



U.S. DEPARTMENT OF COMMERCE
Juanita M. Kreps, Secretary
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
Richard A. Frank, Administrator
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Thomas D. Potter, Acting Director

Solar - Geophysical Data,

NO. 420 AUGUST 1979

Part II (Comprehensive Reports)

**DATA FOR
FEBRUARY 1979
JANUARY 1979**

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

For obtaining bulletins on a data exchange basis, send request to: World Data Center A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado 80302.

For sale through the National Geophysical and Solar-Terrestrial Data Center, NOAA, Boulder, CO 80302. Subscription Price: \$34.00 annually for both Part I (Prompt Reports) and Part II (Comprehensive Reports) or \$18.00 annually for either part. Annual supplement containing explanation is included. For foreign mailing add \$32.00 for both parts or \$16.00 for either part. Single issue price \$1.50 for either part and \$1.40 for the extra issue. Make checks and money orders payable to: Department of Commerce, NOAA/NGSDC.

To standardize referencing these reports in the open literature, the following format is recommended:

Solar-Geophysical Data, 390 Part I (or Part II), pages, February 1977, U.S. Department of Commerce, (Boulder, Colorado, U.S.A. 80303).

SOLAR-GEOPHYSICAL DATA

No. 420

Issued in two parts

Helen E. Coffey, Editor

J. Virginia Lincoln, Chief
Solar-Terrestrial Physics Division

CONTENTS

	PAGE
Part I (Prompt Reports)	
Index for 1978 - 1979	2
Data for July 1979	3-41
Data for June 1979	43-169
Part II (Comprehensive Reports)	
Index for 1978-1979	2
Data for February 1979	3-54
Data for January 1979	55-65
Miscellaneous Data	67-121
<u>Solar Radio Emission</u>	
169 MHz Solar Interferometric Chart Nancy June 1979	
21 and 43 cm East-West Solar Scans Fleurbaey June 1979	
Spectral Observations Fort Davis April and May 1979	
<u>Cosmic Rays</u> --April and May 1979	
Alert, Deep River, Climax and Huancayo	
<u>Solar Flares</u> --January 1979	
H α Solar Flares (Standardized Data)	
H α Solar Flares Peking	
Daily Flare Indices	
Intervals of No Flare Patrol Observation	
<u>Regional Flare Index</u> --December 1978	

DETAILED COVERAGE FOR 1978 AND 1979 PUBLISHED IN "SOLAR-GEOPHYSICAL DATA"

