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Solar - Geophysical Data

NO. 390 FEBRUARY 1977

Part II (Comprehensive Reports)

DATA FOR
AUGUST 1976
JULY 1976
& MISCELLANEA

**NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO**

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SOLAR - GEOPHYSICAL DATA

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No. 390

Issued in two parts

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F.1f Cosmic Ray Neutron Counts (Calgary)	386A 99	387A103	388A103	389A 97	390A106	
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ACTIVE REGIONS

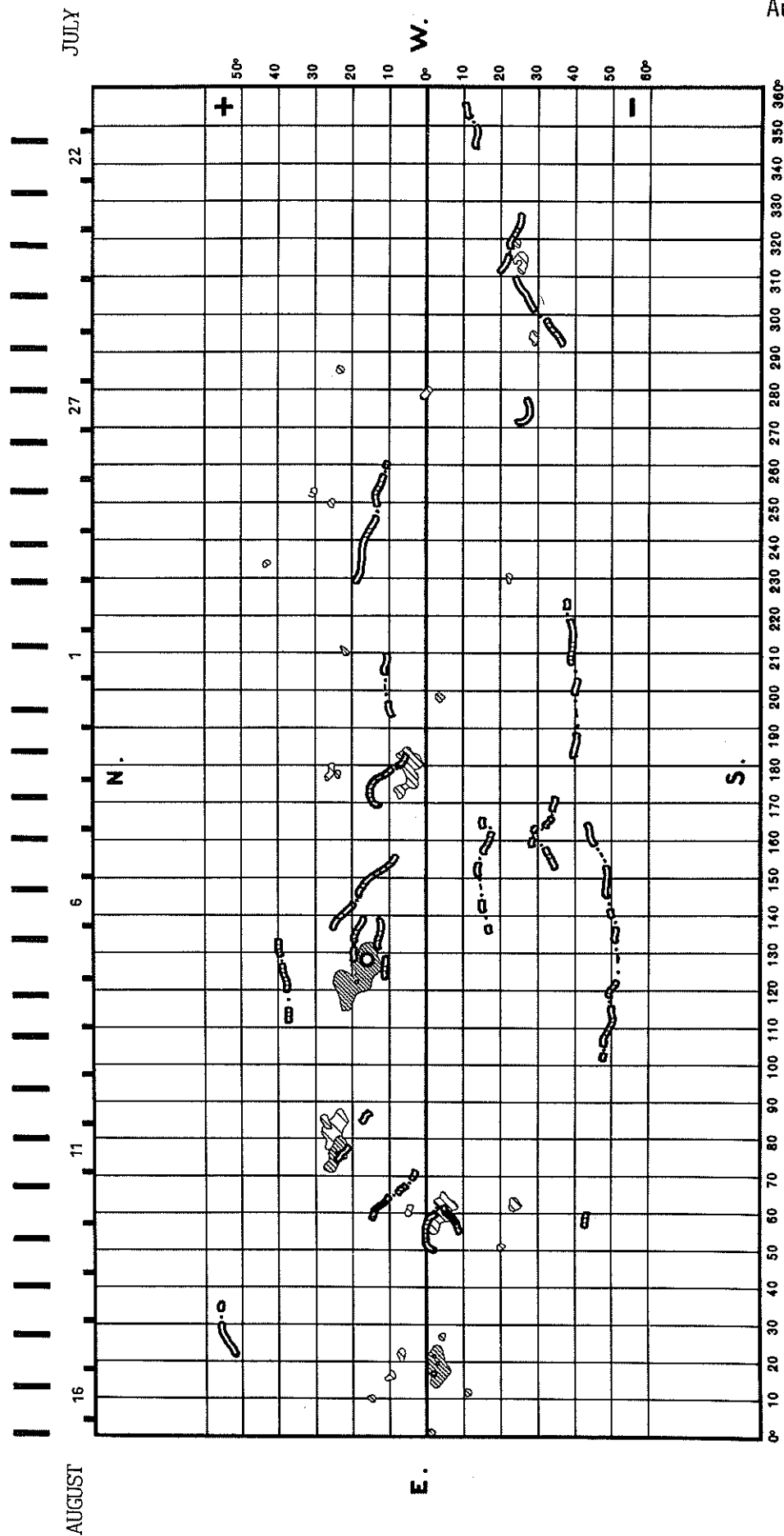
CARRINGTON ROTATION 1644

(July 21 - August 17, 1976)

Region No.	Coordinates		Age at CMP	IMP.	Spot-less Region	Region No. in Rotation 1643	Activity at West Limb
	Lat.	Long.					
1	29° S	294°	+5	1	x		disappeared
2	24 N	285	+5	1	x		disappeared
3	0	279	-3	1	x		dispersed
4	4 N	178	>6	1	x		decreasing
5	19 N	124	>6	4			decreasing
6	28 N	84	+1	1	x		disappeared
7	25 N	75	+2	2	x		decreasing
8	23 S	62	+5	1	x		disappeared
9	4 S	59	+5	1	x		decreasing
10	4 S	26	-4	1	x		stable
11	2 S	18	0	3	x		decreasing

SYNOPTIC SOLAR MAP
CARRINGTON ROTATION 1644
JULY 21 TO AUGUST 17, 1976

MEUDON OBSERVATORY



6
Aug 76

H α SOLAR FLARES

AUGUST 1976

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION			CNR DAY	MIN.	COND	TYPE	TIME UT		MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.
					LAT.	MER. DIST.												
GRP63499 CATA ISTA	01	0012	0133	NO FLARE PATROL														
	01	0625+0	0625	0635	N18	E90	1.000	14352	8.0	10	-N							
	01	0625	0625	0635	N18	E90	1.000	14352	8.0	10	1N	3	0625	56		A		
GRP63500 HCHA MEUD MEUD	01	0625E	0625	0635	N19	E90	.999	14352	8.0	100	-N							
	01	1110+5	1113+2	1134	N18	E81	.984	14352	7.5	24	-N							
	01	1110	1113	1134	N19	E84	.991	14352	7.8	24	1N	P	1113					
501 MEUD	01	1115	1115	1118	N17	E78	.974	14352	7.3	3	-F	C	1115	30		D		
	01	1130	1131	1134	N18	E78	.974	14352	7.3	4	-F	C	1131	40				
	01	1410	1413	14130	N17	E77	.970	14352	7.4	30	-F	C	1413	30				
502 CULG	01	1932	2016	NO FLARE PATROL														
	01	2047	2123	NO FLARE PATROL														
	01	2211	2228	NO FLARE PATROL														
	01	2400	0206	NO FLARE PATROL														
	02	0211	0212	NO FLARE PATROL														
	02	1642	1643	NO FLARE PATROL														
	02	1943	1951	NO FLARE PATROL														
	02	2027	2039	NO FLARE PATROL														
	02	2119	2258	NO FLARE PATROL														
	02	2232	2237	2257	N15	E60	.862	14352	7.4	25	-F	C	2237	20	.4			
GRP63503 HTPR ZURI MONT CATA MEUD KIEV	02	2318	0145	NO FLARE PATROL														
	03	0204	0213	NO FLARE PATROL														
	03	2047	2053	NO FLARE PATROL														
	03	2103	2104	NO FLARE PATROL														
	03	2105	0300	NO FLARE PATROL														
	04	0931+2	0935+3	1005	N16	E41	.661	14352	7.5	34	-N			60	.8	DI		
	04	0931	0935	0955	N17	E40	.651	14352	7.4	24	-N	C	0935	10	.1	D		
	04	0931	0937	1001	N15	E41	.659	14352	7.5	30	-N	P	0937	60	.8			
	04	0933	0937	1004	N16	E41	.661	14352	7.5	31	-N	C	0937	60	.8	E		
	04	0936E	0938	1015	N16	E40	.649	14352	7.4	390	-B	3	0938	56	.8			
504 MONT GRP63505 HTPR ZURI CATA ATHN	04	0948E	0948	1000	N16	E40	.649	14352	7.4	120	-N	C	0950	50	.7			
	04	0949E	0949	10300	N15	E43	.684	14352	7.6	410	-F	C	0949	100	1.3	DI		
	04	2058	2135	NO FLARE PATROL														
	04	2240	2315	NO FLARE PATROL														
	05	0058	0128	NO FLARE PATROL														
	05	0142	0225	NO FLARE PATROL														
	05	0858E	0901	0923	S12	N30	.572		3.1	250	-F	C	0901	20				
	05	1415+5	1419	1520	N13	E28	.476	14352	7.7	65	-N			60	.7	D		
	05	1415	1419	1520	N13	E28	.476	14352	7.7	65	-F	C	1419	20	.2	D		
	05	1416	1426	1510	N12	E28	.474	14352	7.7	54	-N	C	1426	70	.8			
506 HTPR GRP63507 TACH HITK ATHN PALE KODA HANI	05	1420	1428	1520	N13	E28	.476	14352	7.7	60	-B	2	1428	67	.8			
	05	1428E	1430	14310	N13	E28	.476	14352	7.7	30	-N	2	1430	33	66.0			
	05	1658	1703	1720	N17	E22	.409	14352	7.4	22	-F	C	1703	10	.1	D		
	05	2053	2100	NO FLARE PATROL														
	06	0014	0022	NO FLARE PATROL														
	06	0427+6	0434+8	0505	N16	E17	.332	14352	7.5	38	-N			80	.8	R		
	06	0427	0525	0525	N16	E17	.332	14352	7.5	58	-F	C	0448	93	1.0	E		
	06	0430	0434	0516	N16	E14	.291	14352	7.2	35	-N	C	0434	90	1.0			
	06	0433	0437	0504	N17	E18	.353	14352	7.5	31	-N	2	C	32		DE R		
	06	0433	04360	04480	N17	E19	.367	14352	7.6	150	-N	2	C	92		DE		
GRP63508 ZURI MEUD HTPR	06	0437E	0442	05050	N15	E16	.310	14352	7.4	280	-F	P	0448	66	.7	O		
	06	0445E	04450	05000	N16	E16	.318	14352	7.4	150	-N	2	P	0445	70	.8	F	
	06	1009+1	1014+3	1029	N15	E12	.255	14352	7.3	20	-F			30	.3	D		
	06	1009	1017	1029	N15	E13	.268	14352	7.4	20	-F	C	1017	50	.5			
	06	1010	1023	1023	N16	E12	.265	14352	7.3	13	-F	C	1015	30	.3	D		
	06	1010	1014	1035	N15	E12	.255	14352	7.3	25	-F	C	1014	20	.2			

Note: Although these flare listings give all reported events, not all possible brightenings are reported. Thresholds of reporting vary from observatory to observatory.

H α SOLAR FLARES

AUGUST 1976

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMR DAY	COND	TYPE	TIME UT	MEAS. AREA		CORR AREA
					LAT.	MER. DIST.											
1976 AUG																	
GRP63509	06	1105	1139	1204	N16	E11	.253	14352	7.3	59	-N						
HTPR	06	1105	1140	1220	N16	E11	.253	14352	7.3	75	-N						R
RAMY	06	1135	1140	1205	N17	E10	.253	14352	7.2	30	-N	4	C	1140	60	.5	DE R
ZURI	06	1135	1145	1203	N15	E13	.268	14352	7.5	28	-F		C	1145	80	.9	
MEUD	06	1135E	1139	1155	N16	E11	.253	14352	7.3	200	-F		C	1139	50	.5	
CATA	06	1135	1140	11550	N16	E11	.253	14352	7.3	200	-N	2		1140	84	.9	
	06	2322	2330	NO FLARE	PATROL												
	07	0030	0118	NO FLARE	PATROL												
	07	0139	0145	NO FLARE	PATROL												
	07	0154	0200	NO FLARE	PATROL												
GRP63510	07	0155	0200	0209	N12	E08	.170	14352	7.7	14	-N						
CULG	07	0155	0200	0209	N12	E08	.170	14352	7.7	14	-N		C	0200	100	1.0	
MANI	07	0200E	0200U	0203D	N13	E08	.181	14352	7.7	30	-N	1	V	0200	60	.6	
	07	0203	0212	NO FLARE	PATROL												
511 RAMY	07	1130E	1135U	1150D	N17	W03	.194	14352	7.3	200	-N	4	C		45		FOE
GRP63512	07	1536+4	1539+2	1550	N14	W03	.145	14352	7.4	14	-N						
HTPR	07	1536	1539	1550	N14	W03	.145	14352	7.4	14	-N		C	1539	10	.1	
LOCA	07	1540	1541	1550	N14	W03	.145	14352	7.4	10	-N		V	1541	82	.8	
CATA	07	1540	1540	1550	N15	W02	.157	14352	7.5	10	-N	2		1540	56	.6	
	07	1646	1702	NO FLARE	PATROL												
	07	1707	1708	NO FLARE	PATROL												
	07	1719	1908	NO FLARE	PATROL												
	07	1912	1945	NO FLARE	PATROL												
	07	2017	2029	NO FLARE	PATROL												
	07	2046	2102	NO FLARE	PATROL												
	07	2116	2209	NO FLARE	PATROL												
513 CULG	07	2138	2142	2152	N13	W06	.157	14352	7.5	14	-F		C	2142	30	.3	
	07	2245	2253	NO FLARE	PATROL												
	08	0001	0214	NO FLARE	PATROL												
514 CATA	08	0840	0845	0940	N15	W13	.267	14352	7.4	20	-N	2		0845	67	.7	
	08	1810	1824	NO FLARE	PATROL												
	08	1834	1845	NO FLARE	PATROL												
	08	2017	0315	NO FLARE	PATROL												
	09	0600	0610	NO FLARE	PATROL												
515 MCMA	09	2025	2026	2030	N18	W31	.536	14352	7.5	5	-N		C	2026	50	.6	EL
	09	2102	2230	NO FLARE	PATROL												
	10	0133	0145	NO FLARE	PATROL												
GRP63516	10	1025+1	1025+3	1037	N17	W39	.637	14352	7.5	12	-F						
CATA	10	1025	1025	1035	N18	W39	.639	14352	7.5	10	-N	2		1025	30	.4	
HTPR	10	1026	1028	1038	N17	W39	.637	14352	7.5	12	-F		C	1028	30	.4	
517 MEUD	10	1121	1122	1125	N18	W39	.639	14352	7.5	4	-F		C	1122	40	.5	E
	10	2044	2058	NO FLARE	PATROL												
	10	2102	2103	NO FLARE	PATROL												
	10	2144	2254	NO FLARE	PATROL												
	10	2326	2343	NO FLARE	PATROL												
	10	2351	0006	NO FLARE	PATROL												
	11	0012	0014	NO FLARE	PATROL												
	11	0018	0019	NO FLARE	PATROL												
	11	0023	0031	NO FLARE	PATROL												
	11	2212	2226	NO FLARE	PATROL												
GRP63518	13	0032+2	0036+7	0110	N24	W18	.416	14358	11.7	38	-N						
VORO	13	0032	0036	0110	N22	W20	.418	14358	11.5	38	-N		C	0036	206	2.3	EJ
MITK	13	0033	0038	0048	N26	W16	.418	14358	11.8	15	-N		C	0038	99	1.0	EJ
CULG	13	0034	0043	0115	N23	W18	.405	14358	11.7	41	-F		C	0043	40	.4	E
519 MITK	13	0435	0437	0440D	N25	W19	.437	14358	11.8	50	-F		C	0437	70	.8	E
	13	1530	1536	NO FLARE	PATROL												
	13	1540	1548	NO FLARE	PATROL												
	13	1600	1737	NO FLARE	PATROL												
	13	1753	1758	NO FLARE	PATROL												

