	2128.5					
	200 HIRA	45	2213	2213.5	1	2000.0	550.0		
	200 HIRA	45	2325	2325	.5	640.0	220.0		
	9400 TYKW	5	2347.5	2348.2	4	525.0	130.0		
	8800 MANI	3	2347.4	2348.1	17	325.0	128.0		
	4995 CRON	3	2347	2348	5				
	4995 MANI	3	2347.4	2348.1	17	245.0	97.0		
	3750 TYKW	5	2347	2348.2	4	185.0	50.0		
	2695 CRON	45	2347	2348.5	9.5				
	2695 MANI	3	2347.4	2348.1	17	167.0	46.2		
	2000 TYKW	5	2347	2348.7	5	145.0	40.0		
	1415 MANI	46	2347.4	2354	14	163.0	50.0		
	1000 TYKW	45	2347.5	2348.9	5	120.0	35.0		
	606 MANI	46	2347.4	2349	11.3	360.0	99.0		
	500 HIRA	45	2347.5	2348	4.5	180.0	30.0		
	208 VORO	41	2347.5	2348	10.5	420.0	160.0		
	200 HIRA	45	2347.5	2347.8	2.5	1400.0	370.0		
	1420 CRON	41	2348	2355	9				
	3750 TYKW	45	2352	2354.2	4	17.0	4.0		
	200 HIRA	45	2352.5	2353	2	200.0	20.0		
	9400 TYKW	45	2353.7	2354.2	1	65.0	20.0		
	2000 TYKW	5	2353.9	2354.2	2	22.0	7.0		
	1000 TYKW	45	2353.9	2354.1	2	45.0	9.0		
	9400 TYKW	5	2356	2358.7	4	55.0	18.0		
	3750 TYKW	45	2356	2358.2	4	7.0	3.0		
	1000 TYKW	45	2356	2358.3	4	24.0	5.0		
	2000 TYKW	45	2358	2358.3	2	10.0	2.0		
13	2000 TYKW	5	0043	0043.8	2	3.0	1.0	1	
	9400 TYKW	5	0110	0141	100	8.0	3.0		
	3750 TYKW	5	0110	0141	100	7.0	3.0		
	1000 TYKW	45	0133.8	0137.6	6	70.0	8.0		
	9400 TYKW	5	0135	0137.4	6	18.0	6.0		
	3750 TYKW	45	0135	0136.8	5	30.0	11.0		
	2695 CRON	3	0135	0137	3.5				
	2000 TYKW	5	0135	0136.8	4	25.0	8.0		
	8800 MANI	4	0136	0143.4	14	25.7	6.4		
	4995 MANI	4	0136	0143.4	14	41.1	14.5		
	2695 MANI	4	0136	0136.8	14	26.4	6.6		
	1420 CRON	3	0136	0137.5	3.5				
	1415 MANI	4	0136	0136.8	14	11.3	6.3		
	606 MANI	40	0136	0137.5	14	70.0	18.9		
	500 HIRA	45	0136.5	0138	9.5	50.0	5.0		
	208 VORO	41	0136	0141.5	9	292.0	76.0		
	200 HIRA	41	0137	0141	8	570.0			
	3750 TYKW	5	0141.3	0141.9	1	4.0	1.0		
	2000 TYKW	5	0141.3	0141.9	1	6.0	2.0		
	1000 TYKW	5	0141.3	0141.9	1	6.0	2.0		
	9400 TYKW	45	0143	0143.4	4	36.0	9.0		
	3750 TYKW	5	0143	0143.5	3	19.0	5.0		
	2000 TYKW	5	0143	0143.4	3	6.0	3.0		
	1000 TYKW	5	0143	0143.7	3	11.0	5.0		
	9400 TYKW	5	0147	0147.4	2	8.0	4.0		
	3750 TYKW	5	0147	0147.4	2	9.0	3.0		
	2000 TYKW	5	0147	0147.4	2	3.0	1.0		
	1000 TYKW	5	0147	0147.5	2	9.0	3.0		
	1000 TYKW	5	0457.5	0458.4	2	9.0	3.0		
	2000 TYKW	5	0458	0458.6	2	3.0	1.0		
	200 HIRA	45	0509.5	0510	1.5	170.0	40.0		
	606 MANI	40	0511.6	0514.9	9.2	38.5	8.3		
	4995 MANI	20	0518.2	0522.1	5.5	21.8	9.7		
	2695 MANI	3	0658.9	0659.2	3.1	11.9	5.3		
	1415 MANI	3	0658.8	0659.2	5.5	11.1	3.7		
	200 HIRA	45	0658	0659.8	4	810.0	90.0		
	200 GORK	6	0658.7	0700.2	3.9	50.00			
	100 GORK	41	0658.3	0659.2	7.5	20.00			
	100 GORK		0658.3	0659.7		700.00			
	100 GORK		0658.3	0701.8		20.00			
	2695 CRON	3		0659	1.5				
	606 MANI	4		0659	4.6	96.0	26.4		
	204 KIEV	41	0700 E	0701.8		34.0			
	204 KIEV	6	0711.5	0711.9	1	81.0			
	221 ABST	5	0712	0712.3	1	96.0	12.0		
	200 GORK	41	0713.2	0713.6	7.6	20.00			
	200 GORK		0713.2	0720.4		40.0			
	100 GORK	6	0713.2	0713.5	.9	200.0			
	100 GORK	41	0729.1	0729.2	12.2	30.0			
	100 GORK		0729.1	0737		30.00			
	100 GORK		0729.1	0738.7		30.00			
	2950 GORK	1	0732.7	0732.9	1.1	3.2	1.5		
	950 GORK	21	0732.2	0739.2	8.5	3.2	1.6		
	950 GORK	1	0732.5	0732.8	.5	8.3	4.0		
	650 GORK	21	0732.2	0738.8	9.8	3.3	1.6		
	650 GORK	3	0732.5	0732.9	.6	11.0	5.5		
	221 ABST	5	0737.1	0737.1	1.5	24.0	6.0		
	2950 GORK	3	0738.7	0739.4	3.1	6.8	3.0		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
13	950 GORK	1	0739.5	0739.5	.2	9.7	5.0		
	650 GORK	1	0739.2	0739.5	.8	5.0	2.5		
	100 GORK	41	0751.8	0751.9	3.2	30.0D			
	100 GORK		0751.8	0754.7		30.0D			
	2950 GORK		0905.6E		5.8E				
	100 GORK	41	0940	0952.7	20.4	50.0D			
	100 GORK		0940	0958.4		50.0D			
	237 TRST	42	0942.5	0952.5	24	490.0			
	200 GORK	41	0942.2	0943	21.6	50.0			
	200 GORK		0942.2	0952.8		90.0			
	221 ABST	5	0947.1	0949.3	4.5	34.0	7.0		
	204 KIEV	41	0947.5	0952.6	5.7	65.0			
	950 GORK	20	0948.7	0952.8	5	9.6	4.0		
	650 GORK	21	0948	0951	5.3	1.5	.7		
	650 GORK	1	0949.6	0950.2	1.2	2.4	1.2		
	600 UCCL	4	0949	0957.5	17.5	56.0	9.0		
	2950 GORK	1	0950	0950.2	.8	3.0	1.5		
	260 ONDR	45	0951.5	0952	1.5	110.0			
	221 ABST	1	0951.4	0952.3	2	93.0			
	650 GORK	41	0952.5	0952.8	.7	6.0	3.0		
	234 POTS	45	0952.4	0952.5	.7	100.0	15.0		
	113 POTS	45	0952.4	0952.7	.7	130.0	15.0		
	536 ONDR	45	0955.5		14				
	950 GORK	22	0956.3	0958.3	7.9	7.2	3.5		
	420 KIEL	6	0956	1002	8	1000.0	150.0		
	1490 BERL	22	0957	0958.3	7	5.1	1.8		
	1490 BERL	22	0957	1001.8	7	3.0	1.8		
	650 GORK	46	0957	0957.3	7	21.0			
	650 GORK		0957	0958.3		13.0			
	650 GORK		0957	1001.3		12.0			
	2950 GORK	1	0958.2	0958.4	.8	3.8	1.9		
	2950 GORK	45	1000	1001.9	6.1	18.0	9.0		
	2950 GORK		1000	1003		15.0			
	408 SANM	45	1000 E	1001	4.1	305.0	55.0		
	9500 BERL	22	1001	1003	5	22.0	6.7		
	9100 GORK	1	1001.3	1003	4.7	17.0	8.3		
	1490 BERL	1	1108 E	1108		2.3			
	600 UCCL	8	1108.7		.3	69.0	35.0		
	200 GORK	6	1131.8	1132.6	1.1	20.0	10.0		
	113 POTS	45	1131.8	1131.9	1.6	750.0	100.0		
	100 GORK	6	1131.4	1132.3	2	40.0D			
	23 POTS	45	1131.6	1132.5	1.7	7000.0	350.0		
	2950 GORK	1	1132.3	1132.4	.5	6.6	3.0		
	1490 BERL	1	1132.5E	1132.5		4.1			
	950 GORK	1	1132	1132.5	.9				
	237 TRST	41	1225.3	1226.1	1.1	190.0			
	2800 SLOU	45	1252	1252.4	4.5	109.0			
	2695 SGMR	4	1252.7	1254.1	7.3	86.0	16.8		
	15400 SGMR	3	1253.8	1254.4	4.4	10.0	2.0		
	9500 BERL	4	1253.5	1254	17.5U	40.0			
	8800 SGMR	4	1253.6	1254.4	4.8	33.0	5.5		
	4995 CANR	45	1253	1254.5	9			2	
	4995 SGMR	46	1253.2	1254.1	7.2	145.0	26.6		
	2695 CANR	40	1254	1255	4.5			1	
	1490 BERL	1	1255.5E	1255.5		2.3			
	10500 BERN		1353.7U	1354.3U	16	16.0	45.0		
	2800 OTTA	20	1405	1413	15	4.0	2.0		
	245 SGMR	6	1715.6	1716.7	8.1	67.2	12.0		
	2700 PENN	3	1716.4	1720.2	12.8	14.7	4.1		
	960 PENN	45	1716.5	1719	4.1	7.9	2.1		
	606 SGMR	1	1716.5	1720.1	7.5	7.1	1.7		
	408 SANM	45	1716	1719.3	4	84.0	8.0		
	2800 OTTA	1	1717	1720	8	9.6	2.4		
	8800 SGMR	20	1718.8	1721	7.6	8.0	1.6		
	4995 SGMR	1	1718.2	1719.2	3.2	5.6	1.1		
	2695 SGMR	3	1718.4	1719.6	5.5	10.5	2.1		
	1415 SGMR	1	1718.4	1719.6	3.5	7.2	2.5		
	2695 BOUL	3	1720.5	1720.5	2			1	
	9400 HUAN	20	1804.9	1811.3	23.9	5.7	3.4		
	15400 SGMR	22	1831.6	1834.6	8.8	35.8	9.0		
	10700 PENN	3	1831.6	1832.4	12.6	94.0	29.7		
	9400 HUAN	45	1831.3	1832.2	6.3	70.5	33.1		
	9400 HUAN		1831.3	1834.3		55.3			
	8800 SGMR	45	1831.6	1832.3	13.2	49.3	10.0		
	4995 SGMR	45	1831.6	1834.2	10.4	115.0	20.0		
	2800 OTTA	46	1831.5	1832	7	60.0	21.0		
	2800 OTTA	46	1831.5	1832	2	60.0			
	2800 OTTA	46	1833.5	1834	5	48.0			
	2700 PENN	45	1831.6	1832.4	6.1	83.1	28.4		
	2695 SGMR	45	1831.5	1832.2	7.7	61.0	12.0		
	1415 SGMR	45	1831.3	1832.7	14	115.0	17.7		
	960 PENN	45	1831.6	1832.9	12	125.0	15.2		
	606 SGMR	46	1831.4	1834.3	16.2	220.0	29.6		
	408 SANM	45	1831	1837	7.6	326.0	104.0		
	245 SGMR	48	1831.2	1831.7	8	6550.0	1310.0		
	2695 BOUL	45	1832.5	1833.5	6			2	
	4995 BOUL	45	1833.5	1836.5	6.5			1	
	1420 BOUL	45	1833.5	1835	10			2	
	9400 HUAN	29	1837.6	1837.6	14	9.5	6.2		
	2700 PENN	29	1837.7	1837.7	27.5	9.0	4.5		

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			UT	UT	MINUTES	PEAK	MEAN		
14	960 PENN	45	1854.8	1854.8	.3	5.1	2.7		
	3750 TYKW	5	2323.5	2323.7	1	4.0	1.0		
	2000 TYKW	5	2323	2324	2	2.0	1.0		
	1000 TYKW	5	2323.5	2323.9	1	7.0	2.0		
	208 VORO	5	2323.2	2323.5	1	176.0	74.0		
	200 HIRA	45	2323.2	2323.5	1	180.0	60.0		
	3750 TYKW	5	0114	0114.7	2	6.0	2.0		
	2000 TYKW	5	0114	0114.8	2	6.0	2.0		
	200 HIRA	45	0114.5	0114.5	.7	210.0	20.0		
	3750 TYKW	5	0130	0130.8	1.5	2.0	1.0		
	2000 TYKW	5	0130	0130.6	1.5	2.0	1.0		
	2000 TYKW	5	0224	0224.7	1.5	3.0	1.0		
	1415 MANI	3	0224	0224.7	1.6	7.6	2.6		
	1000 TYKW	5	0224	0224.7	1.5	20.0	7.0		
	606 MANI	4	0224	0224.6	3.3	51.0	14.8		
	500 HIRA	45	0224	0224.4	1	40.0	15.0		
	208 VORO	5	0224	0224	1.5	354.0	148.0		
	200 HIRA	45	0224	0224	1	1100.0	270.0		
	3750 TYKW	5	0456	0456.4	2	2.0	1.0		
	2000 TYKW	5	0456	0456.4	2	2.0	1.0		
	3750 TYKW	5	0546	0547.9	4	7.0	2.0		
	2695 MANI	4	0546.6	0547.9	8.5	9.2	4.0		
	2000 TYKW	5	0546	0548	4	6.0	2.0		
	1415 MANI	22	0546.6	0548.1	8.5	6.4	2.5		
	606 MANI	3	0547.8	0547.9	7	29.6	7.4		
	100 GORK	6	0633	0635.9	4.1	350.0			
	200 GORK	6	0634.1	0634.6	.5	5.0			
	200 GORK	41	0718.3	0724.1	11.5	20.0			
	100 GORK	48	0720.7	0724.4	12.4	350.0			
	100 GORK	41	0741.8	0741.9	2.5	170.0			
	100 GORK	6	0828.6	0828.8	.4	15.0	8.0		
	100 GORK	6	0852.7	0852.8	.4	15.0D			
	600 UCCL	1	0938	0938.3	.8	6.0	3.0		
	100 GORK	41	1005.6	1006	1.5	10.0			
	200 GORK	41	1023.3	1023.8	22.5	50.0			
	200 GORK		1023.3	1031.3		80.0			
	200 GORK		1023.3	1039.1		70.0			
	100 GORK	48	1029.5	1038.8	14.4	500.0			
	221 ABST	5	1035.4	1039	6.5	31.0	6.0		
	606 SGMR	4	1341.6	1342	.5	11.8	3.0		
	600 UCCL	1	1342.8	1343	.7	9.0	5.0		
	18 MCMA	41	1602	1603	.3			1	
	4995 SGMR	22	1657.7	1701.7	17.3	17.5	7.0		
	8800 SGMR	20	1658	1701.7	14.5	5.4	2.0		
	2695 SGMR	20	1659.5	1701.7	10	6.0	2.0		
	2800 OTTA	1	1700	1701.5	2	7.2	3.6		
	1415 SGMR	1		1701.7	1.3D	4.7	1.5		
	2800 OTTA	29	1702		75	3.2	1.6		
	18 MCMA	41		1821	4			1	
	2800 OTTA	20	1900	1927	140	6.4	3.2		
	2695 BOUL	40	2111.5	2118	9			2	
	2695 BOUL	40	2212.5	2219.5	8			2	
	2695 BOUL	40	2242.5	2252.5	12.5			2	
15	600 UCCL	3	0807		.2	25.0	12.0		
	930 BORD	41	0845	0846.3	2	17.0	2.0		
	100 GORK	41	0916.8	0917.5	2.8	10.0D			
	100 GORK		0916.8	0918.2		400.0			
	200 GORK	6	0917.1	0918.3	2.8	20.0	10.0		
	100 GORK	41	0957.2	0958.8	5	20.0			
	600 UCCL	1	1122.5	1122.7	.8	6.0	3.0		
	3100 CRIM	3	1214	1215	2	20.0	7.0		
	930 BORD	5	1314	1314.8	1	9.0	1.0		
	9400 HUAN	20	1340.5	1347.3	27.2	5.8	3.3		
	600 UCCL	1	1401	1401.5	1	6.0	3.0		
	2800 OTTA	20	1525	1545	27	3.4	1.7		
	18 MCMA	6	1653	1658	9			3	
	2800 OTTA	1	2027	2029	6	2.0	1.2		
16	3750 TYKW	5	0103	0105	15	3.0	1.0		
	9400 TYKW	5	0528	0528.2	1	8.0	2.0		
	200 GORK	6	0926.2	0927	1.4	50.0	10.0		
	100 GORK	41	0926.1	0926.2	1.3	15.0D			
	100 GORK		0926.1	0926.6		15.0			
	260 ONDR	45	1108.5	1110	5	50.0			
	3100 CRIM	3	1205	1208	34	25.0	8.0		
	18 MCMA	42	1341	1349	24			3	
	18 MCMA	6	1358	1405	7			3	
	930 BORD	5	1412	1412.7	1	36.0	2.0		
	2800 OTTA	21	1415	1435	160	2.8	1.4		
	18 BOUL	41	1429	1438	12			2	
	18 BOUL	6	1435	1438	6			2	
	2800 OTTA	2	1439.5	1442	4.5	2.4	1.2		
	2695 BOUL	40	1727	1732	5.5			1	
	2695 BOUL	40	1927	1927.5	2.5			1	
	2800 OTTA	22	1955	2020	65	8.2	4.1		
	2700 PENN	24	1955.2	2022.2		10.8			
17	2695 BOUL	40	2013	2021.5	9.5			2	
	408 SANM	45	2130.5	2131	1.7	142.0			

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
17	2695 PENT	1	2131	2131.5	2	2.6	1.3	1	
	2695 BOUL	3	2243.5	2244	1			1	
	2695 BOUL	4	2249.5	2250	1				
	2000 TYKW	41	0353	0401.9	14	50.0	4.0		
	1415 MANI	40	0400.5	0401.5	3.1	19.3	6.9		
	9400 TYKW	5	0401	0402	3	4.0	2.0		
	3750 TYKW	5	0401	0402	3	2.0	1.0		
	2695 MANI	40	0401.3	0402.1	2.3	5.7	2.9		
	1000 TYKW	45	0401	0401.6	2	7.0	2.0		
	1000 TYKW	41	0442.5	0442.7	2.5	7.0	1.0		
	2000 TYKW	41	0449	0449.8	6	3.0	1.0		
	200 HIRA	45	0517	0518	2	30.0	10.0		
	3750 TYKW	45	0539	0540	4	16.0	3.0		
	1415 MANI	4	0547.3	0553.6	14.2	152.0	34.5		
	3750 TYKW	45	0548	0553	10	43.0	9.0		
	2695 MANI	47	0548.2	0554.9	13.3	6600.0	870.0		
	2000 TYKW	47	0548	0555	11	3800.0	380.0		
	9400 TYKW	45	0549	0554	9	11.0	4.0		
	606 MANI	4	0550.5	0554.1	11	9.8	1.5		
	1420 CRON	40	0551	0555.5	10.5			2	
	1000 TYKW	45	0552	0554	6	16.0	4.0		
	2695 CRON	40	0610.5	0616.5	9.5			3	
	9750 TRKU	1	0621.1	0622.8	3	24.0	8.0		
	1000 TYKW	45	0621.5	0621.7	2	31.0	7.0		
	500 HIRA	45	0621	0621.3	1	500.0	100.0		
	9400 TYKW	45	0622	0622.8	3	13.0	3.0		
	3750 TYKW	5	0622	0622.2	3	8.0	2.0		
	2695 CRON	4	0622	0622.5	2			1	
	1420 CRON	3	0622.5	0623	1.5			1	
	200 HIRA	45	0622	0622.5	1	170.0	20.0		
	100 GORK	41	0721.1	0722.1U	2	10.0D			
	100 GORK	6	0741	0741.5	1	25.0			
	200 GORK	6	0750.2	0750.7	.7	10.0			
	100 GORK	41	0750.4	0751.1	1.1	25.0			
	3100 CRIM	20	0928	0938	18	13.0	4.0		
	930 BORD	45	0948	0950.5	5	9.0	3.0		
	237 TRST	42	0949.4	0950.6	3.3	990.0			
	234 POTS	45	0949.4	0950.4	3.8	500.0	30.0		
	221 ABST	5	0949.4	0950.3	1	61.0	7.0		
	204 KIEV	41	0949.8	0950.4	3.1	115.0			
	113 POTS	45	0949.4	0950.3	3.8	800.0	70.0		
	100 GORK	41	0949.1	0950.2U	6.1	40.0D			
	100 GORK		0949.1	0952.5U		40.0D			
	3100 CRIM	1	0950	0951	3	11.0	3.0		
	2950 GORK	1	0950.2	0950.5	1.3	4.3	2.0		
	1490 BERL	3	0950	0950.7	2	13.0	5.5		
	950 GORK	1	0950.2	0950.5	.8	7.0	3.5		
	650 GORK	3	0950	0950.1	.4	29.2	15.0		
	600 UCCL	4	0950	0951.5	3.2	70.0	18.0		
	536 ONDR	5	0950	0950.5	4	190.0			
	260 ONDR	45	0950	0950.5	1.5	90.0			
	206 IZMI	41	0950	0950.5	3	150.0			
	200 GORK	41	0950	0950.6	3	60.0			
	200 GORK		0950	0952.6		60.0			
	221 ABST	1	0952	0952	.5	39.0			
	100 GORK	6	1007.1	1007.3	.2	40.0			
	100 GORK	41	1029.7	1030	5	25.0			
	100 GORK		1029.7	1033.2		45.0			
	237 TRST	41	1031.4	1032.7	2.8	180.0			
	206 IZMI	41	1031.6	1032.7	2.7	60.0			
	204 KIEV	41	1031.3	1032.5	3.1	56.0			
	200 GORK	41	1031.5	1032.8	5.7	60.0			
	200 GORK		1031.5	1037		15.0			
	260 ONDR	45	1032.5	1033.5	2.5	95.0			
	221 ABST	5	1032.4	1033	2	30.0	5.0		
	100 GORK	41	1039.2	1040	1.2	45.0			
	600 UCCL	3	1051.5	1051.7	.6	40.0	20.0		
	600 UCCL	40	1058		40	10.0U	3.0U		
	200 GORK	41	1114.7	1115.6	2.8	20.0			
	100 GORK	6	1116.6	1116.7	.2	45.0	20.0		
	200 GORK	41	1127.3	1127.4	2.1	20.0			
	100 GORK	41	1127.3	1129.2	2.3	45.0			
	600 UCCL	1	1237	1237.2	.8	7.0	4.0		
	113 POTS	45	1246.4	1247.6	2.2	100.0	25.0		
	600 UCCL	1	1302.8	1303.2	.8	9.0	5.0		
	930 BORD	45	1324	1325	2	9.0	2.0		
	2695 BOUL	40	1504	1516	15			1	
	2695 BOUL	41	1526.5	1527.5	2			1	
	2695 BOUL	45	1531	1531.5	3			2	
	2800 OTTA	22	1545	1630	60	4.6	2.3		
	9400 HUAN	20	1612.3	1623.7	32.3	7.7	4.3		
	2695 BOUL	40	1757	1757.5	6.5			1	
	2695 BOUL		1757	1758					
	2695 BOUL	41	1828	1828.5	5.5			2	
	2700 PENN	24	1829.4	1922.7		9.9			
	2800 OTTA	21	1830	1840	90	3.0	1.5		
	408 SANM	3	1921	1923.6	4	45.0	8.0		
	10700 PENN	3	1922.9	1923.9	3.8	17.1	8.6		
	960 PENN	45	1922.2	1923.6	2.6	33.5	5.1		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS	
			UT	UT	MINUTES	PEAK	MEAN			
18	2800 OTTA	2	1923.2	1923.5	1.2	5.6	2.8	1		
	2700 PENN	3	1923.1	1923.7	3.3	12.5	4.1			
	1420 BOUL	3	1923	1924.5	3.5					
	1415 SGMR	4	1923.3	1923.6	3	24.2	4.9			
	606 SGMR	4	1923.2	1924	4.9	45.9	9.2			
	245 SGMR	6	1923.3	1924	1.2	139.0	28.0	1		
	2695 BOUL	40	2014	2014	3.5					
	1420 BOUL	4	2049.5	2050.5	2.5					
	2695 PENT	2	2105.2	2105.5	1	6.6	3.0	1		
	9400 HUAN	3	2106	2106.6	1.3	28.6	14.4			
	1420 BOUL	8	2127	2127.5	2			2		
	1420 BOUL	4	2203	2203.5	4.5					
	2000 TYKW	5	2344.5	2344.7	.7	24.0	5.0	2		
	1000 TYKW	5	2344.5	2344.7	.5	8.0	2.0			
	2695 MANI	4	2352.8	2353.1	6.2	14.4	4.8			
	1415 MANI	40	2352.8	2354.8	6.6	205.0	16.0			
	2000 TYKW	41	2353	2355	6	55.0	7.0			
	606 MANI	40	2353	2357.7	6	47.7	7.7			
		3750 TYKW	5	0010	0010.2	1	3.0	1.0		
		2000 TYKW	5	0010	0010.2	1	48.0	8.0		
		1000 TYKW	5	0010	0010.2	1	28.0	6.0		
		2000 TYKW	41	0025	0028	4	13.0	2.0		
		1000 TYKW	41	0025	0028.3	4	16.0	3.0		
		3750 TYKW	5	0028	0028.3	1	1.0	.5		
		9400 TYKW	5	0035	0035.4	3	73.0	10.0		
		8800 MANI	3	0035.1	0035.6	2.2	69.0	19.8		
		4995 MANI	4	0035.1	0035.6	2.2	43.1	14.4		
		3750 TYKW	5	0035	0035.5	3	17.0	3.0		
		2695 MANI	4	0035.1	0035.6	2.2	21.6	4.8		
		2000 TYKW	5	0035	0035.4	1	21.0	7.0		
		1415 MANI	4	0035.1	0035.6	2.2	75.0	24.0		
		1000 TYKW	5	0035	0035.4	1	175.0	40.0		
		606 MANI	4	0035.1	0035.6	2.2	315.0	61.0		
		500 HIRA	45	0035	0035.5	1	110.0	70.0		
		208 VORO	5	0035	0035	1	274.0	40.0		
		3750 TYKW	5	0052	0053	2	1.0	.5		
		2000 TYKW	41	0052	0052.6	6	6.0	1.0		
		1000 TYKW	5	0056	0056.5	2	5.0	2.0		
		9400 TYKW	5	0108	0109	2	2.0	1.0		
		2000 TYKW	5	0108	0109.2	2	78.0	8.0		
		1415 MANI	4	0108.5	0108.6	1.5	77.0	24.0		
		1000 TYKW	45	0108	0108.8	2	10.0	3.0		
		606 MANI	1	0108	0108.5	2	6.9	2.3		
		3750 TYKW	5	0115	0115.3	2	2.0	1.0		
		2000 TYKW	45	0115	0115.5	1	31.0	4.0		
		1415 MANI	4	0115.1	0115.2	.9	12.8	3.2		
		1000 TYKW	45	0115	0115.3	1	18.0	5.0		
		606 MANI	4	0115.1	0115.2	.9	18.5	6.2		
		2000 TYKW	45	0122	0122.2	2	32.0	4.0		
		2000 TYKW	45	0128	0131.9	5	29.0	10.0		
		1415 MANI	4	0128.8	0130	3.2	20.8	6.4		
		606 MANI	1	0129.7	0131.2	2.3	3.8	1.5		
		1000 TYKW	45	0131	0131.8	1	12.0	3.0		
		2000 TYKW	41	0215	0223.8	19	32.0	4.0		
		1000 TYKW	41	0223.5	0227.2	6	46.0	5.0		
		2695 MANI	4	0226.8	0226.9	2.4	19.2	7.2		
		1415 MANI	4	0226.8	0227	3.4	85.0	24.0		
		606 MANI	1	0226.8	0227.1	2.9	6.2	2.3		
		9400 TYKW	45	0227	0228.5	3	21.0	3.0		
		3750 TYKW	45	0227	0228.7	2.5	3.0	1.0		
		9750 IRKU	1	0228.5E	0228.5	1 U	18.0D			
		8800 MANI	1	0228.4	0228.5	2.1	6.6	3.3		
		2000 TYKW	5	0250	0251	1	3.0	1.0		
		9750 IRKU	1	0307.4	0307.7	3	11.0			
		9400 TYKW	5	0307	0307.6	2	6.0	2.0		
		2000 TYKW	5	0307	0307.8	2	5.0	1.0		
		1000 TYKW	5	0316.3	0316.4	.5	5.0	1.0		
		2000 TYKW	5	0333.6	0333.8	.5	6.0	2.0		
		2000 TYKW	5	0349	0349.3	1	2.0	1.0		
		2000 TYKW	5	0353	0353.2	.5	2.0	1.0		
		1000 TYKW	5	0353	0353.2	.5	2.0	1.0		
		100 GORK	44	0633 E		327 D		60.0		
		200 GORK	44	0700 E		300		5.0		
		204 KIEV	42	1100 E	1236.3	120	49.0	15.0		
		245 SGMR	44	1214 E		533 D				
		606 MANI	4	0641.7	0642	1.5	47.8	9.4		
		1415 MANI	3	0642.3	0642.4	.7	8.3	3.3		
		950 GORK	1	0642.7	0642.8	.3	3.4	1.7		
		650 GORK	40	0642	0642.8	2.1	7.6			
		650 GORK	40	0650	0650.2	.7	5.0			
		950 GORK	1	0652	0652.2	.7	6.0	4.1		
		100 GORK	48	0718.3	0720.8	4.8	400.0			
		200 GORK	6	0721.3	0722.1	1	15.0	7.0		
		221 ABST	1	0908.4	0908.4	.5	44.0			
		600 UCCL	1	0917		.2	10.0	5.0		
		600 UCCL	1	0921.5		.2	8.0	4.0		
		200 GORK	41	0921.6	0921.8	5.1	60.0			
		200 GORK		0921.6	0926.6		50.0			
		100 GORK	41	0925.8	0925.9	17.2	600.0			