	1978				1979						
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
A. SOLAR AND INTERPLANETARY PHENOMENA											
A.1	Sunspot Drawings	411A 46	412A 40	413A 48	414A 48	415A 52	416A 50	417A 44	418A 48	419A 48	420A 50
A.2a	Zurich Provisional Relative Sunspot Numbers Rz	410A 11	411A 11	412A 9	413A 11	414A 11	415A 11	416A 11	417A 9	418A 11	419A 11 420A 11
A.2b	Zurich Final Sunspot Numbers Rz	415A 10	415A 10	415A 10	415A 10						
A.2c	American Relative Sunspot Numbers RA	410A 11	411A 11	412A 9	413A 11	414A 11	415A 11	416A 11	417A 9	418A 11	419A 11 420A 11
A.3a	Mt. Wilson Magnetograms	411A 46	412A 40	413A 48	414A 48	415A 52	416A 50	417A 44	418A 48	419A 48	420A 50
A.3b	Mt. Wilson Magnetic Characteristics of Sunspots	411A106	412A102	413A108	414A110	415A 52	416A 50	417A106	418A108	419A110	420A110
A.3c	Kitt Peak Magnetograms	411A 46	412A 40	413A 48	414A 48	415A 52	416A 50	417A 44	418A 48	419A 48	420A 50
A.3d	Mean Solar Magnetic Field (Stanford)	410A 41	411A 40	412A 34	413A 42	414A 42	415A 44	416A 42	417A 36	418A 38	419A 38 420A 40
A.3e	Stanford Magnetograms					415A 52	416A 50	417A 44	418A 48	419A 48	420A 50
A.4	H-alpha Filtergrams	411A 46	412A 40	413A 48	414A 48	415A 52	416A 50	417A 44	418A 48	419A 48	420A 50
A.5	Calcium Plage Drawings - McMath (or Catania)	411A 46	412A 40	413A 48	414A 48	415A 52	416A 50	417A 44	418A 48	419A 48	420A 50
A.5a	Calcium Plage (McMath) and Sunspot Regions	411A106	412A102	413A108	414A110	415A 52	416A 50	417A106	418A108	419A110	420A110
A.5b	McMath Daily Calcium Plage Indices	411A116	412A114	413A116	414A121	415A125	416A116	417A118	418A118	419A123	420A121
A.6	H-alpha Synoptic Charts	411A 44	412A 38	413A 46	414A 46	415A 48	416A 46	417A 40	418A 42	419A 43	420A 44
A.6b	Synoptic Chart and Active Regions (Paris)	415B 4	416B 4	417B 4	418B 4	419B 4	420B 4				
A.6c	Stanford Solar Magnetic Field Synoptic Charts					415A 49	416A 47	417A 41	418A 43	419A 44	420A 46
A.6d	Kitt Peak Solar Magnetic Field Synoptic Charts							417A 41	418A 43	419A 44	420A 46
A.7f	Helium D3 Chromosphere (Big Bear)	410A 37	411A 36	---	413A 38	---	---	416A 38	417A 33	418A 34	419A 34 420A 35
A.7g	Helium Synoptic Maps (KPMO)	410A 38	411A 35	412A 30	413A 36	414A 34	415A 40	416A 36	417A 32	418A 33	419A 33 420A 34
A.7h	Coronal Line Emission (Sac Peak)	411A 46	412A 40	413A 48	414A 48	415A 52	416A 50	417A 44	418A 48	419A 48	420A 50
A.8aa	2800 MHz - Daily Values of Solar Flux (ARO-Ottawa)	410A 11	411A 11	412A 9	413A 11	414A 11	415A 11	416A 11	417A 9	418A 11	419A 11 420A 11
A.8ac	2800 MHz - Daily Values of Adj. Solar Flux (ARO-Ottawa)	410A 11	411A 11	412A 9	413A 11	414A 11	415A 11	416A 11	417A 9	418A 11	419A 11 420A 11
A.8b	Daily Values of Adjusted Solar Flux (AFGL)	410A 11	411A 11	412A 9	413A 11	414A 11	415A 11	416A 11	417A 9	418A 11	419A 11 420A 11
A.9cb	8.6 mm Radio Maps of the Sun (NOSC - La Posta)	411A 46	---	---	---	---	---	---	---	419A 48	420A 50
A.9d	2 cm Radio Maps of the Sun (NOSC - La Posta)	411A 46	---	---	---	---	---	---	---	419A 48	420A 50
A.10a	169 MHz - Interferometric Observations (Nancay)	410A 23	411A 20	412A 18	413A 21	414A 24	415A 25	416A 25	417A 21	418A 21	419A 21 420A 24
A.10c	21 cm East-West Solar Scans (Fleurs)	412B 58	411A 23	412A 21	415B 68	414A 27	415A 28	416A 28	417A 24	418A 25	420B 70 420A 27
A.10d	43 cm East-West Solar Scans (Fleurs)	412B 59	411A 24	412A 22	415B 69	414A 28	415A 29	416A 29	417A 25	418A 26	420B 71 420A 28
A.10e	10.7 cm East-West Solar Scans (Ottawa-ARO)	410A 25	411A 22	412A 20	413A 23	414A 26	415A 27	416A 27	417A 23	418A 24	419A 26 420A 26
A.10f	3 cm East-West Solar Scans (Toyokawa)	410A 24	411A 21	412A 19	413A 22	414A 25	415A 26	416A 26	417A 22	418A 23	419A 25 420A 25
A.11k	Solar X-ray Radiation (SOHAR 11)	411A120	412A118	413A119	414A126	415A129	416A120	417A119	418A122	419A126	420A124
A.11g	Solar X-ray (SMS/GOES) (graphs)	416B 96	416B 52	417B 41	418B 31	419B 33	420B 53				
A.12ba	Cosmic Ray Protons (Pioneers 6 & 7)	---	---	---	---	414A 36	---	---	---	---	---
A.12bb	Cosmic Ray Protons (Pioneers 8 & 9)	---	---	412A 29	---	414A 37	---	---	---	---	---
A.12e	Energetic Solar Particles (IMP H & J)	416B 91	416B 46	417B 36	418B 26	---	420B 48	---	---	---	---
A.12f	Energetic Solar Particles (GWS/SEM)	---	---	---	---	---	---	---	---	---	---
A.13a	Solar Wind (Pioneers 6 & 7)	---	---	---	---	414A 36	---	---	---	---	---
A.13ab	Solar Wind (Pioneers 8 & 9)	---	---	412A 29	---	414A 37	---	---	---	---	---
A.13d	Solar Wind From IPS Measurements	410A 39	414B 50	414B 51	414B 52	414A 39	415A 45	416A 39	417A 37	418A 35	419A 35 420A 37
A.13e	Solar Plasma (IMP H & J)	415B 53	416B 45	417B 35	418B 25	419B 32	419B 47	---	---	---	---
A.13f	Solar Wind (Pioneer 12 (Venus))	---	---	---	---	414A 38	415A 39	416A 35	417A 31	418A 32	419A 32 420A 36
A.17	Interplanetary Magnetic Field (Pioneer 8)	---	---	---	---	---	---	---	---	---	---
A.17c	Interplanetary Magnetic Field (Pioneer 9)	---	---	412A 29	---	414A 37	---	---	---	---	---
A.17d	Inferred IP Magnetic Field	410A 40	411A 38	412A 32	413A 40	415A 42	416A 42	417A 34	417A 34	418A 36	419A 36 420A 38
A.18	Interplanetary Electric Field (Pioneer 8)	---	---	---	---	---	---	---	---	---	---
A.18	Interplanetary Electric Field (Pioneer 9)	---	---	412A 29	---	414A 37	---	---	---	---	---
B. IONOSPHERIC (AND RADIO WAVE PROPAGATION) PHENOMENA											
B.52	Graphs of Transmission Frequency Range	411A158	412A162	413A160	414A172	415A162	416A166	417A166	418A166	419A168	420A166
B.53	Quality Figures Based on Frequency Ranges	411A160	412A161	413A159	414A174	415A161	416A165	417A165	418A165	419A167	420A168
C. FLARE-ASSOCIATED EVENTS											
C.1a	Optical Observations Flares	410A 14	411A 14	412A 12	413A 14	414A 14	415A 14	416A 14	417A 12	418A 14	419A 14 420A 14
C.1ba	Optical Observations Flares (Standardized Data)	415B 6	416B 8	417B 6	419B 64	420B 82					
C.1d	Flare Patrol Observations	410A 22	411A 19	412A 17	413A 20	414A 23	415A 24	416A 24	417A 20	418A 23	419A 24 420A 23
C.1e	Flare Patrol Observations	415B 32	416B 30	417B 25	419B 93	420B120					
C.1f	Flare Indices (by day)	415B 31	416B 29	417B 24	419B 92	420B119					
C.1f	Flare Indices (by Region)	416B 70	417B 58	419B 94	420B121						
C.3	Solar Radio Waves - Outstanding Occurrences	415B 33	416B 31	417B 26	418B 6	419B 8	420B 8				
C.3t	Solar Radio Waves - Fixed Frequencies - Selected 43.25, 80 and 160 MHz Selected Bursts (Culgoora)	410A 26	411A 25	412A 23	413A 26	414A 29	415A 30	416A 30	417A 26	418A 28	419A 27 420A 29
C.4a	Solar Radio Spectral Obs. (Fort Davis)	411A144	412A148	413A147	414A159	415A147					
C.4d	Solar Radio Spectral Obs. (Culgoora)	411A135	414B 53	414B 55	414A142	417B 60	417B 62	417A138	420B 72	420B 75	420A139
C.4e	Solar Radio Spectral Obs. (Culgoora)	412B 60	412A134	413A134	414A142	415A129	416A134	417A138	418A137	419A142	420A139
C.4e	Solar Radio Spectral Obs. (Weissenau)	411A135	412A134	413A134	414A142	415A129	416A134	417A138	418A137	419A142	420A139
C.4f	Solar Radio Spectral Obs. (Sagamore Hill)	411A135	412A134	413A134	414A142	415A129	416A134	417A138	418A137	419A142	420A139
C.4h	Solar Radio Spectral Obs. (Dwingeloo)	411A135	412A134	413A134	414A142	415A129	416A134	417A138	418A137	419A142	420A139
C.4i	Solar Radio Spectral Obs. (Durnden)	411A135	412A134	413A134	414A142	415A129	416A134	417A138	418A137	419A142	420A139
C.4j	Solar Radio Spectral Obs. (Manila)	411A135	412A134	413A134	414A142	415A129	416A134	417A138	418A137	419A142	420A139
C.5e	Solar X-ray (SMS/GOES) (graphs)	416B 96	416B 52	417B 41	418B 31	419B 33	420B 53				
C.6	Sudden Ionospheric Disturbances	411A117	412A115	413A117	414A122	415A126	416A117	417A119	418A119	419A124	420A122
D. GEOMAGNETIC AND MAGNETOSPHERIC PHENOMENA											
D.1a	Geomagnetic Indices Kp, K _n , K _s , K _m , Ap, aa, Cp	411A151	413B 82	413A152	414A164	415A155	416A158	417A158	418A158	419A160	420A160
D.1ba	27-day Chart of Kp Indices	411A153	412A157	413A154	414A166	415A157	416A160	417A160	418A160	419A162	420A162
D.1c	27-day Chart of Cp	414A167	414A167	414A167	414A167						
D.1d	Principal Magnetic Storms	411A156	412A160	413A157	414A170	415A158	416A163	417A163	418A163	419A165	420A165
D.1e	Reduced Magnetograms										
D.1f	Sudden Commencement and Solar Flare Effects	411A157	412A161	413A158	414A171	415A160	416A164	418B 76	419B 63	419A166	
D.1g	Equatorial Indices Dst	411A155	412A159	413A156	414A169	416B 90	416A162	417A162	418A162	419A164	420A164
D.1h	Geomagnetic Substorm Log (Boulder)	410A 43	411A 41	412A 36	413A 43	414A 43	415A 46	416A 43	417A 38	418A 39	419A 39 420A 41
E. COSMIC RAYS											
F.1a	Cosmic Ray Neutron Counts (Deep River)	411A150	412A154	414B 57	414A161	415A154	416A151	417A151	418A151	419A153	420A155
F.1b	Cosmic Ray Neutron Counts (Climax)	415B 72	415B 72	415B 72	416B 88	416B 88	416A151	417A151	418A151	419A153	420A155
F.1e	Cosmic Ray Neutron Counts (Alert)	411A150	412A154	414B 57	414A161	415A154	416A151	417A151	418A151	420B 78	420A155
F.1f	Cosmic Ray Neutron Counts (Calgary)										
F.1h	Cosmic Ray Neutron Counts (Thule)	419B 62	419B 62	419B 62	419B 62	419B 62	419B 62	419B 62	419B 62	419A153	420A155
F.1i	Cosmic Ray Neutron Counts (Kiel)	411A150	412A154	413A149	418B 74	415A154	416A151	417A151	418A151	419A153	420A155
F.1j	Cosmic Ray Neutron Counts (Tokyo)	411A150	412A154	413A149	418B 74	415A154	416A151	417A151	418A151	419A153	420A155
F.1k	Cosmic Ray Neutron Counts (Kula)										
F.1l	Cosmic Ray Neutron Counts (Huanacayo)						417B 67	418B 72	419B 58	420B 79	420A155