H α SOLAR FLARES

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	GEOGRAPHIC REGION			GMR DAY	COND	TYPE	TIME UT	MEAS. AREA		CORR AREA
					LAT.	MER. DIST.											
1976 AUG									MIN.								
	13	1816	1845	NO FLARE PATROL													
	13	1853	1955	NO FLARE PATROL													
	13	2007	2015	NO FLARE PATROL													
	13	2032	2115	NO FLARE PATROL													
	13	2329	2346	NO FLARE PATROL													
	14	0104	0140	NO FLARE PATROL													
	14	1611	1616	NO FLARE PATROL													
	14	1840	1845	NO FLARE PATROL													
	14	1710	1958	NO FLARE PATROL													
	14	2028	0021	NO FLARE PATROL													
	15	1200	1204	NO FLARE PATROL													
	15	1208	1213	NO FLARE PATROL													
	15	1218	1226	NO FLARE PATROL													
	15	1358	1402	NO FLARE PATROL													
	520 MCMA	15	1402E		1417	S03	E06	.197	14366	16.0	150	-8	C	1402	25	.3	DHT
	15	1429	1438	NO FLARE PATROL													
	15	1455	1502	NO FLARE PATROL													
521 MCMA	15	1604	1614	1624	S03	E05	.188	14366	16.0	20	-N	C	1614	25	.3	DH	
	15	1754	1759	NO FLARE PATROL													
	16	2134	0024	NO FLARE PATROL													
522 CULG	16	2248	2249	2258	S04	H15	.316	14366	15.8	10	-F	C	2249	30	.3		
	17	0031	0121	NO FLARE PATROL													
	17	0145	0213	NO FLARE PATROL													
523 HTPR	17	1025	1028	1040	S03	H20	.378	14366	15.9	15	-F	C	1028	20	.2		
	17	2116	0223	NO FLARE PATROL													
524 MCMA	18	1403	1406	1429	S07	H82	.992	14356	12.4	26	-N	C	1406			D	
525 MCMA	18	1426	1430	1455	S03	H36	.605	14366	15.9	29	-N	C	1430	25	.3	EH	
GRP63526 MCMA PALE	18	1844+1	1845+6	1857	S12	E81	.992	14375	24.9	13	-8						
	18	1844	1845	1858	S12	E84	.997	14375	25.1	14	18	C	1845			HV	
	18	1845	1851	1856	S12	E79	.987	14375	24.7	11	-N	4 C		83		HV	
	18	2245	2258	NO FLARE PATROL													
527 PALE	19	0026	0027	0034	S11	E75	.973	14375	24.6	6	-F	3 C		31			
	19	0156	0206	NO FLARE PATROL													
528 MONT	19	0855	0858	0903	S05	H44	.713	14366	16.1	8	-F	C	0858	20			
GRP63529 HTPR MONT DATA	19	0916+4	0917+3	0925	S05	H44	.713	14366	16.1	9	-F			30	.4	E	
	19	0916	0917	0925	S05	H45	.725	14366	16.0	9	-F	C	0917	30	.4	E	
	19	0916E	0917	0923	S05	H44	.713	14366	16.1	70	-F	C	0917	40		E	
	19	0920	0920	0925	S06	H44	.716	14366	16.1	5	-N	2	0920	28	.4		
GRP63530 ZURI MCMA HTPR	19	1157+1	1203+5	1217	S14	E70	.954	14375	24.7	26	-F			50		E	
	19	1157	1203	1217	S15	E70	.955	14375	24.7	20	-F	P	1203	60			
	19	1157	1207	1216	S14	E70	.954	14375	24.7	19	-N	C	1207	40	1.6	E	
	19	1158	1208	1220	S13	E70	.953	14375	24.7	22	-F	C	1208	40			
531 MCMA	19	1831	1834	1842	S14	E67	.938	14375	24.8	11	-F	C	1834	30	1.1	E	
	19	2116	2202	NO FLARE PATROL													
	19	2223	2258	NO FLARE PATROL													
	20	0036	0052	NO FLARE PATROL													
532 ZURI	20	1054	1058	1114	S02	H62	.887	14366	15.8	20	-F	C	1058	70	1.6		
GRP63533 MONT ZURI	21	0803+2	0807	0813	S02	H74	.963	14366	15.8	10	-N			60		E	
	21	0803	0807	0813	S03	H74	.964	14366	15.8	10	-F	C	0807	40		E	
	21	0805	0805	0805D	S02	H74	.963	14366	15.8		1N	P	0805	90			
534 HTPR	21	1407	1412	1430	S03	H78	.980	14366	15.7	23	-F	C	1412	20		D	
	21	2237	2336	NO FLARE PATROL													
535 MITK	22	0127	0129	0138	S04	H90	1.000	14366	15.3	11	?N	C	0129	60			
	IMP	1 NO	GULG1	PALE1													

H α SOLAR FLARES

AUGUST 1976

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS
	DATE 1976 AUG	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC-MATH PLAGE REGION	CNR DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.	
					LAT.	MER. DIST.											
536 MITK	22	0206E IMP. 1 NO	0209 CULG1	0219 PALE1	S04	W90	1.000	14366	15.3	130	P F	C	0209	70			
537 TACH	22	0357		0405	S02	W90	1.000	14366	15.4	8	-F	C	0402	88			
538 CULG	22	0511	0513	0521	S04	W85	.997	14366	15.8	10	-F	C	0513	20	1.0		
539 UPIC	22	0730	0735	0745	S11	E43	.724	14375	25.5	15	-F	P	0735	61			
540 UPIC	22	0820	0825	0900	S11	E43	.724	14375	25.6	40	-F	P	0825	41			
GRP63541 RAMY RAMY	22	1021E	1115+0	11400	S06	W90	1.000	14366	15.7	79	-N						
	22	1021E	1115	11400	S07	W90	1.000	14366	15.7	790	-N	4	C				
	22	1021E	1115	11400	S06	W90	1.000	14366	15.7	790	-N	4	V				
542 UPIC	22	1217E		12220	S02	W90	1.000	14366	15.8	50	N	P	1217			AB	
543 MEUD	22	1412	1413	1420	S11	E39	.679	14375	25.5	8	-F	C	1413	60	.8	E	
	22	2318	2326	NO FLARE PATROL													
	22	2336	2345	NO FLARE PATROL													
	22	2400	0039	NO FLARE PATROL													
	23	0043	0133	NO FLARE PATROL													
	23	0144	0152	NO FLARE PATROL													
	23	2240	2310	NO FLARE PATROL													
	24	0029	0030	NO FLARE PATROL													
	24	0059	0121	NO FLARE PATROL													
	24	2223	2233	NO FLARE PATROL													
	24	2400	0147	NO FLARE PATROL													
	25	0203	0217	NO FLARE PATROL													
544 MEUD	25	1415	1415	1420	S10	W03	.297	14375	25.4	5	-F	C	1415	40	.4	E	
	26	1738	1802	NO FLARE PATROL													
	26	1825	2137	NO FLARE PATROL													
	26	2243	2245	NO FLARE PATROL													
	28	1626	1647	NO FLARE PATROL													
	29	1930	2105	NO FLARE PATROL													
	29	2309	2314	NO FLARE PATROL													
545 MCHA	31	1958E	2005	2038	N19	W54	.806	14403	27.8	460	-N	C	2005	50	.9	E	
	31	2111	2121	NO FLARE PATROL													
	31	2123	2147	NO FLARE PATROL													
	31	2221	2225	NO FLARE PATROL													

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
 B = Probably the end of a more important flare.
 C = Invisible 10 minutes before.
 D = Brilliant point.
 E = Two or more brilliant points.
 F = Several eruptive centers.
 G = No visible spots in the neighborhood.
 H = Flare accompanied by a high speed dark filament.
 I = Active region very extended.
 J = Distinct variations of plage intensity before or after the flare.
 K = Several intensity maxima.
 L = Existing filaments show signs of sudden activity.
 M = White-light flare.

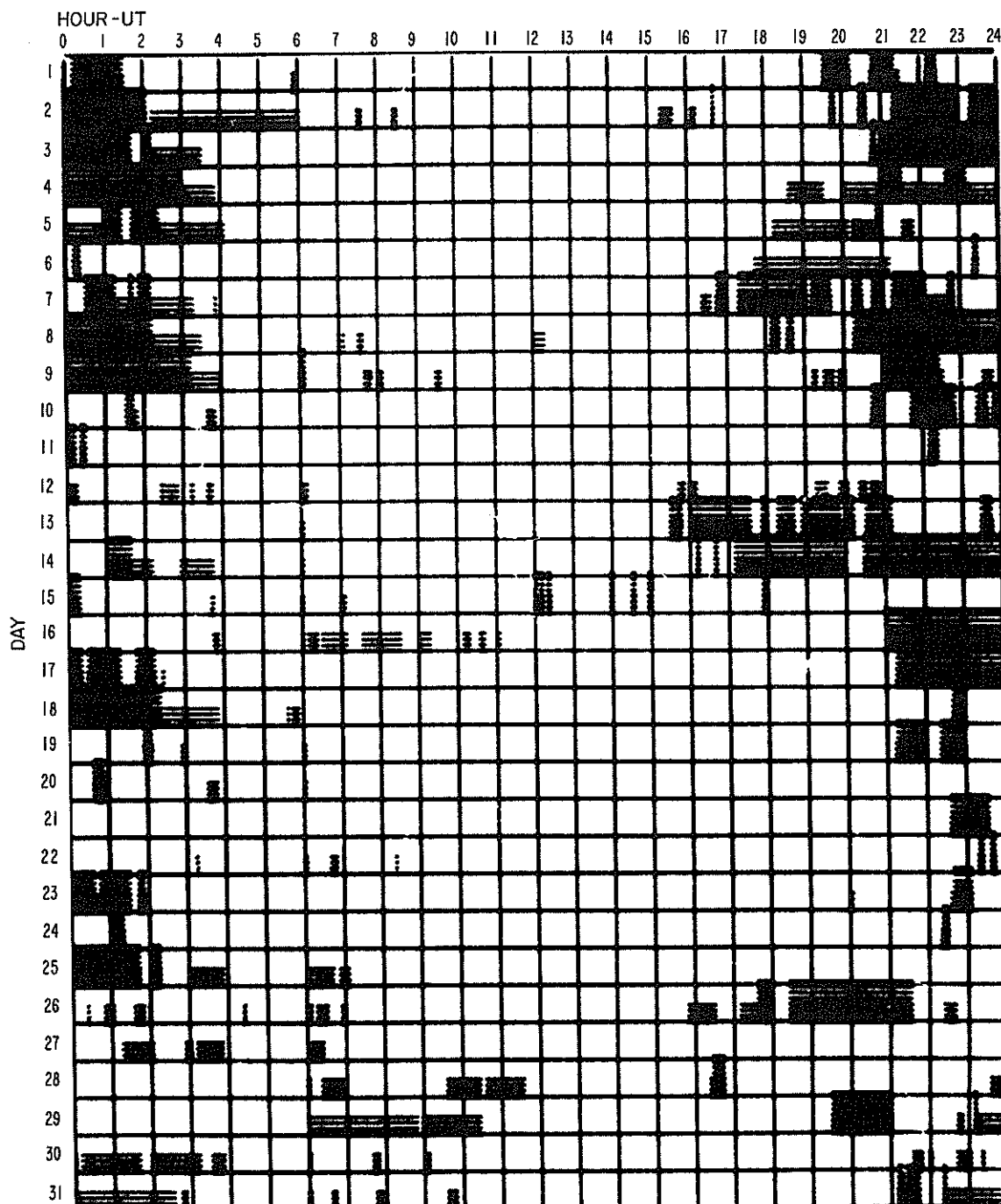
N = Continuous spectrum shows effects of polarization.
 O = Observations have been made in the calcium II lines H and K.
 P = Flare shows helium D₃ in emission.
 Q = Flare shows the Balmer continuum in emission.
 R = Marked asymmetry in H α line suggests ejection of high velocity material.
 S = Brightness follows disappearance of filament (same position).
 T = Region active all day.
 U = Two bright branches, parallel (||) or converging (Y).
 V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
 W = Great increase in area after time of maximum intensity.
 X = Unusually wide H α line.
 Y = System of loop-type prominences.
 Z = Major sunspot umbra covered by flare.

AUGUST 1976				DAILY FLARE INDICES Includes all Flares			
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index
760801	3.08	18.9	760810	4.17	21.9	760820	.84
760802	.98	19.5	760811	0.00	23.6	760821	2.84
760803	0.00	17.8	760813	11.24	19.4	760822	9.23
760804	1.91	22.8	760814	0.00	15.6	760823	0.00
760805	10.77	22.7	760815	10.56	23.3	760824	0.00
760806	5.75	23.7	760816	6.08	20.7	760825	5.31
760807	17.85	18.7	760817	6.91	17.6	760826	0.00
760808	8.18	14.4	760818	5.07	23.8	760828	0.00
760809	3.60	22.4	760819	5.65	22.5	760829	0.00
						760831	1.90

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

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE-TABLE

AUGUST 1976



Observatories included in total patrol:

Athenes	Herstmonceux	Kiev	McMath-Hulbert	Tachkent
Bucharest	Huancayo	Kodaikanal	Meudon	Tehran
Catania	Hurbanovo	Locarno	Mitaka	Upice
Culgoora	Istanbul	Lvov	Monte Mario	Voroshilov
Haute Provence	Kharkov	Manila	Palehua	Wendelstein
			Ramey	Zürich

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

12
Aug 76

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

AUGUST 1976

AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME		TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT		UT	MINUTES	PEAK	MEAN		
1	207 VORO	44 NS	0000		0122	180	70			
	100 GORK	44 NS	0300	E		420 0		5		
	200 GORK	44 NS	0300	E		420 0		50		
	221 ABST	44 NS	0500		0715.5	240	17			
	127 TORN	44 NS	0550	E		550 0				
	260 ONDR	44 NS	0620	E		560 0	69			
	245 SGMR	44 NS	0940	E	2133.6	859 0	326.6			
	410 SGMR	44 NS	0940	E	1707.9	859 0	94			
	200 HIRA	44 NS	1945	E	0815	840 0	270	60		SL
	100 HIRA	44 NS	1945	E	2137	145 0	70	40		SL
	207 VORO	44 NS	2300		0154	240	169			
	100 HIRA	45 C	0006.5		0007.6	2.5	380	100		SL
	100 HIRA	45 C	0012		0015	4	450	80		SL
	2000 TYKH	5 S	0014.8		0015.2	3	1.3	0.3		
	100 HIRA	45 C	0223.5		0223.8	3.5	300	60		HL
	1000 TYKH	5 S	0224		0224.8	5	7	1.7		30R
	2000 TYKH	45 C	0224		0226	5	23	3		SR
	950 GORK	20 GRF	0448.1		0456.7	16	2.4	1.2		
	950 GORK	1 S	0646.9		0647.4	1.1	1.7	0.6		
	100 GORK	6 S	0647.2		0647.4	0.4	500	250		
	536 ONDR	45 C	0715.2		0717.8	4.7	26	4		
	536 ONDR		0923		0923.5	3.5	7	2		
	1000 TYKH	45 C	0717.2		0717.7	2	2.2	0.6		30R
	950 GORK	1 S	0820.2		0820.8	0.8	1.8	0.6		
	127 TORN	45 C	0904.7		0905	2	350	170		
	536 ONDR	8 S	0947.2		0947.5	0.6	6			
	234 POTS	45 C	1322.9		1323	0.2	260	50		
	18 MCMA	4 F	1524		1528	4			1	
	2800 OTTA	21 GRF	2155		2330	215	2.2	1.1		
	1000 TYKH	5 S	2214.5		2215.3	1.5	1.3	0.4		60R
	2800 OTTA	1 S	2222		2222.7	2	0.8	0.4		
	1400 SYDN	2 S	2310.1		2310.5	1				
	700 SYDN	40 F	2310.2		2310.5	29.5				
	1000 TYKH	5 S	2310		2310.4	1	21	3		30R
	1000 TYKH	5 S	2321		2321.4	1.5	1	0.4		SR
	500 HIRA	24 R	2347	E	0720	590 0	80	10		SL
	1000 TYKH	45 C	2349		2355	8	2	0.6		90R
2	700 SYDN	45 C	0004.6		0006.5	5				
	700 SYDN	4 S	0036.2		0036.7	2.1				
	1000 TYKH	5 S	0036		0036.7	2	1	0.3		SR
	700 SYDN	47 GB	0145		0153.5	17.1				
	606 MANI	4	0145		0153	30	32.7	8.6		
	1415 MANI	2	0150		0151.9	10	8.5	3.3		
	1400 SYDN	40 F	0150.7		0151.7	6.2				
	1000 TYKH	45 C	0150		0154.3	16	11	2		30R
	100 HIRA	45 C	0151.5		0153.3	3	380	80		HL
	1400 SYDN	47 GB	0218.3		0220.5	36.2				
	100 GORK	44 NS	0303	E		417 0		16		
	200 GORK	44 NS	0303	E		420 0		250		
	221 ABST	44 NS	0500		0815.5	240	31			
	260 ONDR	44 NS	0534	E		584 0	172			
	536 ONDR	44 NS	0534	E		584	41			
	127 TORN	44 NS	0730	E		450 0				
	410 SGMR	44 NS	0941	E	2250	856 0	199.9			
	245 SGMR	44 NS	0941	E	2249.8	856 0	660			
	200 HIRA	44 NS	1950	E	2310	825 0	180	40		SL
	207 VORO	44 NS	2200		2232	300	208			
	1400 SYDN	1 S	0309.3		0309.3	0.2				
	1400 SYDN	45 C	0326.3		0331.7	9				
	1400 SYDN	47 GB	0353.3		0407.1	29.2				
	1400 SYDN	2 S	0501.2		0501.3	0.3				
	127 TORN	47 GB	0602.7		0602.8	4	2300 U			
	1000 TYKH	5 S	0617		0617.6	1.5	12	1.5		20R
	536 ONDR	46 C	0657		0720	53	72	15		
	234 POTS	45 C	0659		0703.1	7.4	175	10		
	606 MANI	40	0700.2		0710.4	38.5	76	26.1		
	1470 POTS	40 F	0700	E	0710	23 0	9.7			
	3000 POTS	22 F	0700	E	0710	38 0	4.1			
	808 ONDR	46 C	0700		0713.6	36	122	15		
	1000 TYKH	45 C	0700		0720.7	25	33	9		15R
	1000 TYKH		0700		0707		26			
	1000 TYKH		0700		0709.8		32			
	1000 TYKH		0700		0703.3		23			
	100 GORK	46 C	0701.9		0702.9	1.4	440			
	100 GORK		0701.9		0708.8	1.6	440			
	100 GORK		0701.9		0709.7	1.6	890			
	100 GORK		0701.9		0743.7	156	1000			
	3100 CRIM	21 GRF	0701		0708	15	2.5	1		
	510 POTS	41	0701		0720.5	25	120	12		
	930 BORD	45 C	0701		0720.7	24	247	18		
	1415 MANI	22	0702.1		0709.8	19.6	13.2	3.3		
	100 HIRA	45 C	0702		0702.5	1.5	1200	500		HL
	2000 TYKH	42 SER	0702		0702.7	22	8	1		80R