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	100 GORK		0925.8	0948.1		500.0			
	600 UCCL	3	0930.5		.6	18.0	9.0		
	600 UCCL	2	0937.2	0937.4	1	8.0	5.0		
	600 UCCL	1	0956.7		.5	5.0	3.0		
	600 UCCL	40	1030	1034.5	30	23.0	5.0		
	3100 CRIM	28	1102	1110	8	5.0	2.0		
	3100 CRIM	3	1110	1118	7	62.0	20.0		
	1490 BERL	20	1113.5E	1113.5		3.2			
	9500 BERL	20	1114 E	1114		5.0			
	3100 CRIM	29	1137	1137	20	24.0	7.0		
	1490 BERL	46	1247	1248.3	2	24.0	13.0		
	1420 KIEL	5	1247	1247	3	160.0	30.0		
	930 BORD	45	1247	1248	2	14.0	3.0		
	600 UCCL	1	1248	1248.5	1	10.0	5.0		
	1490 BERL	4	1324.7	1325.7	2.3	48.0	22.0		
	1420 KIEL	5	1324	1325	2	300.0	60.0		
	930 BORD	41	1324	1325	3	37.0	2.0		
	930 BORD	5	1408	1408.8	1	19.0	1.0		
	600 UCCL	2	1445	1445.5	2	10.0	6.0		
	2800 OTTA	21	1500	1640	195	4.8	2.8		
	2700 PENN	24	1506	1552.3		13.4			
	9400 HUAN	20	1512.5	1557.8	111.7	7.4	4.6		
	2800 OTTA	8	1531.7	1531.7		8.8			
	2700 PENN	1	1531.5	1531.6	.4	9.2	3.3		
	930 BORD	41	1632	1633	2	10.0	2.0		
	960 PENN	41	1734.1	1738.8	19	2.6			
	606 SGMR	4	1737.3	1737.6	1.9	8.5	1.5		
	245 SGMR	6	1737.5	1737.7	.5	33.8	8.0		
	15400 SGMR	3	1738.7	1739	3	20.8	5.0		
	10700 PENN	3	1738.8	1738.9	2.4	55.8	13.0		
	9400 HUAN	3	1738.4	1738.7	1.8	33.5	13.0		
	8800 SGMR	3	1738.7	1738.8	3.3	21.1	5.0		
	4995 SGMR	3	1738.6	1738.8	3.1	8.8	1.5		
	2800 OTTA	8	1738.8	1738.8		7.2			
	2700 PENN	1	1738.7	1738.9	.7	8.6	3.2		
	2695 SGMR	1	1738.6	1738.7	1.3	7.1	1.0		
	1415 SGMR	1	1738.7	1738.7	1.1	1.2	.5		
	2800 OTTA	8	1800.2	1800.2		5.8			
	2700 PENN	1	1800.4	1800.5	.3	6.2	3.1		
	2800 OTTA	20	1820		135	2.6	2.0		
	2695 PENT	4	2144	2145.8	3	14.0	5.0		
	2695 BOUL	45	2145.5	2147	2.5			1	
	1420 BOUL	45	2222.5	2223	3.5			1	
19	3750 TYKW	5	0200	0232.8	110	9.0	3.0		
	500 HIRA	45	0512.8	0513	.5	110.0	60.0		
	200 GORK	44	0627 E		318		5.0		
	100 GORK	44	0627 E		318 D		20.0		
	204 KIEV	44	0700 E		360	80.0	32.0		
	245 SGMR	44	1214 E		533 D				
	200 GORK	24	0631	0655.7	35.4	40.0D	20.0		
	9750 IRKU	1	0655	0655.6	1	14.0			
	9100 GORK	1	0655.4	0655.8	.9	17.0	8.6		
	8800 MANI	3	0655	0655.5	1	22.8	9.8		
	4995 MANI	3	0655.1	0655.5	.9	33.1	15.1		
	2950 GORK	3	0655.4	0656	1.2	14.0	7.0		
	2695 MANI	4	0655	0655.5	1	21.2	9.9		
	1415 MANI	4	0655.1	0655.4	.9	14.8	5.9		
	950 GORK	3	0655.5	0655.6	.9	14.1	8.2		
	650 GORK	4	0655.5	0655.7	.9	35.8	15.0		
	606 MANI	4	0655.1	0655.4	2.2	55.0	15.1		
	930 BORD	41	0801	0801.3	2	12.0	2.0		
	9100 GORK	20	0805.6	0847.2	62.6	35.0	23.0		
	2950 GORK	20	0805.1	0810	39.4	23.0	9.0		
	930 BORD	41	0811	0815.5	6	64.0	3.0		
	650 GORK	46	0811.2	0813.8	5.8	19.5			
	650 GORK		0811.2	0815.5		9.9			
	600 UCCL	4	0813	0814	3.5	25.0	10.0		
	221 ABST	5	0813	0815.4	3.5	39.0	6.0		
	950 GORK	40	0815	0815.4	.8	16.0	7.6		
	200 GORK	6	0815	0815.5	.8	40.0	20.0		
	100 GORK	41	0816	0816.2	1.5	6000.0			
	930 BORD	45	1000	1003.7	6	23.0	2.0		
	600 UCCL	1	1130.7		.2	6.0	3.0		
	930 BORD	5	1156	1156.5	1	9.0	2.0		
	930 BORD	5	1224	1224.2	1	10.0	1.0		
	600 UCCL	1	1226.2	1226.3	.8	9.0	6.0		
	930 BORD	5	1243	1243.7	1	20.0	1.0		
	930 BORD	45	1305	1305.5	1	41.0	2.0		
	930 BORD	41	1329	1332	4	28.0	2.0		
	2800 OTTA	1	1346	1347	2	5.4	2.5		
	237 TRST	42	1346.4	1346.7	5.9	1020.0			
	234 POTS	45	1346.6	1346.7	.3	800.0	200.0		
	234 POTS	5	1352	1352	.1	200.0	70.0		
	930 BORD	45	1356	1356.8	2	29.0	2.0		
	930 BORD	5	1402	1402.1	1	15.0	1.0		
	930 BORD	41	1408	1408.7	1	19.0	2.0		
	2800 OTTA	20	1425	1505	65	3.0	1.5		
	18 BOUL	42	1450	1509	23			2	
	930 BORD	45	1502	1502.3	1	8.0	2.0		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
19	930 BORD	45	1509	1509.7	1	33.0	3.0		
	1420 CANR	40	1528.5	1531.5	13			1	
	930 BORD	45	1531	1531.4	1	55.0	4.0		
	4995 CANR	45	1537	1540	9			1	
	2695 SGM	46	1537.7	1538.8	18.1	16.3	3.0		
	1415 SGM	45	1537.7	1541.2	15.4	46.8	8.0		
	930 BORD	45	1537	1546.2	14	60.0	6.0		
	4995 SGM	20	1538.2	1539	15.3	7.7	3.0		
	2800 OTTA	21	1538	1545	20	3.0	1.5		
	2800 OTTA	46	1538	1539	5	17.8	4.4		
	2700 PENN	45	1538	1539	6	40.2	11.0		
	606 SGM	46	1538.1	1538.3	14.1	42.8	6.0		
	245 SGM	6	1538.8	1538.9	2	119.0	28.0		
	2695 BOUL	45	1539.5	1540.5	4			1	
	1420 BOUL	40	1539.5	1542.5	15			1	
	2800 OTTA	20	1600	1650	70	3.6	2.2		
	18 MCMA	41	1632	1635	6			1	
	18 BOUL	42	1738	1831	61			3	
	18 MCMA	42	1746	1751	22			2	
	18 BOUL	6	1749	1759	11			3	
	2800 OTTA	20	1800	1825	55	5.8	3.0		
	18 BOUL	6	1800	1812	13			3	
	18 MCMA	41	1818	1820	5			1	
	18 BOUL	6	1823	1831	15			3	
	8800 SGM	1	2012.6	2012.6	.7	3.0	.7		
	4995 SGM	1	2012.4	2012.6	1	6.6	2.0		
	2695 SGM	1	2012.4	2012.5	.8	7.0	2.5		
	1415 SGM	1	2012.6	2012.6	.8	3.7	1.0		
	606 SGM	1	2012.5	2012.6	.9	1.8	.5		
	2800 OTTA	1	2021	2022	5	4.4	2.2		
	2800 OTTA	40	2040	2040.2	1	5.0			
	208 VORO	44	2300	2337	240	260.0			
	208 VORO	27	2300	2330	46	176.0	92.0		
	500 HIRA	45	2322.8	2323.4	1.5	20.0	10.0		
	500 HIRA	45	2327	2329.6	2.5	40.0	10.0		
	2000 TYKW	45	2328	2329.7	4	8.0	3.0		
	1000 TYKW	45	2329	2329.9	2	3.0	1.0		
	606 MANI	4	2333.6	2334.9	1.7	109.0	29.2		
	500 HIRA	45	2333.5	2334.8	2	40.0	20.0		
	9400 TYKW	5	2334.5	2334.9	2.5	60.0	10.0		
	8800 MANI	3	2334.5	2334.8	1	112.0	33.0		
	4995 MANI	3	2334.5	2334.8	1	91.0	34.0		
	3750 TYKW	5	2334	2334.9	3	44.0	7.0		
	2695 MANI	4	2334.1	2334.8	1.2	29.9	13.6		
	2000 TYKW	45	2334	2335	2	50.0	15.0		
	1415 MANI	4	2334.1	2334.5	1.2	66.0	27.6		
	1000 TYKW	5	2334	2335	2	215.0	30.0		
	4995 CRON	8	2335.5	2335	1.5			1	
	2695 CRON	3	2335	2335.5	1.5			1	
20	2695 MANI	3	0002.6	0002.6	.6	8.2	2.7		
	2000 TYKW	5	0002.5	0002.9	1	28.0	6.0		
	1415 MANI	4	0002.5	0002.6	1.5	20.7	6.9		
	1000 TYKW	5	0002.5	0003	1	11.0	4.0		
	606 MANI	4	0002.5	0002.6	.8	19.2	6.7		
	1415 MANI	4	0020.9	0021	.6	45.5	9.7		
	606 MANI	4	0020.9	0021.1	.4	10.0	4.2		
	2000 TYKW	45	0021	0021.2	1	7.0	2.0		
	1000 TYKW	5	0021	0021.1	1	24.0	5.0		
	606 MANI	2	0040.5	0042.9	5.7	5.8	1.7		
	2000 TYKW	45	0042	0042.6	2	27.0	4.0		
	1415 MANI	4	0042.4	0042.9	3.3	49.7	11.0		
	1000 TYKW	5	0042.6	0042.7	.3	5.0	2.0		
	3750 TYKW	5	0119	0120.8	5	6.0	2.0		
	1000 TYKW	5	0251	0251.8	2	7.0	2.0		
	606 MANI	3	0251.3	0251.7	1.2	18.4	6.4		
	2000 TYKW	5	0511	0512.4	3	9.0	3.0		
	1415 MANI	4	0511.8	0512.5	2.1	20.0	4.0		
	1000 TYKW	41	0511.5	0512.3	4	19.0	3.0		
	606 MANI	4	0511.8	0512.5	2.1	12.0	4.0		
	3750 TYKW	5	0512	0512.4	4	3.0	1.0		
	200 GORK	44	0630 E		318 D		60.0		
	100 GORK	44	0630 E		318 D		50.0		
	204 KIEV	44	0700 E		360	142.0	92.0		
	9100 GORK	20	0713.1	0807.3	147.3	39.0	24.0		
	2950 GORK	20	0717	0730	133	13.0	7.0		
	600 UCCL	8	0916.7		.3	180.0	90.0		
	600 UCCL	1	1056.3		.4	6.0	4.0		
	600 UCCL	1	1058.6		.3	10.0	6.0		
	237 TRST	45	1059.5	1059.6	.3	150.0	30.0		
	245 SGM	44	1215 E		532 D				
	2800 OTTA	21	1555	1640	115	4.0	2.0		
	2800 OTTA	1	1626	1626.2	2	3.0	1.5		
	408 SANM	42	1705	1710.2	19	40.5	13.0		
	18 BOUL	42	1724	1736	28				
	500 HIRA	45	2234.5	2235	1	370.0	100.0	1	
21	3750 TYKW	5	0046	0047.4	4	3.0	1.0		
	2000 TYKW	5	0046	0047.2	3	3.0	1.0		
	1000 TYKW	5	0046	0047.2	3	3.0	1.0		

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			UT	UT	MINUTES	PEAK	MEAN		
22	606 MANI	4	0047	0047.6	.8	19.2	5.8	1	
	9750 IRKU	1	0358.2	0358.6	.5	7.0	2.0		
	200 GORK	44	0630 E		318 D		5.0		
	100 GORK	44	0630 E		318 D		70.0		
	204 KIEV	44	0700 E		360		36.0		
	245 SGMR	44	1216 E		532 D				
	204 KIEV	6	0901.6	0901.8	1.3	208.0			
	221 ABST	1	0902.3	0902.4	.5	53.0			
	206 IZMI	6	0902.3	0902.5	.7	140.0	110.0		
	9400 HUAN	3	1132.7	1133.1	1.6	13.4	7.0		
	600 UCCL	1	1240.2		.2	10.0	5.0		
	237 TRST	42	1246.8	1250.5	3.8	270.0			
	113 POTS	41	1248.5	1248.7	2.1	700.0	35.0		
	234 POTS	45	1250.2	1250.3	.2	175.0	35.0		
	18 BOUL	42	1416	1432	22				
	930 BORD	5	1436	1436.5	1	9.0	1.0		
	2700 PENN	20	1625.2	1626.2	34	4.8	2.0		
	2800 OTTA	20	1800	1850	110	3.6	1.8		
	9400 HUAN	1	2110	2110.3	.8	9.6	4.5		
	9400 HUAN	3	2119.4	2119.7	1.7	11.5	5.3		
	9400 HUAN	1	2134.1	2134.3	.6	9.6	4.8		
	2695 BOUL	40	2157	2159	3				
	2695 BOUL	41	2256.5	2258	2.5				
	8800 MANI	3	2323	2323.3	1.9	23.4	6.7		
	4995 MANI	3	2323	2323.3	1.9	18.4	6.1		
	2695 MANI	3	2323	2323.3	1.9	8.4	2.8		
	1415 MANI	3	2323	2323.4	1.5	9.5	2.7		
	606 MANI	1	2323	2323.4	1.6	7.1	3.0		
	1000 TYKW	5	0221.7	0221.9	.8	4.0	1.0		
	9750 IRKU	1	0321.9	0322.2	4	37.0	9.0		
	9400 TYKW	5	0321.7	0322	2	26.0	8.0		
	200 HIRA	45	0409.5	0410	1.5	300.0	60.0		
	200 HIRA	45	0508	0509	2.5	2100.0	370.0		
	2000 TYKW	41	0537	0540.3	7	11.0	2.0		
	2000 TYKW	5	0558.5	0558.8	1.5	29.0	7.0		
	100 GORK	44	0636 E		316 D		10.0		
	204 KIEV	44	0700 E		360	78.0	19.0		
	200 GORK	44	0700 E		90 D		5.0		
	245 SGMR	44	1216 E		532 D				
	2950 GORK	21	0648	0704.5	27	8.1	3.2		
	9100 GORK	20	0649.8	0717.5	58.4	41.0	21.0		
	2950 GORK	3	0649	0650.2	4.2	17.2	5.6		
	200 GORK	41	0816.3	0816.6	1.2	60.0D			
	200 GORK		0816.3	0817.2		60.0D			
	260 ONDR	40	0820	1310	320	115.0			
	200 GORK	6	0908.9	0909.1	.8	65.0			
	2950 GORK	1	1055.5	1056.1	1.7	4.3	1.6		
	10500 BERN		1132.5U	1132.7U	2	3.0	1.0		
	1490 BERL	22	1240	1255.2	33.5	2.7	0.9		
	9500 BERL	22	1243.5	1255.3	33.5U	37.0	12.0		
	9400 HUAN	22	1245.3	1255.1	47.4	36.2	15.6		
	10500 BERN		1246	1255.1	30	19.0	20.0		
	930 BORD	5	1255	1255.2	1	185.0	1.0		
	2695 CANR	4	1346	1350.5	14.5				
	408 SANM	45	1425	1440.4	35	26.0	7.5		
	2800 OTTA	21	1510	1535	85	7.4	3.7		
	930 BORD	41	1512	1513.2	2	18.0	2.0		
	606 SGMR	1	1515.5	1516.2	1.5	7.4	2.1		
	8800 SGMR	3		1518	4.8D	157.8	31.3		
	4995 SGMR	3		1518	5 D	252.0	53.3		
	2695 SGMR	3		1518	5.8D	110.9	21.0		
	10700 PENN	45	1516.9	1518	4.2	547.0	192.0		
	2800 OTTA	3	1516.5	1518	5.5	135.0	52.0		
	2700 PENN	3	1516.3	1518	5.6	167.0	59.4		
	1415 SGMR	3	1516.6	1518.5	7.4	144.0	27.2		
	4995 CANR	3	1517.5	1519	6				
	2695 CANR	3	1517	1518	5.5				
	2695 BOUL	3	1517.5	1519	9.5				
	960 PENN	45	1517.3	1517.5	3.7	10.3	3.2		
	930 BORD	45	1517	1517.5	4	79.0	4.0		
	9400 HUAN	4	1518	1518.1	2.6U	396.0	245.6		
	1420 CANR	4	1518.5	1519	3				
	1420 BOUL	45	1518	1520	6.5				
	4995 BOUL	3	1519	1520	6.5				
	9400 HUAN	29	1520.6	1520.6	57.6	30.5	15.9		
	10700 PENN	29	1521.1	1521.1	35.2	47.0	23.5		
	2700 PENN	29	1521.9	1521.9	33.6	16.7	8.3		
	2800 OTTA	29	1522		8	8.8	3.0		
	2800 OTTA	20	1640	1710	80	5.2	2.6		
	18 BOUL	42	1658	1714	34				
	18 MCMA	41	1701	1705	4				
	10700 PENN	3	1714.4	1715.3	2.6	53.2	17.9		
	9400 HUAN	3	1714.5	1715.1	5.1	20.9	7.6		
	8800 SGMR	3	1714.7	1715.1	4.1	18.1	3.6		
	2700 PENN	24	1852.5	1940.2		17.1			
	2800 OTTA	21	1910	1935	125	8.2	4.6		
	2800 OTTA	40	1918.5	1919.5	1.5	3.8			
	10700 PENN	20	1919	1926	28	26.6	14.8		
	408 SANM	45	1920	1926	15	15.0	4.0		

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			UT	UT	MINUTES	PEAK	MEAN		
23	7000 SAOP	3	1922.5		8.6	16.1	10.3	2 2	
	2700 PENN	45	1923.7	1924.8	4.7	63.5	22.0		
	2695 SGMR	4	1923.3	1924.7	7.5	43.8	8.9		
	960 PENN	45	1923.6	1925.9		65.5			
	8800 SGMR	4	1924.4	1924.9	9.5	8.3	1.8		
	4995 SGMR	4	1924.5	1924.7	4.5	25.0	5.1		
	2800 OTTA	4	1924	1926.5	5	29.0	14.5		
	1415 SGMR	4	1924.4	1925.8	4.9	86.6	16.1		
	606 SGMR	4	1924	1926.2	8.7	114.3	23.8		
	2695 BOUL	40	1925	1926	6				
	1420 BOUL	40	1925.5	1927	4.5				
	9400 HUAN	3	2044.9	2046	4.8	100.9	27.6		
	10700 PENN	3	2045.7	2046.2	1.9	193.0	65.3		
	8800 SGMR	3	2045.6	2046	4.3	60.2	11.3		
	4995 SGMR	4	2045.6	2046.2	3.8	23.9	4.6		
	2800 OTTA	1	2045.9	2046	1	3.0	1.5		
	15400 SGMR	3	2046	2046.5	5.5	71.5	12.1		
	208 VORO	44	2300	0250.7	240	136.0			
	2950 GORK	3	0637.7	0638.2	1.9	15.0	7.0	1	
	200 GORK	44	0639		225		5.0		
	200 GORK	41	0642.3	0643.1	1.7	16.0			
	100 GORK	48	0642	0643	1.9	350.0			
	200 GORK	41	0649.3	0651.2	9.1	20.0			
	200 GORK		0649.3	0657.7		15.0			
	100 GORK	41	0650.6	0651	3.2	30.0			
	100 GORK		0650.6	0652.6		30.0			
	100 GORK	48	0722.8	0724	3.4	30.0			
	200 GORK	41	0723.4	0724.3	4.7	50.0			
	200 GORK		0723.4	0725.9		50.0			
	113 POTS	45	0723.7	0724	1.5	400.0	30.0		
	200 GORK	6	0742.8	0743.1	.5	40.0	20.0		
	950 GORK	21	0756	0804.3	24	7.0	3.0		
	650 GORK	22	0758	0808	28.8	5.7	2.7		
	2950 GORK	21	0802.1	0804.4	49	14.0			
	100 GORK	48	0802	0804.9	6.5	4000.0			
	2695 CRON	40	0803	0805.5	14				
	237 TRST	41	0803	0804.4	5.1	350.0			
	221 ABST	5	0803	0805	5		7.0		
	206 IZMI	41	0803	0805.8	4.1	350.0			
	204 KIEV	41	0803.1	0806.8	5.4	261.0			
	200 GORK	6	0803.1	0804.2	2.2	40.0D			
	3100 CRIM	47	0804	0806	60	90.0	30.0		
	2950 GORK	4	0804.7	0805.6	2.1	35.0	10.0		
	950 GORK	3	0804.7	0807.9	4	30.0	6.7		
	930 BORD	45	0805	0807.8	4	46.0	4.0		
	600 UCCL	41	0806	0819	15	34.0	6.0		
	100 GORK	41	0808.9	0813.4	7.1	200.0			
	100 GORK		0808.9	0814		150.0			
	260 ONDR	40	0810	1042.5	340	35.0			
	2950 GORK	40	0811.9	0812.6	2.3	15.0			
	9100 GORK	1	0813.2	0815	4.6	20.0	10.0		
	113 POTS	41	0813.3	0813.5	13.1	800.0	10.0		
	2950 GORK	40	0816.1	0816.3	1	12.0			
	930 BORD	41	0817	0818.7	2	26.0	2.0		
	100 GORK	41	0820.6	0820.8	5.8	200.0			
	100 GORK		0820.6	0823.4		200.0			
	200 GORK	41	0823.4	0823.5	.6	30.0			
	9100 GORK	1	0826.8	0829.2	5.4	20.0	10.0		
	200 GORK	6	0830.7	0831	.7	15.0	10.0		
	100 GORK	41	0950.4	0952.3	9.1	500.0D			
	100 GORK		0950.4	0955		500.0D			
	113 POTS	41	0951.4	0955.8	5.5	1000.0	120.0		
	930 BORD	45	1009	1011	3	9.0	2.0		
	204 KIEV	6	1051.3	1052.8	1.9	121.0			
	113 POTS	45	1051.3	1052.2	2.2	100.0	15.0		
	10500 BERN		1122.3	1122.7	1	9.0	1.0		
	9400 HUAN	3	1122	1122.7	1.7	15.6	7.8		
	100 GORK	6	1126.1	1127	1.4	500.0D			
	113 POTS	45	1129.6	1129.9	.8	350.0	60.0		
	10500 BERN		1157.9	1158.1	4	9.0	4.0		
	10500 BERN		1157.9	1158.3		9.0			
	10500 BERN		1157.9	1158.6		10.0			
	9500 BERL	22	1157	1158.2	10	20.0	5.7		
	9400 HUAN	4	1157	1158.3	5.9	17.5	7.1		
	7000 SAOP	3	1158.2		11.2	14.9			
	245 SGMR	44	1217 E		532 D				
	930 BORD	41	1309	1310	27	85.0	6.0	1	
	9400 HUAN	22	1317.7	1355.9	56.3	7.8	4.2		
	930 BORD	45	1413	1420	9	68.0	24.0		
	930 BORD	41	1456	1459	4	170.0	3.0		
	15400 SGMR	1	1458.5	1459	.7	7.5	1.9		
	9400 HUAN	4	1458	1458.8	10.8	25.3	8.7		
	8800 SGMR	3	1458.5	1459	5.8	21.1	5.0		
	7000 SAOP	45	1458.6	1459.1	3.7	22.3	15.1		
	4995 SGMR	3	1458.5	1458.8	3.1	31.5	5.8		
	2800 OTTA	3	1458.5	1459	1.5	28.0	12.0		
	2700 PENN	3	1458.6	1459.1	1.5	34.6	9.6		
	2695 CANR	3	1458.5	1459	1				
	2695 SGMR	3	1458.5	1459	4.3	10.8	2.3		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION MINUTES	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT		PEAK	MEAN		
24	1415 SGMR	1	1458.7	1459.1	2.7	3.2	.8	1	
	960 PENN	45	1458.4	1459	2	71.2	6.2		
	606 SGMR	1	1458.8	1458.9	.2	.9	.2		
	4995 CANR	1	1459.5	1500	1.5				
	18 MCMA	41	1732	1733	4			3	
	9400 HUAN	1	1838.5	1839.3	1.5	7.8	4.6		
	7000 SAOP	4	1900.6	1909.9	13.7	18.6			
	18 MCMA	42	1948	1954	14				
	208 VORO	5	2335	2335.5	1.3	148.0	18.0	1	
	3750 TYKW	5	0205	0207	6	2.0	1.0		
	3750 TYKW	5	0213.2	0213.7	1	3.0	1.0		
	2000 TYKW	5	0213.2	0213.7	1	3.0	1.0		
	200 GORK	44	0630 E		330		5.0		
	100 GORK	44	0630 E		330 D		15.0		
	2950 GORK	22	0729.6	0731.8	8.6	7.7	2.7		
	950 GORK	1	0730	0730.4	1	2.7	1.3		
	204 KIEV	41	0731.8	0733	2.4	70.0			
	200 GORK	41	0731.5	0731.7	2.1	70.0			
	200 GORK		0731.5	0733.3		80.0			
	100 GORK	6	1036.8	1037.9	1.7	300.0	50.0		
	3100 CRIM	3	1142	1147	6	67.0	20.0		
	950 GORK	3	1142	1145.5	6	15.0	6.0		
	9100 GORK	1	1143.9	1145	2.8	11.8	5.9		
	2950 GORK	4	1143.2	1146.4	6.4	22.0	5.2		
	650 GORK	20	1143	1149.9	10	4.0	2.3		
	4995 CANR	40	1144.5	1147	5				
	650 GORK	4	1145.4	1146.5	1.5	8.0			
	204 KIEV	6	1145.9	1146.1	.6	100.0			
	600 UCCL	4	1146	1147.1	1.5	16.0	8.0		
	200 GORK	6	1146	1146.2	.4	90.0			
	3100 CRIM	29	1149	1149	3	7.0	2.0		
	100 GORK	41	1151.8	1152.7	1.5	400.0			
	600 UCCL	3	1329.2	1329.4	.6	27.0	13.0		
	8800 SGMR	20	1347.2	1351.8	27.6	10.2	2.4		
	4995 SGMR	20	1347.2	1351.8	23.4	39.0	7.9		
	2800 OTTA	45	1348.5	1351.8	6.5	15.0	4.0		
	2800 OTTA	45	1348.5	1350	2	11.2			
	2800 OTTA	45	1350.5	1351.8	4.5	15.0			
	2695 SGMR	22	1348.4	1351.5	24.8	14.3	2.8		
	606 SGMR	22	1348.8	1355.1	9.7	5.4	1.1		
	245 SGMR	48	1348.7	1351.7	6.4	600.0	120.0		
	113 POTS	45	1348.5	1351.8	.7	800.0	25.0		
	4995 CANR	41	1349.5	1352.5	6				
	1415 SGMR	20	1349.7	1350.1	7.2	4.9	1.0		
	9400 HUAN	22	1350.9	1351.8	29.4	7.6	3.1		
	237 TRST	41	1351.4	1351.7	.7	1800.00			
	234 POTS	45	1351.6	1351.8	.3	350.0	70.0		
25	2000 TYKW	5	0222	0223	2	3.0	1.0	1	
	3750 TYKW	5	0223	0223.2	1	7.0	2.0		
	9100 GORK	4	0840.1	0840.4	.6	35.0	13.0		
	3100 CRIM	1	1101	1102	2	7.0	2.0		
	930 BORD	5	1101	1101.6	1	17.0	1.0		
	2800 OTTA	2	1434.5	1436	3.5	6.0	2.0		
	2700 PENN		1434.6	1436	5.4	20.7	2.8		
	2695 SGMR	4	1434.8	1436	2.9	10.3	2.6		
	4995 SGMR	1	1435.4	1436.1	6.6	4.9	1.0		
	1415 SGMR	1	1435.3	1436.1	6.2	2.6	.5		
26	606 MANI	40	0315.4	0317.1	4.3	4.6	2.3	2	
	2695 MANI	1	0317.6	0317.8	2.1	3.5	.9		
	1415 MANI	1	0317.6	0317.8	2.1	2.9	.7		
	10500 BERN		0839.5	0840.2	3	37.0	45.0		
	10500 BERN		0839.5	0840.4		23.0			
	10500 BERN		0839.5	0841.8		5.0			
	2950 GORK	45	0839.9	0840.5	5.4	67.0	24.0		
	2950 GORK		0839.9	0842		14.0	5.0		
	1490 BERL	4	0839	0840.7	18	52.00	22.00		
	1420 CANR	45	0839.5	0840.5	5.5				
	1415 MANI	4	0839.9	0840.5	3.8	62.0	21.8		
	650 GORK	4	0839.9	0840.4	5.2	21.0	11.0		
	606 MANI	4	0839.8	0840.2	4.4	21.9	4.6		
	237 TRST	41	0839.5	0841.7	4.5	95.0			
	204 KIEV	41	0839.8	0841.6	4.7	60.0			
	200 GORK	41	0839.9	0840.3	5.8	170.0			
	200 GORK		0839.9	0841.8		130.0			
	200 GORK		0839.9	0844.1		70.0			
	100 GORK	41	0839.7	0842	5.2	140.0			
	9500 BERL	4	0840	0840.4	2.5	39.0	9.4		
	8800 MANI	4	0840	0840.3	3.7	29.3	9.8		
	4995 CROH	3	0840	0840.5	1				
	4995 MANI	4	0840	0840.5	3.7	50.3	14.8		
	2695 CROH	45	0840.5	0841	3.5				
	2695 MANI	4	0840	0840.5	3.7	74.0	17.6		
	1420 CROH	29	0840.5	0841	10				
	950 GORK	4	0840	0840.4	4.9	39.0	12.0		
	600 UCCL	3	0840.8	0841.8	2	22.0	10.0		
	206 IZMI	41	0840.1	0840.6	4.2	40.0			
	200 GORK	41	0840.5	0841.4	1.2	170.0			