SGD 420 Part II (Comprehensive)

FEBRUARY 1979 DATA

Contents

	Page
<u>Active Regions</u>	4-5
<u>Synoptic Solar Maps</u>	6-7
<u>Solar Flares</u> (Data not available at time of publication)	
H α Solar Flares (Standardized Data)	
Daily Flare Indices	
Intervals of No Flare Patrol Observation	
<u>Solar Radio Emission</u>	
Outstanding Occurrences (Fixed Frequencies)	8-46
<u>Energetic Solar Particles and Plasma</u>	
IMP 8 Solar Wind Plasma	47
IMP 8 Electrons	48
IMP 8 Low, Intermediate and High Energy Protons	49-51
IMP 8 Alpha Particles	52
<u>Solar X-ray Radiation</u>	
SMS-GOES	53-54

ACTIVE REGIONS

CARRINGTON ROTATION 1677

(January 7 to February 3, 1979)

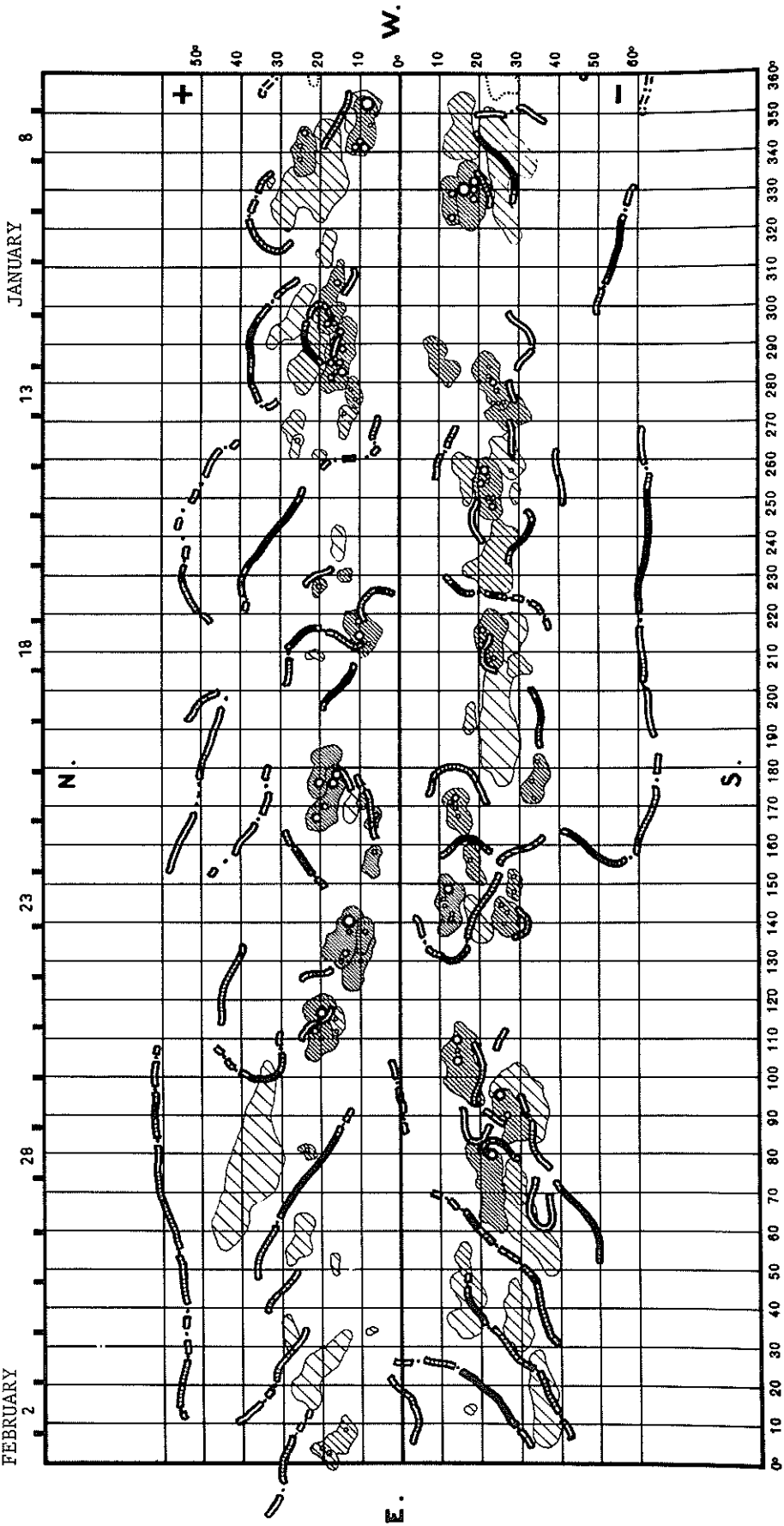
Region No.	Coordinates		Age at CMP	IMP.	Spot-less Region	Region No. in Rotation 1676	Activity at West Limb
	Lat.	Long.					
1	9°N	348°	+6	6			decreasing
2	16 S	347	>6	1	x		decreasing
3	25 N	342	>6	3			decreasing
4	26 S	337	>6	1	x		dispersed
5	23 N	335	>6	1	x	(3)	decreasing
6	18 S	330	>6	5		(4+5)	stable
7	12 S	328	-3	4			increasing
8	19 N	316	>6	1	x		dispersed
9	18 N	303	>6	3			decreasing
10	22 N	290	>6	1	x	(15)	decreasing
11	16 N	289	>6	5			decreasing
12	10 S	286	>6	1	x		decreasing
13	22 S	280	>6	3			decreasing
14	12 N	278	-2	2			decreasing
15	27 S	273	>6	1	x	(16)	decreasing
16	14 N	271	0	2			decreasing
17	27 N	269	>6	1	x		dispersed
18	27 N	264	+5	2			dispersed
19	21 N	261	+5	1	x		disappeared
20	26 S	261	>6	2			dispersed
21	16 S	256	>6	1	x		decreasing
22	22 S	253	+5	5			decreasing
23	29 S	251	-3	1	x		stable
24	24 S	235	>6	1	x		decreasing
25	14 N	230	-3	1	x		stable
26	21 N	227	+1	2			decreasing
27	10 N	216	>6	4		(21)	decreasing
28	22 S	214	0	3			decreasing
29	22 N	209	+6	1	x		dispersed
30	29 S	207	>6	1	x		dispersed
31	17 S	193	+6	1	x		disappeared
32	20 N	180	>6	3			decreasing
33	34 S	177	+1	2			decreasing
34	18 N	173	>6	5			decreasing
35	10 N	171	+1	1	x		stable
36	14 S	169	>6	3			decreasing
37	8 N	167	-3	2			decreasing
38	8 N	156	+3	2			decreasing
39	18 S	155	+6	2			dispersed
40	28 S	150	-1	2			dispersed
41	12 S	145	>6	4			decreasing
42	26 S	142	+5	2			decreasing
43	18 S	141	>6	1	x		disappeared
44	10 N	137	-4	2			stable
45	15 N	136	>6	5			stable
46	12 N	130	>6	1	x	(33+34)	decreasing
47	17 N	115	-5	2			(?)
48	21 N	114	>6	4			decreasing
49	15 S	104	>6	5			decreasing
50	30 S	94	>6	1	x		dispersed
51	27 S	90	>6	4			decreasing
52	24 N	80	+3	2			disappeared
53	28 S	73	>6	1	x		dispersed
54	22 S	72	>6	3		(46)	decreasing
55	31 S	60	>6	1	x	(47)	dispersed
56	26 N	58	>6	1	x		dispersed
57	14 S	53	>6	1	x	(51)	decreasing
58	16 S	41	>6	1	x	(51)	dispersed
59	28 S	37	>6	1	x		dispersed
60	25 S	16	>6	1	x	(55)	dispersed
61	17 N	5	>6	2			decreasing