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

AUGUST 1976

AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	3100 CRIM	1 S	0703	0703.5	1	2			
	950 GORK	46 C	0705	0706.9	16 E	28			
	950 GORK		0705	0709.8		47			
	950 GORK		0705	0713.2		27			
	950 GORK		0705	0720.8		61			
	950 GORK	29 PBI	0705	0721	28.1	12	2.5		
	3100 CRIM	1 S	0707	0708	2	3			
	3100 CRIM	1 S	0710	0710	1	2.5			
	100 HIRA	27 RF	0710	0744	155 D	400	120		SL
	950 GORK	20 GRF	0809.6	0816.4	13.8	3.2	1.3		
	808 ONDR	2 S/F	0918.7	0919	0.7	12			
	808 ONDR	40 F	0950.8	0954	13.2	22	8		
	950 GORK	22 CRF	0953.1	0954.4	9.6U	7	2.6		
	100 GORK	46 C	0953.5	0955.4	81	400			
	100 GORK		0953.5	1001		400			
	930 BORD	40 F	0953	0954.4	11	13	3		
	234 POTS	41	0954	0959.3	5.5	550	6		
	245 SGMR	7 C	1155.8	1157.1	3	378	75.6		
	410 SGMR	6 S	1156	1156.8	1.7	41.1	13.2		
	808 ONDR	8 S	1156.3	1157	1	42			
	2695 SGMR	1 S	1156.4	1156.6	.9	27	.8		
	234 POTS	45 C	1156.4	1156.7	1	525	50		
	2695 PENT	1 S	1156.5	1156.6	1	1.2	0.5		
	127 TORN	5 S	1157	1157.1	1.5	95	40		
	234 POTS	45 C	1208.1	1208.2	0.4	350	70		
	234 POTS	45 C	1213	1213.2	0.3	450	100		
	127 TORN	45 C	1233.2	1233.6	3	320	90		
	234 POTS	45 C	1243	1243.2	0.4	250	25		
	18 MCMA	6 S	1323	1325	4			1	
	808 ONDR	40 F	1334.3	1335.5	2.2	14	5		
	228 HARS	45 C	1334.7	1335.3	1.3	290	140		
	127 TORN	45 C	1334.9	1336.3	2.2	210	50		
	18 MCMA	6 S	1743	1744	2			1	
	18 MCMA	4 F	1809	1813	4			1	
	1400 SYDN	40 F	2159.5	2219	23.7				
	4995 BOUL	20 GFR	2226.5	2230.5	11.5	10	3		
	1420 BOUL	40 F	2227.5	2233	8	39	12		
	606 MANI	40	2228	2249.9	31	186	43.4		
	1415 MANI	40	2228	2230.3	29	42.2	9.6		
	245 SGMR	48 C	2228	2230.2	6	540	162		
	410 SGMR	6 S	2228	2230.6	5	95.2	27.6		
	1400 SYDN	45 C	2228	2231.5	4.2				
	1400 SYDN	40 F	2228.3	2230.4	28.1				
	100 HIRA	45 C	2228.5	2230	3	1000	270		ML
	2000 TYKW	45 C	2228.5	2234.9	12.5	22	2.5		
	1000 TYKW	45 C	2228	2231.5	30	57	7		40R
	1000 TYKW		2228	2230.2		20			
	1000 TYKW		2228	2235.3		31			
	1000 TYKW		2228	2242.6		22			
	1000 TYKW		2228	2249.7		28			
	200 HIRA	45 C	2228	2230	4	480	170		SL
	500 HIRA	45 C	2228	2249	31	120	25		ML
	2800 OTTA	21 GRF	2229	2239	27	1.4	0.7		
	18 MCMA	6 S	2230	2233	5			2	
	700 SYDN	48 GB	2234.3	2250	16.2				
	700 SYDN	29 PBI	2250.5	2251	8.6				
	2800 OTTA	1 S	2234.5	2235.3	2	2	1		
	100 HIRA	27 RF	2234	2309	60	100	40		ML
	2695 BOUL	1 S	2235	2236	2.5	4	1		
	1420 BOUL	8 S	2237.5	2239	2	18	3		
	1420 BOUL	8 S	2241.5	2242.5	2	6	2		
	2800 OTTA	8 S	2242.5	2242.5	0.5	1.4	0.7		
	2000 TYKW	5 S	2242	2242.5	1.5	2.8	1		
	4995 BOUL	45 C	2243.5	2245	5	10	3		
	1420 BOUL	8 S	2248.5	2249	2.5	7	2		
	100 HIRA	45 C	2249.5	2249.9	1	450	160		ML
	2000 TYKW	5 S	2249.5	2249.8	1	1.7	0.6		
	2800 OTTA	1 S	2249.8	2250	1.5	1	0.5		
	4995 BOUL	3 S	2256.5	2258.5	4.5	8	3		
	1000 TYKW	45 C	2310	2310.4	6	1.9	0.4		MR
3	700 SYDN	40 F	0005.6	0009.6	25.3				
	4995 BOUL	8 S	0005	0001	2	20	7		
	1420 BOUL	45 C	0005	0008.5	5	4	1		
	1000 TYKW	45 C	0005	0009.6	35	11	2		60R
	2000 TYKW	45 C	0006	0007.3	5	2.4	0.7		
	2000 TYKW		0006	0009.6		2			
	1400 SYDN	28 PRE	0005.5	0007.3	3.9				
	1400 SYDN	45 C	0009.5	0009.7	2.1				
	4995 BOUL	3 S	0102	0103	1.5	10	3		
	2695 BOUL	45 C	0102	0105.5	7	6	2		
	700 SYDN	8 S	0104.2	0104.3	0.3				
	700 SYDN	8 S	0105.3	0105.5	0.4				
	700 SYDN	45 C	0112.7	0114.2	3.8				
	100 HIRA	27 RF	0123	0132.5	50	60	15		SL

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SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES AUGUST 1976

AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	700 SYDN	4 S	0125.9	0126.4	0.7				
	700 SYDN	40 F	0148.5	0154.1	7.6				
	1000 TYKH	45 C	0151	0154.1	7	2.3	0.5		SR
	700 SYDN	40 F	0212.3	0228.7	24				
	1000 TYKH	45 C	0212	0228.7	30	5.4	0.8		MR
	1000 TYKH	45 C	0245	0259.8	17	2.1	0.3		MR
	200 GORK	44 NS	0300		420 D		50		
	100 GORK	44 NS	0309		351 D		5		
	221 ABST	44 NS	0500	0707	240	31			
	127 TORN	44 NS	0550	1018.6	550 D	100			
	536 ONDR	44 NS	0622		544 D	40			
	260 ONDR	44 NS	0622		544 D	121			
	245 SGMR	44 NS	0942	2326.8	854 D	1527 U			
	410 SGMR	44 NS	0942	1955.9	854 D	247 U			
	200 HIRA	44 NS	1950	2356	820 D	370	30		SL
	207 VORO	44 NS	2200	2254	300	230			
	1000 TYKH	45 C	0309	0319.3	23	2	0.5		MR
	950 GORK	4 SF	0319.6	0320.7	1.9	9.5	5.5		
	950 GORK	29 PBI	0319.6	0321.4	5.2	4.3	1		
	1000 TYKH	45 C	0343	0348.8	30	3	0.6U		MR
	606 MANI	40	0444.8	0506.7	38.8	32.1	5.1		45R
	1000 TYKH	45 C	0445	0506.3	50	15	1.7		
	1000 TYKH		0445	0454.8		11			
	1000 TYKH		0445	0459.6		9			
	1000 TYKH		0445	0511.6		6			
	950 GORK	22 GRF	0448.1	0454.8	48.5	17	2.2		
	700 SYDN	40 F	0448.1	0506.8	31.9				
	500 HIRA	45 C	0448	0453	38	25	5		SL
	2000 TYKH	5 S	0451	0455.2	7	1.1	0.4		70R
	100 GORK	41 F	0453.6	0455.7	9	380			
	100 GORK		0453.6	0500.9		380			
	100 HIRA	45 C	0455	0455.5	2	580	130		HL
	100 HIRA	45 C	0459.5	0459.5	0.50	460	90		HL
	1400 SYDN	40 F	0502.7	0503.8	37.3				
	100 GORK	41 F	0633.8	0639.4	9.6	450			
	100 GORK		0633.8	0643.1		450			
	950 GORK	1 S	0638.4	0639.4	1.1	1.3	0.5		
	536 ONDR	2 S/F	0705.5	0707	5.6	62			
	1000 TYKH	45 C	0705.5	0706.7	3	2.6	0.7U		70R
	100 GORK	41 S	0705.6	0706.7	2.7	450			
	950 GORK	1 S	0705.9	0706.8	3.2	2.8	1		
	100 HIRA	45 C	0706	0706.7	2	440	100		HL
	127 TORN	45 C	0706.2	0707.2	3.9	250	65		
	3100 CRIM	24 R	0722	0819		3.5			
	950 GORK	1 S	0732.1	0735	5.7	2.8	0.8		
	950 GORK	20 GRF	0902.3	0911.5	12.7	4.1	2.4		
	234 POTS	45 C	0956.5	0956.7	0.4	500	80		
	9240 ARCE	22 GRF	1018.6	1030.5	45				
	2695 PENT	240AR	1227	1234	7	1.2	0.6		
	2695 PENT	2 S/F	1227	1230.2	5	2.2	1.1		
	2695 PENT	24P R	1234		96	1.2			
	234 POTS	45 C	1304.9	1305.4	0.8	350	70		
	2695 PENT	240 R	1410	1530	80	1.5	0.8		
	4995 BOUL	3 S	1515	1521	14	18	6		
	2695 PENT	24P R	1530		450 D	1.5			
	2695 BOUL	3 S	1533	1534	4.5	4	1		
	2695 BOUL	8 S	1716	1716.5	1	12	4		
	4995 BOUL	8 S	1720	1720.5	1	39	13		
	2695 BOUL	8 S	1721.5	1722.5	1.5	15	5		
	4995 BOUL	8 S	1743.5	1744	1	32	11		
	4995 BOUL	8 S	1746	1746.5	1.5	14	5		
	2695 BOUL	45 C	1747	1748	3.5	8	3		
	2695 BOUL	8 S	1752	1752.5	1	3	1		
	4995 BOUL	1 S	1801	1801.5	1.5	8	3		
	4995 BOUL	1 S	1807	1807.5	1.5	10	3		
	2695 BOUL	8 S	1808	1808.5	1.5	15	5		
	2695 BOUL	40 F	1859	1900	4	23	7		
	2695 BOUL	40 F	1928.5	1931.5	6.5	53	19		
	500 HIRA	27 RF	1950	2029	60 D	120	8		SL
	18 MCHA	42 SER	1957	2003	6			1	
	100 HIRA	27 RF	2008		35		70		
	100 HIRA		2008	2025		910			HL
	100 HIRA		2008	2035.8		600			HL
	100 HIRA		2008	2029.2		780			HL
	500 HIRA	27 RF	2200	2326	135	70	15		SL
	2695 BOUL	45 C	2255.5	2257.5	8.5	15	5		
	4995 BOUL	1 S	2256.5	2257.5	2	10	3		
	4995 BOUL	45 C	2300	2302.5	2.5	33	11		
	2800 OTTA	20 GRF	2320	2340	50	1.2	0.6		
	700 SYDN	40 F	2321.5	2332.3	42.5				
	100 HIRA	27 RF	2321	2350	92	100	20		SL
	1420 BOUL	8 S	2324.5	2325.5	2.5	3	1		
	1400 SYDN	28 PRE	2312.3	2316.2	9.2				
	1400 SYDN	40 F	2325.8	2341.4	35.8				
	100 HIRA	45 C	2325	2326.2	2	1000	220		HL

SOLAR RADIO EMISSION
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AUGUST 1976

AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
4	1000 TYKH	45 C	2325	2339.7	50	31	4	MR	
	2695 BOUL	40 F	2326.5	2328	5.5	17	6		
	1420 BOUL	40 F	2331.5	2341	11.5	18	2		
	100 HIRA	45 C	2331.6	2332.5	3	610	70		
	2000 TYKH	45 C	2332	2334.2	3.5	8	1		
	2000 TYKH	45 C	2339	2339.8	4	3.2	1	HL 95R 90R	
	1420 BOUL	3 S	2345.5	2349	6	2	1		
	700 SYDN	2 S	0000.5	0000.9	0.7				
	1000 TYKH	45 C	0019	0020.9	7	1.9	0.6	50R	
	700 SYDN	2 S	0114.8	0115.3	1.7				
	1000 TYKH	45 C	0142	0215.2	40	2.9	0.9		
	700 SYDN	2 S	0151.1	0151.3	0.5				
	700 SYDN	40 F	0157	0217.9	25				
	200 GORK	44 NS	0300	E	600	D	10	SL	
	100 GORK	43 NS	0300	E	348		5		
	221 ABST	44 NS	0500		240	24			
	260 ONDR	44 NS	0620	E	540	D	94		
	536 ONDR	44 NS	0620	E	540	D	17		
	127 TORN	43 NS	0810	U	410	D		SL	
	100 HIRA	43 NS	0845		50	0	35		
	100 GORK	44 NS	0848		252	D	90		
	245 SGMR	44 NS	0943	E	852	D	498		
	410 SGMR	44 NS	0943	E	852	D	50.9		
	606 SGMR	43 NS	1304	1318	416	D	21.5	SL SL	
	100 HIRA	44 NS	1950	E	230	D	12		
	200 HIRA	44 NS	1950	E	820	D	260		
	207 VORO	44 NS	2200		300		208		
	950 GORK	20 GRF	0511.4	0559.9	99.8	5.5	3		
	700 SYDN	2 S	0524	0524.2	0.9			50R MR	
	1000 TYKH	45 C	0529	0530.3	5	1.9	0.9		
	100 HIRA	41 F	0634	0638.5	9	1200			
	950 GORK	21 GRF	0910.7	0939	88.9	4.9	2		
	100 GORK	46 C	0919.9	0920.7	17.8	550			
	100 GORK		0919.9	0929.3		550		RECORD DIST	
	100 GORK		0919.9	0931.3		510			
	127 TORN	49 GB	0920	0921.5	18	280	100		
	127 TORN		0920	0930.3	3	1500	500		
	200 GORK	48 C	0920.2	0920.7U	17.2	390			
	200 GORK		0920.2	0931.3		31000		2R	
	200 GORK		0920.2	0933.6		31000			
	536 ONDR	41 F	0921	0938	33	70	11		
	260 ONDR	41 F	0923.6	0929	155	213	41		
	234 POTS	45 C	0925	0929.9	11	3500	70		
	510 POTS	45 C	0925	0928.5	19	35		1 2 1	ML 95R HL 95R SL
	950 GORK	46 C	0928.7	0937	10.3	34			
	950 GORK		0928.7	0938.6		133			
	808 ONDR	41 F	0928.8	0938.1	10.5	107	22		
	1470 POTS	46 F	0929	0931.8	21	28	3.4		
	9240 ARCE	20 GRF	0930.1	0936.6	47.5			95R HL	
	3100 CRIH	1 S	0930	0936	12	3.5	1		
	3000 POTS	22 F	0931	0937	12	4.1			
	237 TRST	47 GB	0931	0931.5	1.2	2500			
	9100 GORK	1 S	0934	0936.5	5	4.1	2		
	950 GORK	45 C	0955.9	0956.1	2.1	6.9	3	95R HL	
	950 GORK		0955.9	0957.2		8			
	1470 POTS	2 F	0956	0957	2.5	1.7			
	234 POTS	41	1012.3	1012.4	11	500	1		
	950 GORK	2 S	1029	1029.2	1	18	8		
	9240 ARCE	1 S	1034	1034.5	1.2			95R SL	
	234 POTS	40 F	1247	1248.4	1.7	875	20		
	234 POTS	40 F	1346.6	1347.6	1.1	350	25		
	930 BORD	3 S	1525	1525.3	0.7	23	2		
	18 MCMA	6 S	1609	1610	3				
	18 MCMA	42 SER	1638	1647	10			95R HL	
	18 MCMA	42 SER	1621	1623	10				
	100 HIRA	45 C	2016	2017.7	4	320	80		
	700 SYDN	40 F	2231.7	2259.9	40.3				
	1000 TYKH	45 C	2249	2258.8	15	9	1		
5	1000 TYKH	45 C	0013	0015.3	12	2.8	0.6	95R HL	
	100 HIRA	45 C	0021.3	0021.8	1.7	220	80		
	700 SYDN	40 F	0034.3	0036.3	10.8				
	1000 TYKH	45 C	0043	0046.1	11	4.6	1.3		
	100 HIRA	43 NS	0150	0455	455	0	20		
	200 GORK	44 NS	0300	E	600	D	100	95R SL	
	100 GORK	44 NS	0301	E	600	D	10		
	221 ABST	44 NS	0500		240	47			
	260 ONDR	44 NS	0550	E	570	D	101		
	127 TORN	44 NS	0550	E	550	D			
	177 DHIN	44 NS	0855		247	D	400	200	95R SL
	169 DHIN	44 NS	0855		247	D	300	75	
	160 DHIN	44 NS	0855		247	D	150	40	
	606 SGMR	44 NS	0944	E	850	D	14.6		
	245 SGMR	44 NS	0944	E	850	D	363.9		