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DEC. 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	113 POTS	41	0840	0840.2	4.6	200.0	10.0	1	
	2695 CANR	45	0841	0841.5	3.5				
	221 ABST	1	0841.3	0841.4	.5	62.0			
	600 UCCL	2	0844.2	0844.3	.8	10.0	8.0		
	930 BORD	45	0940	0940.4	6	92.0	10.0		
	237 TRST	41	0940.4	0941.4	1.3	310.0			
	204 KIEV	6	0940.3	0941.2	1.9	180.0			
	113 POTS	41	0940.5	0941.4	2	800.0	40.0		
	100 GORK	41	0940.6	0941.6	2.1	500.00			
	234 POTS	45	0941.3	0941.4	.2	175.0	35.0		
	206 IZMI	6	0941.3	0941.3	.4	210.0	90.0		
	600 UCCL	2	0942	0942.2	.4	6.0	4.0		
	204 KIEV	41	1025.8	1031.2	2.5	76.0			
	200 GORK	41	1030	1032.2	2.5	80.0			
	237 TRST	45	1135.1	1135.5	.5	290.0	70.0		
	2800 OTTA	1	1458.3	1458.6	1	3.0	1.5		
	9400 HUAN	22	1825.7	1829	7.6	7.5	4.2		
	2700 PENN	3	1825.3	1827.7	17.6	22.1	5.5		
	4995 SGMR	3	1826.6	1828.3	5.6	12.2	3.0		
	2800 OTTA	3	1826	1827.7	7	13.6	6.0		
	2695 SGMR	3	1826.2	1827.6	8.5	11.9	2.6		
	1415 SGMR	1	1826.8	1828.4	4.4	1.1	.3		
	10700 PENN	1	1827.3	1828.4	4.3	7.9	4.0		
	8800 SGMR	1	1827	1828.7	7.8	6.1	1.9		
	2695 BOUL	3	1827.5	1829	4			1	
	2695 PENT	8	2239	2239		24.0		1	
	1420 CRON	8	2239	2239.5	1			1	
	1420 BOUL	8	2240	2240.5	1.5			1	
27	600 UCCL	3	1241.2		.2	12.0	6.0	1	
	18 MCMA	42	1703	1705	10				
	9400 HUAN	20	1820	1834.8	17.6	5.7	2.6		
	9400 HUAN	22	2039.2	2054	70.5	5.7	3.7		
	2695 PENT	1	2112.5	2114	5	3.6	1.8		
28	18 BOUL	42	1736	1739	14			1	1
	18 MCMA	6	1833	1835	5			1	
29	100 GORK	44	0725		185		5.0	1	
	100 GORK	24	0726		73	20.00			
	930 BORD	41	1140	1140.1	1	35.0	2.0		
	18 BOUL	42	1458	1502	14			1	
	18 BOUL	6	1619	1621	4			1	
30	200 GORK	44	0627 E		330 D		5.0	1	
	930 BORD	41	0956	0957	3	23.0	2.0		
	600 UCCL	1	1247		.2	3.0	2.0		
	600 UCCL	1	1309		.2	6.0	3.0		
	600 UCCL	1	1310		.2	6.0	3.0		
	600 UCCL	1	1419.5		.3	10.0	5.0		
	2700 PENN	1	1451.2	1452.6	3.3	6.6	1.5		
	960 PENN	1	1451	1452.7	3.8	2.4	.6		
	8800 SGMR	1	1452.2	1452.5	2.7	2.2	1.0		
	4995 SGMR	1	1452.4	1452.6	.8	2.9	1.2		
	2800 OTTA	1	1452.5	1452.7	1	2.0	1.0		
	2695 SGMR	1	1452.4	1452.5	1.3	2.6	1.0		
	1415 SGMR	1	1452.3	1452.5	1.1	4.6	2.0		
	606 SGMR	4	1452.3	1452.7	.8	121.0	15.0		
	600 UCCL	41	1452	1452.5	1.3	135.0	40.0		
	930 BORD	41	1508	1513.4	7	20.0	2.0		
	600 UCCL	1	1508.8		.6	10.0	8.0		
	600 UCCL	1	1513.8		.3	10.0	5.0		
	606 SGMR	46	1521.9	1522.2	9.8	460.0	19.2		
	930 BORD	41	1522	1524.5	6	18.0	3.0		
	600 UCCL	41	1522	1522.6	3	200.0			
	2800 OTTA	45	1523	1524.3	6	6.6	1.6		
	2695 SGMR	46	1523.4	1524.4	2.8	10.1	3.1		
	1415 SGMR	3	1523.5	1524.5	4.7	11.3	3.5		
	245 SGMR	6	1523.8	1524.5	4	120.0	26.0		
	8800 SGMR	1	1524.3	1524.5	1.5	3.0	1.5		
	4995 SGMR	1	1524.2	1524.4	1.1	6.2	3.0		
	930 BORD	41	1534	1534.7	1	16.0	2.0		
	930 BORD	41	1540	1541	4	81.0	2.0		
	245 SGMR	6	1547.2	1548.6	6.5	145.0	20.0		
	2695 SGMR	1	1548.5	1548.7	.7	2.6	1.0		
	1415 SGMR	1	1548.6	1548.6	.6	1.3	.7		
	930 BORD	41	1548	1549	3	9.0	2.0		
	606 SGMR	40	1548.3	1548.6	4.8	5.3	.5		
	2800 OTTA	21	1600	1820	285	6.0	3.0		
	1420 CANR	41	1635.5	1639	5			1	
	2800 OTTA	45	1644.5	1649.8	10	46.0	9.2		
	960 PENN	45	1645	1649.7		125.0			
	15400 SGMR	4	1646.7U	1649.6	17.6U	35.2	10.0		
	10700 PENN	3	1646	1649.7		45.00			
	9400 HUAN	45	1646.1	1649.7	5.2	49.0	20.0		
	8800 SGMR	45	1646.7U	1649.6	5.9U	21.5	8.1		
	7000 SAOP	3	1646.3	1647.3	1.8	29.6	9.2		
	4995 SGMR	45	1646.8U	1649.6	4.5U	38.4	14.2		
	2700 PENN	28	1646	1647.1	3	27.8	10.3		
	2695 BOUL	41	1646	1651	7.5			2	

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
30	2695 SGMR	45	1646.8U	1649.7	7.2U	50.4	20.0		
	1415 SGMR	45	1646.8	1649.7	5.8	29.4	12.0		
	4995 CANR	41	1647	1650	7			1	
	2695 CANR	41	1647.5	1651	9			1	
	7000 SAOP	4	1648.8	1649.9	2.4	55.0	20.6		
	4995 BOUL	41	1648.5	1652	5			1	
	1420 BOUL	41	1648	1651	7			1	
	2700 PENN	3	1649	1649.8	16.4	81.0	7.7		
	7000 SAOP	4	1722.9		7	13.7	34.0		
	606 SGMR	46	1722.5	1723.1	11.8	400.0	140.0		
	15400 SGMR	3	1723.1	1723.4	2.9	22.4	8.5		
	9400 HUAN	3	1723	1723.4	2.8	15.1	6.1		
	8800 SGMR	3	1723.1	1723.4	4.4	9.0	3.8		
	4995 SGMR	1	1723.1	1723.7	6.8	7.2	3.6		
	2800 OTTA	1	1723	1723.5	3	6.2	3.1		
	2695 SGMR	1	1723.1	1723.4	3.4	7.4	3.7		
	1415 SGMR	3	1723	1723.2	6.4	8.4	3.9		
	8800 SGMR	1	1751.5	1753.6	11.8	4.3	2.1		
	9400 HUAN	22	1752.7	1753.6	4.6	7.5	4.1		
	4995 SGMR	1	1753	1753.5	10.3	6.7	3.3		
	2695 SGMR	1	1753	1753.3	7	1.4	.7		
	1415 SGMR	4	1753.4	1753.6	7.7	50.0	20.0		
	606 SGMR	4	1753.5	1753.6	7.1	105.0	35.0		
	245 SGMR	6	1753	1753.9	6.8	150.0	47.0		
	1420 BOUL	8	1755.5	1756	1.5			1	
	2700 PENN	3	1824.7	1827.8	4.6	111.0	17.3		
	10700 PENN	3	1825.5	1827.7	7.6	70.9	7.4		
	2800 OTTA	41	1826	1827.8	18	92.0			
	2800 OTTA	4	1826	1827.8	6	92.0	12.0		
	1420 BOUL	40	1826	1829	4.5			1	
	960 PENN	41	1826.5	1840.4	26.3	80.9			
	606 SGMR	3	1826.3	1826.8	1.5	93.0	35.0		
	15400 SGMR	3	1827.2	1827.7	2.4	38.4	14.5		
	9400 HUAN	3	1827.2	1827.7	1	73.6	36.8		
	8800 SGMR	3	1827.3	1827.7	4.4	55.0	22.0		
	7000 SAOP	3	1827.4	1827.9	2.4	77.9	17.2		
	4995 SGMR	3	1827.3	1827.7	3.8	68.0	25.0		
	2695 SGMR	3	1827.3	1827.7	4.2	100.0	40.0		
	1415 SGMR	3	1827.4	1827.7	4.4	27.3	10.4		
	9400 HUAN	29	1828.2	1828.2	3.7	9.4	6.0		
	2695 BOUL	3	1828	1828.5	3			2	
	4995 BOUL	3	1829.5	1830	1.5			1	
	2700 PENN	29	1829.3	1829.3	27.4	10.4	5.2		
	10700 PENN	40	1834.7		57.8				
	2700 PENN	1	1834.7	1835.5	2.9	6.9	1.9		
	2800 OTTA	1	1835	1835.3	2	3.6	1.2		
	15400 SGMR	3	1839.4	1840.1	1.4	12.8	3.8		
	9400 HUAN	4	1839.3	1839.6	1.5	18.9	10.7		
	8800 SGMR	3	1839.5	1839.8	2.1	8.6	2.9		
	7000 SAOP	3	1839.5		1.5	11.4	6.9		
	4995 SGMR	1	1839.5	1839.9	1.7	7.4	3.2		
	2800 OTTA	3	1839.5	1840.2	3	10.2	2.8		
	2700 PENN	3	1839.5	1840.3	3.2	16.2	5.3		
	2695 SGMR	3	1839.4	1840.2	2.9	9.6	4.0		
	1415 SGMR	3	1839.5	1839.8	1.9	14.7	5.8		
	606 SGMR	4	1839.5	1840.6	2.5	375.0	100.0		
	2695 BOUL	3	1840	1841	1.5			1	
	1415 SGMR	3	1845.9	1846	2.3	8.8	4.0		
	606 SGMR	40	1845.7	1846.7	4.4	4.8	2.4		
	245 SGMR	6	1845	1847.5	5	120.0	40.0		
	1420 BOUL	40	1846.5	1847	2.5			1	
	245 SGMR	6	1908.2	1910.3	4.4	250.0	80.0		
	8800 SGMR	1	1909.8	1910.1	2.7	4.3	2.1		
	7000 SAOP	8	1909.7	1910.1	1	9.2	4.6		
	4995 SGMR	3	1909.8	1910.1	3.3	9.4	4.1		
	2800 OTTA	4	1909.8	1910	1.5	14.4	3.6		
	2700 PENN	3	1909.7	1910.2	1.9	43.9	5.9		
	2695 SGMR	3	1909.8	1910	3	24.0	9.9		
	1415 SGMR	3	1909.9	1910.2	7	12.6	4.2		
	960 PENN	1	1909.6	1910.2	1.3	6.8	1.3		
	606 SGMR	3	1909.6	1909.9	3	24.0	9.8		
	1420 BOUL	3	1911		1			1	
	2700 PENN	1	1917.4	1918.7	5.6	4.6	2.3		
	960 PENN	45	1917.1	1917.3	4.3	100.0	2.3		
	2800 OTTA	1	1918	1918.5	1	2.4	1.2		
	2700 PENN	1	1928.9	1930.3	2.2	4.6	1.7		
	960 PENN	45	1929	1930.3	1.6	23.6	1.2		
	2800 OTTA	1	1930	1930.4	1	2.0	1.0		
	2695 SGMR	3	2009.9	2010.2	2.3	10.1	4.0		
	8800 SGMR	1	2010.1	2010.2	.9	4.3	2.1		
	4995 SGMR	3	2010.1	2010.2	1.7	7.7	3.7		
	2800 OTTA	3	2010	2010.2	1.5	10.6	3.6		
	2700 PENN	3	2010.1	2010.4	4.3	17.3	3.2		
	1420 BOUL	3	2010.5	2011	1			2	
	1415 SGMR	4	2010	2010.2	3.3	29.4	12.0		
	960 PENN	41	2010	2012.6	4.8	65.5			
	606 SGMR	46	2010	2012.3	5.6	675.0	180.0		
	245 SGMR	6	2010	2010.2	5	104.0	30.0		
	2800 OTTA	1	2012.5	2012.7	.8	2.2	1.1		
	606 SGMR	40	2055	2100.6	15.2	48.0	18.1		

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DEC 1970	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
30	245 SGMR	6	2057.1	2101.4	13.9	240.0	100.0		
	10700 PENN	1	2059.7	2100.2	4.1	8.2	4.1		
	9400 HUAN	3	2059.8	2100.2	1.7	13.2	5.7		
	4995 SGMR	3	2059.9	2100.3	2.2	21.6	8.2		
	2700 PENN	3	2059.5	2100.4	4.5	50.9	12.6		
	2695 PENT	3	2059.5	2100.5	4	40.0	10.0		
	1415 SGMR	4	2059	2100.4	3.8	25.2	10.2		
	8800 SGMR	3	2100	2100.3	1.6	8.6	3.3		
	2695 BOUL	3	2100.5	2101.5	3.5			1	
	2695 SGMR	3	2100	2100.4	2.4	26.0	10.4		
	1420 BOUL	3	2100.5	2101	4.5			1	
	4995 BOUL	1	2102	2102.5	2.5			1	
	8800 MANI	1	2318.1	2318.3	.7	3.6	1.8		
	4995 MANI	1	2318.1	2318.3	.7	5.6	2.8		
	3750 TYKW	5	2318	2318.3	2	6.0	2.0		
	2695 MANI	3	2318.1	2318.3	.7	8.8	2.9		
	2000 TYKW	5	2318	2318.3	2	8.0	3.0		
	1415 MANI	1	2318.1	2318.3	.7	4.1	1.4		
	1000 TYKW	45	2318	2318.3	2	70.0	10.0		
	606 MANI	40	2318	2318.1	1.7	48.2	11.2		
31	500 HIRA	45	0049	0049.3	.5	180.0	50.0		
	4995 CRON	3	0204.5	0205	2.5			1	
	3750 TYKW	5	0204	0204.5	1	5.0	1.0		
	2695 MANI	1	0204	0204.4	2	4.4	.8		
	2000 TYKW	5	0204	0204.5	2	15.0	4.0		
	1415 MANI	4	0204	0204.4	2	23.8	8.4		
	1000 TYKW	45	0204	0204.5	2	15.0	4.0		
	606 MANI	4	0204	0204.1	2	36.6	6.1		
	3750 TYKW	5	0242.5	0243	1.5	2.0	1.0		
	2000 TYKW	5	0242.5	0243	1.5	2.0	1.0		
	9750 IRKU	1	0244.5	0244.8	1.5	18.0	8.0		
	9400 TYKW	5	0244	0244.7	2	15.0	4.0		
	8800 MANI	3	0244.4	0244.6	1	34.6	12.4		
	4995 MANI	3	0244.4	0244.6	8.6	36.7	12.2		
	3750 TYKW	45	0244.5	0244.8	4.5	32.0	7.0		
	2695 MANI	3	0244.3	0244.6	8.7	43.5	21.8		
	2000 TYKW	45	0244.4	0244.8	4.5	41.0	12.0		
	1415 MANI	3	0244.3	0244.6	8.7	28.0	14.0		
	1000 TYKW	45	0244.3	0244.4	7.5	75.0	7.0		
	606 MANI	47	0244.3	0244.5	4	1450.0	225.0		
	500 HIRA	45	0244	0244.5	2	660.0	30.0		
	4995 CRON	45	0245	0245.5	5			1	
	2695 CRON	3	0245	0245.5	10.5			1	
	1420 CRON	3	0245	0245.5	1.5			1	
	245 SGMR	44	1219 E		535 D				
	9400 HUAN	22	1350.8	1405.9	6.3	96.3	2.8		
	7000 SAOP	1	1716	1716.3	1.3	6.0	3.0		
	18 BOUL	6	1745	1748	4			1	

Observatories:

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

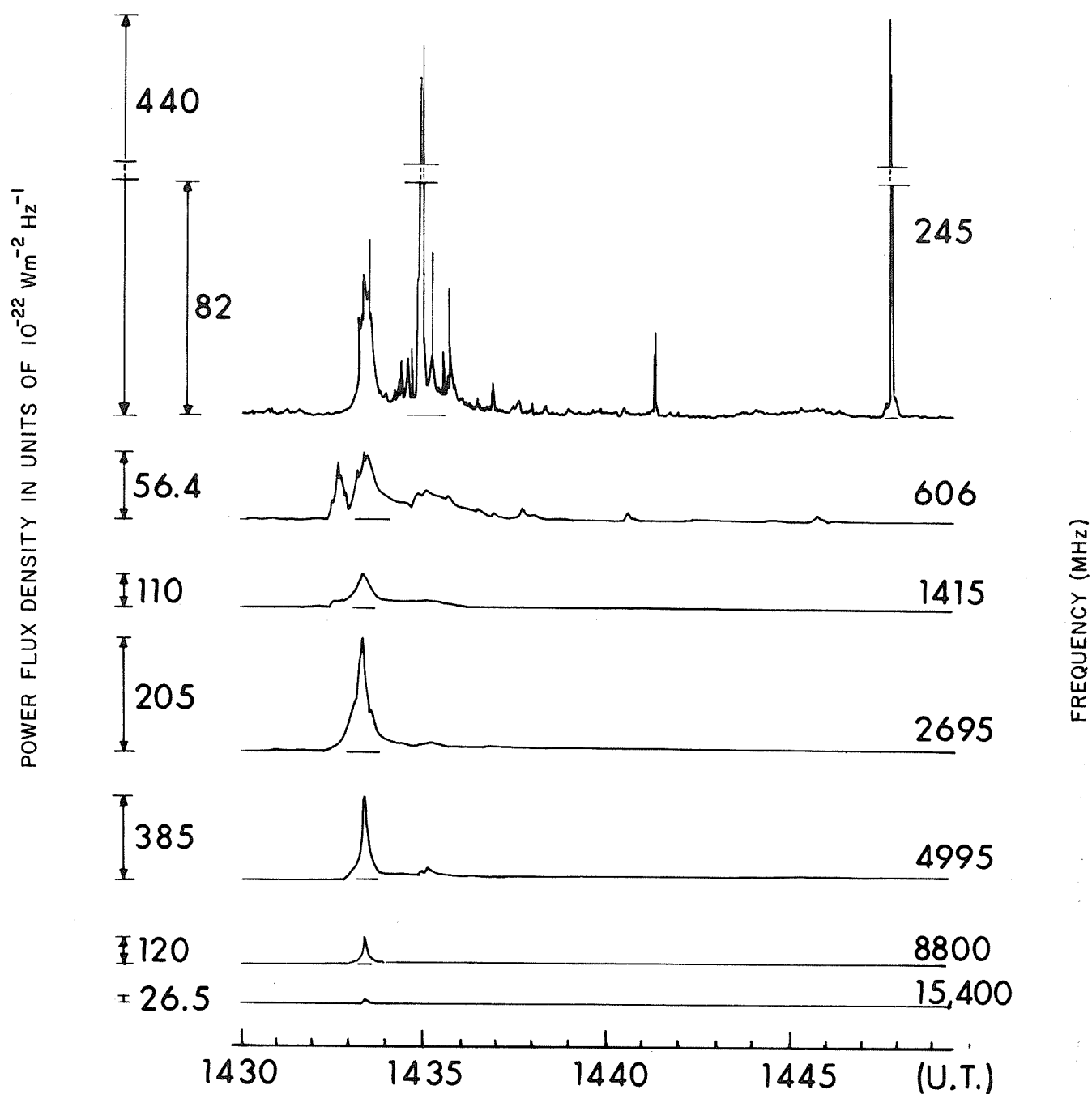
Explanation of Type Code:

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

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

SELECTED SOLAR NOISE BURST

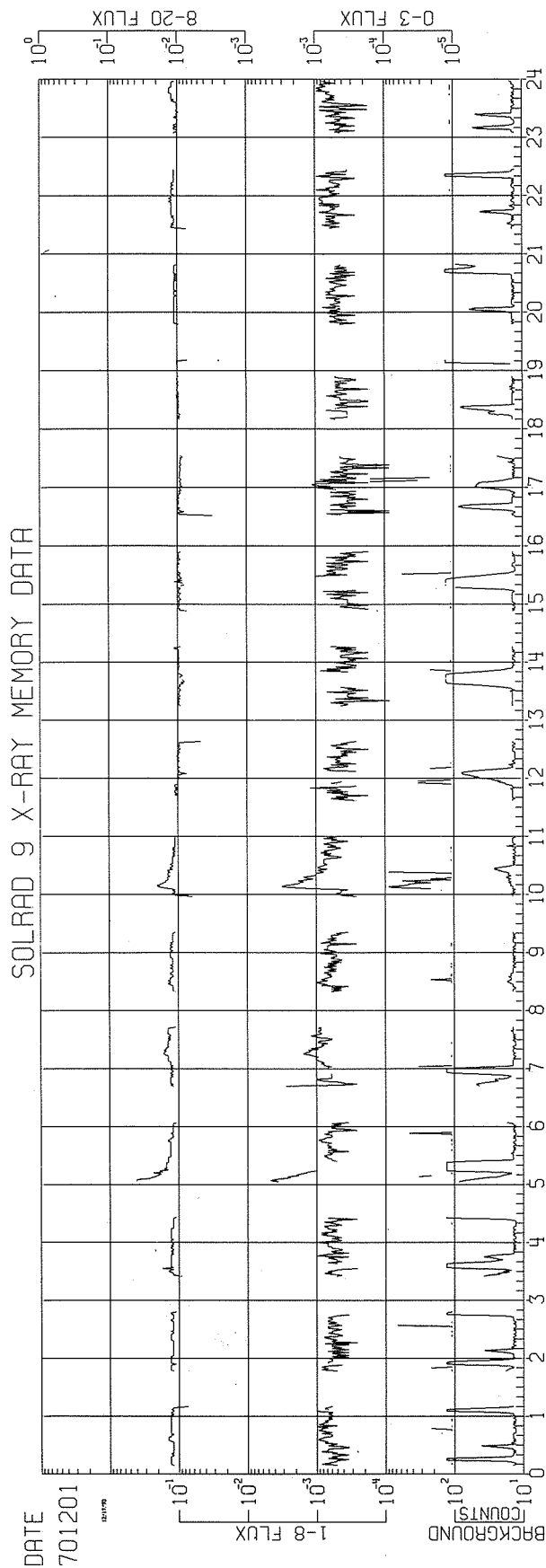
12 DECEMBER 1970



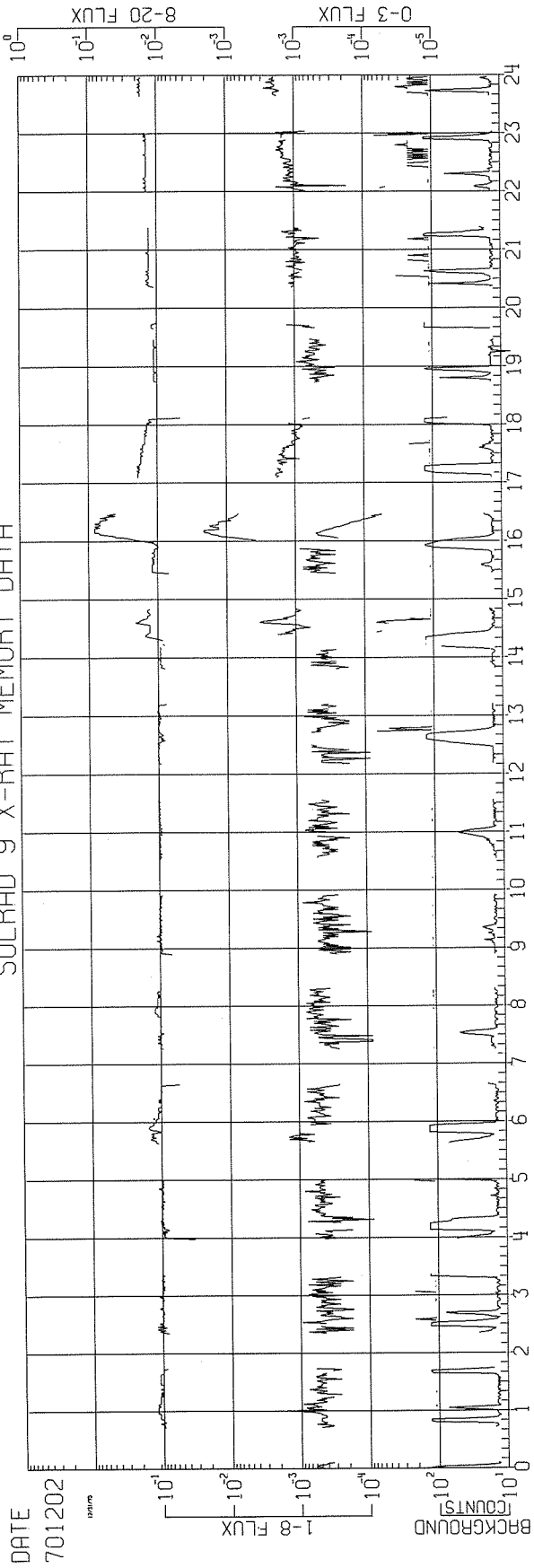
SIMPLE 2 AND COMPLEX RADIO BURST OBSERVED 12 DECEMBER, 1970 SAGAMORE HILL
RADIO OBSERVATORY HAMILTON, MASS.