ACTIVE REGIONS
CARRINGTON ROTATION 1678
(February 3 to March 2, 1979)

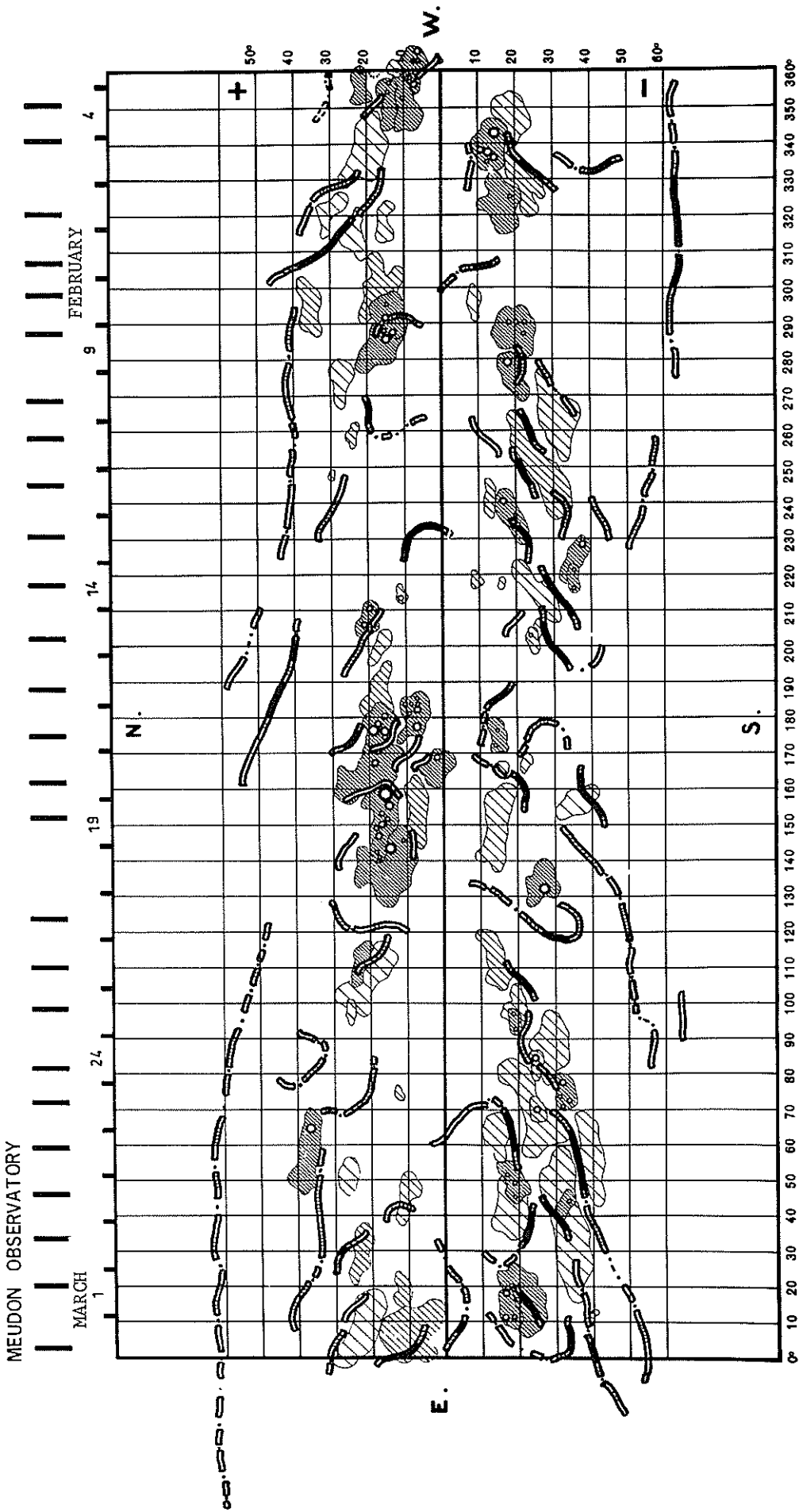
Region No.	Coordinates		Age at CMP	IMP.	Spot-less Region	Region No. in Rotation 1677	Activity at West Limb
	Lat.	Long.					
1	12°N	360°	+4	2			disappeared
2	7 N	357	+3	2			decreasing
3	10 N	356	>6	4		(1)	decreasing
4	22 N	356	>6	2			dispersed
5	14 N	351	>6	2			decreasing
6	19 S	347	>6	1	x	(2)	decreasing
7	14 S	340	>6	6			decreasing
8	22 S	330	>6	1	x		decreasing
9	16 S	325	>6	2	x	(6)	decreasing
10	16 N	318	>6	1	x	(8)	dispersed
11	16 N	300	-6	1	x	(9)	stable
12	36 N	295	>6	1	x		decreasing
13	14 N	292	+1	3			stable
14	20 S	288	>6	3			decreasing
15	16 N	285	>6	3		(11)	decreasing
16	19 S	275	+4	3			stable
17	27 N	273	>6	1	x	(10)	decreasing
18	31 S	264	>6	1	x	(15)	dispersed
19	24 N	258	-1	1	x		disappeared
20	25 S	250	>6	1	x	(22)	decreasing
21	13 S	241	+2	1	x		decreasing
22	19 S	237	>6	3			decreasing
23	36 S	224	+5	2			decreasing
24	9 S	218	+3	1	x		dispersed
25	35 S	218	+3	2			decreasing
26	25 S	215	>6	1	x	(28)	dispersed
27	11 N	214	>6	2		(27)	dispersed
28	20 N	207	+2	3			decreasing
29	25 S	204	>6	1	x		dispersed
30	24 S	201	+1	2			decreasing
31	17 S	200	>6	x			disappeared
32	28 N	187	>6	1	x		dispersed
33	8 N	180	+1	4			stable
34	17 N	177	>6	5			stable
35	15 S	175	+4	2			decreasing
36	22 S	167	-3	1	x		stable
37	2 N	166	>6	2			decreasing
38	16 S	165	-1	1	x		stable
39	20 N	164	>6	2		(34)	decreasing
40	7 N	154	>6	1	x	(38)	decreasing
41	14 S	150	>6	1	x	(41)	dispersed
42	17 N	150	>6	7			stable
43	15 N	139	>6	3		(45)	decreasing
44	27 S	134	>6	3			decreasing
45	13 S	113	>6	1	x		decreasing
46	23 N	111	>6	1	x		decreasing
47	19 S	100	>6	1	x		dispersed
48	26 N	98	>6	1	x		dispersed
49	19 S	94	0	2			decreasing
50	29 S	87	>6	1	x	(51)	dispersed
51	25 S	83	>6	2			decreasing
52	33 S	75	0	3			decreasing
53	12 N	74	+2	1	x		disappeared
54	23 S	73	>6	1	x	(54)	dispersed
55	25 S	70	>6	2			decreasing
56	14 S	63	>6	1	x		dispersed
57	37 N	58	>6	3			decreasing
58	19 S	50	+1	2			decreasing
59	10 N	15	>6	1	x		dispersed
60	33 S	13	-2	2			decreasing
61	23 N	29	>6	1	x		decreasing
62	11 N	19	>6	1	x		dispersed
63	22 S	17	>6	2			decreasing
64	17 S	14	-2	3		(61)	increasing
65	10 N	7	>6	1	x	{ (3)	decreasing