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AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME		TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT				$10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$			
					UT	MINUTES	PEAK	MEAN		
	416 SGMR	44 NS	0944	E	1428.5	850 0	87.4			
	200 HIRA	44 NS	1950	E	0823	820 0	390	80		SL
	207 VORO	44 NS	2200		0235	300	52			
	100 HIRA	43 NS	2315		0538	620 0	680	200		SL
	1000 TYKH	45 C	0209		0220.2	23	5	1		95R
	700 SYDN	45 C	0210		0221.7	21.4				
	2000 TYKH	5 S	0215		0218.5	10	0.9	0.3		OR
	1400 SYDN	20 GRF	0216.1		0218.5	12.6				
	1000 TYKH	45 C	0242		0246.5	14	3.7	0.5		70R
	2000 TYKH	5 S	0246.4		0246.7	0.6	0.6	0.2		SR
	700 SYDN	20 GRF	0315.5		0317	7.2				
	700 SYDN	45 C	0316.4		0321.8	7.6				
	1000 TYKH	45 C	0316		0317.6	11	2.8	1		95R
	1000 TYKH	45 C	0345		0352.8	17	3	0.9		70R
	700 SYDN	40 F	0348.5		0352.7	19.3				
	606 MANI	4	0350.3		0355.3	9.3	11.7	4.6		
	1000 TYKH	45 C	0442		0443.6	10	1.7	0.5		50R
	1000 TYKH	5 S	0508		0508.4	2	0.8	0.2		SR
	100 GORK	6 S	0600		0603	0.9	350	170		
	234 POTS	45 C	0651.6		0651.8	0.4	300	60		
	127 TORN	7 C	0719.3		0721.3	3	110	45		
	536 ONDR	40 F	0820			200	15			
	100 HIRA	45 C	0827.5		0828.6	11.5	340	30		HL
	500 HIRA	45 C	0827.5		0828.8	1.5	40	10		HL
	127 TORN	45 C	0828.3		0829.5	4.3	150	30		
	950 GORK	1 S	0828.7		0829.1	1	2.5	1.1		
	950 GORK	1 S	0853.5		0855.6	4.7	2.5	0.9		
	9240 ARCE	1 S	1036.4		1036.8	0.9				
	9240 ARCE	29 PBI	1037.3			6				
	808 ONDR	8 S	1110		1110	0.2	32			
	9240 ARCE	20 GRF	1411.7		1421.8	71				
	7000 SAOP	21 GRF	1411.7			112.3		5.7		
	2800 OTTA	22 GRF	1412		1421	80	4.8	2.4		
	7000 SAOP	20 GRF	1418.3			5.6		2		
	7000 SAOP	20 GRF	1426.2			4		1.1		
	18 MCMA	42 SER	1920		1931	39			1	
	1420 BOUL	8 S	2005.5		2006.5	1.5	9	3		
	100 HIRA	45 C	2008.5		2009.3	1.5	330	100		HL
	2800 OTTA	22 GRF	2054		2058	65	1.6	0.8		
	1420 BOUL	8 S	2057.5		2058.5	1.5	5			
	1420 BOUL	1 S	2104		2105.5	4	3	1		
	4995 BOUL	3 S	2225		2226	4	8	3		
	1420 BOUL	8 S	2228.5		2229	1	25	8		
	1406 SYDN	45 C	2229		2229.9	1				
	1000 TYKH	5 S	2355		2356.4	3	1.5	0.7		SR
6	1000 TYKH	5 S	0112		0113	2	0.7	0.2		
	200 GORK	44 NS	0310	E		50		70		
	100 GORK	44 NS	0314	E		346 0		44		
	200 GORK	44 NS	0400	E		354 0		500		
	221 ABST	44 NS	0500		0740	240	95			
	127 TORN	44 NS	0540	E	0712	560 0	2000			
	260 ONDR	44 NS	0555	E		575 0	202			
	245 SGMR	44 NS	0945	E	1011.9	848 0	332.3			
	410 SGMR	44 NS	0945	E	1532.8	848 0	283			
	207 VORO	44 NS	2100		0208	360 0	17			
	200 HIRA	43 NS	2305		0207	630 0	23	4		HL
	1000 TYKH	45 C	0409		0410.1	6	7	0.5		10R
	1400 SYDN	40 F	0410.1		0412.7	8.7				
	950 GORK	40 F	0410.2		0410.5	4.7	3.6			
	950 GORK		0410.2		0414.8		3.4			
	2000 TYKH	45 C	0410		0415.9	7	6	1		90R
	1000 TYKH	45 C	0423		0434.3	17	58	9		20R
	1000 TYKH		0423		0425.8		46			
	1000 TYKH		0423		0432.6		49			
	1000 TYKH		0423		0438.1		49			
	2000 TYKH	45 C	0423		0435.5	18	23	4		55R
	2000 TYKH	29 PBI	0441			40	2	1		
	950 GORK	46 C	0424.3		0425.9	14.5	61	20		
	950 GORK		0424.3		0432.5		82			
	950 GORK		0424.3		0438.4		88			
	950 GORK	29 PBI	0424.3		0439.1	166.90	13	4		
	606 MANI	22	0424.5		0433.9	45.5	22.6	9.4		
	1415 MANI	4	0424.5		0432.3	16		22.1		
	1400 SYDN	2 S	0425.3		0425.8	1.4				
	700 SYDN	45 C	0425.4		0425.6	1.4				
	100 GORK	6 S	0425.5		0425.9	0.6	1000	500		
	700 SYDN	40 F	0428.4		0502.1	60.1				
	2695 MANI	2	0430		0432.3	10.5	7	2.8		
	2950 GORK	22 GRF	0430		0432.1	10.9	7.5	4		
	1400 SYDN	45 C	0430.2		0431.8	10.7				
	500 HIRA	24 R	0430		0837	300 0	40	8		HL
	3750 TYKH	5 S	0430		0432	50	4	2		OR
	1000 TYKH	27 RF	0430		0448	62	10	3		45R
	9400 TYKH	5 S	0430		0432	40	8	2		OL

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AUGUST 1976

AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
7	127 TORN	47 GB	0616	0618.8	4	700	200	2	SR
	234 POTS	45 C	0619	0837	209	450			
	1000 TYKH	45 C	0623 U	0627.8	9 U	5	1 U		
	536 ONDR	41 F	0625	0838.5	160	32	4		
	808 ONDR	8 S	0629.2	0629.2	0.2	32			
	950 GORK	20 GRF	0758.7		22.1				
	950 GORK	20 GRF		0849 U	29.6	3.5	1.5		
	1470 POTS	4 F	1007	1011.7	12	14	2.6		
	3000 POTS	4 F	1011	1011.8	6	8.7			
	3100 CRIM	1 S	1011	1012	4	5	2		
	237 TRST	41 F	1012.3	1012.7	0.8	300			8R
	245 SGMR	6 S	1056.2	1107	16.2	52.8	10.6		
	127 TORN	47 GB	1056.8	1057.7	1.3	600	250		
	1470 POTS	40 F	1100	1136.5	70	8			
	606 SGMR	1 S	1105.9	1107	1.9	4.5	1.4		
	2695 SGHR	1 S	1105.9	1107	1.9	4.9	1.5		
	3000 POTS	22 F	1105	1134.5	63	7.5			
	1415 SGHR	1 S	1106	1106.9	1.9	5.5	1.6		
	2695 PENT	1 S	1106	1107	2	2.4	1		
	9500 POTS	20	1113	1145	47	7.6			
	2695 PENT	21 GRF	1130	1136	35	2.4	1.2		
	245 SGHR	6 S	1131	1134	18	204.4	40.9		
	410 SGHR	6 S	1131.5	1133.9	15.9	15.9	3.2		
	2695 SGHR	2 S/F	1131.8	1134.6	7	8.5	2.6		
	606 SGHR	2 S/F	1132	1134.3	3.5	6	1.8		
	1415 SGHR	2 S/F	1132.2	1136.5	4.6	7.6	2.3		
	237 TRST	42 SER	1133.8	1134.5	6.2	240			0
	2695 PENT	40 F	1134.2	1134.7	3	4.8			
	2695 PENT	40 F	1305	1313	13	17.4			
	18 MCMA	42 SER	1432	1440	22				
	18 MCMA	6 S	1535	1540	7				
	18 MCMA	4 F	1600	1606	10				
	100 HIRA	45 C	0031	0031.2	1	900	250		
	2695 MANI	4	0154.5	0159.3	5.8	15.3	5.1		
	606 MANI	4	0154.5	0159.6	6	31.7	8.8		
	1415 MANI	4	0154.5	0159.3	5.8	61	6.6		
	4995 MANI	4	0154.5	0159.7	5.8	54	19.4		
	9400 TYKH	45 C	0154	0159.2	13	18	4		OL
	9400 TYKH		0154	0156.4	7				
	3750 TYKH	45 C	0154	0159.6	13	105	3 D		
	3750 TYKH		0154	0155.5		5			
	3750 TYKH		0154	0159.3		18			
	2000 TYKH	45 C	0154	0159.1	6	18	4		
	2000 TYKH		0154	0156		16			
	2000 TYKH	29 PBI	0200		15	2	1		
	1000 TYKH	45 C	0155 E	0159.3	7 D	375 U	15 D		
	1000 TYKH		0155 E	0156.2		21			
	1000 TYKH		0155 E	0159.5		54			
	500 HIRA	45 C	0156.3	0156.5	0.5	90	25		
	8800 MANI	4	0158.5	0200	3	12.6	2.5		
	500 HIRA	45 C	0158.6	0159.3	1.4	170	80		
	100 HIRA	45 C	0158.7	0159	1	1180	500		
	200 HIRA	45 C	0158.8	0158.8	0.5	520	130		
	100 GORK	44 NS	0306 E		354 D		50		
	200 GORK	44 NS	0306 E		414 D		10		
	100 HIRA	43 NS	0430	0619	300 D	240			SL
	127 TORN	44 NS	0540 E	1331.8	560 D	200			
	260 ONDR	44 NS	0620 E		550 D	125			
	221 ABST	44 NS	0700	0856	120	9			
	536 ONDR	43 NS	0900		410 D	36	9		
	606 SGMR	44 NS	0946 E	1454.3	845 D	43.4			
	245 SGMR	44 NS	0946 E	1741.2	845 D	618.9			
	410 SGMR	44 NS	0946 E	1512.5	845 D	102			
	200 HIRA	44 NS	1950 E	2214	820 D	120	25		
	100 HIRA	44 NS	1950 E	0559	820 D	210	38		
	207 VORO	44 NS	2100	2218	360	80			
	606 MANI	4	0450	0452.9	5.7	10.2	1.6		
	606 MANI	40	0516.8	0520.6	6.2	53	1.6		
	127 TORN	45 C	0556	0558.2	8	250	140		
	127 TORN	27 RF	0721.5	0723	5	145	50		
	9240 ARCE	20 GRF	0732.8	0927.3	290				
	127 TORN	8 S	0751.8	0752.2	0.8	55	20		
	950 GORK	6 S	0842.1	0842.3	0.5	11	5		
	234 POTS	45 C	1001.6	1001.8	0.4	350	35		
	408 TRST	27 RF	1026	1047.8	35	49			
	808 ONDR	45 C	1124.4	1124.4	3	48	4		
	245 SGMR	6 S	1124.4	1124.8	3.7	242.3	48.5		
	408 TRST	42 SER	1124.5	1126.1	5	56			9R
	237 TRST	42 SER	1124.6	1124.8	1.7	670			
	606 SGMR	4 S/F	1124.6	1126.2	3.1	57.8	17.3		
	234 POTS	45 C	1124.6	1124.8	0.3	300	25		
	410 SGMR	6 S	1124.7	1126.2	5.3	26.5	8		
	930 BORD	46 C	1124.8	1125	2.8	78	3		
	127 TORN	47 GB	1125	1126.4	4.2	520	150		

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AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
8	127 TORN		1125	1125.3	0.8	700 D	400		
	1415 SGMR	1 S	1125.6	1125.9	1	6.6	2.3		
	7000 SAOP	40 F	1300		240				
	245 SGMR	6 S	1304.4	1304.5	.4	64.2	6.4		
	606 SGMR	4 S/F	1304.5	1304.6	.2	16.7	5		
	237 TRST	41 F	1304.5	1304.6	0.3	170			7R
	410 SGMR	6 S	1304.6	1304.8	.4	4.1	1.2		
	18 MCMA	6 S	1336	1337	2			1	
	237 TRST	5	1338.5	1338.5	0.1	130	39		1L
	808 ONDR	41 F	1425.3	1451.6	56	38	21		
	9240 ARCE	21 GRF	1534.1	1540.4	11				
	245 SGMR	6 S	1536	1536.5	1	111.70	22.30		
	606 SGMR	2 S/F	1536.2	1536.7	1.3	8.40	2.50		
	9240 ARCE	2 S/F	1536.6	1537.1	1.6				
	7000 SAOP	1 S	1819.3	1819.6	1.4	2.4	1.2		
	500 HIRA	26 FAL	1950 E	2035	240 0	20	5		HL
	100 HIRA	45 C	2135	2141.7	9	1200	350		WL
	1000 TYKH	45 C	2137	2138.1	2.5	1.1	0.2		OR
	1000 TYKH	45 C	2140.5	2141.4	2.5	12	2.5		25R
	2000 TYKH	5 S	2140.5	2141.2	2.5	1.4	0.5		OR
	606 SGMR	4 S/F	2140.6	2141.3	1.7	41.3	12.4		
	245 SGMR	6 S	2140.6	2140.9	1.4	108	21.6		
	410 SGMR	6 S	2140.8	2141.5	1.6	52.4	10.5		
	9400 TYKH	5 S	2140	2141.4	4	7	2		OL
	100 HIRA	45 C	0208.2	0209	1.5	1100	650		HL
	100 HIRA	45 C	0212	0213.5	6	350	50		WL
	200 GORK	44 NS	0303 E		237		40		
	100 GORK	44 NS	0304 E		356 D		25		
	127 TORN	44 NS	0540 E	1041.8	560 0	360			
	200 GORK	44 NS	0700		174 0		5		
	260 ONDR	44 NS	0705 E		491 0	44			
	100 HIRA	44 NS	1950 E	2029	820 0	35	12		SL
	200 HIRA	44 NS	1950 E	2119	820 0	14	3		SL
	207 VORO	44 NS	2100	2113	360	18			
	127 TORN	48 C	0542 U	0555.7	50	600			
	127 TORN	45 C	0628	0629	4.3	920	250		
	100 HIRA	45 C	0640	0640.9	2.5	600	200		SL
	100 HIRA	45 C	0729.5	0730.1	1	600	230		WL
	808 ONDR	8 S	0841.7	0841.7	0.3	50			
	9240 ARCE	2 S/F	0841.8	0842.3	1				
	9240 ARCE	29 PBI	0842.8		8.5				
	2950 GORK	1 S	0842	0842.4	0.6	3.6	1.6		
	930 BORO	46 C	0842	0842.5	0.7	25	3		
	127 TORN	46 C	0851	0854.7	9	320			
	127 TORN	8 S	0929.8	0920.5	1.5	200	70		
	245 SGMR	44 NS	0947 E	1054.6	843 0	72.4			
	410 SGMR	44 NS	0947 E	1400.2	843 0	5.7			
	18 MCMA	42 SER	1540	1643	77			2	
	18 MCMA	42 SER	1716	1717	12			2	
	100 HIRA	45 C	2024	2026.4	4	700	150		SL
9	200 GORK	44 NS	0300 E		420 0		5		
	100 GORK	44 NS	0300 E		420 0		5		
	221 ABST	44 NS	0500	0722	240	6			
	260 ONDR	44 NS	0650 E		512 0	40			
	127 TORN	43 NS	0657 U	1040	486 0	160			
	245 SGMR	44 NS	0948 E	1537.5	552 0	52.7			
	410 SGMR	44 NS	0948 E	1257	552 0	24.8			
	237 TRST	41 F	1024.3	1024.4	0.2	390			9R
	127 TORN		0657 U	1144.7		380			
	237 TRST	41 F	0721.9	0722	0.3	750			17R
	234 POTS	45 C	0722	0722	0.1	350	100		
	127 TORN	45 C	0915.8	0916.9	2.5	190	45		
	127 TORN	45 C	0956	0957	2	120			
	18 MCMA	42 SER	1620	1701	206				
	18 MCMA	42 SER	1953	1955	14				
	200 HIRA	44 NS	1955 E	0123	815 0	50	18		SL
	207 VORO	44 NS	2100	0019	360	56			
10	200 GORK	44 NS	0300 E		420 0		15		
	100 GORK	44 NS	0300 E		420 0		5		
	221 ABST	44 NS	0500	0533.5	240	13			
	260 ONDR	44 NS	0626 E		534 0	51			
	127 TORN	44 NS	0740 E		440 0				
	177 DWIN	44 NS	0947		348 0	70	30		
	169 DWIN	44 NS	0947		348 0	120	30		
	160 DWIN	44 NS	0947		348 0	150	20		
	221 ABST	45 C	0732	0733	2	41	25		
	9240 ARCE	1 S	0749.5	0749.7	1.4				
	127 TORN	7 C	1140.7	1142.3	4	35	10		
	536 ONDR	8 S	1356.8	1356.8	0.3	39			
	245 SGMR	44 NS	1700 E	1930.3	407 0	61.6			
	410 SGMR	44 NS	1700 E	2237.3	407 0	22.4			
	200 HIRA	44 NS	1955 E	2038	815 0	38	14		SL