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

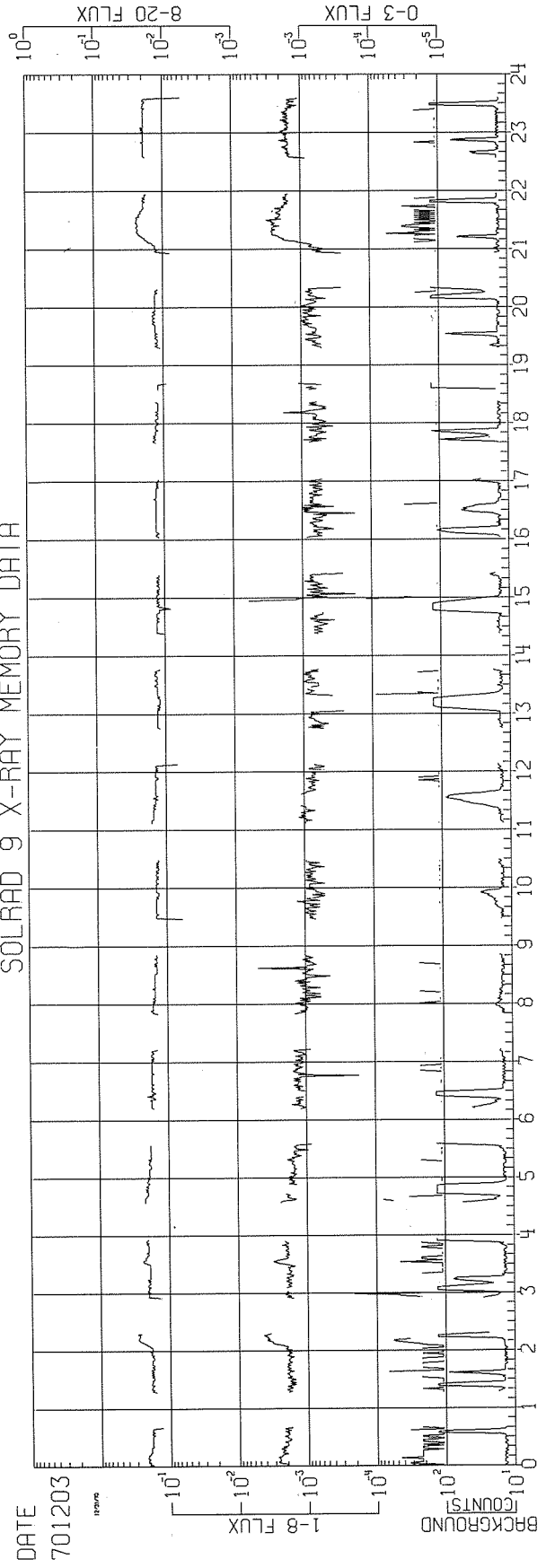
DECEMBER 1970



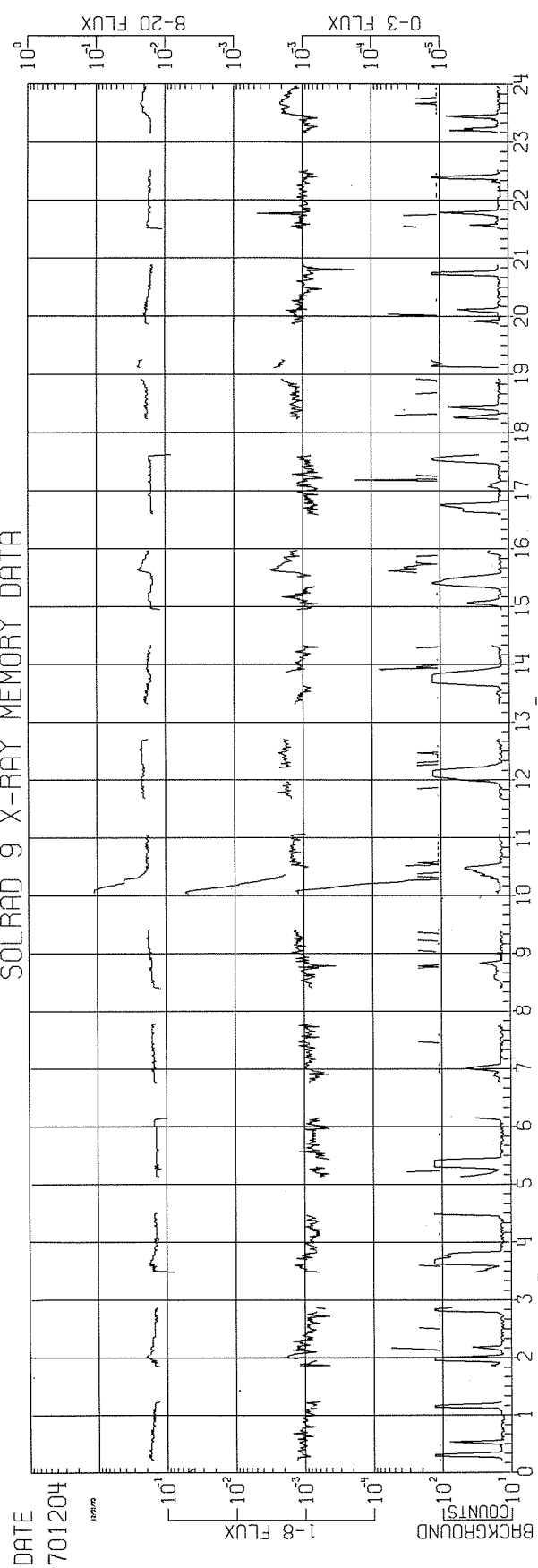
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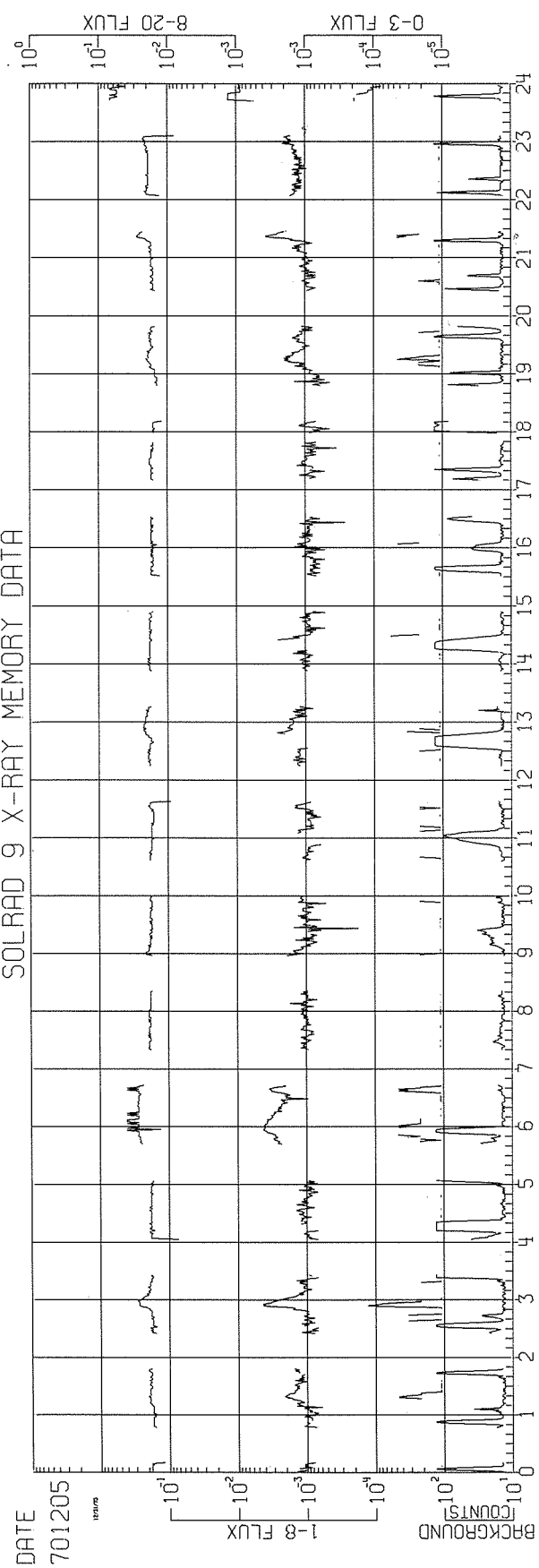
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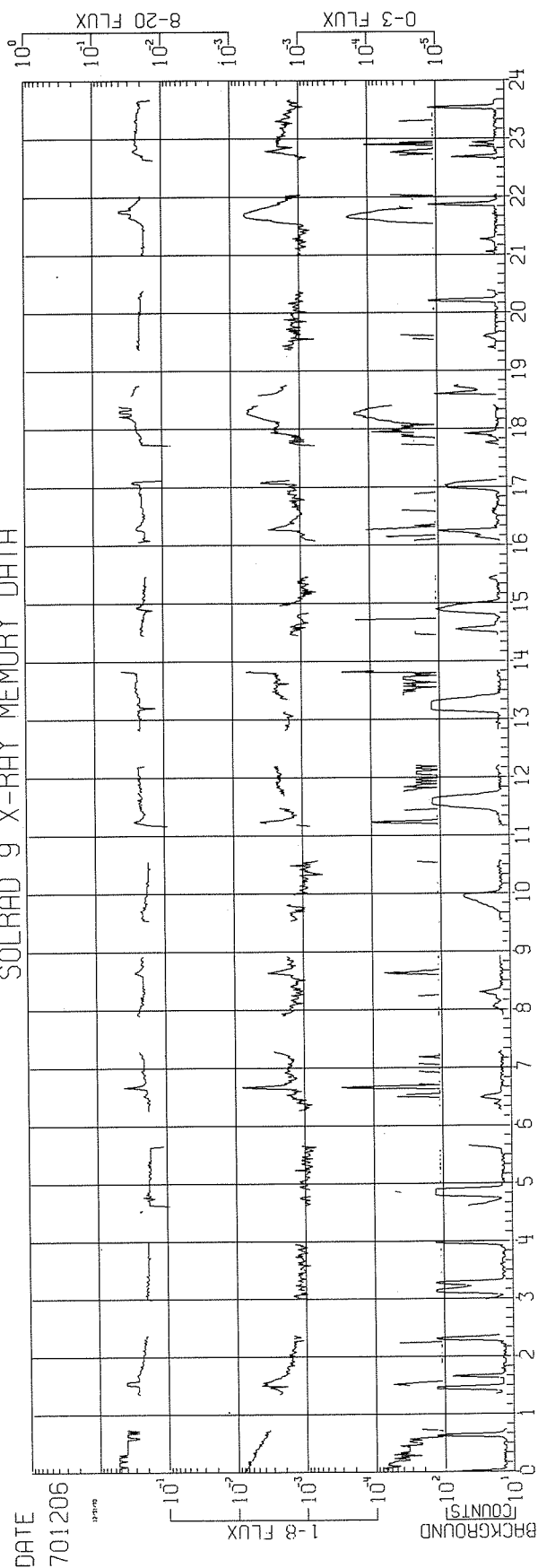
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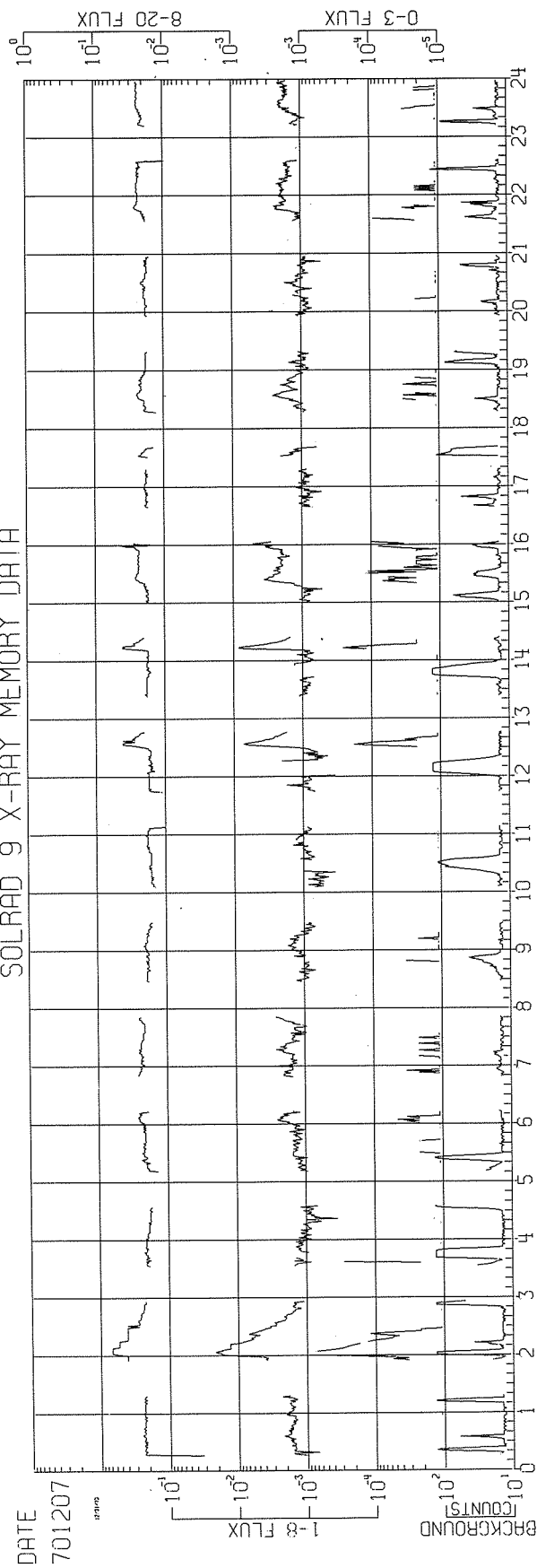
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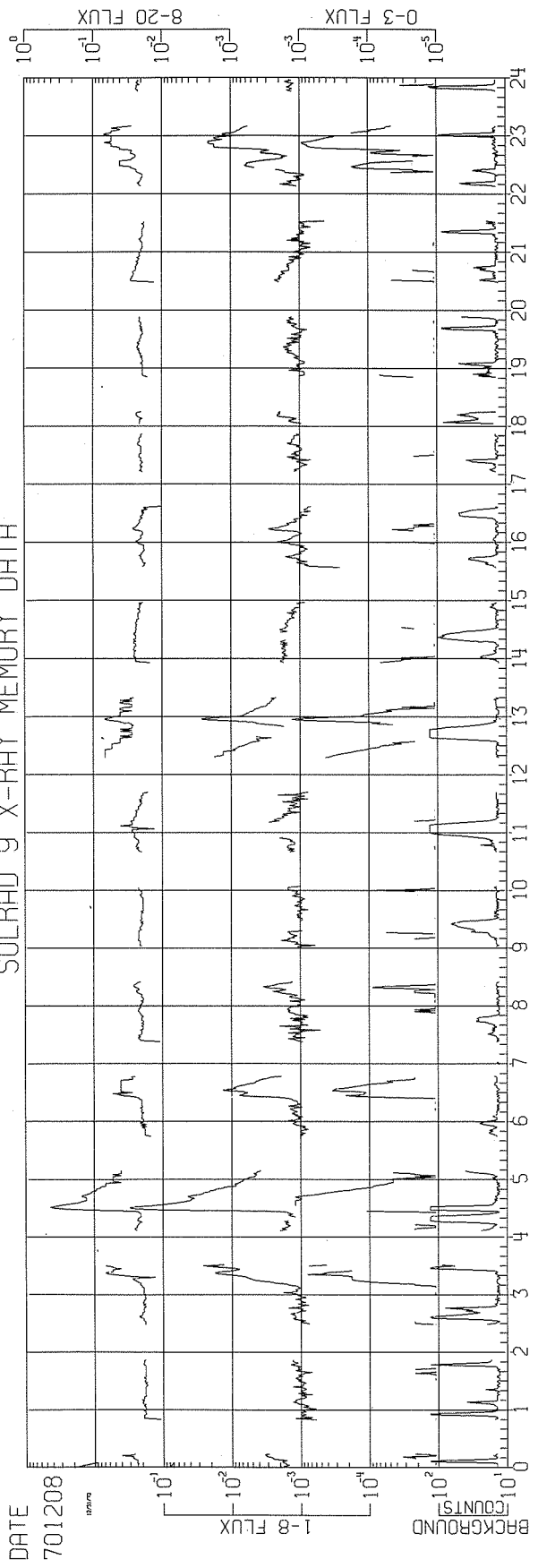
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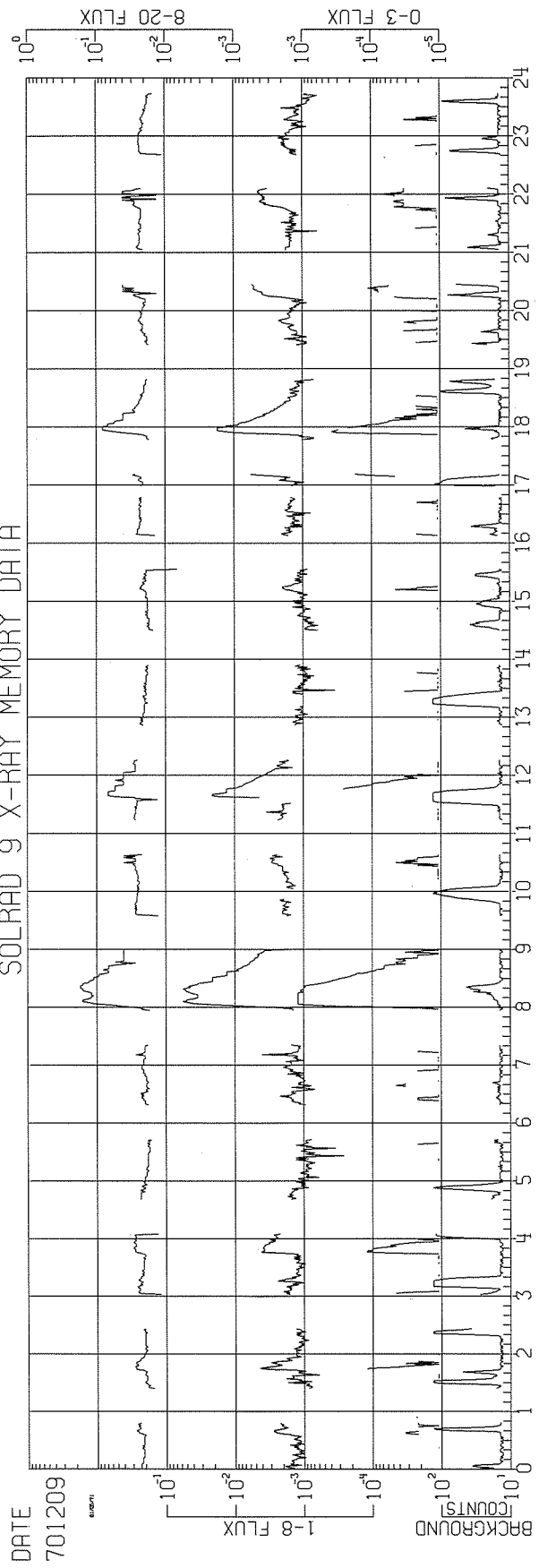
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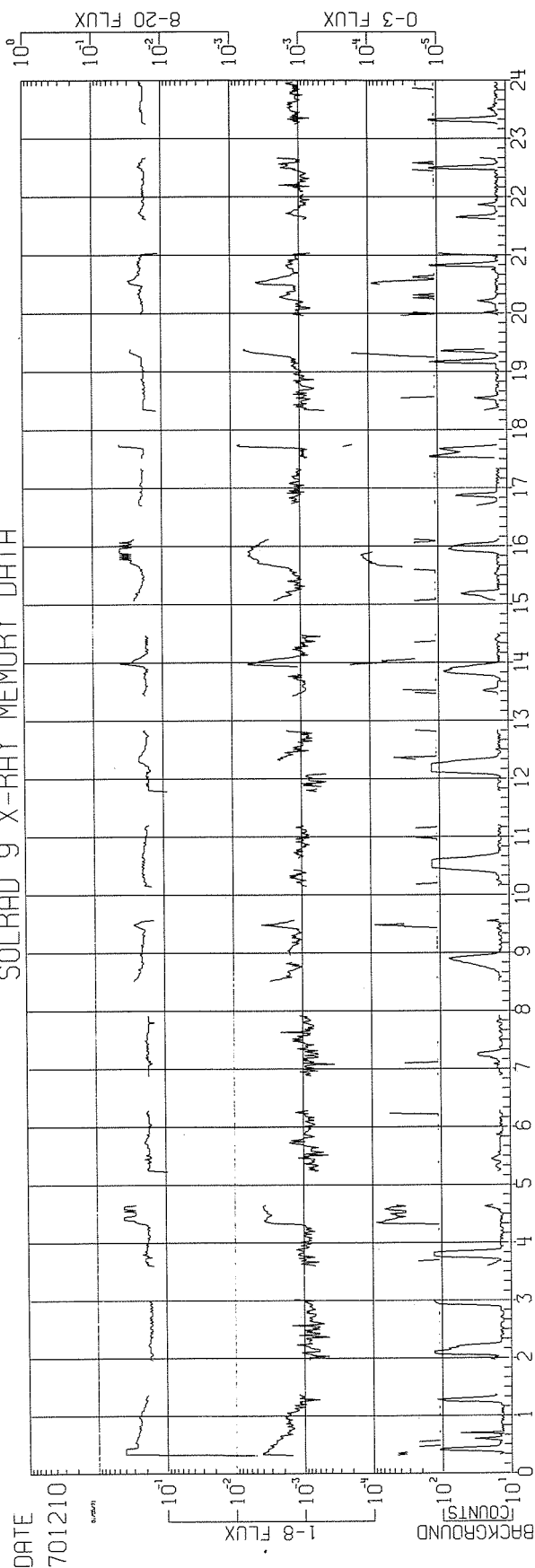
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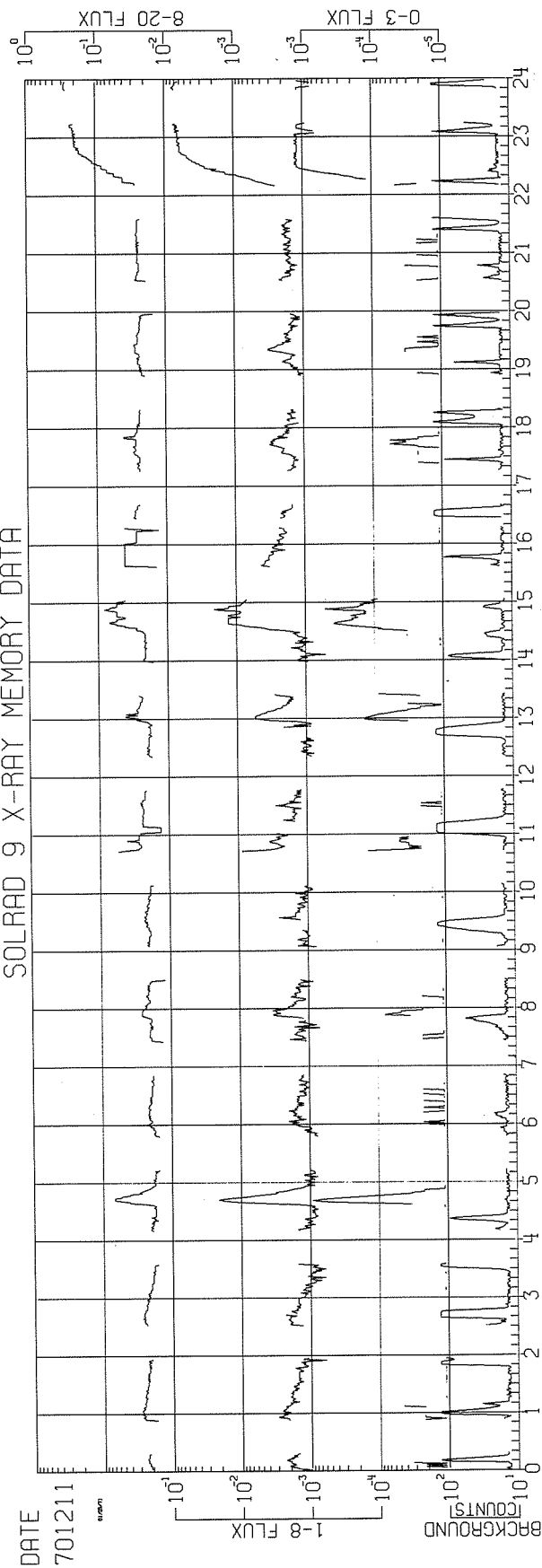
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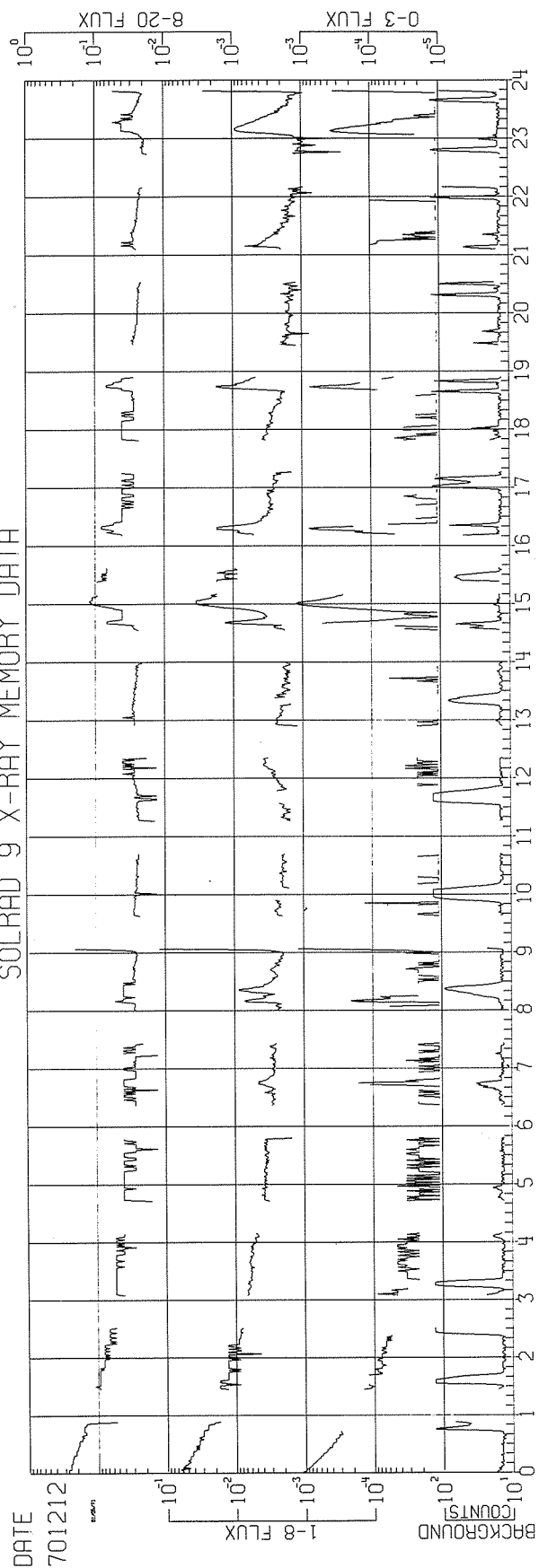
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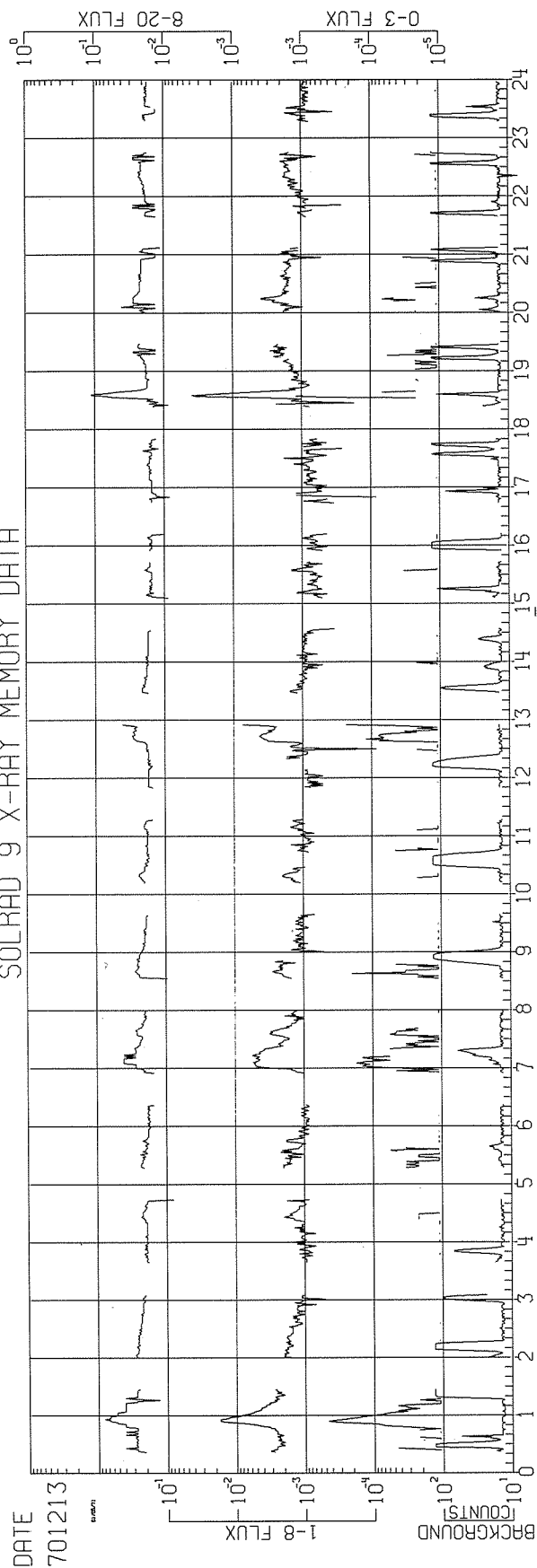
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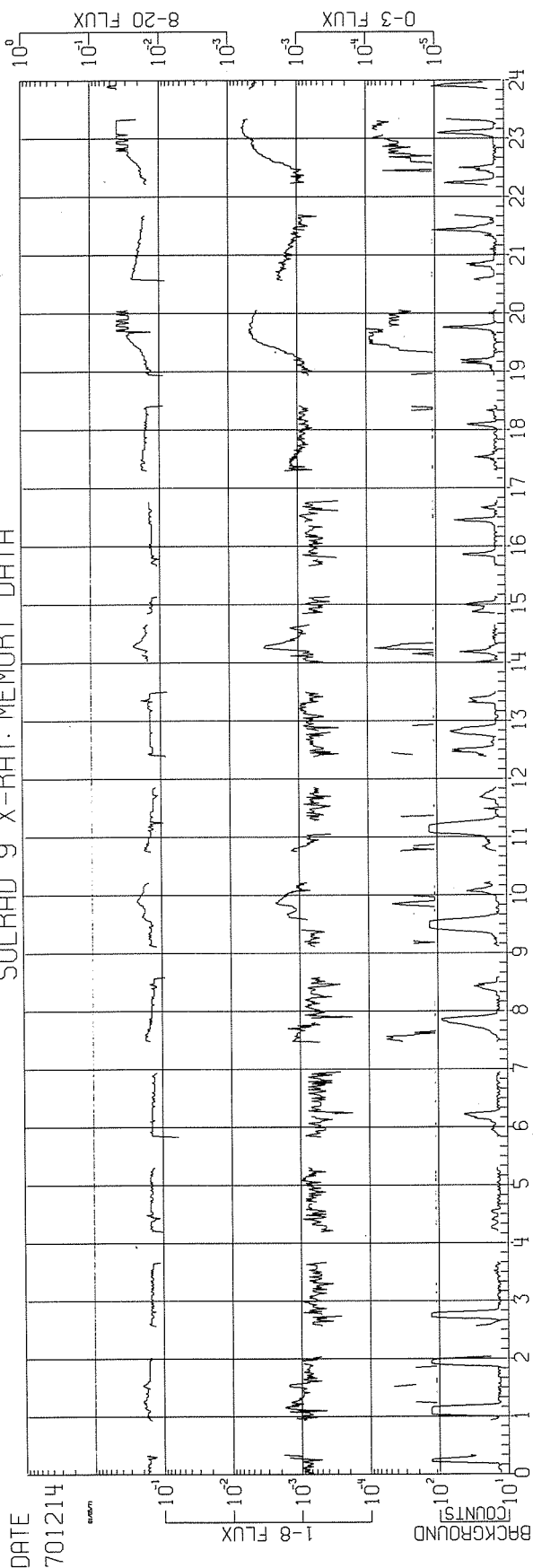
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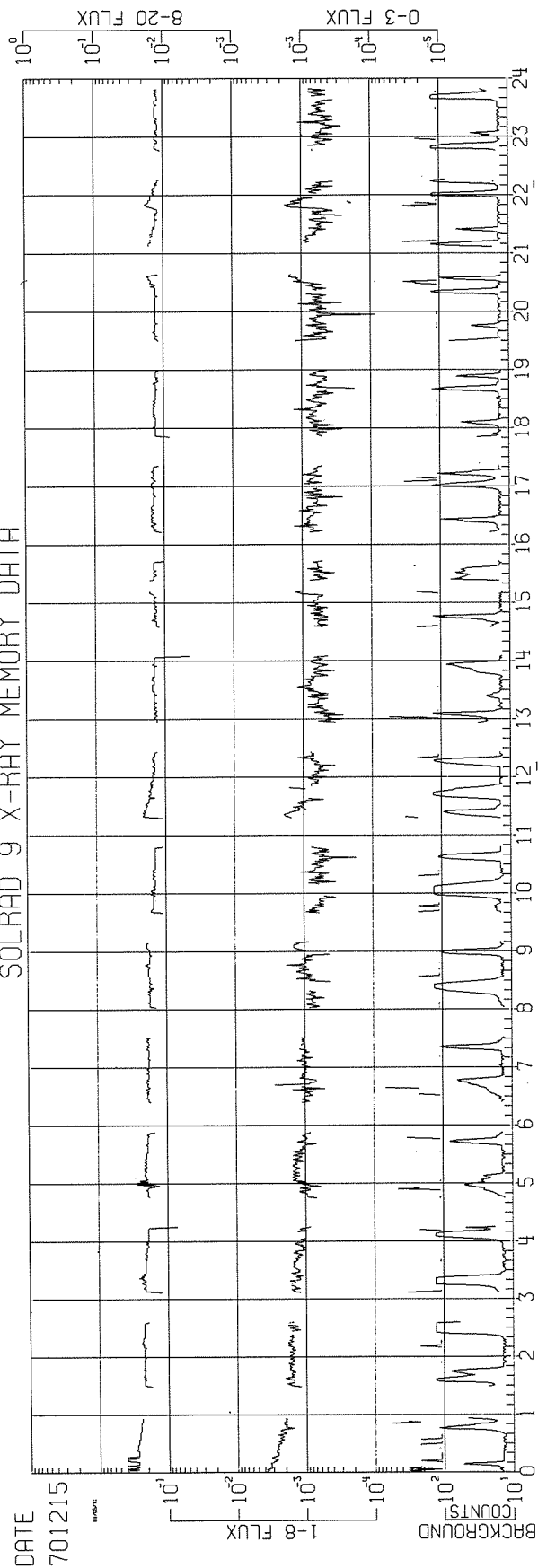
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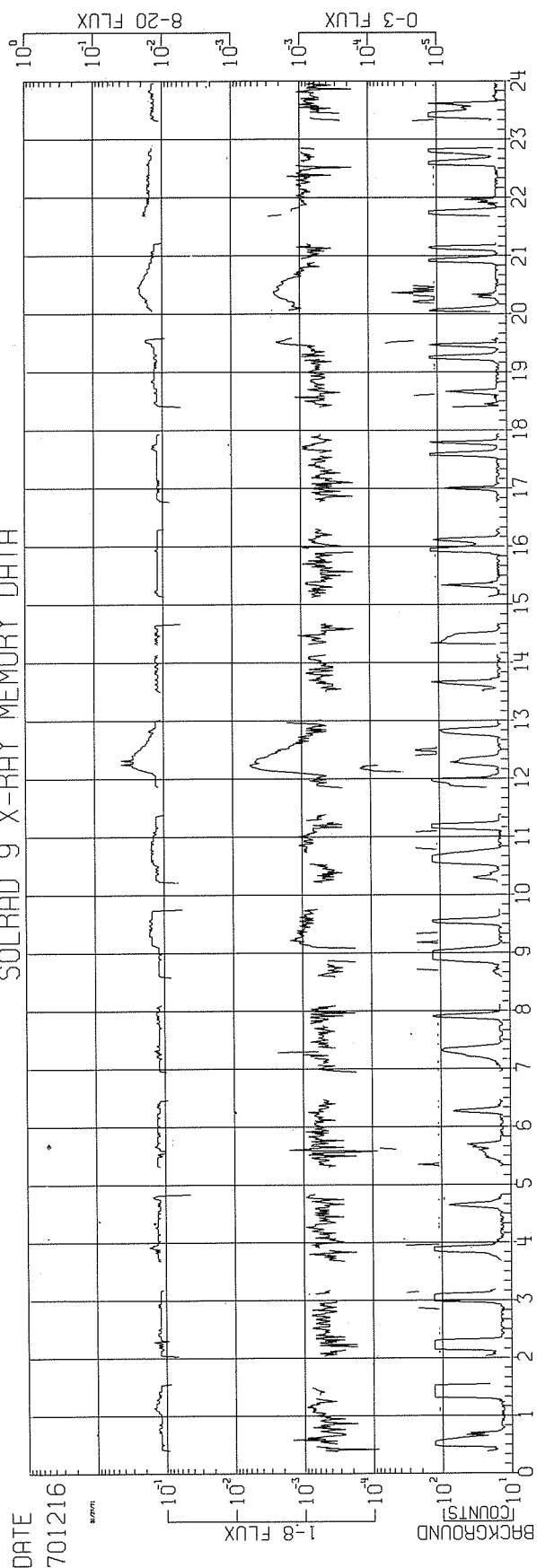
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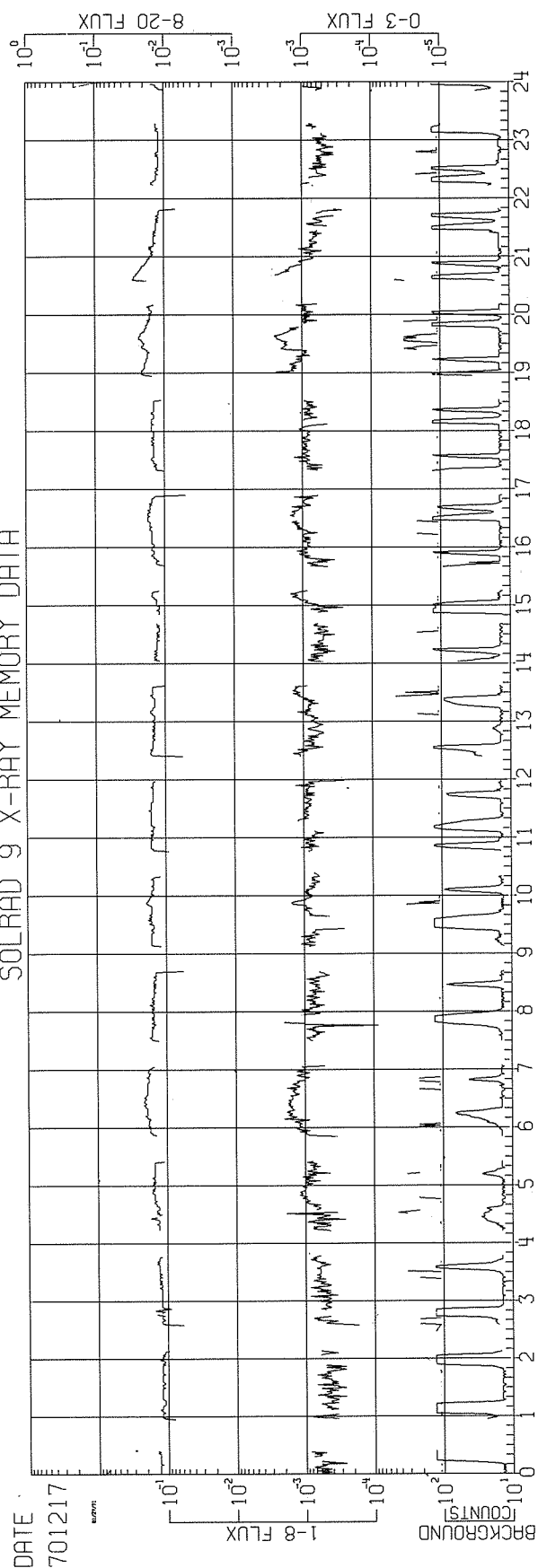
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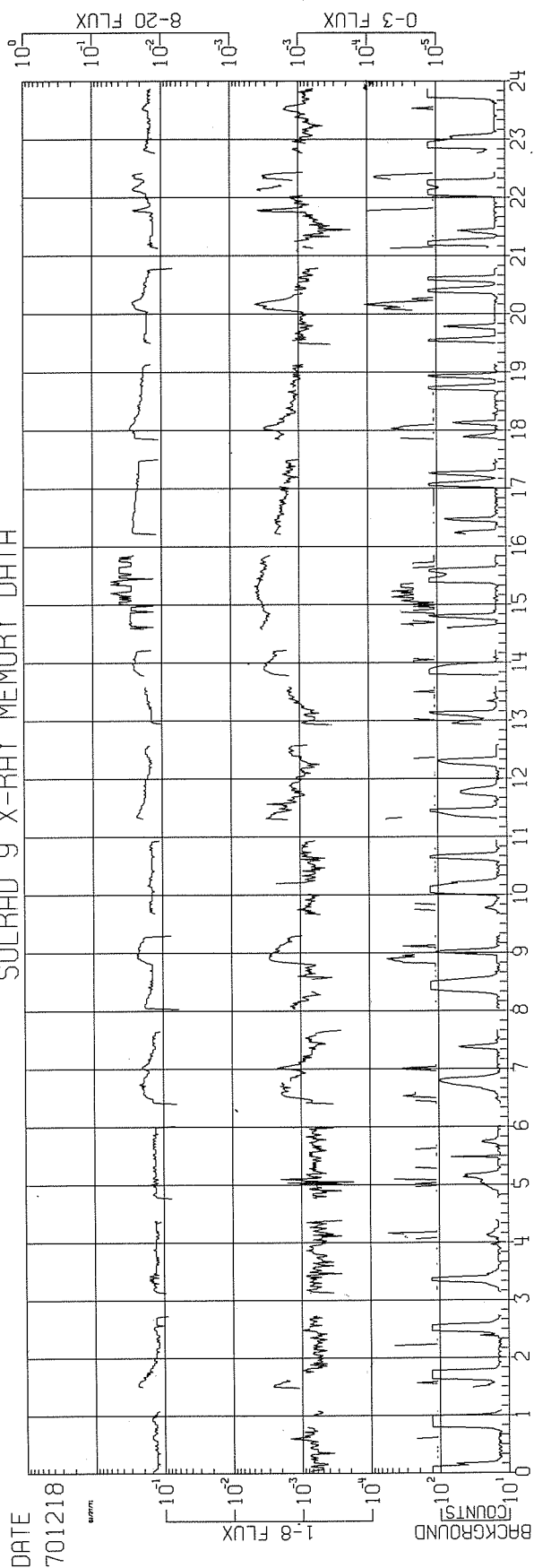