SYNOPTIC SOLAR MAP
CARRINGTON ROTATION 1677
JANUARY 7 TO FEBRUARY 3, 1979

MEUDON OBSERVATORY
FEBRUARY



SYNOPTIC SOLAR MAP
CARRINGTON ROTATION 1678
FEBRUARY 3 TO MARCH 2, 1979



MEUDON OBSERVATORY

MARCH
1

24

19

N.

14

9

FEBRUARY

4

50°

40

30

20

10

20

30

40

50

60°

0° 10 20 30 40 50 60° 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360°

E.

W.

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES FEBRUARY 1979

DAY OF MONTH	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	UT	MINUTES	PEAK	MEAN			
1	3000 BERL	4 S/F	0804		0807.8	6.6		54			
	1470 BERL	4 S/F	0805.5		0809	8.5		9.8			
	2695 MANI	4 S/F	0805.9		0808.5	4.6		53.7	17.9		
	9500 BERL	20 GRF	0805		0843	355 D		19			
	2650 DWIN	45 C	0805		0808	6		60	40		
	606 MANI	4 S/F	0806.1		0809.1	8.7		16.2	5.4		
	2695 ATHN	2 GRF	0806.1		0807.8	6.8		59.5	35.7		
	2950 GORK	4 SF	0806.3		0808.3	5		58	29		
	4995 ATHN	2 GRF	0806.4		0807.1	7.2		45	27		
	8800 ATHN	2 GRF	0806.4		0808.9	7.2		14.1	8.5		
	1415 ATHN	2 GRF	0806.5		0807.8	6.5		22.9	13.7		
	1415 MANI	4 S/F	0806.7		0808.9	3.8		20.5	6.8		
	930 BORD	46 C	0806		0809.1	6		131	10		
	6100 KISV	24 B	0806		0846	62		11			
	650 GORK	4 SF	0807		0809.5	4.6		7	2		
	9100 GORK	20 GRF	0807		0821	46		12	5.5		
	950 GORK	46 C	0807.1		0808	5		22			
	950 GORK		0807.1		0810.2			29			
	950 GORK		0807.1		0809.2			30			
	600 UCCL	46 C	0807.5		0809	3		15	8		
	234 POTS	8 S	0827		0827.1	.3		600	200		
	1470 BERL	41 F	0906.4		0907	5.6		12			
	3000 BERL	3 S	0906.5		0907	1		9.8			
	600 UCCL	45 C	0906.5		0910	6		9			
	2950 GORK	1 S	0907		0907.5	.7		7.4	3.7		
	6100 KISV	26 FAL	0908		0908	82		10			
	234 POTS	45 C	0925.3		0925.4	.5		190	30		
	113 POTS	8 S	1002.6		1002.6	.1		130	40		
	930 BORD	45 C	1013.8		1014	1.2		22	2		
	600 UCCL	45 C	1015		1017.5	8		6			
	650 GORK	4 SF	1039		1039.2	.5		11	4		
	1415 ATHN	14 C	1147		1148	3.7		93.2	28		
	1470 BERL	3 S	1147.5		1148.4	1.2		59			
	930 BORD	45 C	1147.5		1148	1.5		20	2		
	600 UCCL	45 C	1207		1208	2		7	3		
	600 UCCL	45 C	1219		1220	3		8	3		
	600 UCCL	1 S	1255		1255.5	1		8	4		
	600 UCCL	1 S	1256		1256.5	1		7	3		
	9400 HUAN	S	1257.7		1343.8	107.7		18	2.6	O	
	245 SGHR	43 NS	1358		1800.8	474 D		52		3	
	228 HARS	45 C	1432.5		1432.7	.5		75	25		
	9400 HUAN	S	1450.7		1502.5	58.8		8.2	3.8	R	
	9400 HUAN	S	1823.2		1856	56		13.1	5.5	R	
	2800 OTTA	20 GRF	1848		1850	20		1.8			
	2800 OTTA	20 GRF	2030		2033	20		2.2	1.1		
	2	6100 KISV		0800		0926			3		
		6100 KISV	21 GRF	0800		0856	40		5		
		600 UCCL	45 C	0817		0817.5	1		4	2	
		9100 GORK	20 GRF	0840.7		0856.2	24		11	4.5	
		1470 BERL	1 S	0928.4		0928.9	1.6		1.9		
228 HARS		45 C	1008.5		1008.7	.5		90	35		
260 ONDR		43 NS	1009			226		44			
410 SGMR		44 NS	1201 E		1552.3	592 D		10.2			
245 SGMR		44 NS	1201 E		1302	592 D		85.3			
9100 ARCE		3 S	1018.4		1018.7	.8					
600 UCCL		45 C	1353.5		1354	1.5		9	4		
9400 HUAN		S	1410.4		1433.2	55.4		16.3	2.7	R	
4995 SGMR		20 GRF	1420.1		1432.1	32.3		18	5.4		
7000 SAOP		20 GRF	1424			35		12.8		14R	
606 SGMR		20 GRF	1427.2		1429.7	20.6		8.7	2.6		
8800 SGMR		20 GRF	1428.2		1438.2	22.3		4.6	1.4		
2695 SGMR		20 GRF	1429.4		1444.5	25.6		9.4	2.8		
2800 OTTA		20 GRF	1430		1435	30		4.6	2.3		
9100 ARCE		1 S	1433.5		1433.6	.6					
600 UCCL		1 S	1501.5		1502	1.5		15	7		
600 UCCL		8 S	1541		1541.5	.6		10	5		
9400 HUAN		S	1605.8		1608.6	5.8		7.4	3.8	O	
7000 SAOP		3 S	1606		1608.4	7.6		12.8		O	
9400 HUAN		S	1637		1645.8	14.3		5.9	3.4	O	
7000 SAOP		4 S/F	1758.4		1800.2	2.8		22		O	
9400 HUAN		S	1759		1800.1	2.8		20.7	9.5	R	
8800 SGMR		3 S	1759.3		1800.1	2.7		11.3	3.4		
4995 SGMR		3 S	1759.3		1800.1	2.7		11.2	3.4		
2695 SGMR		1 S	1759.3		1800.1	2.7		6.1	1.8		
15400 SGMR		3 S	1759.5		1800.2	5.5		14.2	4.3		
2800 OTTA	1 S	1759		1800	2		5.4	2.9			
2800 OTTA	8 S	2024		2024.2	.5		5.4				
2695 PENT	21 GRF	2050		2152	150 D		5.8				
2695 PENT	1 S	2302		2302.7	2		3.4	1.7			
3	9100 GORK	1 S	0702.3		0702.7	.8		24	12		
	6100 KISV	25 R	0705					4			
	260 ONDR	44 NS	0754 E			426 D		47			