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AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
11	207 VORO	44 NS	2230	2245	300	26			
	200 GORK	44 NS	0312 E		408 0		10		
	100 GORK	43 NS	0312 E		342 0		5		
	221 ABST	44 NS	0500	0832	240	6			
	260 ONDR	44 NS	0540 E		568 0	50			
	127 TORN	44 NS	0540 E		560 0				
	160 OWIN	44 NS	0817		418 0	30	5		
	240 OWIN	44 NS	0817		418 0	10	5		
	177 OWIN	44 NS	0817		418 0	30	5		
	169 OWIN	44 NS	0817		418 0	30	5		
	245 SGMR	44 NS	0950 E	1640.2	836 0	186.8			
12	410 SGMR	44 NS	0950 E	1314.4	836 0	13.3			
	200 HIRA	44 NS	1955 E	0316	815 0	24	3		SL
	207 VORO	44 NS	2100	2357	360	16			
	2800 OTTA	32 ABS	1408	1432	55	-1.2	-0.6		
	100 GORK	44 NS	0300 E		600 0		5		
	200 GORK	44 NS	0303 E		597 0		7		
	221 ABST	44 NS	0500	0644	240	8			
	260 ONDR	44 NS	0635 E		515 0	57			
	160 OWIN	44 NS	0903		358 0	10	2		
	253 OWIN	44 NS	0903		358 0	20	5		
	240 OWIN	44 NS	0903		358 0	20	5		
13	169 OWIN	44 NS	0903		358 0	20	2		
	245 SGMR	44 NS	0951 E	2002	834 0	161			5
	410 SGMR	44 NS	0951 E	2043.3	834 0	56.9			5
	200 HIRA	44 NS	1955 E	2022	540 0	22	2		SL
	207 VORO	44 NS	2100	0207	360	35			
	237 TRST	41 F	1421.9	1422.4	0.7	140			14R
	18 HCHA	4 F	1503	1504	18			1	
	200 GORK	44 NS	0303 E		99		5		
	700 SYON	40 F	0422.3	0429.1	13.6				
	260 ONDR	44 NS	0638 E		508 0	27			
	100 GORK	43 NS	0800		60		5		
14	245 SGMR	44 NS	0952 E	1204.2	831 0	24			
	200 GORK	44 NS	1100		120		5		
	160 OWIN	43 NS	1146		200 0	20	5		
	177 OWIN	43 NS	1146		200 0	20	5		
	169 OWIN	43 NS	1146		200 0	20	5		
	127 TORN	43 NS	1147 U	1239	180 0	75			
	410 SGMR	43 NS	1149.7	1548.2	713.30	31.4			
	100 GORK	43 NS	1200		60 0		5		
	127 TORN	40 F	0740 E	0921.7	150 0	9			
	127 TORN	40 F	0740 E	0955		10			
	3000 POTS	20	1143		1150	23	2.7		
15	9240 ARCE	22 GRF	1145.2	1151.2	22				ATHOS ATTEN
	9500 POTS	22 F	1145	1151	13				
	2695 PENT	21 GRF	1145	1230	130	1.4	1		
	253 OWIN	45 C	1148	1148.5	1	70	5		
	240 OWIN	45 C	1148	1148.5	1	35	5		
	1470 POTS	20	1148	1150	10	2.1			
	2695 PENT	1 S	1148	1152	6	2	1.5		
	127 TORN	45 C	1149	1149.5	2.5	15	4		
	2695 PENT	22 GRF	1420	1440	210	2.8	2		
	9240 ARCE	20 GRF	1422.2	1440.2	41				
	253 OWIN	45 C	1428	1429	6	35	5		
16	240 OWIN	45 C	1428	1429	6	15	5		
	260 ONDR	44 NS	0635 E		139	29			ATHOS ATTEN
	9240 ARCE	2 S/F	0934.4	0934.6	0.8				
	207 VORO	44 NS	2100	0015	360	12			
	260 ONDR	44 NS	0637 E		528 0	17			
	1420 BOUL	1 S	1612.5	1613.5	2.5	1			
	207 VORO	44 NS	2223	2354	277	11			
	200 GORK	44 NS	0300 E		390		5		
	100 GORK	46 S	0355.9	0356	0.6	120	60		
	100 GORK	6 S	0441.7	0443.20	3.8	400			
	200 GORK	44 NS	0441.9	0443.40		135			
17	200 GORK	41 F	0441.9	0442	2.3	135			
	260 ONDR	44 NS	0639 E		509 0	18			
	9240 ARCE	1 S	1210.3	1210.5	0.5				
	3100 CRIM	24 R	1221	1300 U	39 0	2.5	1		
	200 GORK	44 NS	0306 E		594 0		5		
	221 ABST	41 F	0614	0615	1	10			
	260 ONDR	44 NS	0640 E		511 0	10	1		
	127 TORN	43 NS	0936 U	0953.4	320 0	28			
	100 GORK	43 NS	1009		171 0		5		
	3100 CRIM	20 GRF	0630	0715	165	2	1		
	2800 OTTA	20 GRF	1426	1430	25	1.4	0.7		

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AUG 1976	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10 ⁻²² W m ⁻² Hz ⁻¹		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
	1420 BOUL	8 S	1842.5	1844.5	12.5	99	33		
	2800 OTTA	3 S	1843.5	1844.7	4.5	32	8		
	2695 SGMR	3 S	1843.7	1844.7	5.8	33.7	10.1		
	7000 SAOP	28 PRE	1843 E	1843.7	0.70	9.2	4.60		
	7000 SAOP	4 S/F	1843.7	1844	1.5	57.3	26.8		
	7000 SAOP	29 PBI	1845.2	1845.2	2.2	4.4	2.2		
	4995 SGMR	3 S	1843.8	1844.9	5	36	10.8		
	1415 SGMR	4 S/F	1843.8	1844.9	4.9	94.3	28.3		
	245 SGMR	49 GB	1843.9	1846.4	13.9	1557.9	311.6		
	606 SGMR	47 GB	1844	1845	6.7	621.8	186.5		
	410 SGMR	48 C	1844.1	1844.9	7.2	542.4	108.5		
	8800 SGMR	3 S	1844.4	1844.8	1.5	41.6	12.5		
	15400 SGMR	3 S	1844.5	1844.8	3	20.4	6.1		
	2695 BOUL	8 S	1844	1845	4.5	28	9		
	2695 BOUL	31 ABS	1848.5	1850.5	14.5	2	1		
	2800 OTTA	31 ABS	1848	1905	87	-1			
	18 MCMA	6 S	1848	1850	3			1	
	4995 BOUL	8 S	1852.5	1854.5	3.5	26	9		
19	3100 CRIM	1 S	0906	0907	2	3	1		
	127 TORN	5 S	0914	0914.3	2	30	10		
	237 TRST	41 F	1201	1201.1	0.3	46			1R
20	9240 ARCE	1 S	1314.6	1314.9	1.2				
21	2695 PENT	1 S	1118.5	1121	5	2	1.2		
	2695 PENT	22 GRF	1308	1310	12	1.2	0.6		
22	809 ONDR	45 C	1153.3	1159.6	16.5	68	9.7		
	260 ONDR	46 C	1153.8	1201.3	40	33	7.8		
	260 ONDR		1153.8	1158.3		20			
	260 ONDR		1153.8	1205		24			
	536 ONDR	45 C	1155.8	1200.3	14	9	6.4		
	3000 POTS	46 F	1156.5	1211.5	67	115			
	1470 POTS	46 F	1158	1211.8	58	50			
	2695 SGMR	46 C	1158.4	1207.6	54.7	129.4	42.4		
	2695 PENT	46F C	1158	1211.5	32	152			
	2695 PENT	29 PBI	1230	1230	58	7.4	2.5		
	237 TRST	47 GB	1159	1206.2	22	20			0
	228 HARS	46 C	1159.2	1206.2	15.8	60	27		
	4995 SGMR	46 C	1159.4	1205.3	53.6	156.2	51.2		
	9240 ARCE	46 C	1159.5	1207.9	18.9				
	9240 ARCE		1159.5	1201.3	3.2				
	9240 ARCE		1202.7	1205.7	4.2				
	9240 ARCE		1206.9	1207.9	3.3				
	9240 ARCE		1210.2	1211.5	8.2				
	9240 ARCE	29 PBI	1218.4		48				
	8800 SGMR	46 C	1159.6	1205.6	32.5	111.8	39.4		
	245 SGMR	6 S	1200.6	1205.9	15.1	40	8		
	15400 SGMR	46 C	1200.7	1205.5	23.9	58.5	18.3		
	410 SGMR	6 S	1200.8	1203	13.6	22.1	4.4		
	9500 POTS	45	1200	1207.8	100	90			
	408 TRST	47 GB	1201	1202.7	10.6	25			
	127 TORN	49 GB	1201.5	1202.3	24 U	1700 0	50		
	127 TORN		1201.5	1205	6.5	1000 0	250		
	127 TORN		1201.5	1224.1		500 0			
	234 POTS	45 C	1203.2E	1203.4	6.40	4000			
	15400 SGMR	46 C		1207.6		61			
	8800 SGMR	46 C		1207.8		131.2			
	4995 SGMR	46 C		1207.4		170.8			
	2695 SGMR	46 C		1211.4		141.4			
23	700 SYON	42 SER	0108	0109	173.4				
	9240 ARCE	2 S	1325.5	1325.7	0.6				
26	2695 BOUL	3 S	1657.5	1659.5	2	12	4		
	4995 BOUL	8 S	1701.5	1702.5	2.5	14	5		
	2695 BOUL	1 S	1733.5	1734	1.5	3	1		
27	260 ONDR	43 NS	0640		506 0	17			
	9240 ARCE	4 S/F	1245	1245.2	0.8				RECORD DIST
	9240 ARCE	22 GRF	1441.2	1611	107				
	9240 ARCE	1 S	1628.7	1628.9	0.7				
	9240 ARCE	3 S	1709 U	1711.4	3.3				ATMOS SCINT
	18 MCMA	6 S	2246	2247	2			1	
	207 VORO	44 NS	2328	0016	212	12			
28	221 ABST	6 S	0629	0629.5	1	20			
	260 ONDR	44 NS	0650 E		530 0	9			
	221 ABST	41 F	0751.2	0751.5	1	11			
	207 VORO	44 NS	2238	0022	262	15			
29	200 GORK	43 NS	0312		72		5		
	260 ONDR	44 NS	0646 E		476 0	18			
	200 GORK	44 NS	0721		159		5		

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			UT	UT	MINUTES	PEAK	MEAN		
30	221 ABST	43 NS	0721.2	0731.8	25	10			
	207 VORO	44 NS	2100	0002	360	25			
	200 GORK	43 NS	0309		591		5		
	221 ABST	6 S	0618.8	0619	1	28			
	260 ONDR	44 NS	0640 E		508 0	57			
	169 DWIN	44 NS	0813		400 0		2		
	160 DWIN	44 NS	0813		400 0		2		
	253 DWIN	44 NS	0813		400 0	20	3		
	240 DWIN	44 NS	0813		400 0	20	2		
	177 DWIN	44 NS	0813		400 0		2		
	9240 ARCE	2 S/F	1308.5	1308.7	0.9				
	207 VORO	44 NS	2100	2355	360	21			
	1420 BOUL	8 S	2109.5	2110.5	1.5	2	1		
	18 MCMA	6 S	2316	2318	5			1	
31	200 GORK	44 NS	0323 E		537		5		
	260 ONDR	44 NS	0639 E		512 0	14			
	221 ABST	43 NS	0644	0649	32	9			
	160 DWIN	44 NS	0900		338 0	10	3		
	253 DWIN	44 NS	0900		338 0	30	7		
	240 DWIN	44 NS	0900		338 0	40	5		
	176 DWIN	44 NS	0900		338 0	10	5		
	169 DWIN	44 NS	0900		338 0	10	5		
	245 SGMR	43 NS	1405	1516.9	550 0	144.8			3
	207 VORO	44 NS	2200	2238	120	24			
	200 GORK	8 S	0346.2	0346.5	3.2	30			
	3100 CRIM	46 C	0621	0622	5	3.5	1		
	3100 CRIM		0621	0625		3.5			
	3100 CRIM	1 S	0639	0639	1	2.5	1		
	200 GORK	8 S	0654.9	0655	2.1	30			
	9240 ARCE	21 GRF	0748.8	0757.4U	130 U				
	9240 ARCE	45 C	0817 U	0822.3	43 U				
	9240 ARCE		0817 U	0822.3	6.1U				
	9240 ARCE		0823.1U	0825.8	36.9U				
	127 TORN	41 F	1118	1129	12	23			
	18 MCMA	6 S	1730	1733	4			1	
	18 MCMA	6 S	2331	2332	2			1	

Reports received from the following observatories:

ARCE = Arcetri	DWIN = Dwingeloo	KIEV = Kiev	OTTA = Ottawa	SYDN = Sydney
BERL = Berlin-Adlershof	GORK = Gorky		PENT = Penticton	TORN = Torun
BORD = Bordeaux	HARS = Harestua		POTS = Potsdam	TYKW = Toyokawa
BOUL = Boulder	HIRA = Hiraiso	MANI = Manila	SAOP = Sao Paulo	TRST = Trieste
CRIM = Simferopol	HUAN = Huancayo	MCMA = McMath-Hulbert	SGMR = Sagamore Hill	VORO = Voroshilov (Ussurisk)
	IRKU = Irkutsk	ONDR = Ondrejov		