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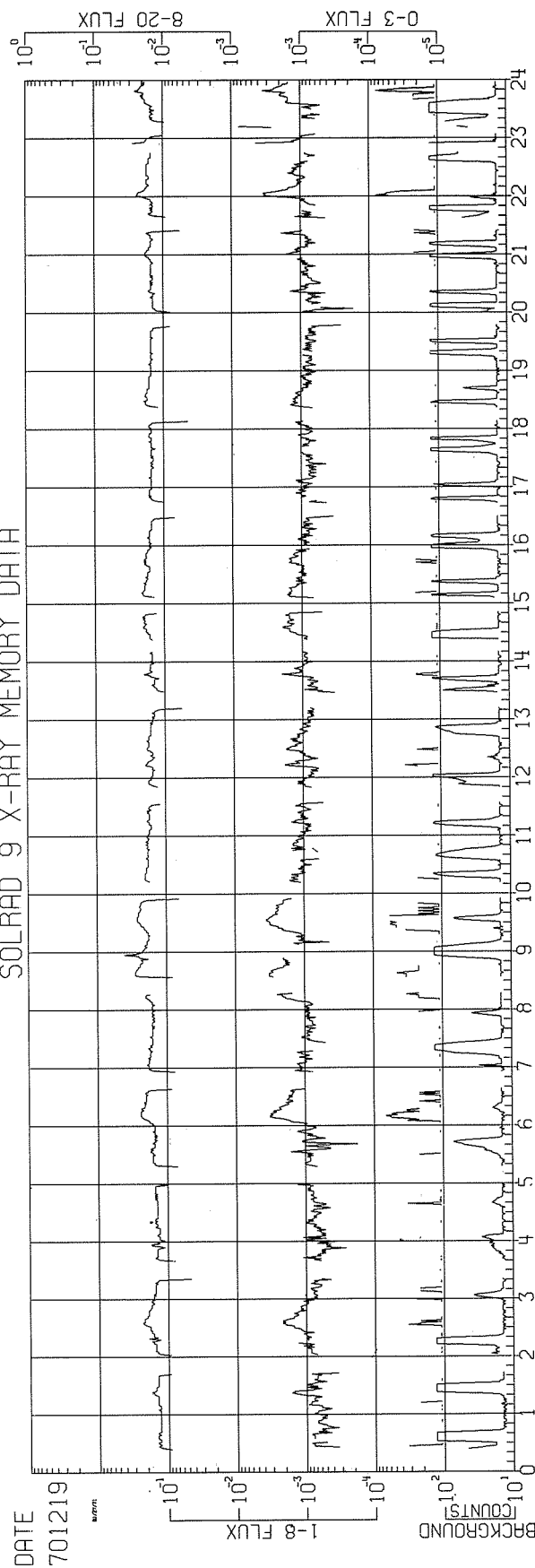
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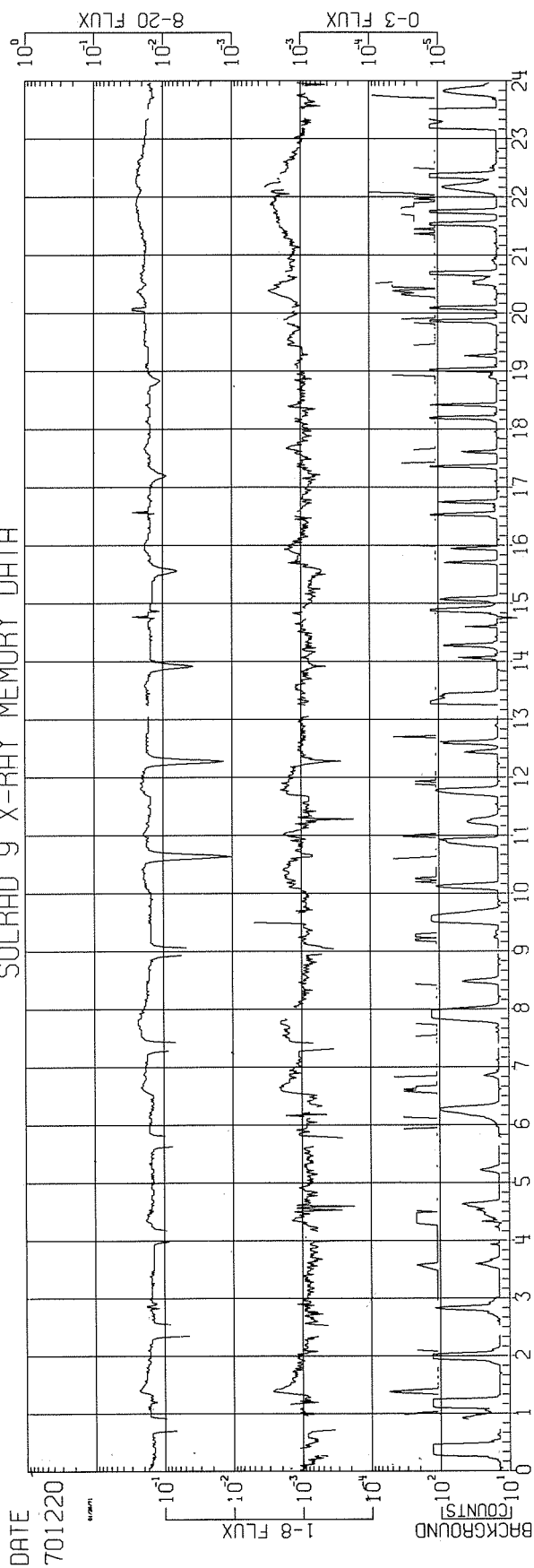
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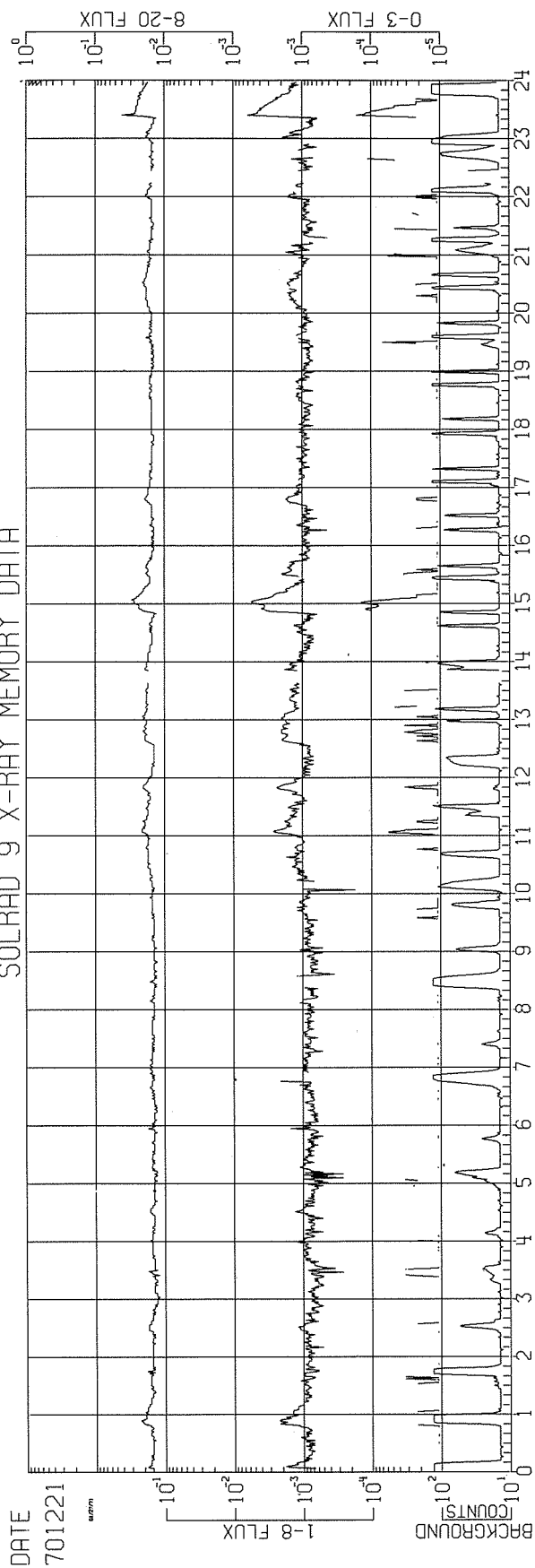
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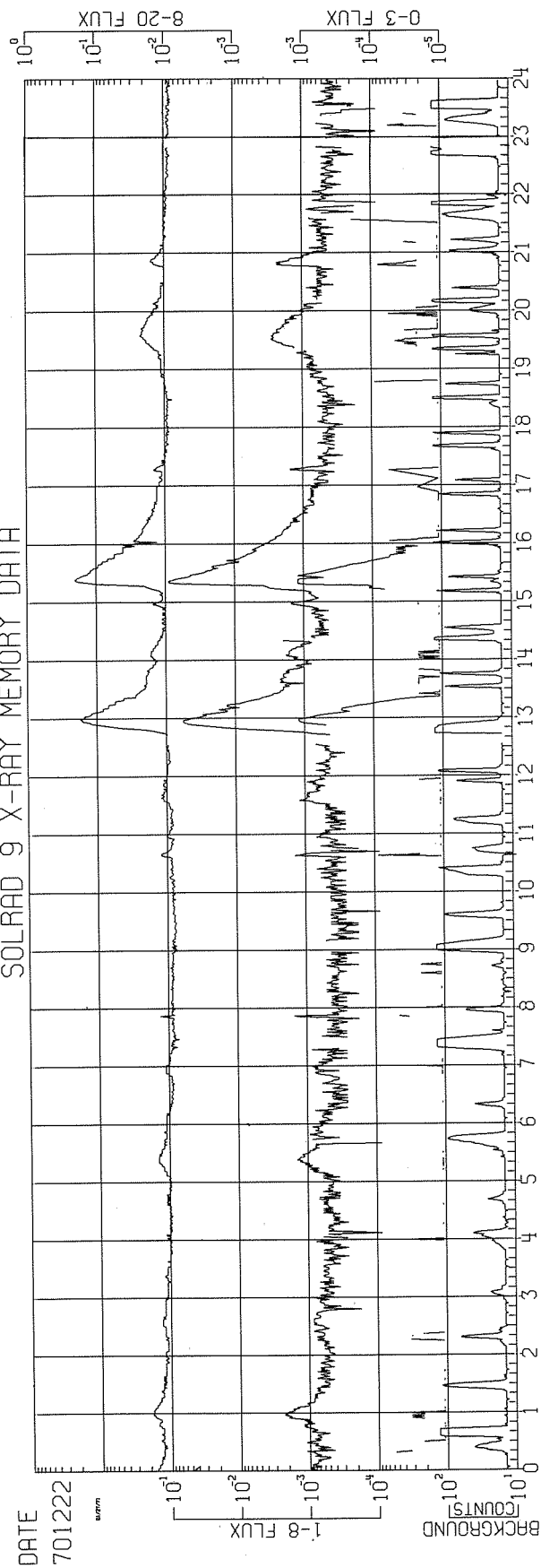
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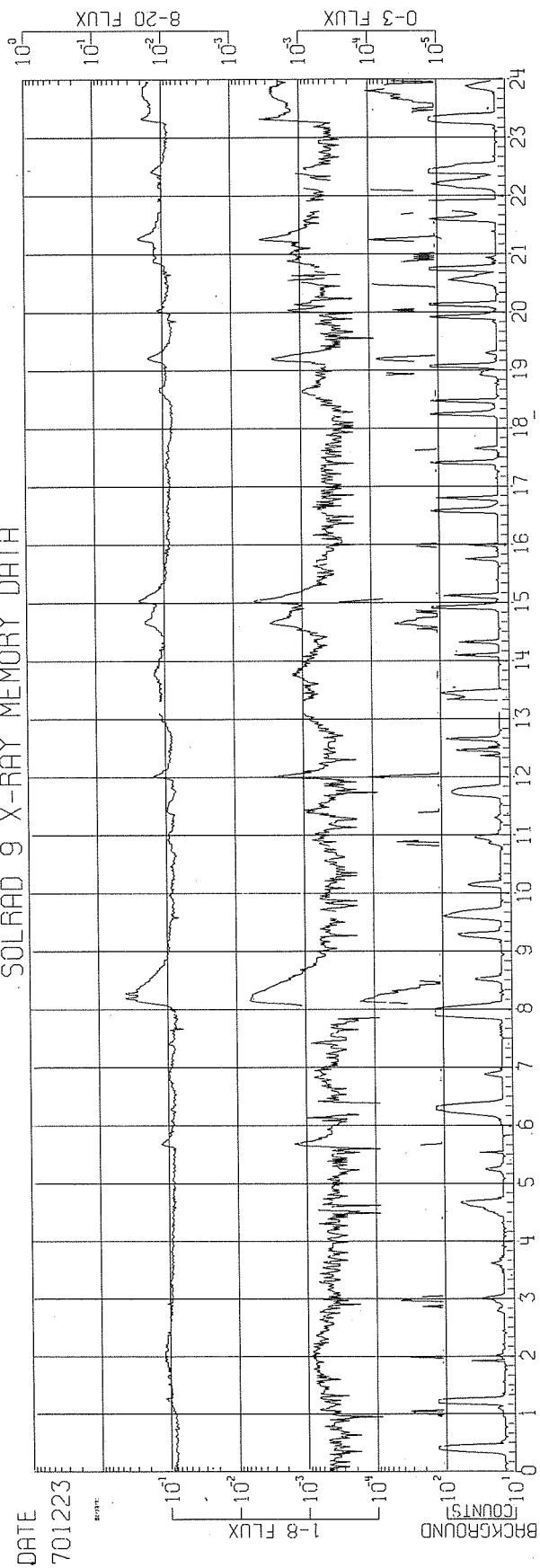
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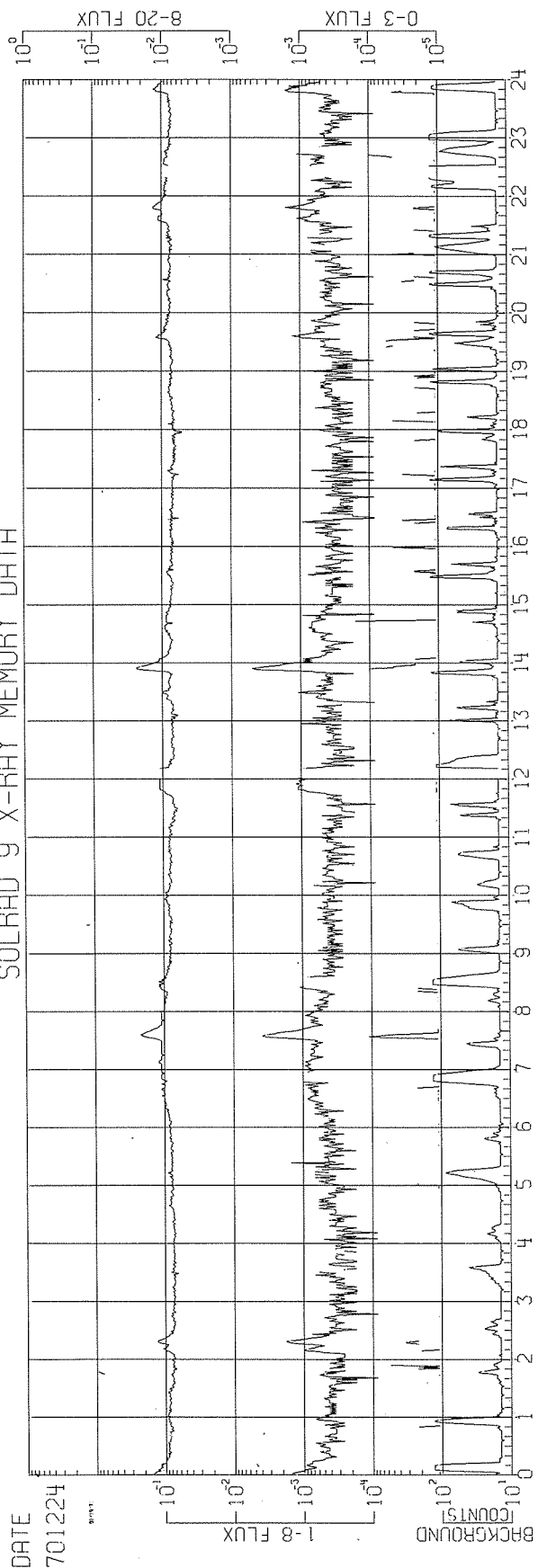
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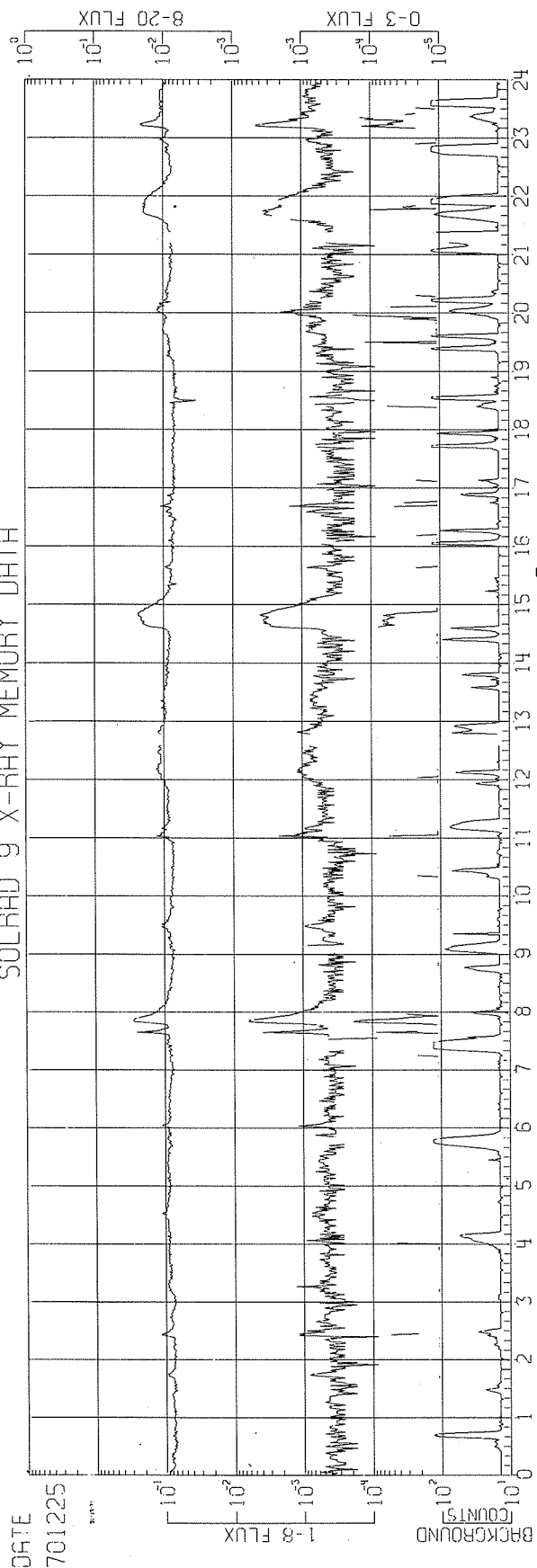
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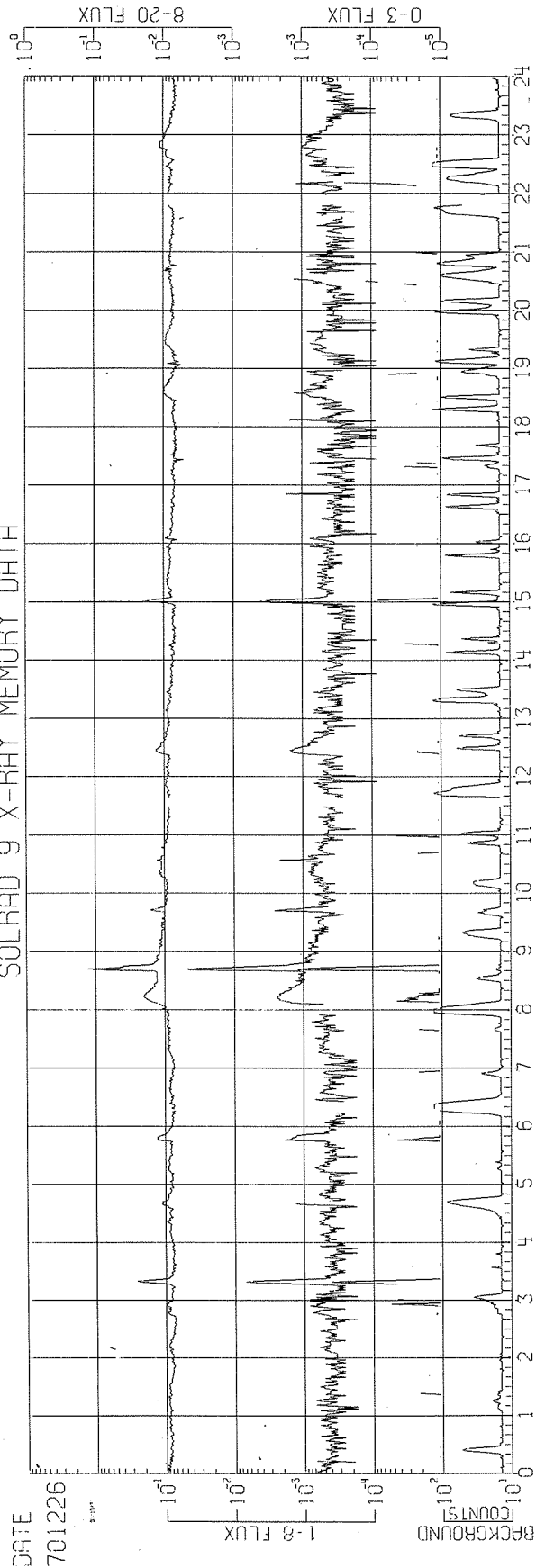
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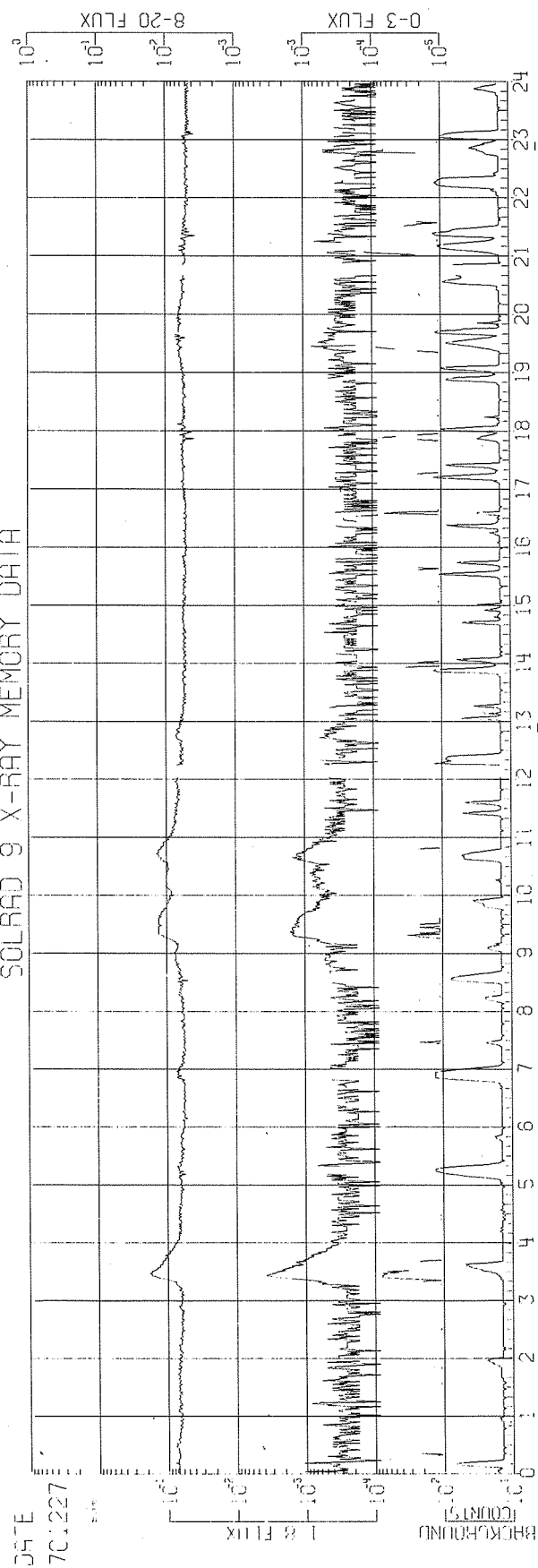
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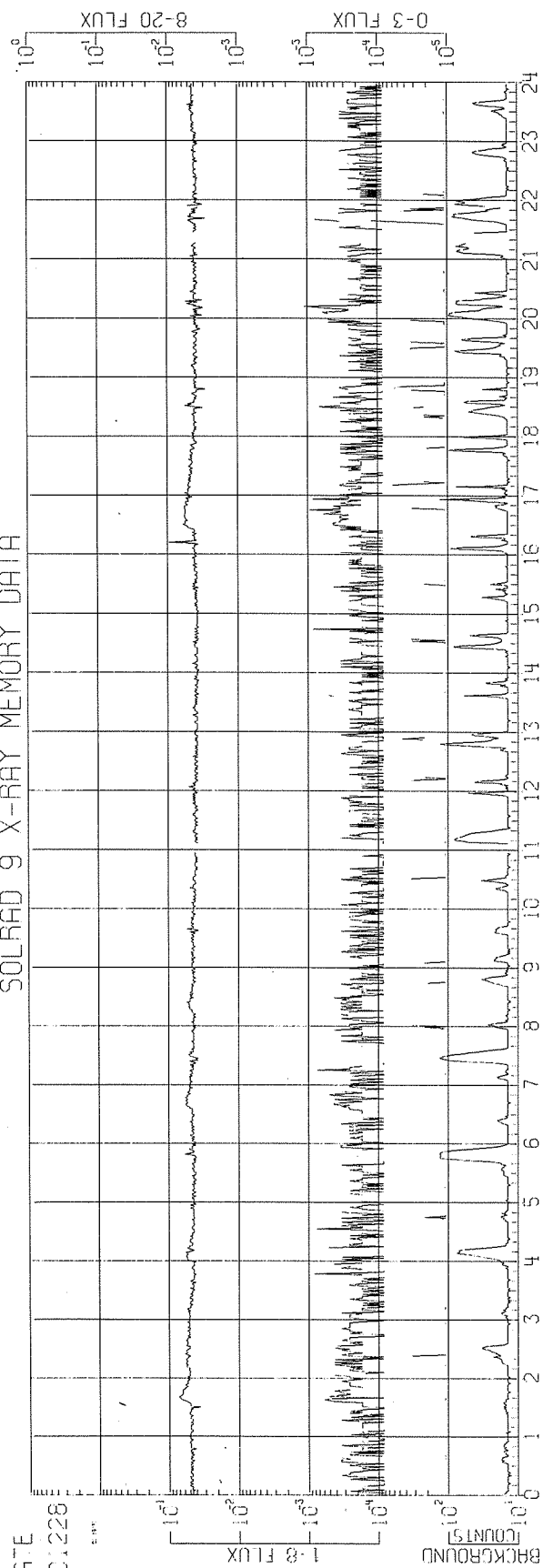
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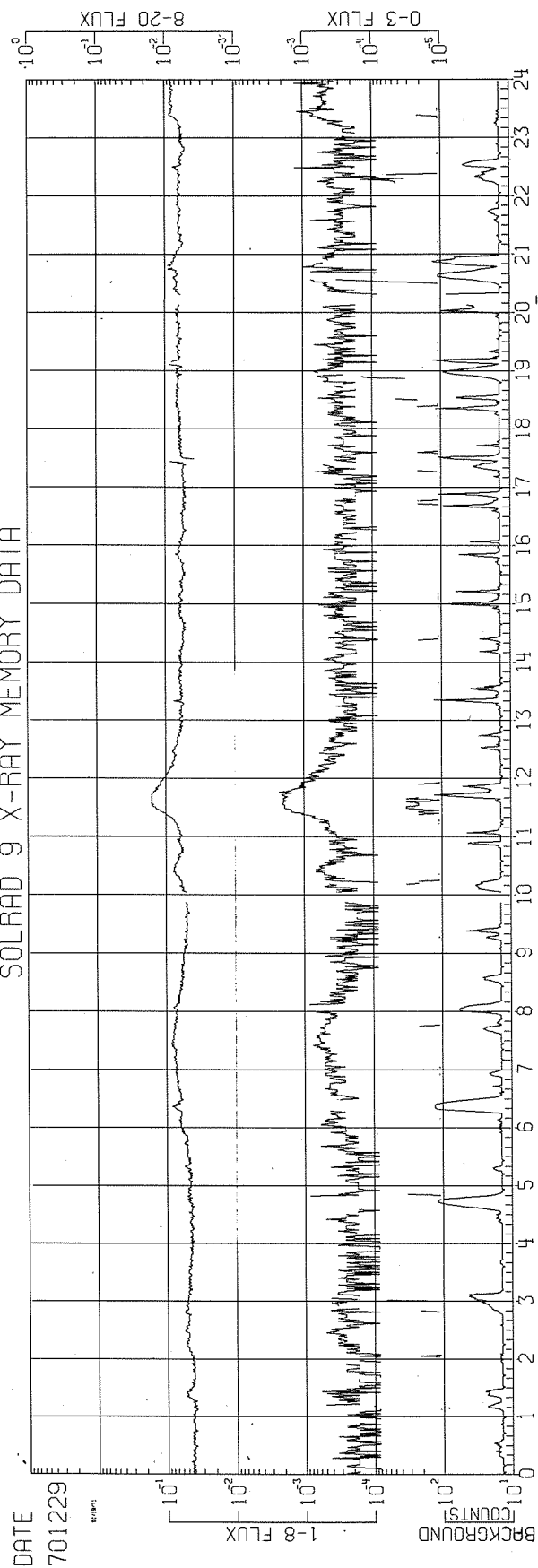
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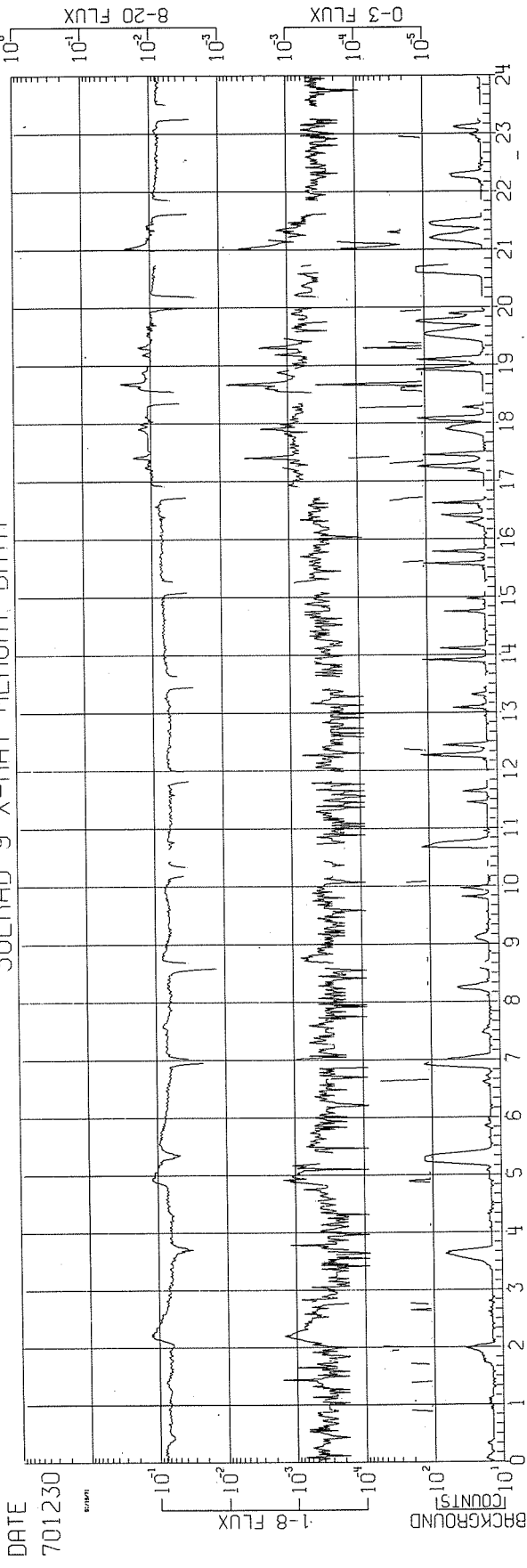
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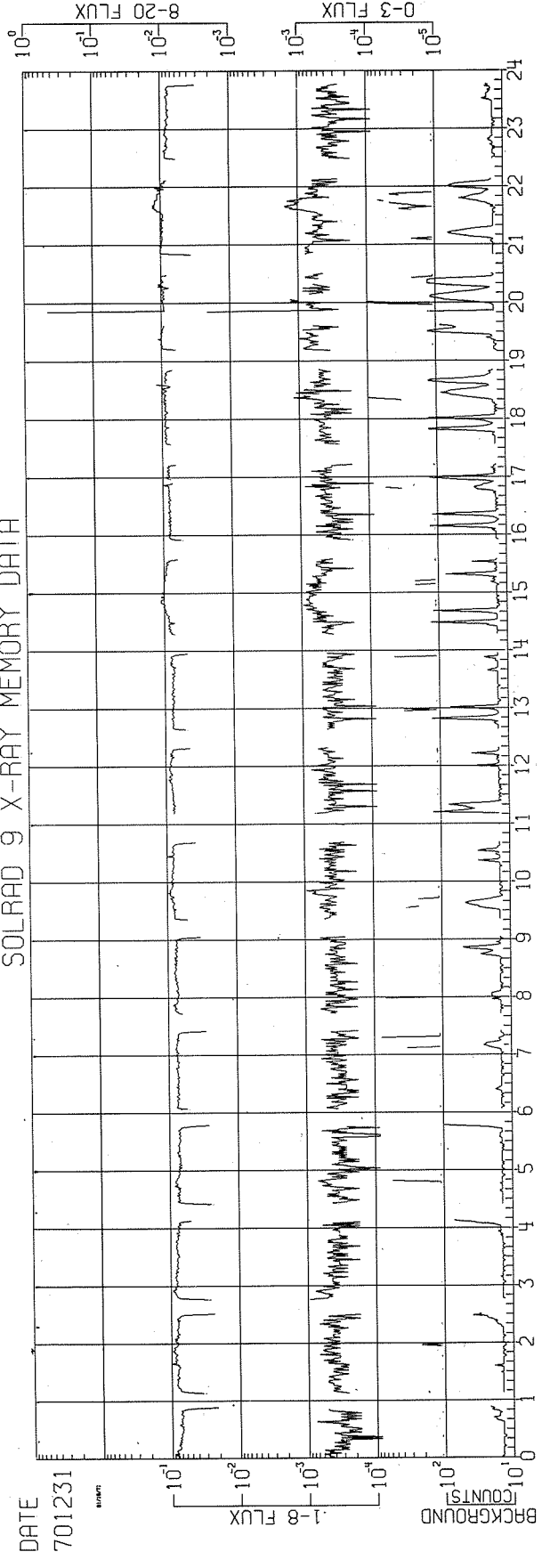
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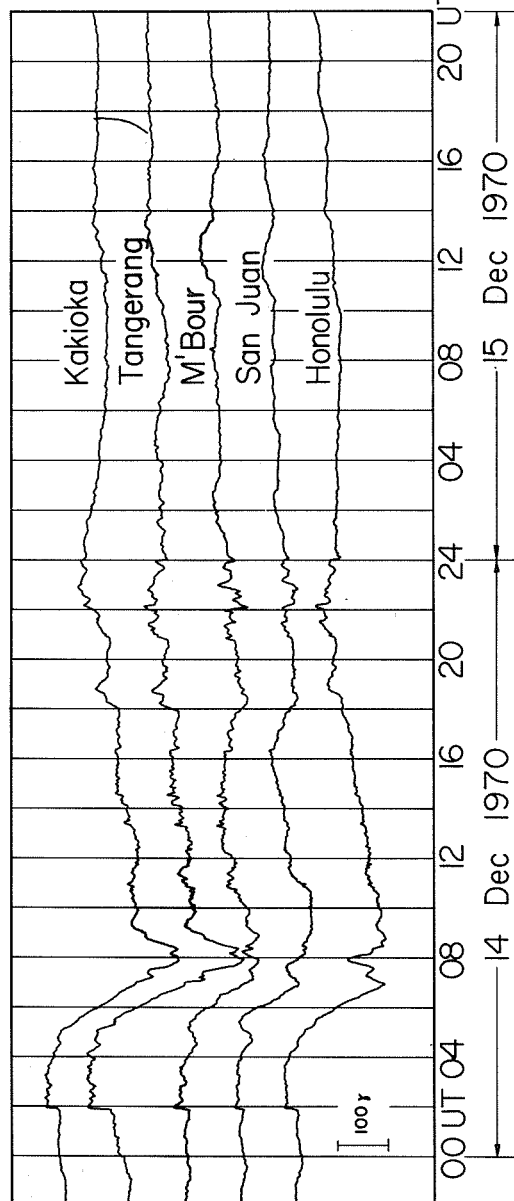
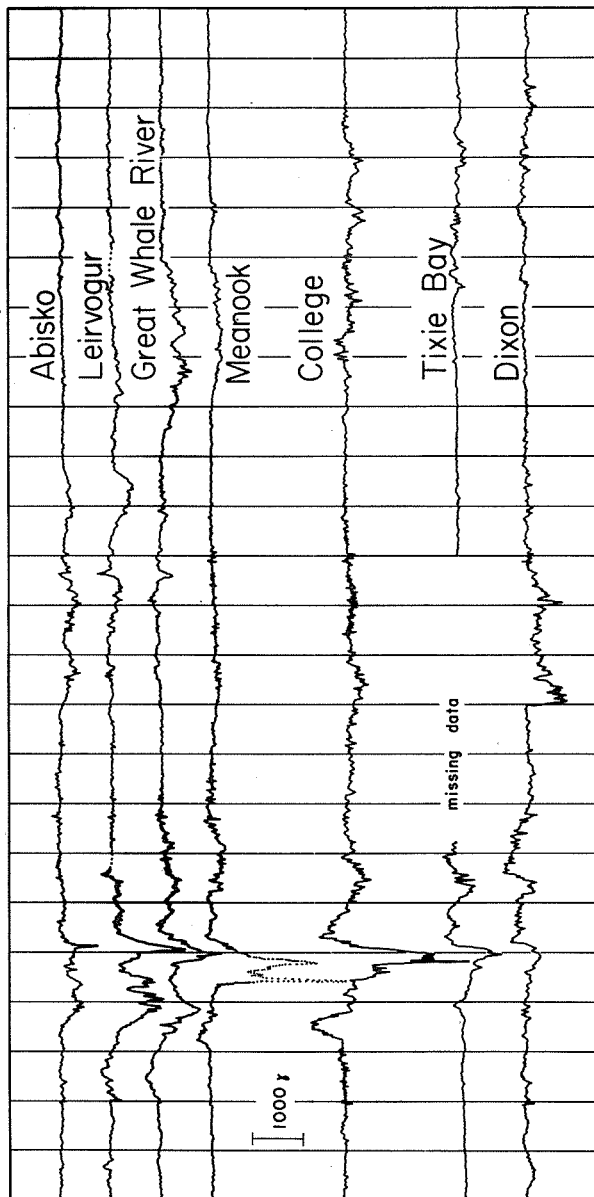
SOLRAD 9 X-RAY MEMORY DATA