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	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		
	245 SGMR	44 NS	1200	E	1823.6	594 D	11.4			
	9100 ARCE	3 S	0846.6		0847	1				
	9100 GORK	2 SF	0850.5		0853.7	5.8	7	2.5		
	6100 KISV	40 F	0852		0853.7	6	3			
	6100 KISV	1 S	0953		0953.5	3	2			
	6100 KISV	1 S	1023		1025	7	2			
	930 BORD	41 F	1108.5		1108.6	.5	29	2		
	9400 HUAN	S	1206.8		1248.2	60	6.6	3.9		D
	930 BORD	45 C	1240.8		1240.9	.8	18	2		
	9400 HUAN	S	1329.8		1345	27.6	4.9	2.4		L
	9100 ARCE	40 F	1332.2		1332.6	5.6				
	228 HARS	45 C	1341.5		1341.7	.5	150	50		
	410 SGMR	6 S	1342		1342.4	1.2	53.4	16		
	245 SGMR	6 S	1342		1342.3	2.1	136	40.8		
	606 SGMR	3 S	1405		1407.4	8	26.4	10.6		
	600 UCCL	1 S	1423		1424	1.8	10	6		
	260 ONDR	8 S	1447.3		1447.3	.3	193			
	245 SGMR	6 S	1447.8		1448	.4	22.5	6.8		
	410 SGMR	48 GB	1448		1448.1	.2	782	235		
	2800 OTTA	20 GRF	1600		1645	170	4	2		
	7000 SAOP	1 S	1755.4		1755.8		10			80L
	2800 OTTA	8 S	1755.6		1755.6	.5	3.2	1.6		
	9400 HUAN	S	1811.5		1839.8	44.9	5.7	2.8		L
	606 SGMR	3 S	1947.4		1957.7	26.6	40.7	16.1		
	245 SGMR	6 S	1953.8		1954.2	4.2	8.5	2.5		
4	1470 BERL	1 S	0826.5		0827.9	2	3.2			
	3000 BERL	3 S	0826.5		0827.9	3	8.2			
	9500 BERL	4 S/F	0826.5		0827.7	4.5	13			
	3100 CRIM	1 S	0826.5		0828	5	5	2		
	10400 BERN	22 GRF	0826.6		0827.7	4.5	4	10		
	8400 BERN	22 GRF	0826.6		0827.7	4.5	6	15		
	8400 BERN	22	0826.6		0827.7	4.5	15			OPR
	10400 BERN	22	0826.6		0827.7	4.5	10			OPR
	2950 GORK	1 S	0826.8		0827.7	2.8	8.9	4.5		
	9100 GORK	1 S	0826.8		0827.7	2.7	14	6.5		
	6100 KISV		0826		0828.5		9			
	6100 KISV	45 C	0826		0827.7	6	10			
	15000 KISV	2 S/F	0827		0828	4	4			
	536 ONDR	3 S	1315.3		1315.3	.2	26			
	260 ONDR	4 S/F	1354.3		1355.3	2	30	18		
	536 ONDR	45 C	1354		1354.5	2.5	13	2.2		
	4995 BOUL	1 S	1712		1713	2.5	8	3		
	1420 BOUL	3 S	1724.5E		1725	1 D	21	7		
	2800 OTTA	3 S	1724		1724.9	2	10.2	2.6		
	2800 OTTA	21 GRF	1823		1855	95	7	3.3		
	9400 HUAN	S	1826.1		1828.5	8.7	10.2	5.8		R
	2800 OTTA	1 S	1826.8		1828	2	4	2		
	2800 OTTA	2 S/F	1837.2		1837.5	1	6	3		
	2800 OTTA	8 S	1849.5		1849.5	.1	2			
	2800 OTTA	1 S	1901.5		1903	4	4	2		
5	6100 KISV	8 S	0557		0558	2	3			
	2695 ATHN	4 S/F	0632.7		0640.7	11.7	86	25.8		
	1415 MANI	4 S/F	0633.1		0640.8	7.3	25.4	10.9		
	2950 GORK	46 C	0636	U	0638.5	7 E	37			
	2950 GORK		0636	U	0640.6		81			
	950 GORK	45 C	0637.4		0640.2	6.1	32			
	950 GORK		0637.4		0640.7		32			
	5730 IRKU		0637.5		0640.5		234			L
	5730 IRKU	45 C	0637.5		0638.4	6	103			L
	650 GORK		0637.7		0640.6	8.8	49	8		
	9100 GORK	29 PBI	0637.7		0644	32	23	8.5		
	9100 GORK		0637.7		0640.5		164 D			
	9100 GORK	46 C	0637.7		0638.4	6.2	164 D			
	1415 ATHN	3 S	0637.7		0640.3	6.1	45	14		
	2695 MANI	4 S/F	0637.7		0640.8	7.3	63.6	21.2		
	8800 ATHN	5 GB	0637.8		0640.7	7.7	735.5	220.6		
	4995 ATHN	4 S/F	0637.8		0640.7	8.9	264	79		
	500 HIRA	46 C	0637.8		0640.6	4	130	40		D
	6100 KISV	49 GB	0637		0641	8	196			
	6100 KISV	29 PBI	0637		0645	35	14			
	3100 CRIM		0638		0641		58	19		
	3100 CRIM	45 C	0638		0639	7	16	5		
	606 MANI	4 S/F	0638		0640.8	5.2	71	10.6		
	8800 MANI	47 GB	0638		0640.8	5.5	675	147		I
	15000 KISV	49 GB	0638		0641	67	805			
	200 HIRA	41 F	0639		0642.3	11	3000	200		D
	35000 NAGO	5 S	0639		0641	7	58			
	200 GORK		0641	E	0644.9		900 D			
	200 GORK		0641	E	0643.5		900			
	200 GORK	45 C	0641	E	0642 U	4.5E	80 D			
	100 GORK	45 C	0642.2		0642 U	3.5	290 D			
	100 GORK		0642.2		0645 U		3400 D			
	100 GORK		0642.2		0644 U		290 D			