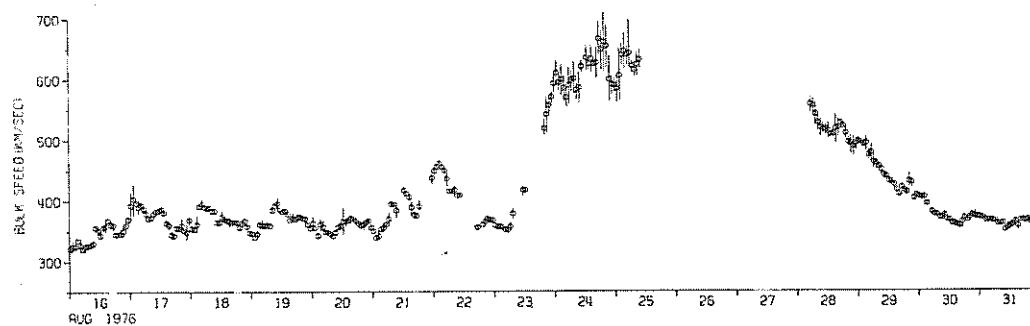
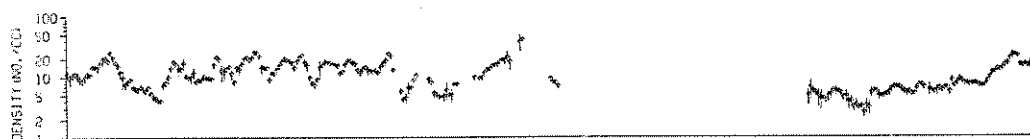
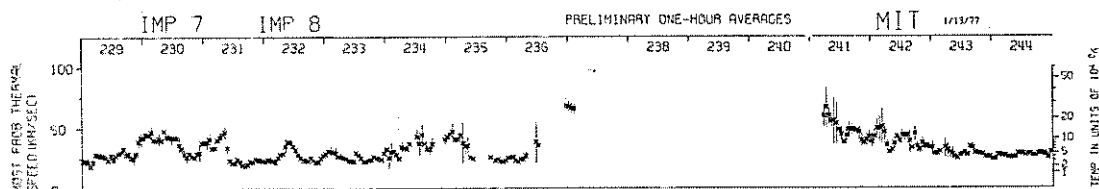
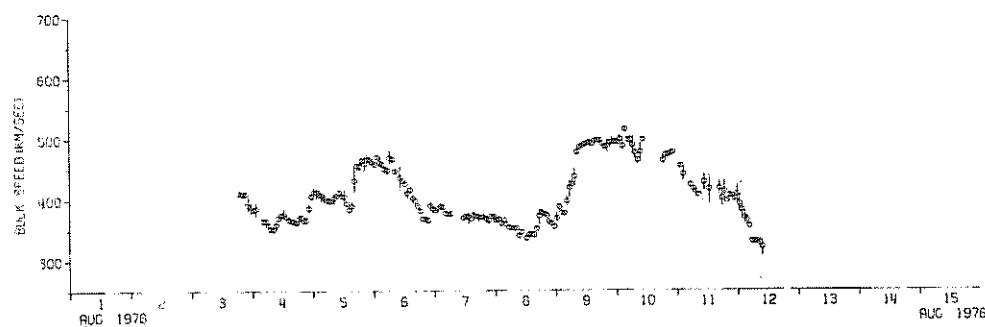
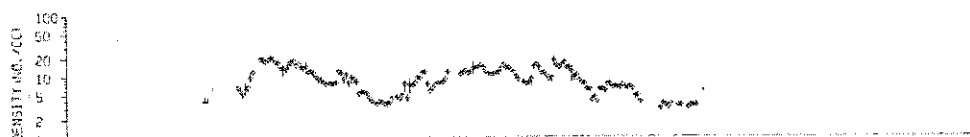
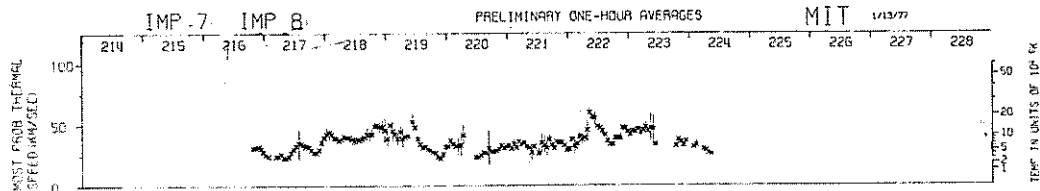
22
Aug 76