MAGNETOGRAMS OF GEOMAGNETIC STORMS

14-15 DECEMBER 1970

LT = UT - X
X



-1
1
5
8
10
-9
-6
-9
-7
1
4
11

00 UT 04 08 12 16 20 UT
14 Dec 1970 15 Dec 1970

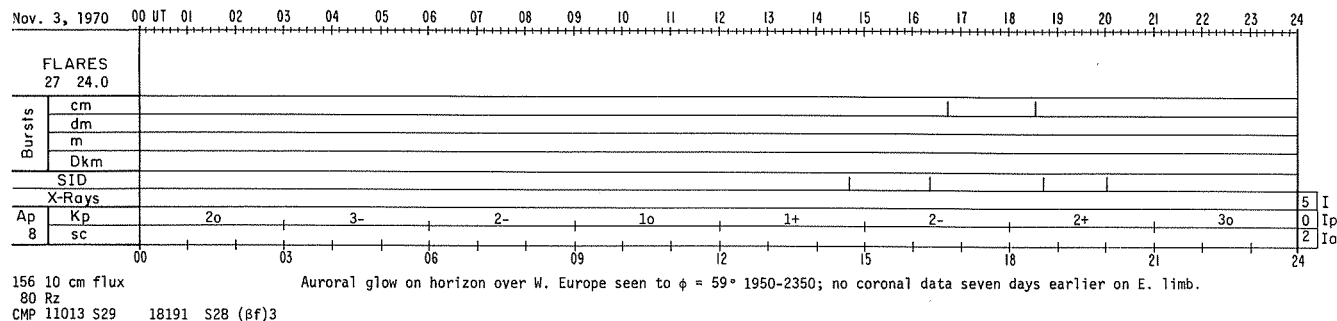
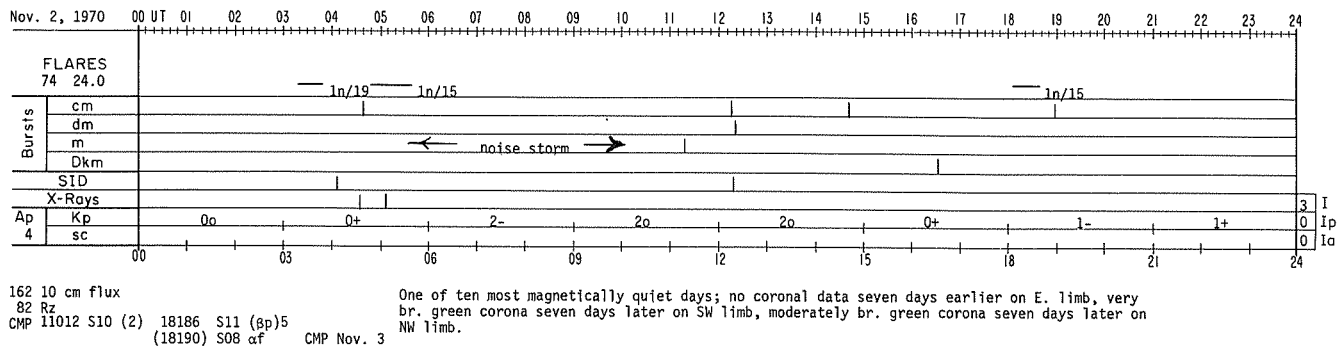
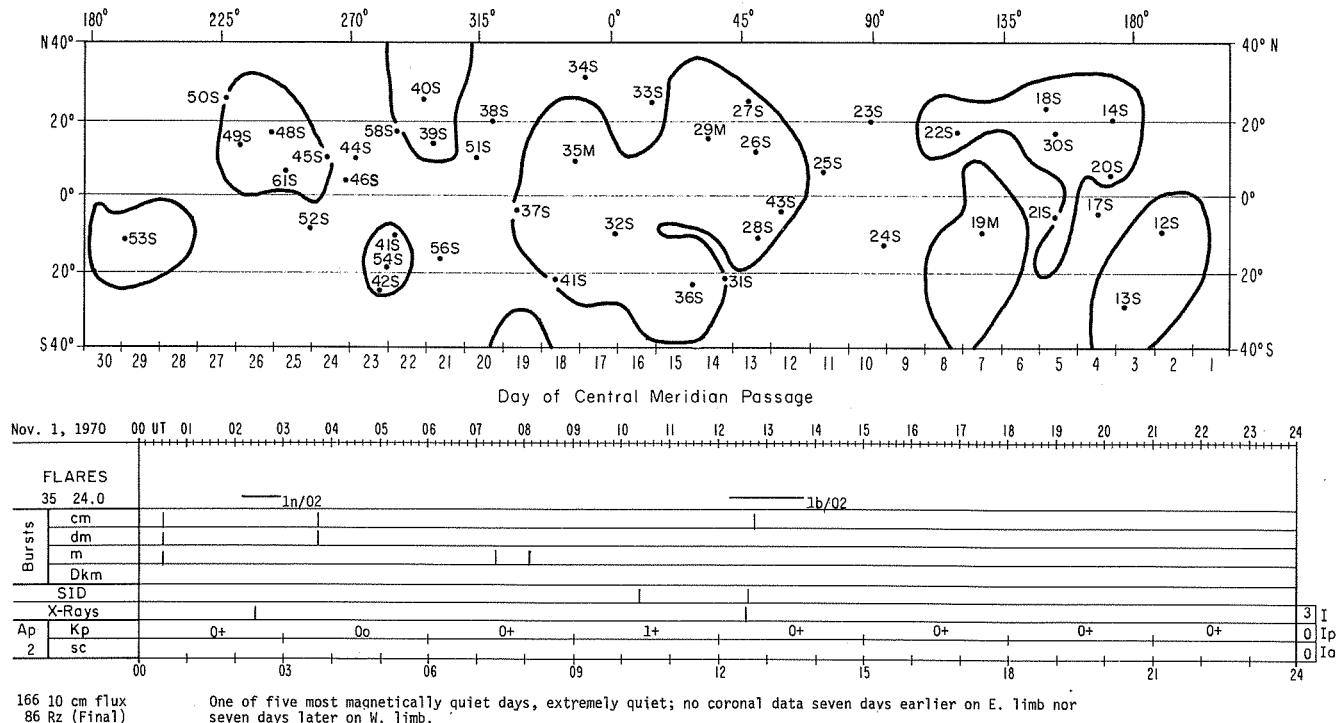
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for November 1970 Data