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	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		
5	5730 IRKU	29 PBI	0643		16		26		L
	127 TORN	7 C	0643.6	0644	1.9		250		SUNRISE
	260 CNDR	43 NS	0803		385 D		26		
	245 SGMR	44 NS	1158 E	2038.1	579 D		60		3G
	228 HARS	45 C	0901	0902.5	4		200	70	
	260 ONDR	46 C	0901.5	0901.5	4		168	62	
	234 POTS	42 SER	0901.8	0902	2.8		875	20	
	113 POTS	42 SER	0901.8	0903.5	1.7		420	15	
	202 IZMI	7 C	0906.8	0906.8	.5		230	130	
	3100 CRIM	1 S	1012.5	1012.7	.5		10	3	
	6100 KISV	8 S	1044.3	1045	1		4		
	3100 CRIM	1 S	1055	1056.5	7		8	3	
	6100 KISV	20 GRF	1055	1056.3	25		4		
	2950 GORK	1 S	1133.7	1136.6	3.9		19		
	1470 BERL	8 S	1137.7	1138.2	.9		30		
	7000 SAOP	45 C	1138	1147.4	4		45		52L
	650 GORK	3 S	1143.1	1143.3	.6		66	11	
	3000 BERL	4 S/F	1143.5	1146	6.5		39		
	9500 BERL	29	1143.5	1147	22		21		
	1470 BERL	4 S/F	1143.5	1146	7.5		11		
	3100 CRIM	3 S	1144	1148.5	6		22	7	
	2950 GORK	4 SF	1144.1	1146.1	6.1		77	36	
	200 GORK	2 SF	1144.5	1146	3.5		11		
	10400 BERN	22 GRF	1144.5	1147.3	5.5		7	20	
	8400 BERN	22 GRF	1144.5	1147.3	5.5		11	29	
	10400 BERN	22	1144.5	1147.3	5.5		28		
	8400 BERN	22	1144.5	1147.3	5.5		29		7L
	6100 KISV	45 C	1144	1147.5	6		31		
	9400 HUAN	S	1145	1147.1	5.3		20.4	9.5	L
	4995 ATHN	13 GRF	1145	1146.8	4.6		43.7	26.2	
	2695 ATHN	2 GRF	1145	1146.8	3.5		29	17.4	
	4995 ATHN	13 GRF	1145	1147.3			46.2	28	
	8800 ATHN	2 GRF	1145.2	1147.3	4.3		32.6	19.6	
	1415 ATHN	2 GRF	1145.2	1146.8	3.4		13.6	8.2	
	100 GORK	4 SF	1145.2	1146	2.8		68		
	9100 GORK	2 SF	1145.5	1147.3	3.7		23	11	
	33 UPIC	45 C	1145.5	1146.3	1.9				
	29 UPIC	45 C	1145.5	1146.4	2.8				
	536 ONDR	2 S/F	1145	1146.2	3.5		16	2	
	15000 KISV	4 S/F	1145	1147	5		14		
	2650 DWIN	45 C	1145	1146	6		30	20	
	10715 DWIN	3 S	1145	1147	3		10	7	
	600 UCCL	45 C	1146	1146.2	2		15	3	
	200 GORK		1229.9	1232.7			55		
	200 GORK	46 C	1229.9	1231.5	4		35		
	536 ONDR	2 S/F	1236.3	1236.8	2		18	2	
	29 UPIC	45 C	1236.7	1237.5	1.6				
	650 GORK	1 S	1237	1237.4	1.1		6	3	
	950 GORK	1 S	1237	1287.4	1.3		15		
	3000 BERL	1 S	1237	1237.3	2		4.1		
100 GORK		1237.1	1237.6			15			
100 GORK	45 C	1237.1	1237.2	.8		25			
1470 BERL	8 S	1237.2	1237.5	.8		15			
33 UPIC	45 C	1237.3	1237.9	1.5					
600 UCCL	45 C	1237	1237	1.2		12	5		
930 BORD	45 C	1237	1237.3	1		25	3		
9100 ARCE	3 S	1339.9	1340.2	1.6					
9100 ARCE	1 S	1342.1	1342.5	.9					
600 UCCL	45 C	1349	1350.3	2		6			
930 BORD	8 S	1447.8	1447.8	.1		27	1		
2800 OTTA	21 GRF	1725	1850	155		5.6	2.8		
245 SGMR	6 S	1816.8	1817.3	2.6		54.7	16.4		
410 SGMR	6 S	1816.9	1818.9	3.8		11.9	3.6		
606 SGMR	3 S	1907.7	1910.4	4.3		11.8	3.5	5	
245 SGMR	7 S	1908.2	1908.6	1.3		339.2	101.7	5	
2800 OTTA	8 S	1908.2	1908.5	.5		7.2			
1415 SGMR	1 S	1908.3	1908.6	2.6		6.2	1.9	5	
410 SGMR	6 S	1908.4	1908.4	.5		20.1	6	5	
2800 OTTA	240AR	2014	2024	10		3.4			
2800 OTTA	1 S	2019	2021	3		4	2		
35000 SGMR	47 GB	2111.9	2117.4	15.1		4035	1211		
15400 SGMR	47 GB	2117.1	2121.1	25		1608	483		
9400 HUAN	C	2117.2	2121.2	5.7		715.7	305.3	L	
410 SGMR	49 GB	2118.8	2133			42			
410 SGMR	49 GB	2118.8	2020.5	18.5		1125	337		
606 SGMR	47 GB	2119	2119.3	4.6		884	265		
1415 SGMR	45 C	2119.2	2130.6			290			
1415 SGMR	45 C	2119.2	2119.9	18		250	87		
245 SGMR	49 GB	2119.9	2125.8	18.7		1909	573		
245 SGMR	49 GB	2119.9	2133			300			
1420 BOUL	45 C	2119 E	2119.5	3.5D		64	21		
2800 OTTA	4 S/F	2119	2121	8		66	21.4		
4995 BOUL	4 SF	2119	2123	8.5		138	46		
2695 BOUL	4 SF	2120.5E	2122	3.5D		84	28		
9400 HUAN	PBI	2123.7	2123.7	38		77.3	12.8	L	