IMP 7 AND 8 SOLAR WIND PLASMA

AUGUST 1976

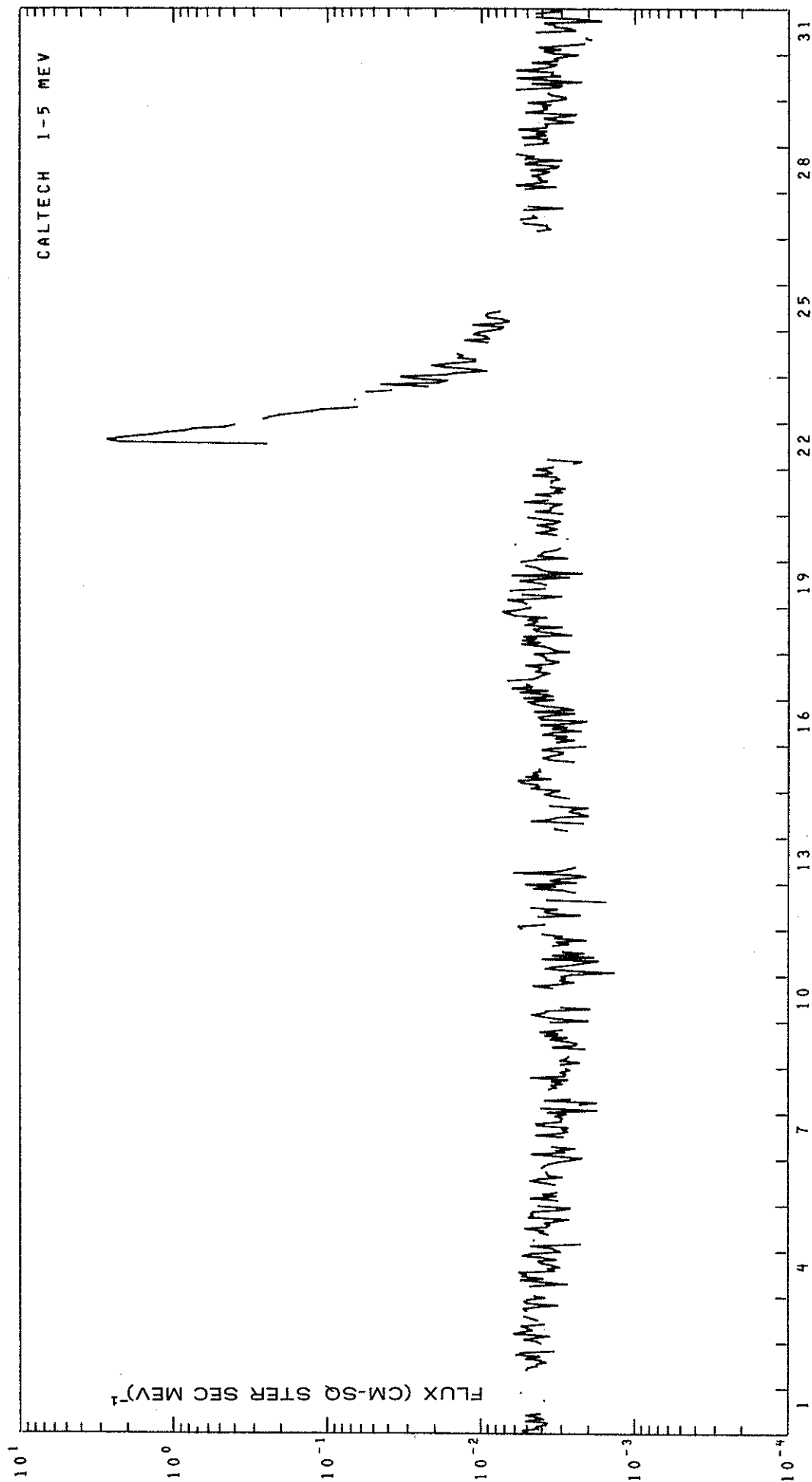
PRELIMINARY ONE-HOUR AVERAGES

MIT 1/13/77



IMP 7 AND 8 ELECTRONS

AUGUST 1976

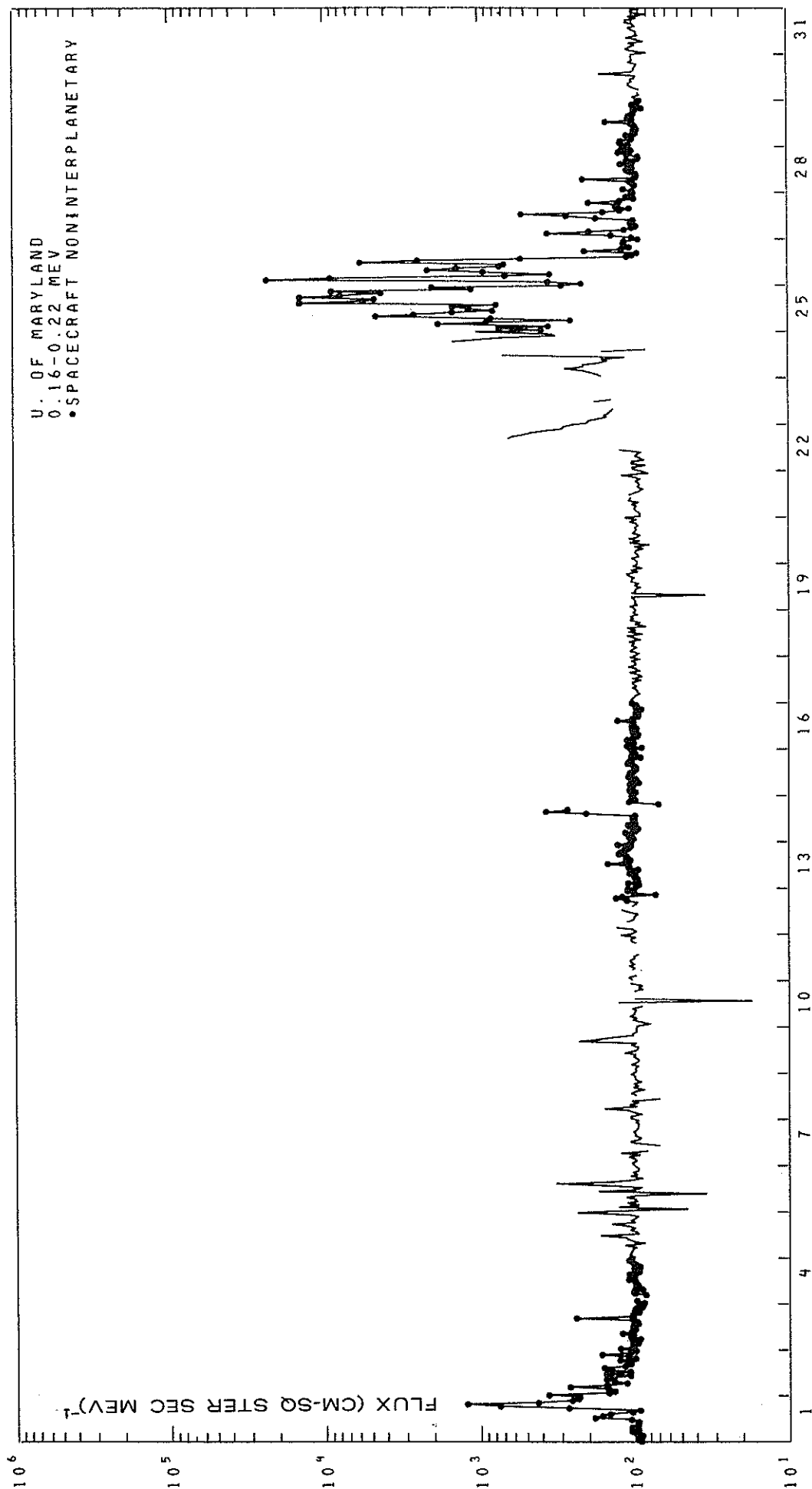


23
Aug 76

IMP 7 AND 8 LOW ENERGY PROTONS

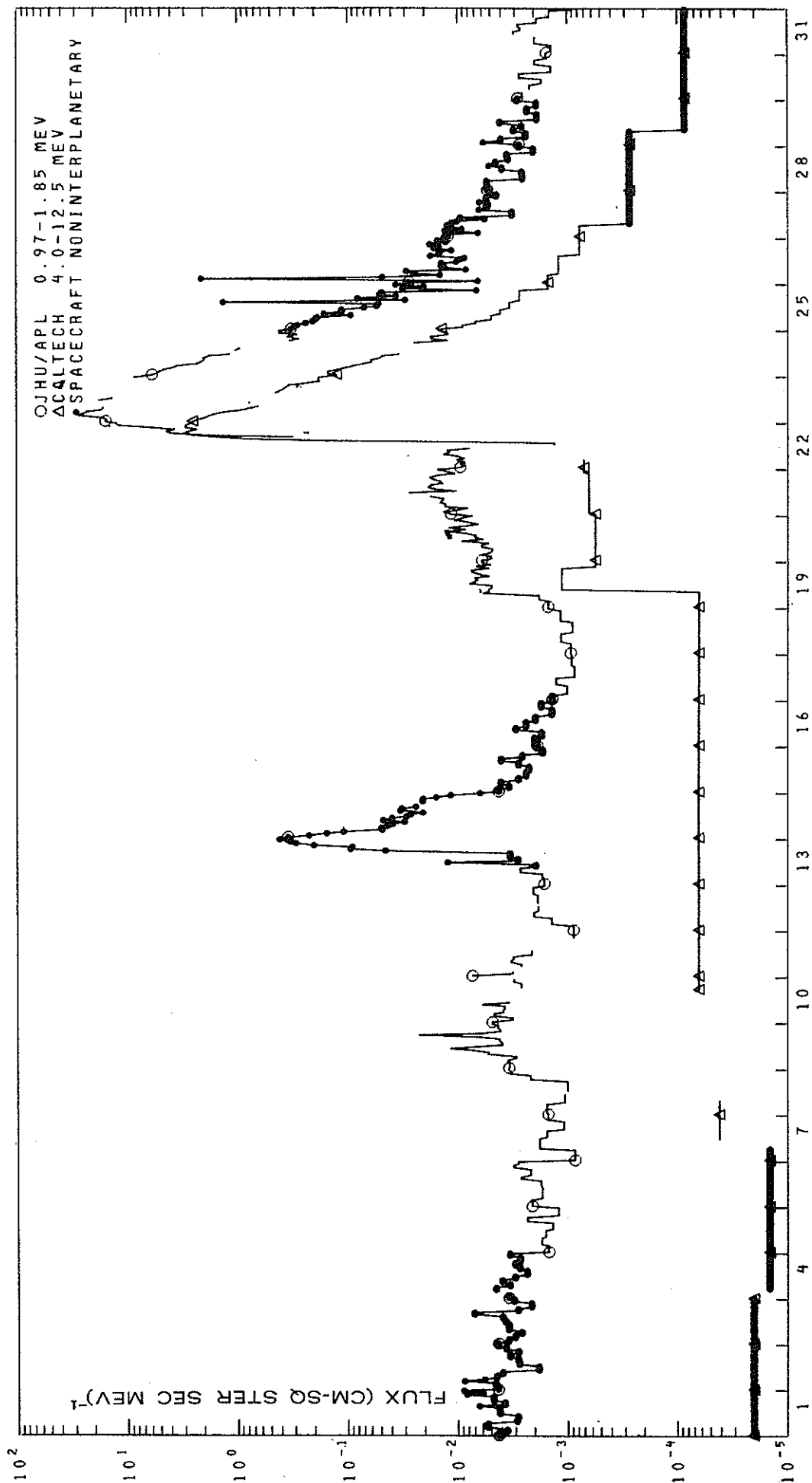
24
Aug 76

AUGUST 1976



IMP 7 AND 8 INTERMEDIATE ENERGY PROTONS

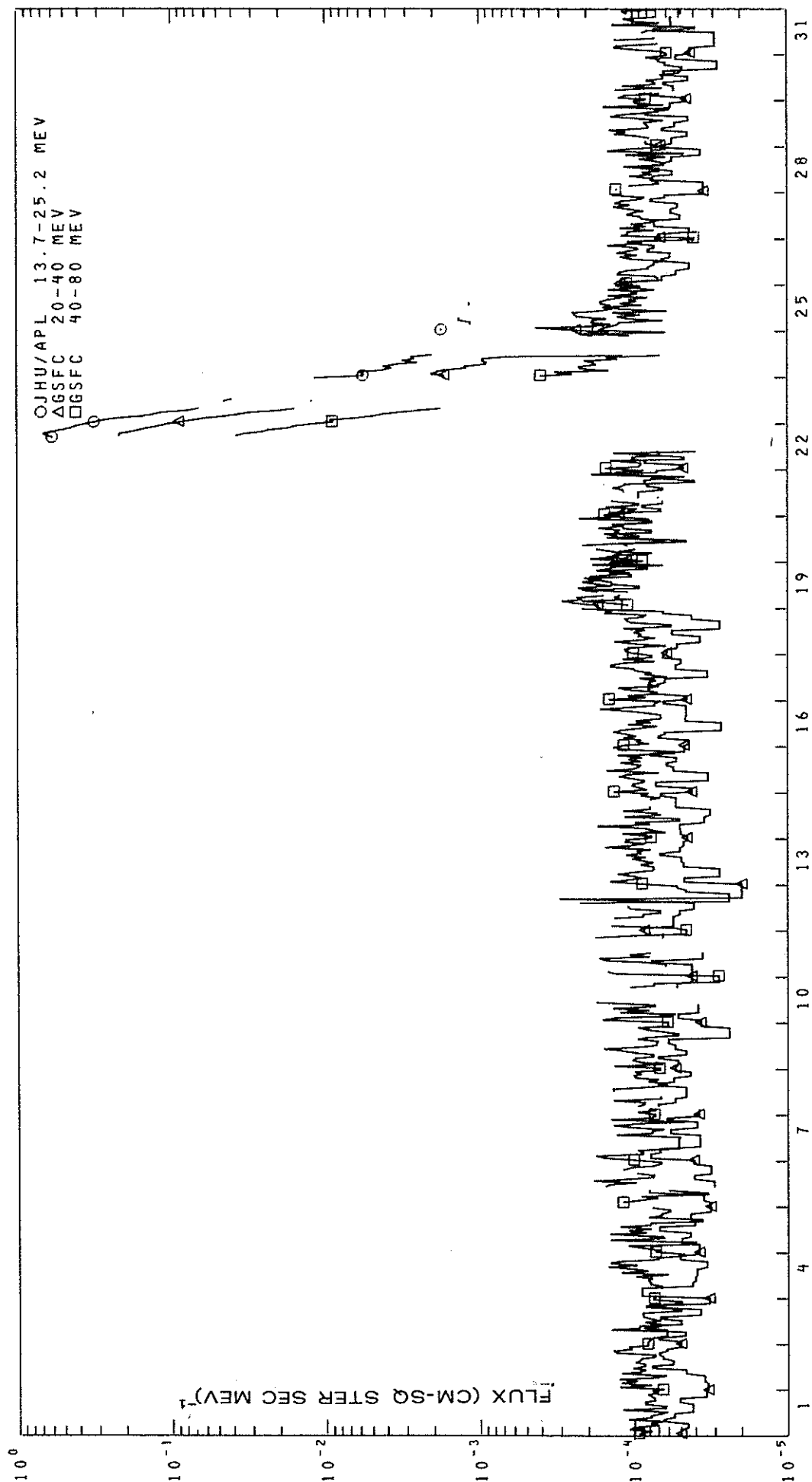
AUGUST 1976



25
Aug 76

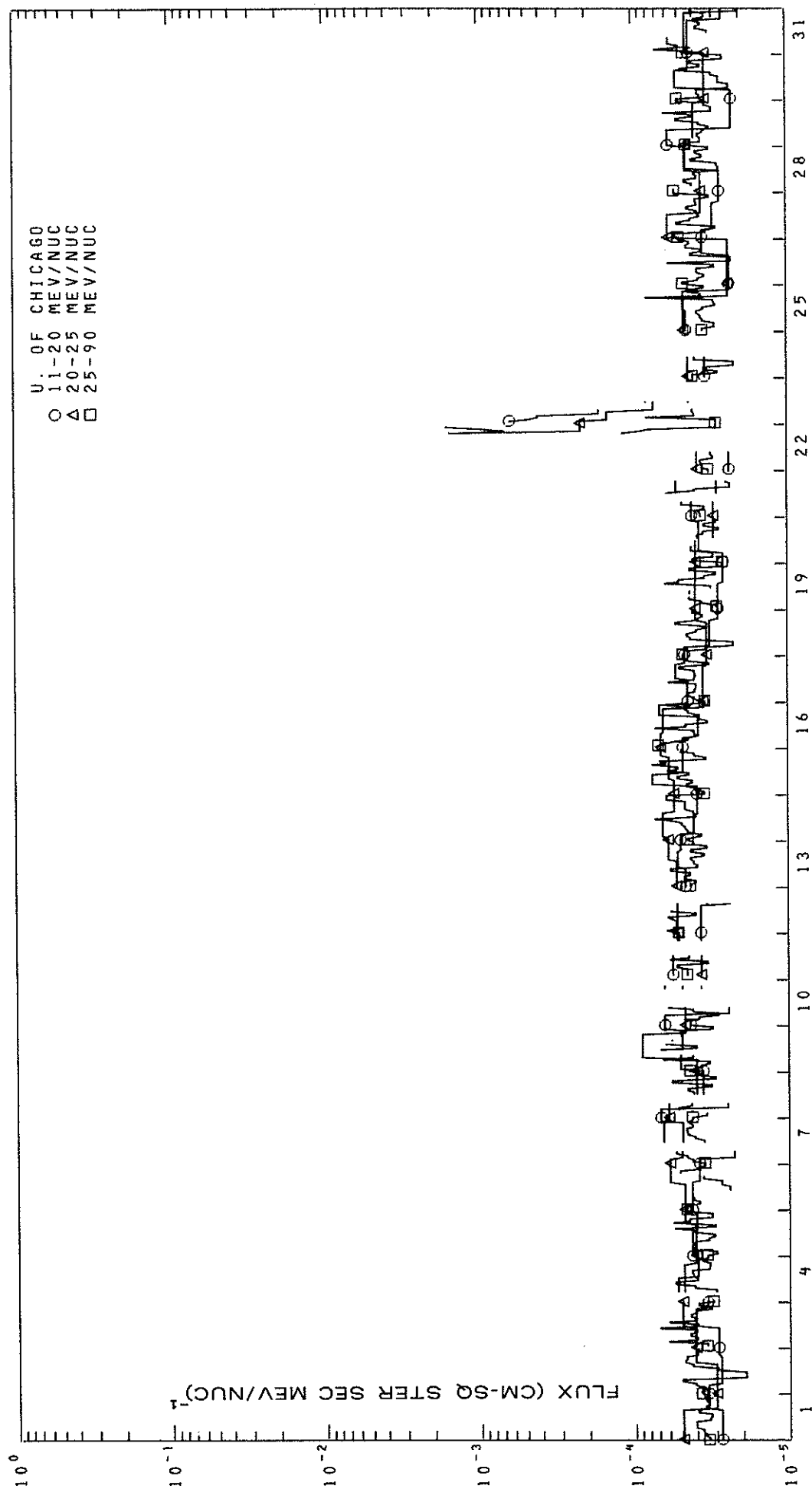
IMP 7 AND 8 HIGH ENERGY PROTONS

AUGUST 1976



IMP 7 AND 8 ALPHA PARTICLES

AUGUST 1976



27
 Aug 76

JULY 1976 DATA

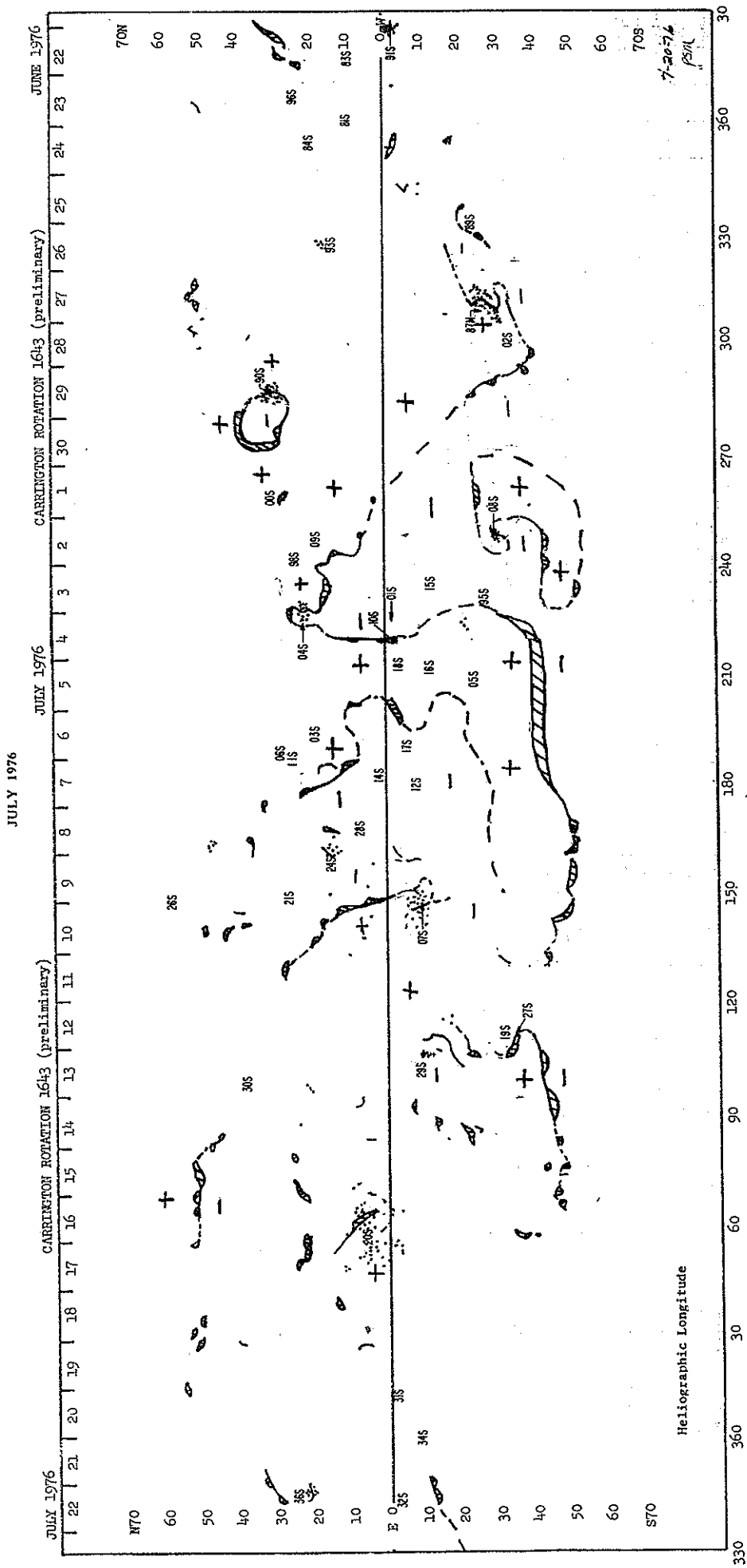
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<u>Abbreviated Calendar Record</u>	32-39
<u>Regional Flare Index</u>	39

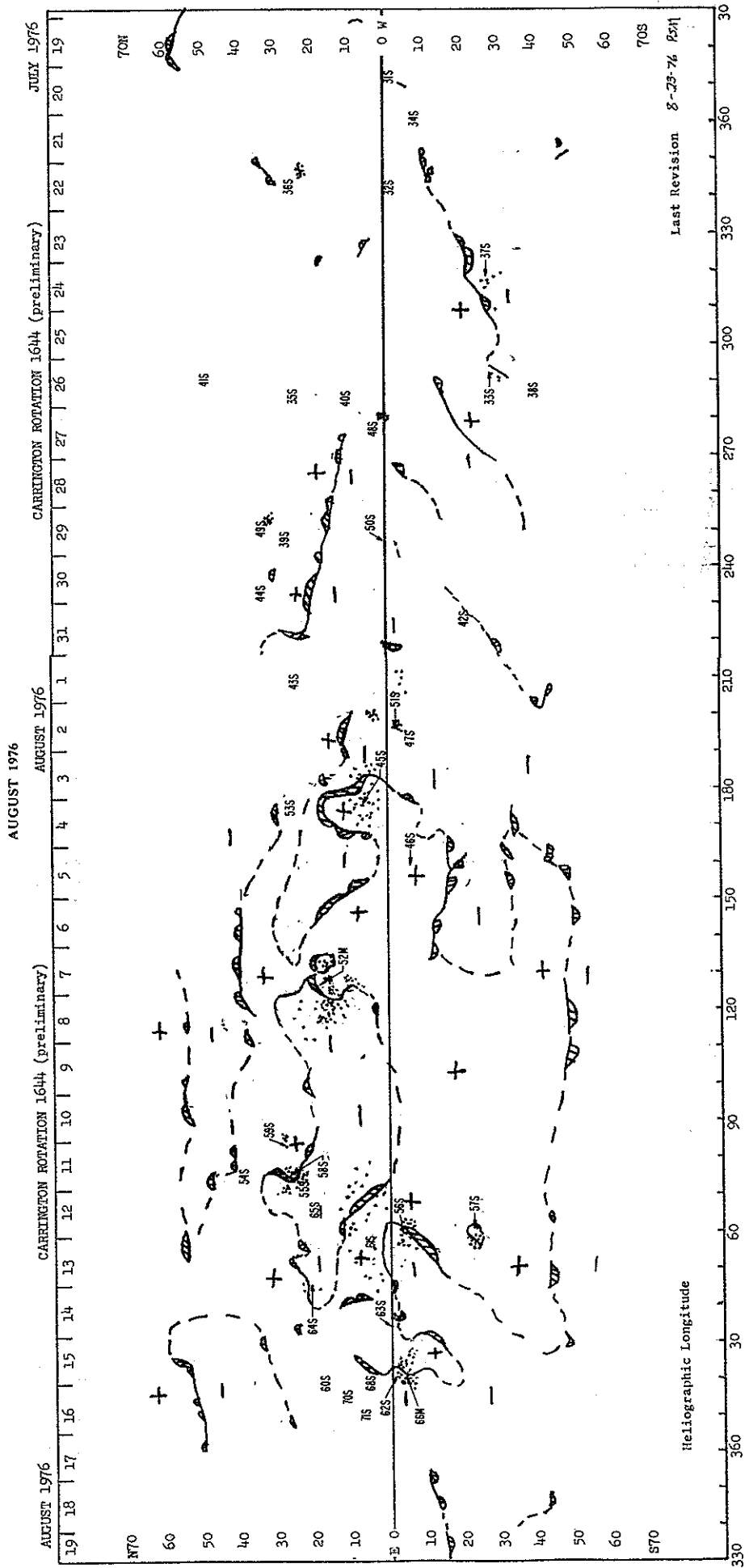
30
Jul 76

ABBREVIATED CALENDAR RECORD

H α SYNOPSIS CHART



ABBREVIATED CALENDAR RECORD H α SYNOPTIC CHART



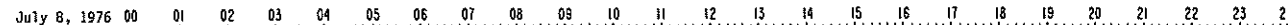
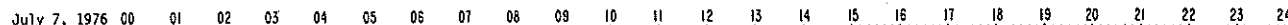
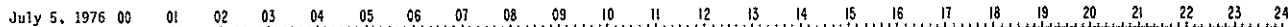
ABBREVIATED CALENDAR RECORD

July 1, 1976		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Okm																										
SID																											
X-Rays																											
Ap 1803+	Kp	3+			5-				3+			4o			3-			3-			2o			2o			
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona	E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data																										
Indices	Rz: 9 IO cm flux: 67 Flare: 0/22.4 Co: 1.5 Ip: 0 Ia: 5																										
Solar Regions	(14300) #29																										
Sunspots																											

July 2, 1976		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 9	Kp	3a 2- 2+ 2+ 3- 2+ 2- 2-																									
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona	E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- no data SW- no data																										
Indices	Rz: 8 IO cm flux: 67 Flare: 0/21.7 Co: 1.7 Ip: 0 Id: 2																										
Solar Regions	(14308) S31 (14309) N18 (14298) N24																										
Sunspots																											

		July 3, 1976																											
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
FLARES																													
Bursts	cm																												
	dm																												
	m																												
	Dkm																												
SID																													
X-Rays																													
Ap 12	Kp	10 30 3- 3+ 2+ 3+ 2- 30																											
	sc																												
Aurora	USSR																												
	W.E.																												
Cosmic Rays																													
Green Corona		E Limb 7 days earlier: NE- SE- W Limb 7 days later: NW- no data SW- no data																											
Indices		Rz: 14 10 cm flux: 67 Flare: 0/22.1 Ca: 1.4 Ip: 0 Ia: 2																											
Solar Regions		(14315) S12 (14295) S27 {2}																											
Sunspots																													

July 4, 1976		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
FLARES																													
Bursts	cm																												
	dm																												
	m																												
	dkm																												
SID																													
X-Rays																													
Ap 14	Kp	2o 2o 4- 3+ 3o 3+ 4- 1+																											
Aurora	USSR																												
	W.E.																												
Cosmic Rays																													
Green Corona	E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- no data SW- no data																												
Indices	Rz: 8 IO cm flux: 66 Flare: 0/23.6 Co: 2.0 Ip: 0 Id: 5																												
Solar Regions	(14301) S01 14304 N22 (14310) S03																												
Sunspots	19701 N21 bp CMP July 3																												



July 9, 1976		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
FLARES																												
Bursts	cm																											
	dm																											
	m																											
	Dkm																											
SID																												
X-Rays																												
Ap 10	Kp	3+			4-				2-				2+				2o				2+				2-			2-
	sc																											
Aurora	USSR																											
	W.E.																											
Cosmic Rays																												
Green Corona		E. Limb 7 days earlier: NE-										SE-					W. Limb 7 days later: NW- no data					SW- no data						
Indices	Rz:	0	IOcm flux: 67					Flare: 0/21.7					Ca: 0.7					Ip: 0					Ia: 0					
Solar Regions		(14324) N15					(14321) N25					(14326) N58																
Sunspots																												