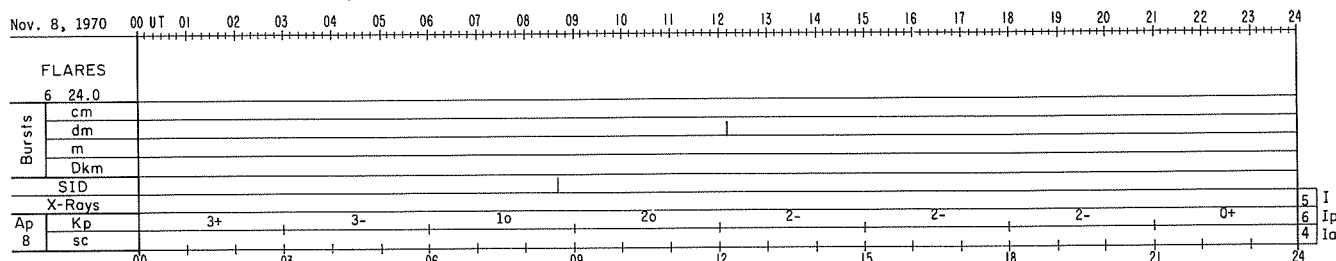
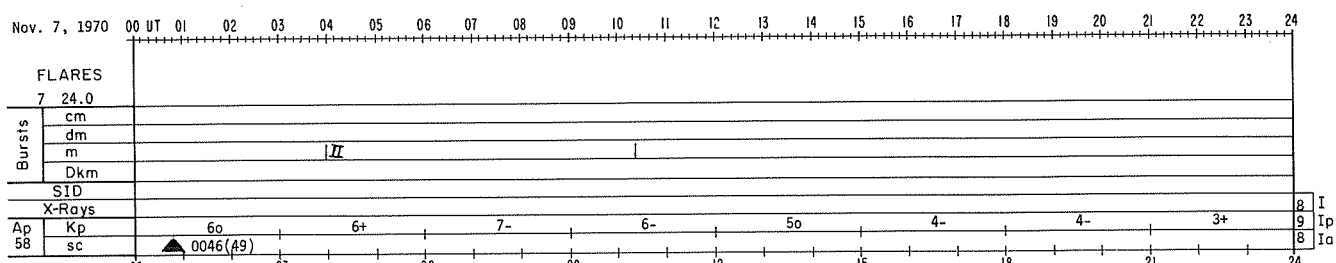
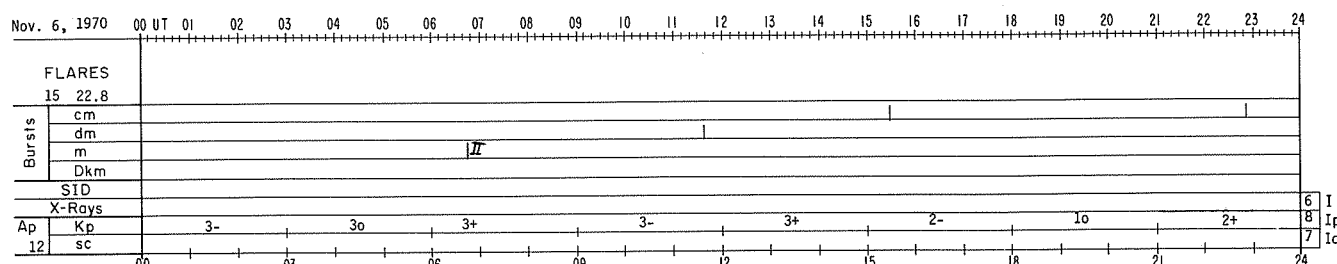
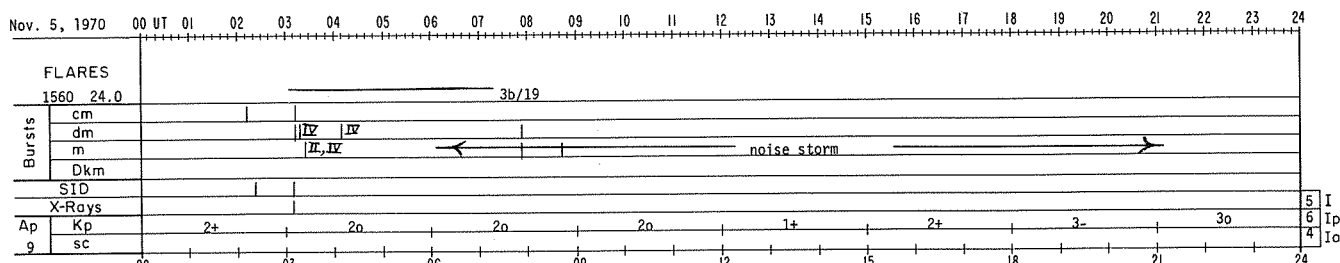
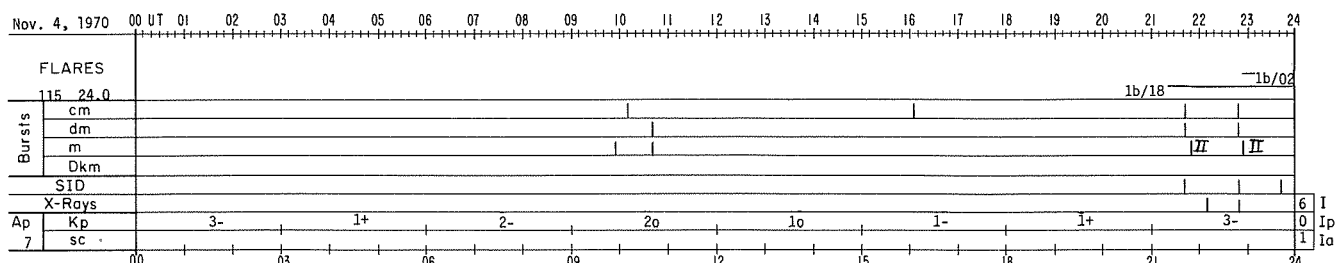
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<u>Abbreviated Calendar Record</u>	84-90
<u>Regional Flare Index</u>	91

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

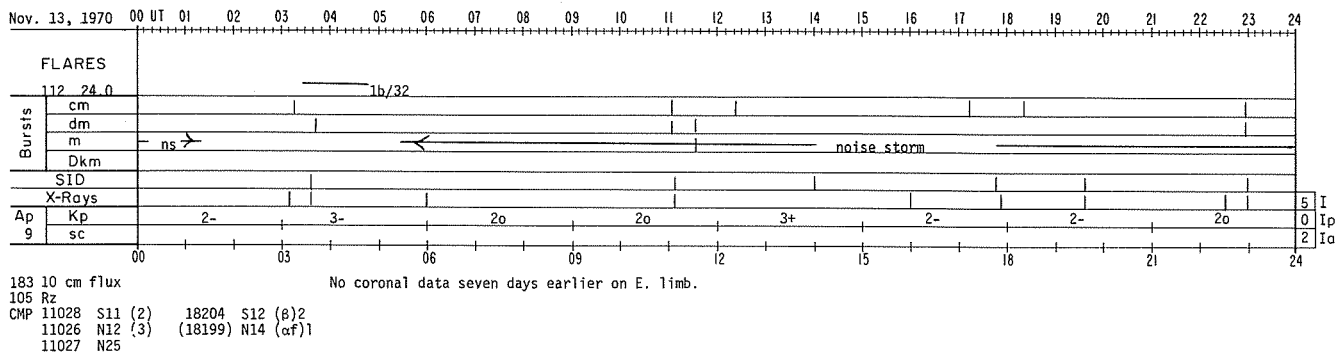
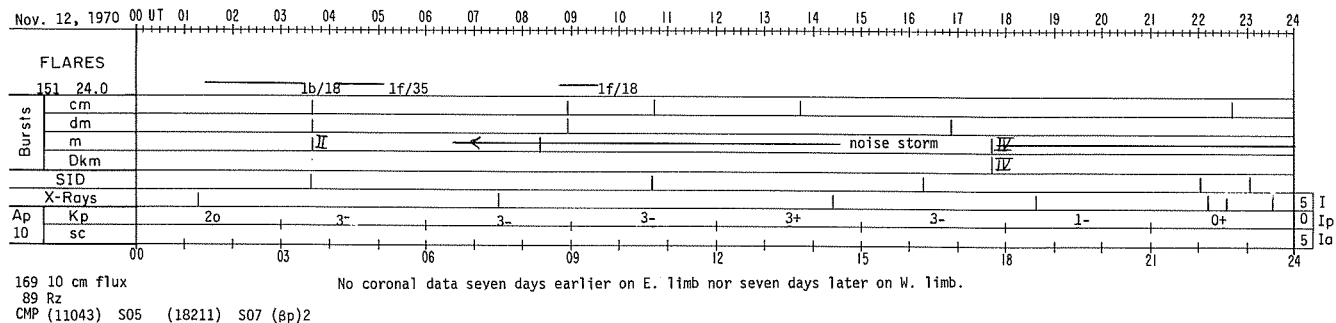
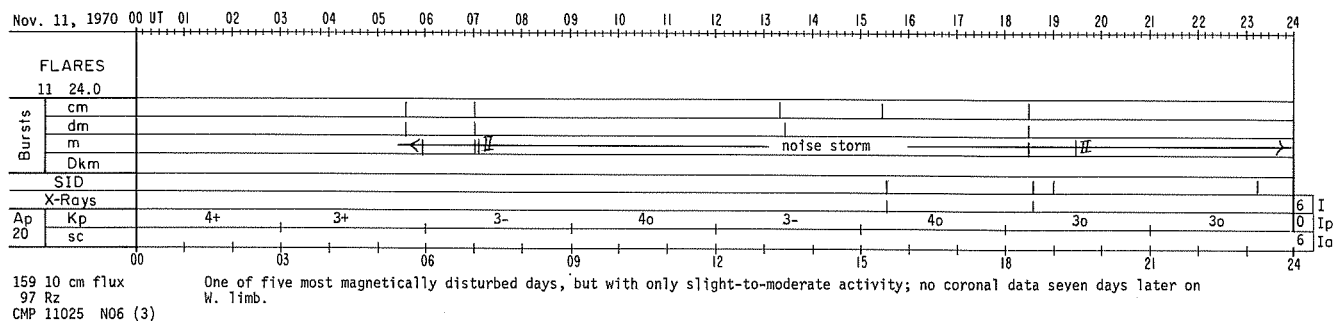
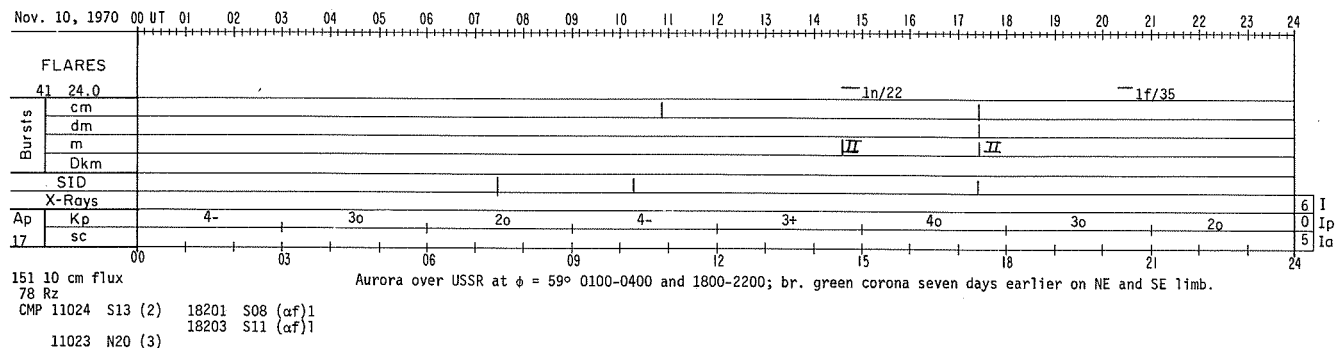
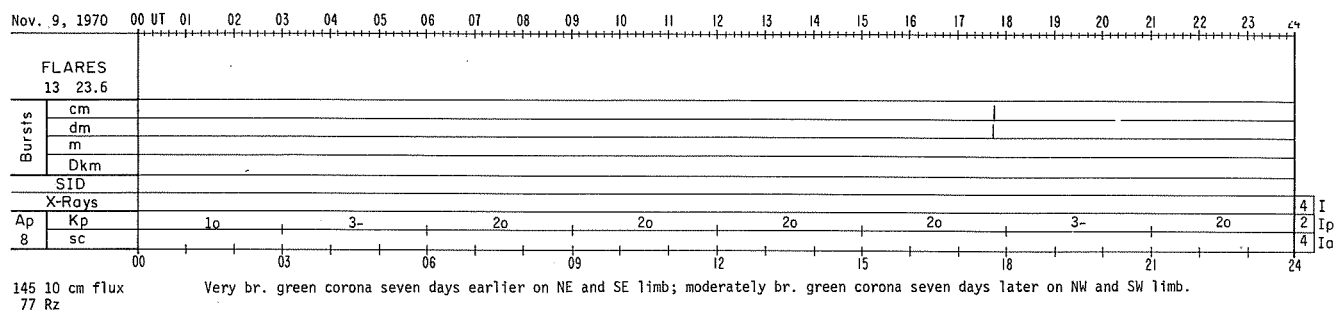
ABBREVIATED CALENDAR RECORD

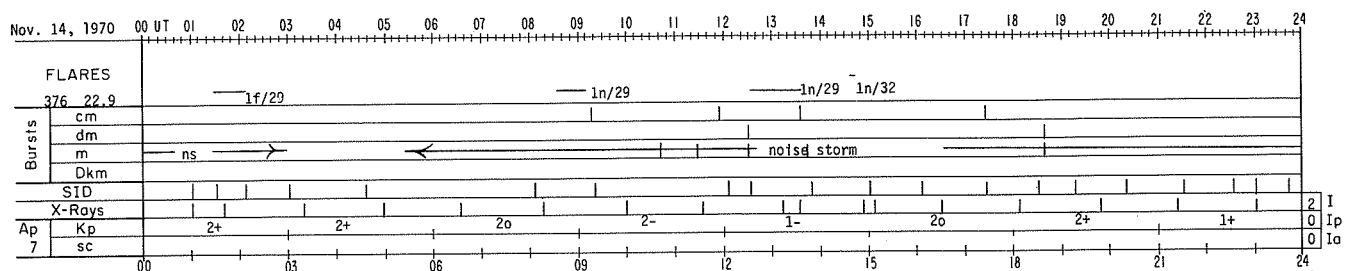
NOVEMBER 1970





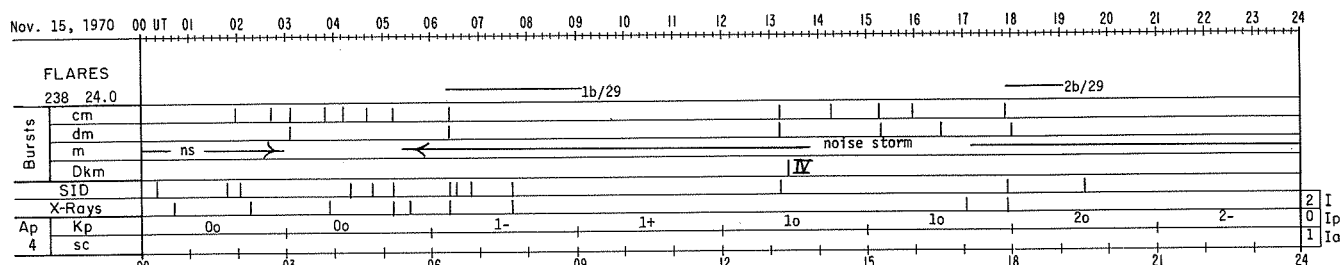
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Nov 70





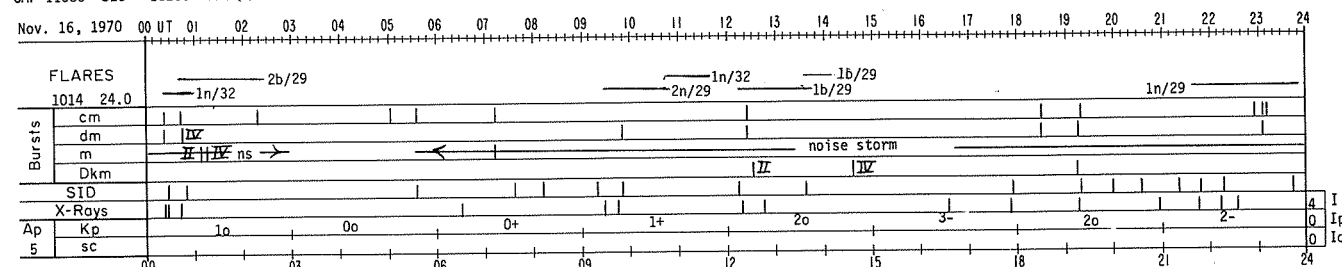
190 10 cm flux
117 Rz
CMP 11031 S21 11029 N15 18202 N13 8y

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



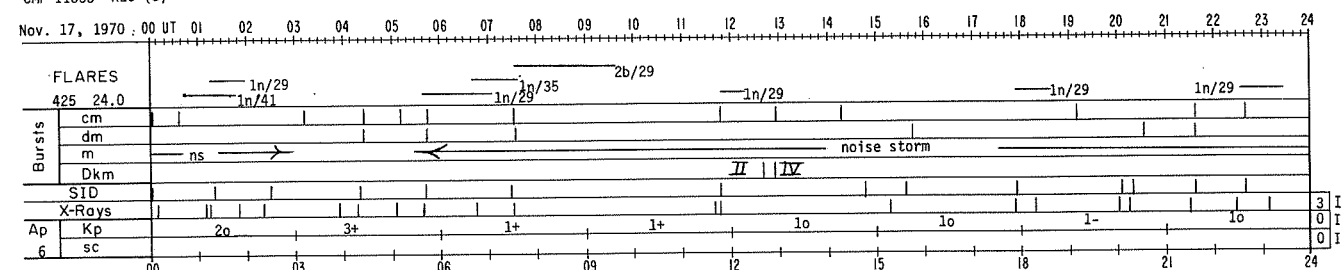
204 10 cm flux
125 Rz
CMP 11036 S23 18208 S21 8f CMP Nov. 14

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



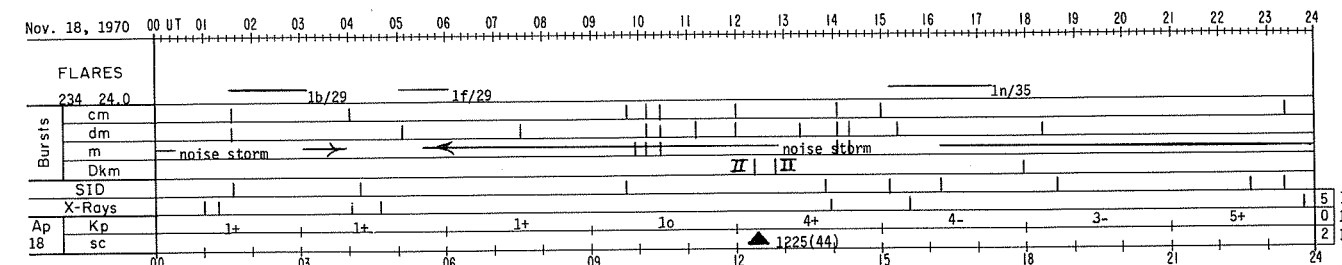
198 10 cm flux
133 Rz
CMP 11033 N25 (3)

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



188 10 cm flux
135 Rz
CMP 11032 S10 18205 S10 (8p)4 CMP Nov. 16 11034 N32

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

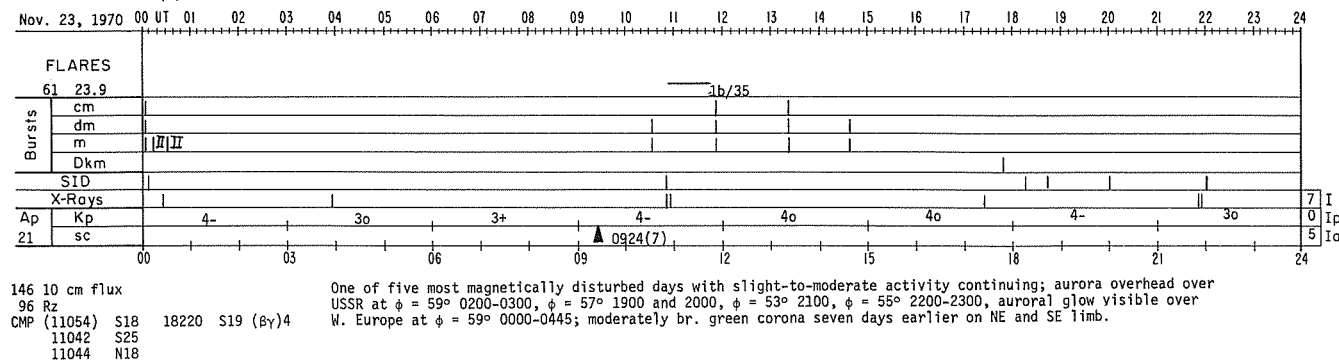
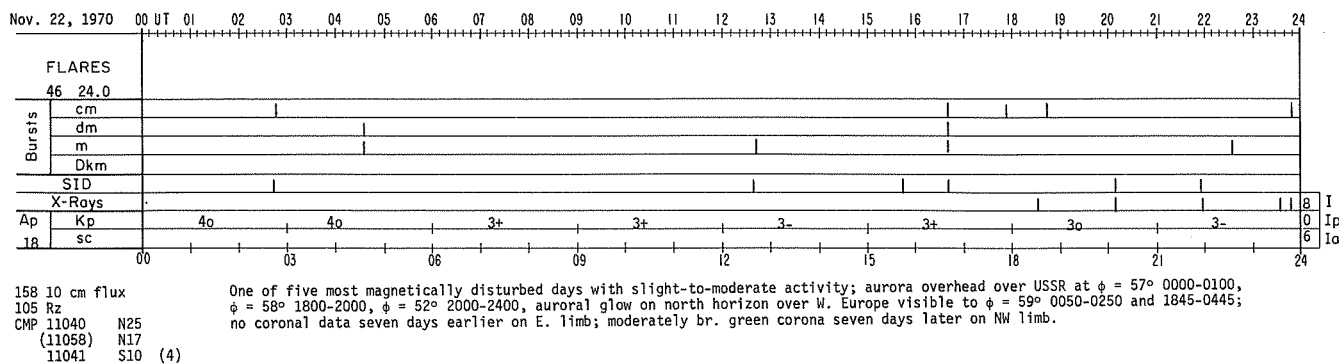
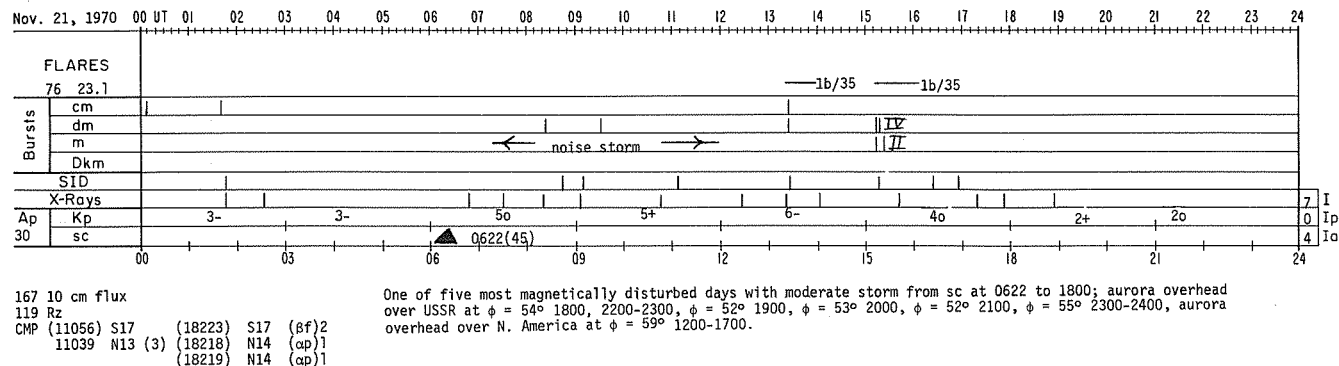
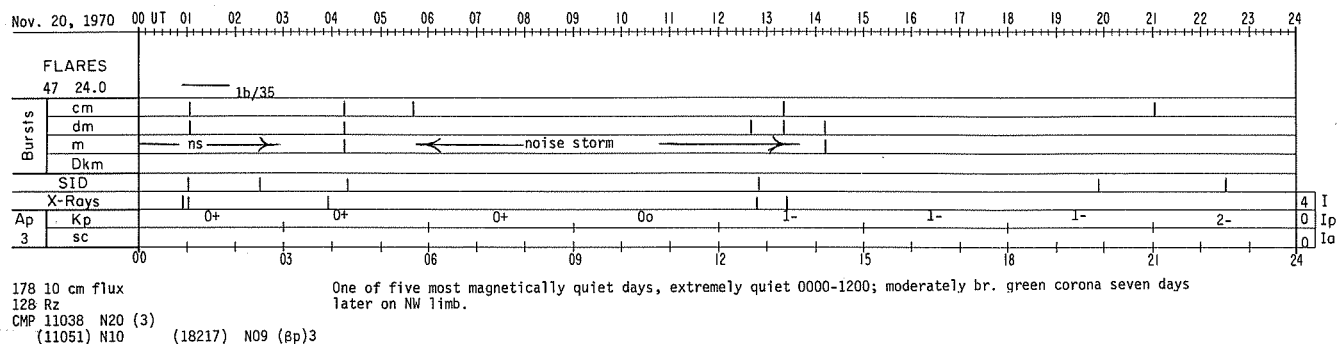
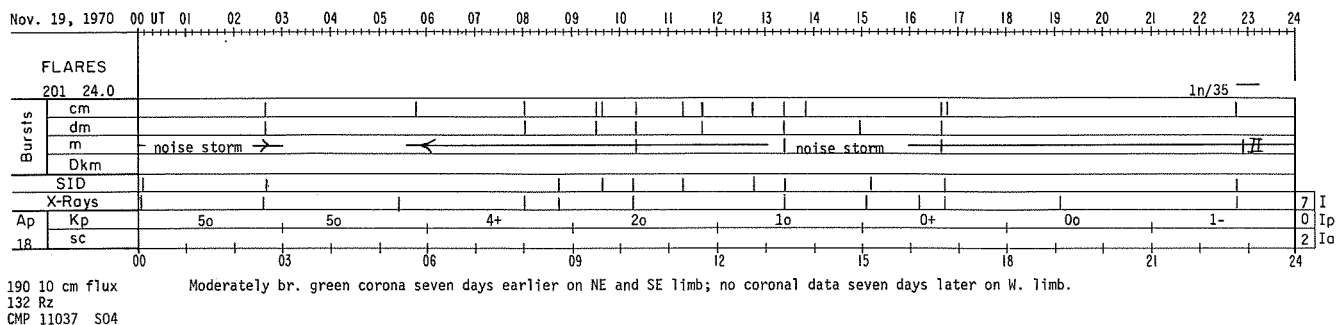


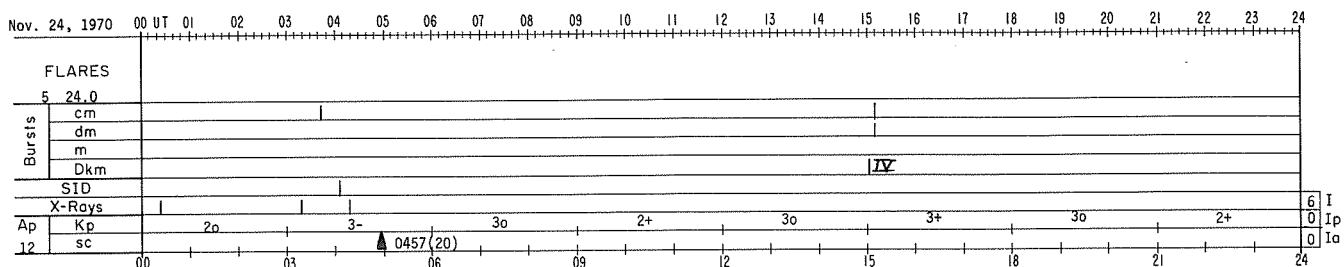
198 10 cm flux
135 Rz
CMP 11035 N09 (2) 18206 N08 (α)5 CMP Nov. 17 (18207) N02 (αp)2 18209 N14 (8p)3 CMP Nov. 17 18210 N04 (δ)5 18213 N09 (8p)4

(11047) S22

Aurora overhead over USSR at $\phi = 57^\circ$ 2100-2200; rayed auroral arc over W. Europe, base overhead at $\phi = 65^\circ$ 2245-2255 with rays visible to $\phi = 56^\circ$ over W. Atlantic (cloud hindered observation); br. green corona seven days later on NW limb and moderately br. green corona seven days later on SW limb.

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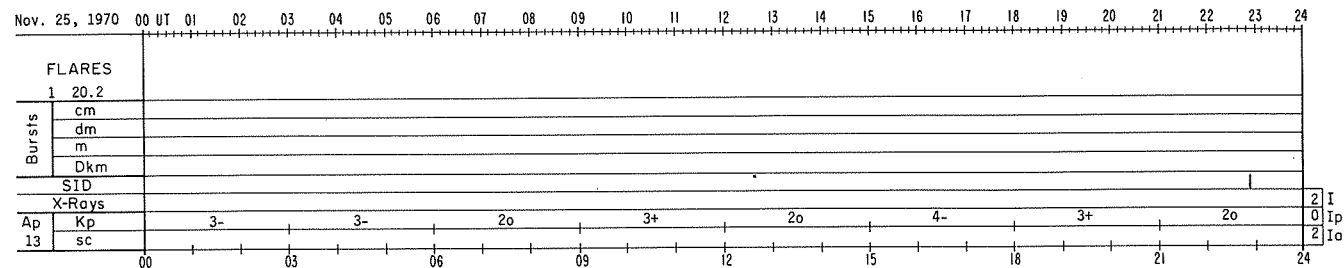


138 10 cm flux

77 Rz

CMP 11046 N04 (2) 18212 N03 (ap)4

11045 N10 (7) 18214 N10 (ap)6

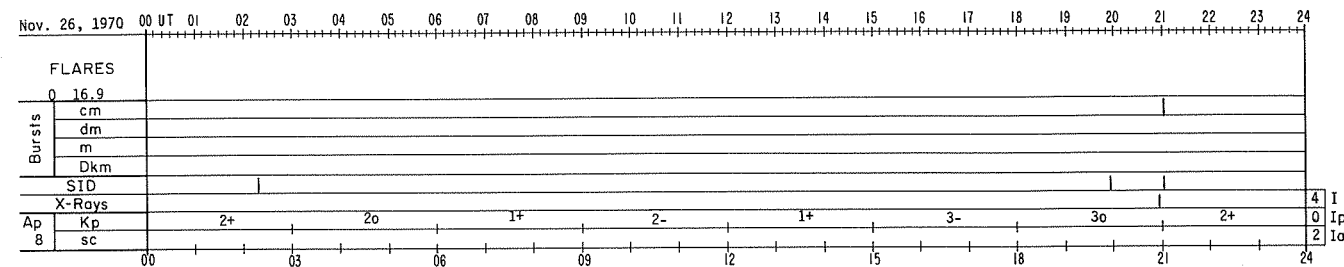
Aurora overhead over USSR at $\phi = 58^\circ$ 2000-2200 and $\phi = 57^\circ$ 2300; no coronal data seven days later on W. limb.

131 10 cm flux

62 Rz

CMP 11052 S09 (3)

(11061) N07

Aurora overhead over USSR at $\phi = 57^\circ$ 0000-0100; $\phi = 58^\circ$ 0300 and 2300, $\phi = 59^\circ$ 0400 and 2200-2400, $\phi = 60^\circ$ 1900-2100; no coronal data seven days earlier on E. limb nor seven days later on W. limb.