July 10, 1976 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 6	Kp	1+		2+			2o			2o			1o			1o			1+			1+			
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- no data SW- no data																								
Indices	Rz: 0 IO cm flux: 68 Flare: 0/20.8 Co: 0.5 Ip: 0 Ia: 0																								
Solar Regions	14307 S10																								
Sunspots																									

July 11, 1976 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 4q3	Kp	1o		1o			1o			1o			1-			1o			1+				1+		
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona		E. Limb 7 days earlier: NE-						SE-						W Limb 7 days later: NW- no data						SW- no data					
Indices		Rz: 0		10cm flux: 68				Flare: 0/23.1		Ca: 0.6		Ip: 0				Ia: 0									
Solar Regions																									
Sunspots																									

July 12, 1976 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24					
FLARES																														
Bursts	cm																													
	dm																													
	m																													
	Dkm																													
SID																														
X-Rays																														
Ap 5Q10	Kp	2o		2-			1o			1-			1+			1o			1+			2o								
	sc																													
Aurora	USSR																													
	W.E.																													
Cosmic Rays																														
Green Corona	E Limb 7 days earlier: NE-									SE									W. Limb 7 days later: NW-	no data				SW-	no data					
Indices	Rz: 0					10 cm flux: 68					Flare: 0/19.5					Ca: 1.2					Ip: 0					Ia: 0				
Solar Regions	(14319) S32											(14327) S34																		
Sunspots																														

July 14, 1976	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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Jul 15, 1976 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

July 16, 1975	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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FLARES																
Bursts	cm															
	dm															
	m															
	Dkm															
SID																
X-Rays																
Ap 160%	Kp	3o		3o		4+		3-		3o		3o		3+		2+
	sc															
Aurora	USSR															
	W.E.															
Cosmic Rays																
Green Corona	E Limb 7 days earlier: NE-		no data		SE		no data		W Limb 7 days later: NW-				SW-			
Indices	Rz: 0	10 cm flux: 68		Flare: 2/22.5		Ca: 2.0		Ip: 0				Ia: 2				
Solar Regions	14320 N05 (2)															
Sunspots	N05															

July 17, 197600		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 509	Kp sc	1+ 2- 1o 1o 1o 1+ 2- 2-																							
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corana	E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data																								
Indices	Rz: 0 10cm flux: 67 Flare: 0/22.3 Ca: 1.1 Ip: 0 Ia: 0																								
Solar Regions																									
Sunspots																									

		July 18, 1976 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24																											
FLARES																													
Bursts	cm																												
	dm																												
	m																												
	Dkm																												
SID																													
X-Rays																													
Ap 6	Kp	1+ 2o 2o 0+ 1- 1o 2+ 2o																											
Aurora	USSR																												
	W.E.																												
Cosmic Rays																													
Green Corona	E. Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- SW-																												
Indices	Rz: 0 10 cm flux: 68 Flare: 0/23.1 Ca: 1.0 Ip: 0 Ia: 0																												
Solar Regions																													
Sunspots																													

July 19, 197600		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Okm																								
SID																									
X-Rays																									
Ap 6	Kp	3-		1o			2o			1o			1+			2-			1o			0+			
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data																								
Indices	Rz: 0 10cm flux: 68 Flare: 0/21.5 Ca: 0.5 Ip: 0 Ia: 0																								
Solar Regions																									
Sunspots																									

July 20, 2976 00		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 402	Kp	1+		1+			1+			1o			1o			1-			1-			1-			
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- no data SW- no data																								
Indices	Rz: 0 IO cm flux: 67 Flare: 0/20.7 Ca: 0.4 Ip: 0 Ia: 0																								
Solar Regions		(14331) S01																							
Sunspots																									

July 22, 1976	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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July 23, 197600 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

July 24, 1976	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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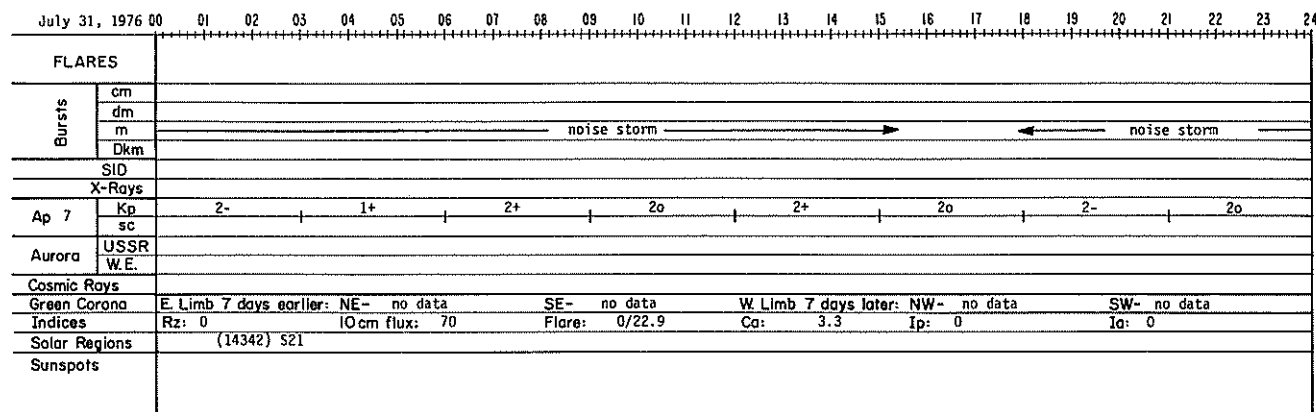
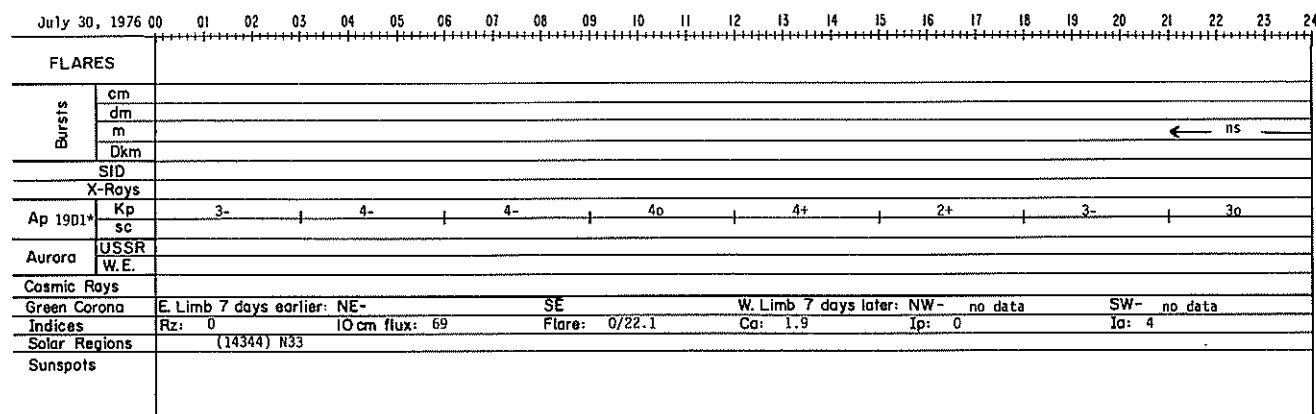
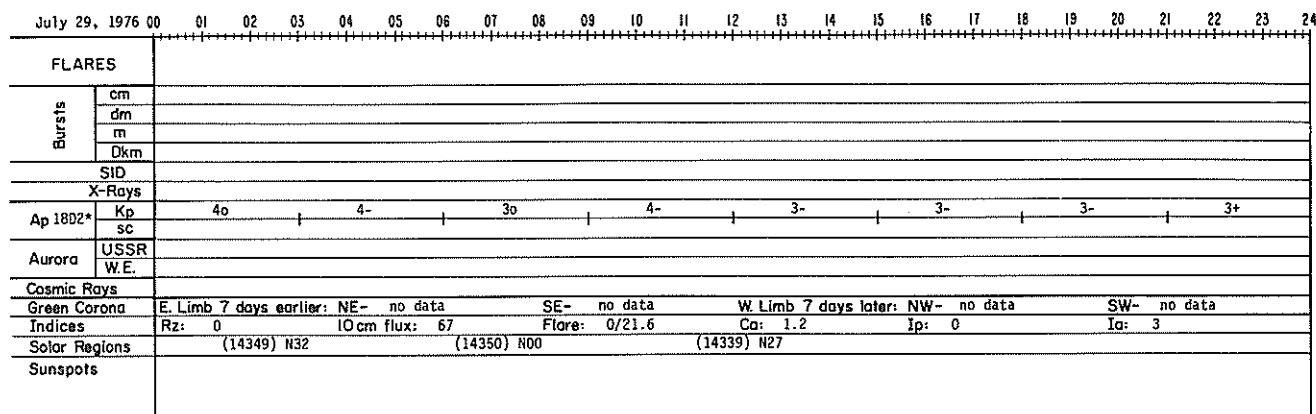
FLARES																	
Bursts	cm																
	dm																
	m																
	Dkm																
SID																	
X-Rays																	
Ap 407	Kp sc	0+		0+		0o		1-		1+		1+		2+		2o	
Aurora	USSR W.E.																
Cosmic Rays																	
Green Carana	E Limb 7 days earlier: NE- no data SE no data W Limb 7 days later: NW- no data SW- no data																
Indices	Rz: 0 10 cm flux: 67 Flare: 2/21.7 Ca: 0.2 Ip: 0 Ia: 0																
Solar Regions	(14337) S28																
Sunspots																	

July 25, 1976		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 9	Kp	4-			2+				2o			2-			3-			2-			1o			2+	
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE- no data SE- no data W. Limb 7 days later: NW- no data SW- no data																								
Indices	Rz: 0 10cm flux: 67 Flare: 0/17.0 Ca: 0.3 Ip: 0 Ia: 0																								
Solar Regions																									
Sunspots																									

July 26, 197600		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
FLARES																											
Bursts	cm																										
	dm																										
	m																										
	Dkm																										
SID																											
X-Rays																											
Ap 405	Kp	3- 1- 0o 0o 1- 0+ 1o 2-																									
	sc																										
Aurora	USSR																										
	W.E.																										
Cosmic Rays																											
Green Corona	E Limb 7 days earlier: NE- no data SE no data W. Limb 7 days later: NW- no data SW- no data																										
Indices	Rz: 0 IO cm flux: 66 Flare: 0/21.4 Ca: 0.3 Ip: 0 Ig: 1																										
Solar Regions	(14333) S30 (2) (14341) N48 14338 S40 (14335) N24 (14340) N10																										
Sunspots																											

July 27, 197600		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dm																								
	m																								
	Dkm																								
SID																									
X-Rays																									
Ap 8	Kp sc	1-		1+			1-			3-			2-			1+			3o			3o			
Aurora	USSR W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE- no data SE- no data W Limb 7 days later: NW- SW-																								
Indices	Rz: 0 IQcm flux: 67 Flare: 0/23.8 Ca: 0.7 Ip: 0 Ia: 0																								
Solar Regions	(14348) N02																								
Sunspots																									

July 28, 197600		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
FLARES																									
Bursts	cm																								
	dcm																								
	m																								
	Dcm																								
SID																									
X-Rays																									
Ap 16	Kp	3+ 3- 4- 30 3+ 30 4- 2+																							
	sc																								
Aurora	USSR																								
	W.E.																								
Cosmic Rays																									
Green Corona	E. Limb 7 days earlier: NE- SE W. Limb 7 days later: NW- no data SW- no data																								
Indices	Rz: 0 10 cm flux: 67 Flare: 0/23.7 Ca: 0.4 Ip: 0 Ia: 3																								
Solar Regions																									
Sunspots																									



REGIONAL FLARE INDEX

INCLUDES ALL FLARES

MC MATH PLAGE NO.	LAT	CHP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
14328	N 7	76/07/08.4	76/07/15	76/07/15	.84	.84	1
14324	N15	76/07/09.1	76/07/13	76/07/14	2.65	1.33	3
14330	N38	76/07/13.0	76/07/16	76/07/16	1.90	1.90	1
14333	S24	76/07/20.2	76/07/24	76/07/24	2.06	2.06	1

Note:

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 flares during its disk passage.

Miscellaneous Data

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SELECTED SOLAR EVENTS

AUGUST 1976

Culgoora

UT Date 197.6 AUGUST	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions		Polar- ization	Inten- sity (1-3)		
				Central Dist. (R _g)	Position Angle (Deg.)				
31/1	2300	0500	43.25 80 160	1.1	80	2	1 1 2	IS	Type I persisted until 18th, often double, with strong type III activity from same region.
2	0151	0156	80 160	1.0 .7 .3 .4	30 50 30 50	0 0	3 3	IIIGG,V	*
7	0201	0212	43.25 80 160	.8 .7 .6	340 350 0	- 0 0	3	II	From same region as type I
8	0208	0211	43.25 80 160	.4 .2 .1	300	- 0 0	3	IIIGG	* Bipolar when strong.
12	2342	2345	43.25 80 160	1.1	320 290 320 320	- 0 0	3 2 2	IIIG,U	*
17	0441	0444	80 160	1.1 1.1 .9	150 150 150	0	3	IIIG,V,U	
29	2300	0500	160	1.1 1.2	80 75	2	1	IS	Double type I source from 28th until 31st.

Days without Heliograph observations: Nil

* Other type III's observed from same position during the day.

SELECTED SOLAR EVENTS

SEPTEMBER 1976

Culgoora

UT Date 197.6	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions		Polar- ization	Inten- sity (1-3)		
				Central Dist. (R _☉)	Position Angle (Deg.)				
SEPTEMBER									
31/1	2300	0500	43.25 } 80 } 160 }	.8	45	2	2 1 2	IS	The type I region persisted until 8th, 160 MHz double at times, accompanied by type III activity.
1	2244	2247	43.25 } 80 } 160 }	1.25 } 1.2 } 1.1 }	320	- } 0 } 0 }	2 2 -	IIIG,U *	Other type III's from this region until 4th.
4	0242	0248	43.25 } 80 } 160 }	1.0 } .5 } .3 }	230	0	3 3 2	IIIG,U	*
6	0135	0147	80 } 160 }	.9 } .7 }	320		3 2	II	Accompanied by possible weak type IV from this region.
9/10	2300	0500	160	.8	140	variable	1	I	Type I activity from this region persisted until 14th, accompanied by type III's.
14	0041	0042	80 } 160 }	1.2 } 1.0 }	30	0 }	2	IIIG,U	*
17	0129	0132	80 } 160 }	1.2 } 1.1 }	110	0	2	IIIB	
27	0433	0434	43.25 } 80 } 160 }	1.2 } 1.1 } .9 }	80	0	1	IIIG,U	
30	0137	0143	43.25 } 80 } 160 }	.4 } .5 } .5 }	355 } 355 } 350 }	- } 0 } 0 }	1	IIIG	

Days without Heliograph observations: Nil

* Other type III's observed at same position during the day.

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SELECTED SOLAR EVENTS

OCTOBER 1976

Culgoora

UT Date 197.6 OCTOBER	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions		Polar- ization	Inten- sity (1-3)		
				Central Dist. (R ₀)	Position Angle (Deg.)				
1	0424	0426	43.25 } 80 } 160 }	.5 .4 .2	0	- } 0 } 0 }	2	IIIGG,V	
2/3	2300	0500	80 160 }	1.1 .9	250 250 } 320 }	l r l	1 1	IS	Type I activity from this region persisted until 5th accompanied by type III's.
8	0058	0100	43.25 80 }	1.0 1.1	300 280 } 310 }	- 0 } 0 }	3 2	IIIG,V	*
12	0438	0441	43.25 } 80 } 160 }	1.2 } 1.2 } 1.1 }	100	- 0 0	2 2 1	IIIGG	*
14/15	2300	0500	160	.5	180	l	1	I	
25/26	2300	0500	43.25 } 80 } 160 }	.7	330	variable	1	IS	Type I activity from this region persisted until 30th, with strong type III activity.
30	0320	0324	43.25 } 80 } 160 }	1.5 } 1.5 } 2.0 }	300	- 0 0	3 2 3	IIIGG,V	*

Days without Heliograph observations: Nil

* Other type III's observed at same position during the day.

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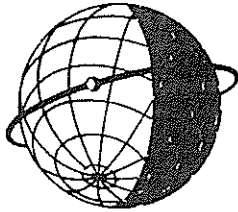
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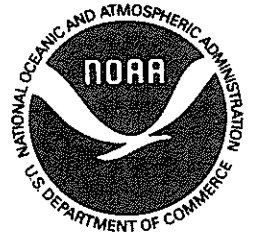
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SOLAR-TERRESTRIAL PHYSICS



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