133 10 cm flux

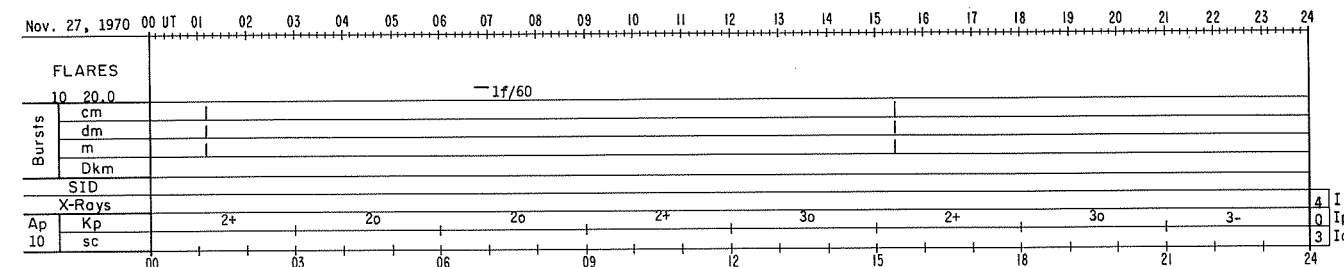
65 Rz

CMP 11048 N17 (7) 18215 N17 (ap)6

18222 N15 (B)4

CMP Nov. 25

11049 N13

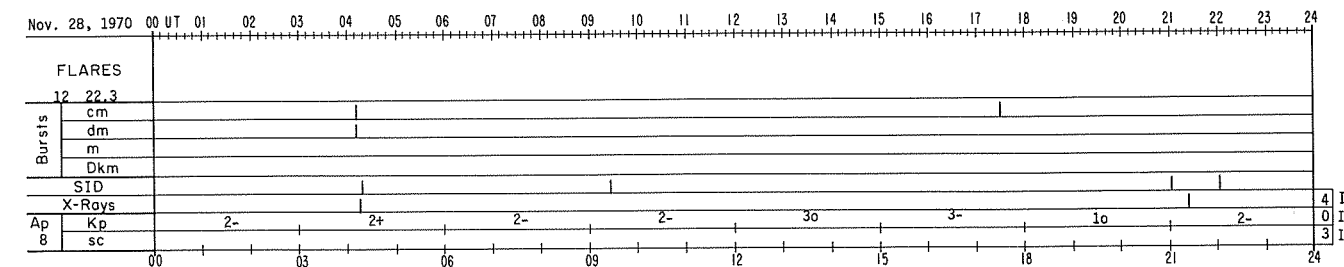
(18216) N11 α Aurora overhead over USSR at $\phi = 58^\circ$ 0000 and 0100; no coronal data seven days earlier on E. limb nor seven days later on W. limb.

139 10 cm flux

74 Rz

CMP 11050 N26 (7)

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

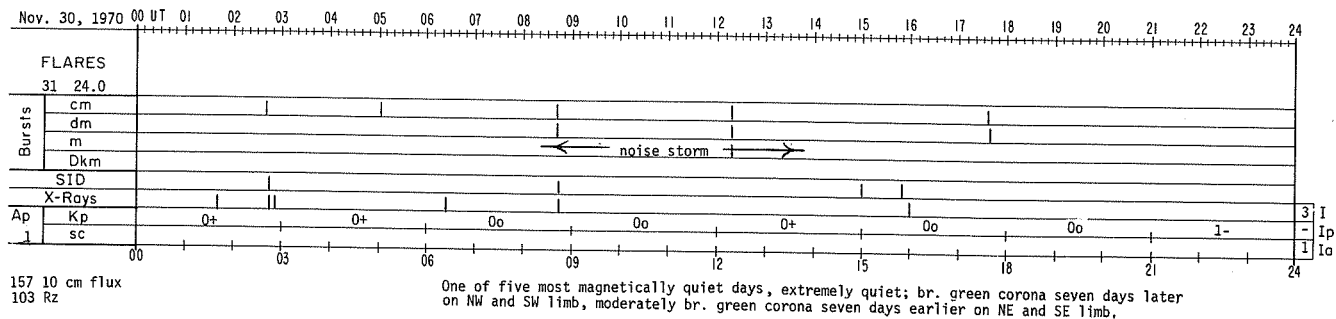
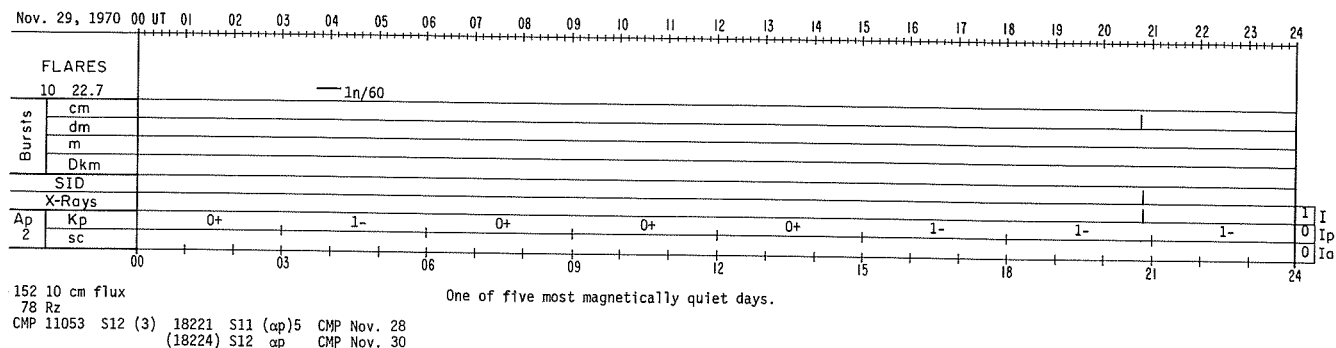


153 10 cm flux

89 Rz

No coronal data seven days later on W. limb.

90
Nov 70



REGIONAL FLARE INDEX

NOVEMBER 1970

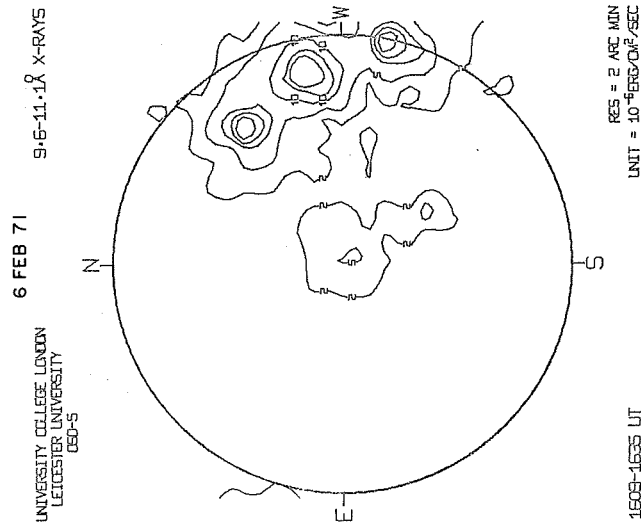
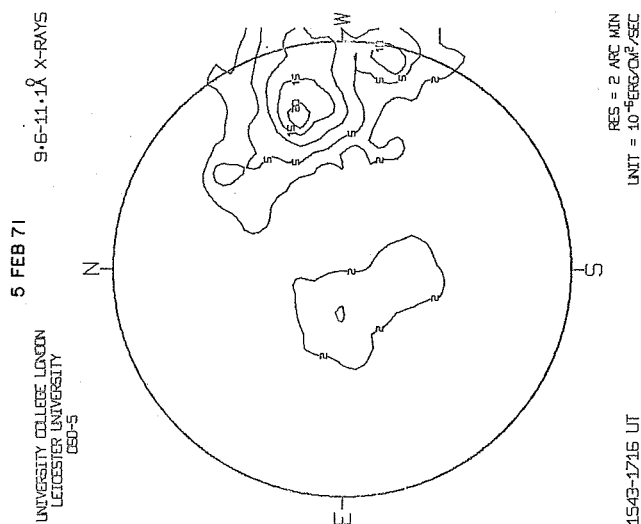
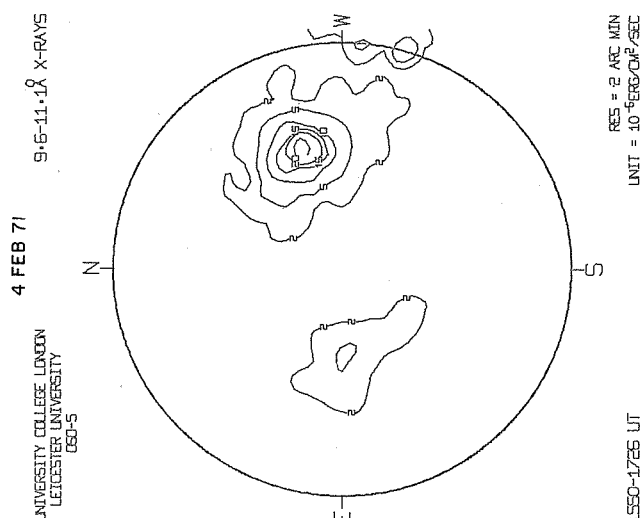
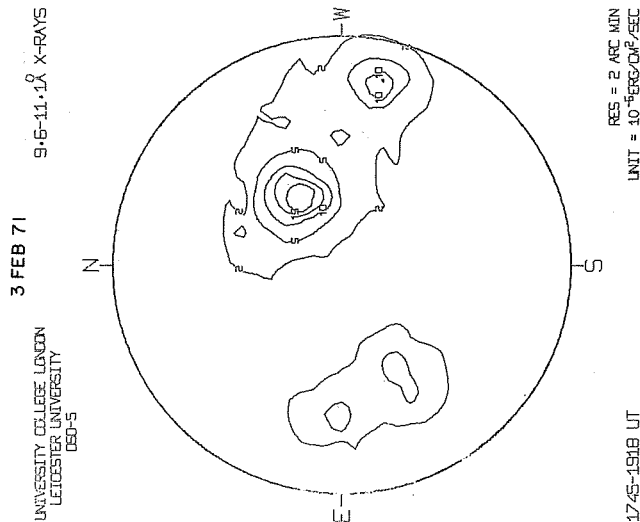
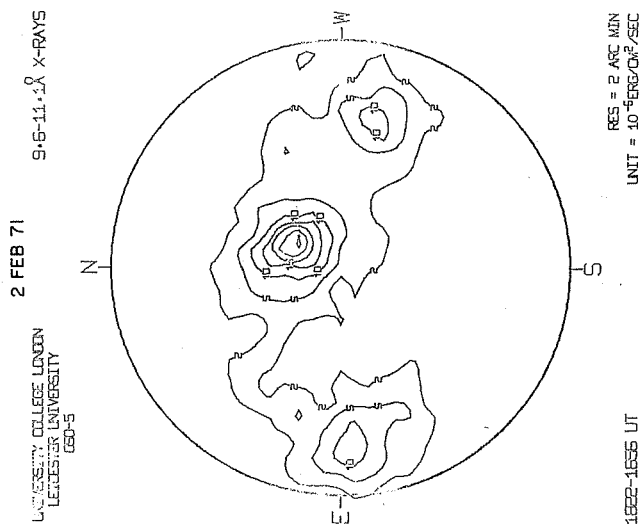
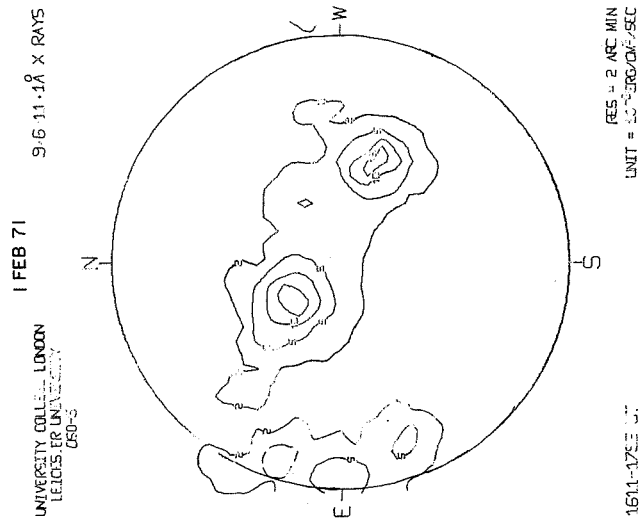
MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
11012	S10	70/11/02.3	70/10/26	70/11/08	68.06	4.86	13
11014	N18	70/11/02.9	70/10/27	70/11/03	10.99	1.37	3
11013	S27	70/11/03.5	70/11/06	70/11/06	8.67	8.67	1
11018	N16	70/11/05.8	70/11/03	70/11/12	288.72	28.87	13
11022	N19	70/11/07.6	70/11/10	70/11/10	28.16	28.16	1
11019	S11	70/11/08.0	70/11/02	70/11/06	2652.24	530.45	15
11026	N16	70/11/13.5	70/11/06	70/11/14	71.75	7.37	7
11029	N16	70/11/14.8	70/11/09	70/11/20	2747.93	228.99	60
11032	S10	70/11/17.0	70/11/13	70/11/18	183.47	30.58	9
11035	N 8	70/11/17.8	70/11/10	70/11/24	663.84	44.26	55
11041	S11	70/11/22.9	70/11/17	70/11/17	8.12	8.12	1
11045	N10	70/11/24.6	70/11/18	70/11/23	24.81	4.14	3
11061	N 7	70/11/25.8	70/12/01	70/12/01	1.07	1.07	1
11053	S12	70/11/29.9	70/11/25	70/12/02	26.07	3.26	3

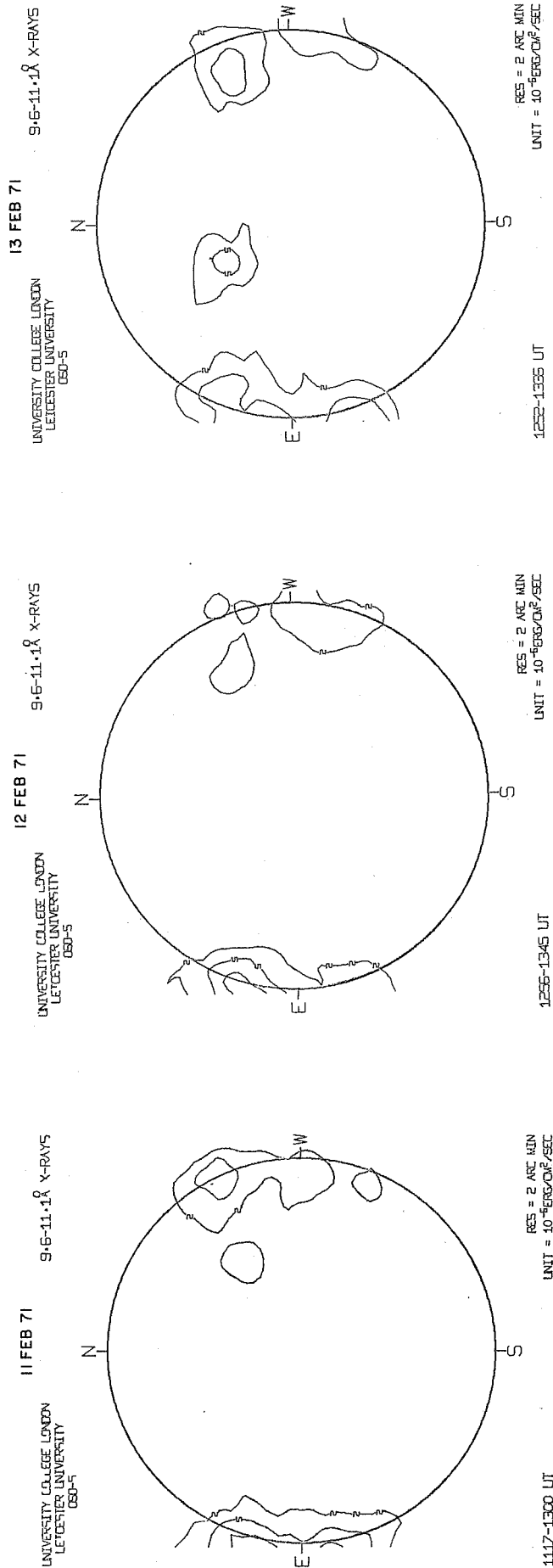
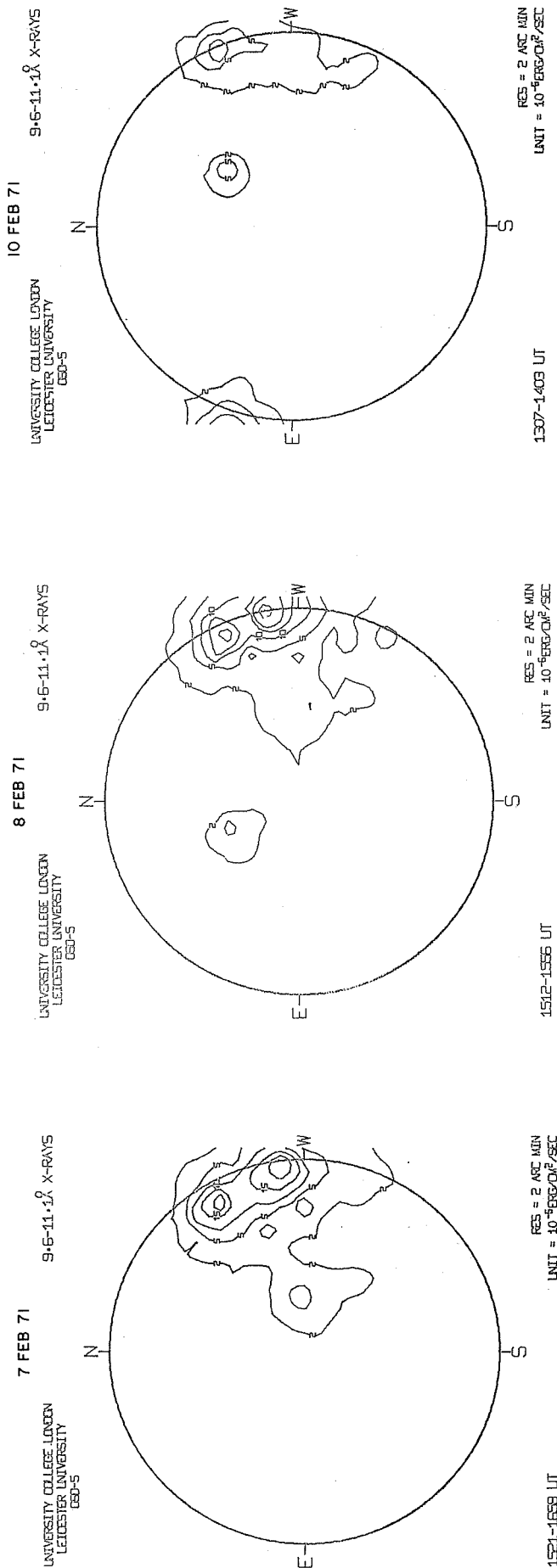
Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no confirmed flares during its disk passage.

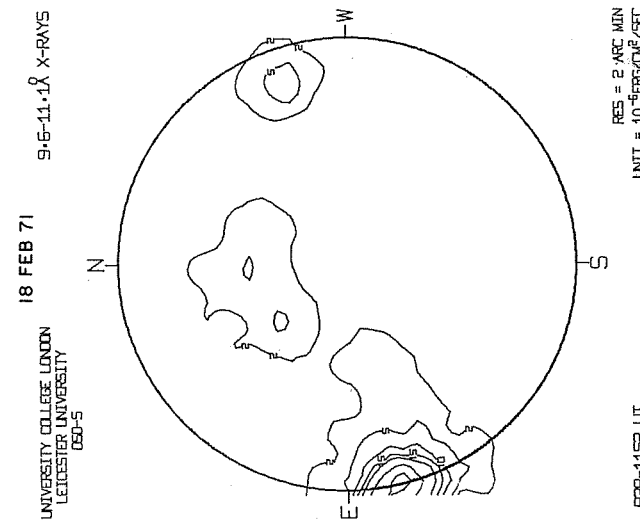
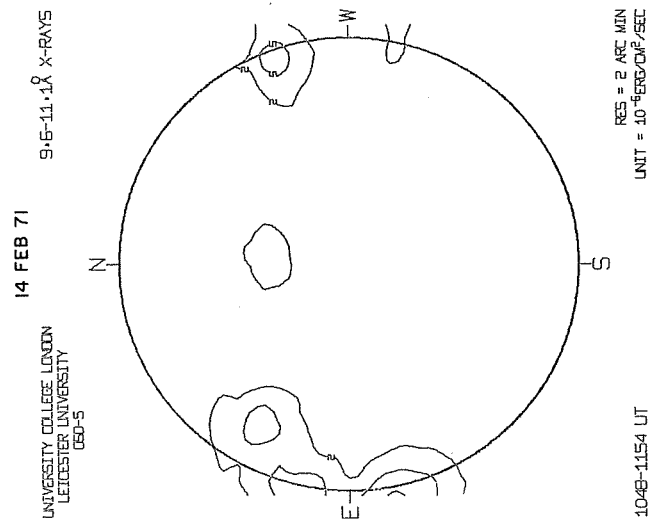
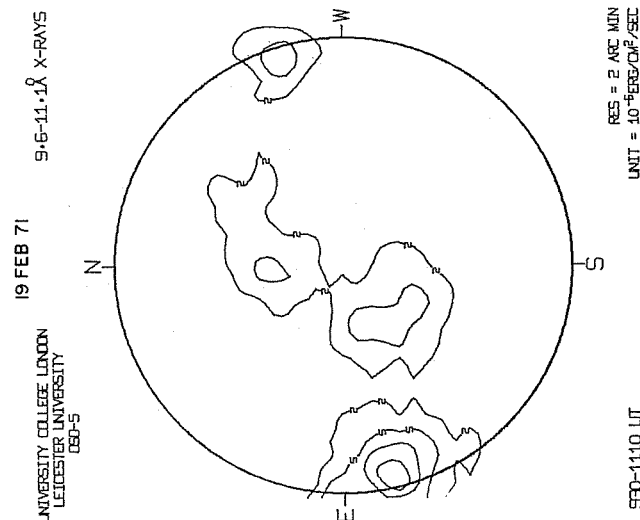
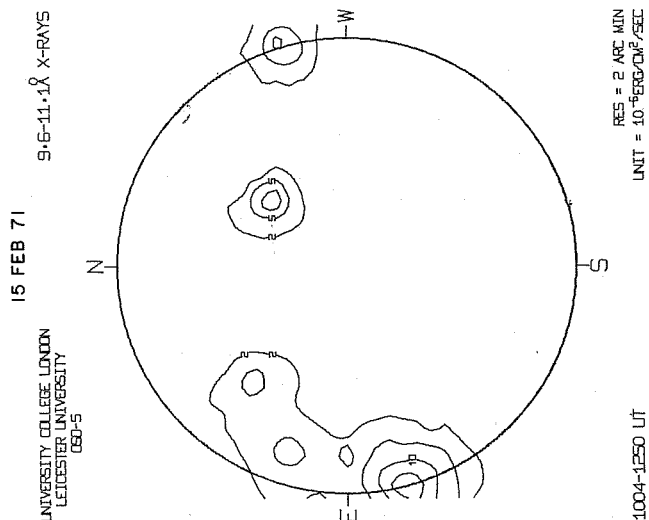
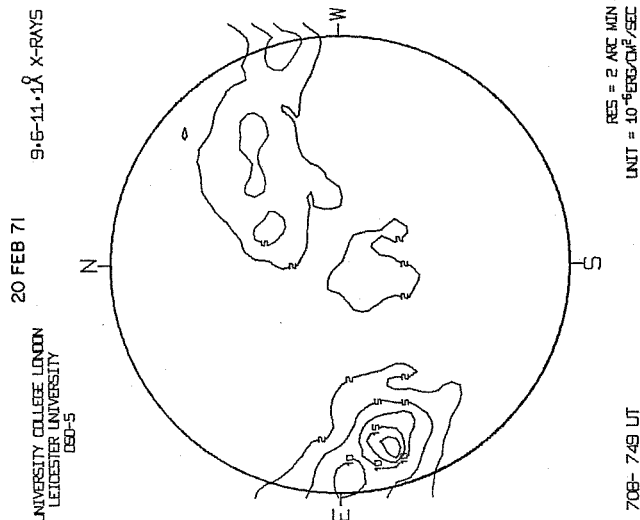
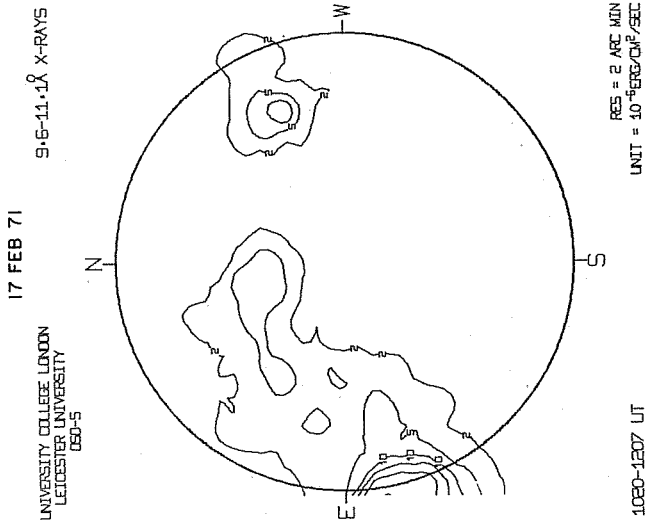
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For explanations of the data contained herein see "Descriptive Text"
published in February 1971.

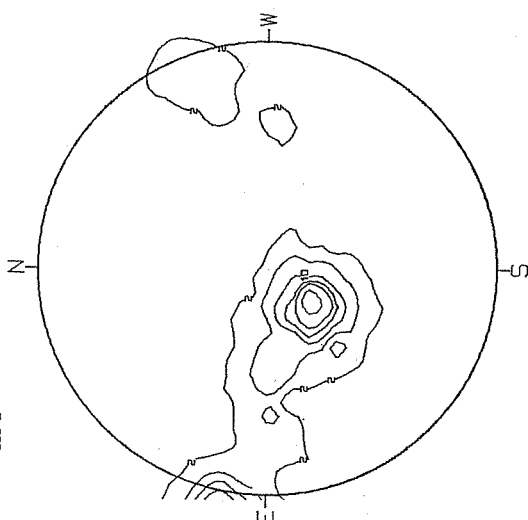






23 FEB 71
UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
080-5

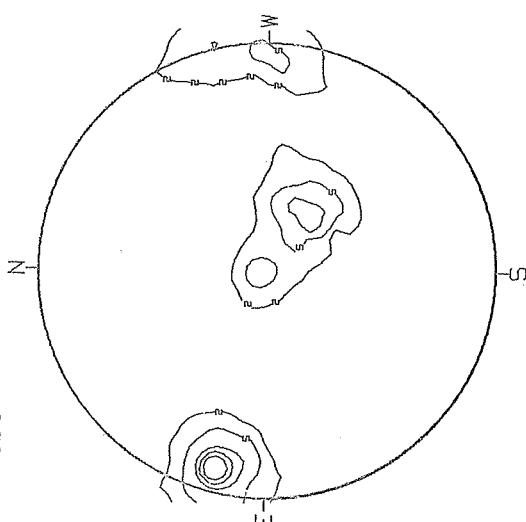
9.6-11.1 Å X-RAYS



RES = 2 ARC MIN
UNIT = 10^{-6} ERG/CM²/SEC
500- 723 UT

25 FEB 71
UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
080-5

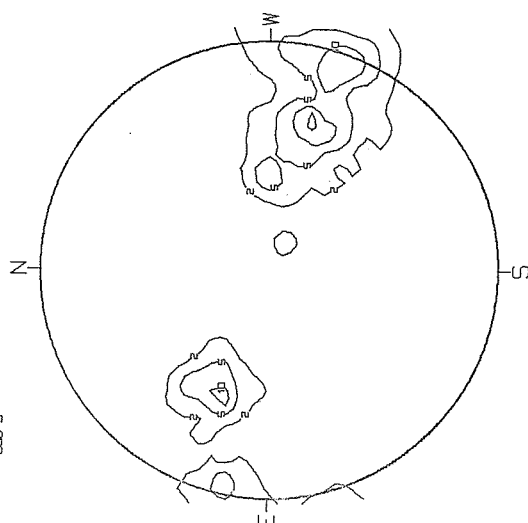
9.6-11.1 Å X-RAYS



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UNIT = 10^{-6} ERG/CM²/SEC
542- 706 UT

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UNIVERSITY COLLEGE LONDON
LEICESTER UNIVERSITY
080-5

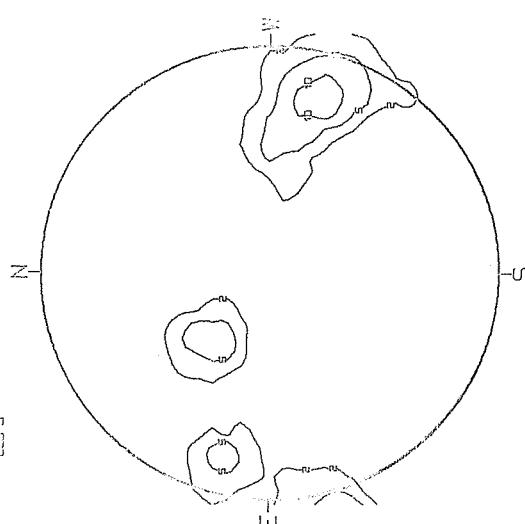
9.6-11.1 Å X-RAYS



RES = 2 ARC MIN
UNIT = 10^{-6} ERG/CM²/SEC
332- 440 UT

28 FEB 71
UNIVERSITY COLLEGE LONDON
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080-5

9.6-11.1 Å X-RAYS



RES = 2 ARC MIN
UNIT = 10^{-6} ERG/CM²/SEC
221- 503 UT

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