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	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		
	2695 BOUL	29 PBI	2124	2124	39 U	26	9		
	2800 OTTA	30 PBI	2127	2127	35	4.8	2.4		
	4995 BOUL	4 SF	2129.5	2131.5	3.5	179	60		
	9400 HUAN	S	2130.2	2132	3.1	136.1	43.6		L
	1420 BOUL	45 C	2130 E	2131	3 D	111	37		
	2800 OTTA	4 S/F	2130	2132.2	6	80	21.6		
	2695 BOUL	4 SF	2131 E	2133	3 D	108	36		
	4995 BOUL	29 PBI	2133	2133	31	22	7		
	1415 SGMR	3 S	2143.2	2149.2	13.80	101	30.3		
	1420 BOUL	40 F	2143.5E	2149	10.50	26	9		
	410 SGMR	7 S	2144	2144.1	13 D	101	30.3		
	2695 PENT	46F C	2148.2	2149.3	3.8	24	10.9		
	245 SGMR	48 GB	2148.2	2149.4	8.80	1616	48.5		
	9400 HUAN	C	2148.6	2149.3	3.8	21.8	9.7		L
	9400 HUAN		2148.6	2151		18.5			
	4995 BOUL	45 C	2148	2149	3 U	49	16		
	2695 BOUL	45 C	2149.5E	2151.5	2.50	40	13		
	2695 PENT	29 PBI	2152	2152	4	4	2		
	9400 HUAN	S	2159.1	2159.6	.8	10.1	7.9		0
	4995 BOUL	8 S	2305.5	2306	2.5	38	13		
6	2695 MANI	1 S	0240.8	0241.4	2.5	8.2	2.7		
	200 HIRA	41 F	0241	0241.5	5	4000	100		SL
	100 HIRA	46 C	0241	0241.8	2.5	5000	1500		0
	1415 MANI	1 S	0241.1	0241.7	1.1	8.3	2.8		
	606 MANI	1 S	0241.1	0245.1	5.9	5.9	2		
	100 HIRA	41 F	0357	0400	3	950			WL
	200 HIRA	41 F	0357	0359.7	4	400			0
	2695 MANI	4 S/F	0444.4	0445.3	2.3	11.4	3.8		IG
	1415 MANI	4 S/F	0444.5	0445.3	1.5	12	4		
	200 HIRA	46 C	0444.5	0445	2	2000	150		0
	100 HIRA	46 C	0444.5	0445.2	1.5	5000	1000		WL
	5730 IRKU	2 S	0444.5	0445.1	1	39	19		L
	100 GORK		0622.4	0624		25			
	100 GORK	41 F	0622.4	0622.6	1.8	40			
	100 GORK		0637.3	0641 U		45 0			
	100 GORK		0637.3	0640.3U		40 0			
	100 GORK	41 F	0637.3	0637.7	4.6	40 0			
	100 GORK	40 F	0708.3	0708.6	1.1	45 0			
	3100 CRIM	1 S	0721	0723	6	5	2		
	6100 KISV	3 S	0721	0723	3	4			
	6100 KISV	2 S/F	0740	0741	5	7			
	100 GORK		0749.6	0752.6		40			
	100 GORK		0749.6	0750.6		25			
	100 GORK	41 F	0749.6	0749.8	3.8	20			
	3100 CRIM	25 R	0802	0823		11			
	4995 ATHN	4 S/F	0806.8	0815.5	11.8	51.9	15.6		
	100 GORK	45 C	0809	0809.7	15	55 0			
	100 GORK		0809	0823.1		8			
	100 GORK		0809	0816.4		20			
	100 GORK		0809	0810.2		55 0			
	260 ONDR	44 NS	0810 E		355 D	27			
	245 SGMR	44 NS	1157 E	1255.4	601 D	179			3G
	410 SGMR	44 NS	1157 E	1853.2	601 0	33.6			3G
	1415 ATHN	3 S	0810.2	0815.8	10.4	28.8	8.6		
	2695 ATHN	3 S	0810.3	0815.7	8.3	16.3	4.9		
	8800 ATHN	3 S	0811.2	0811.2	7.1	42.7	12.8		
	4995 ATHN	2 GRF	0813.6	0823.2	22.6	18.9	11.3		
	15000 KISV	32 ABS	0815	0817	5	6			
	8800 ATHN	2 GRF	0816.2	0822.8	17.4	32	19.2		
	1415 ATHN	2 GRF	0818.3	0823.3	.7	9.6	5.8		
	2695 ATHN	2 GRF	0820.2	0824.3	7.1	6.5	3.9		
	15000 KISV	45 C	0820	0825	10	10			
	9500 BERL	20 GRF	0821.5	0824.5	8.5	12			
	9100 ARCE	21 GRF	0821.8	0825.9	14				
	3100 CRIM	1 S	0822	0824.5	5	8	3		
	3000 BERL	3 S	0822	0824.5	4	9.3			
	1470 BERL	1 S	0822.5	0823.2	2.5	2.9			
	9100 GORK	2 SF	0822.6	0823	4.9	10	4		
	650 GORK	4 SF	0822.6	0822.8	2.6	38	5		
	950 GORK		0822.6	0824		5			
	950 GORK	45 C	0822.6	0823.1	2.7	4			
	200 GORK	8 S	0822.7	0822.9	1.2	80			
	600 UCCL	2 S	0822	0822.5	1.5	55	20		
	6100 KISV		0822	0824.7		10			
	6100 KISV	45 C	0822	0823	8	10			
	234 POTS	5 S	0823	0823.2	.3	210	35		
	260 ONDR	8 S	0823	0823	.5	162			
	536 ONDR	3 S	0823	0823	.3	32			
	2950 GORK	1 S	0824.2	0824.4	1.3	15	7.5		
	9100 ARCE	2 S/F	0830.2	0830.4	.7				
	3100 CRIM	1 S	0833	0834	2	4	1		
	100 GORK		0833	0834.4		70 0			
	100 GORK	46 C	0833	0833.1	2.9	70			
	100 GORK		0833	0834.7		900			

12
Feb 79

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
6	113 POTS	46 C	0833.2	0834.5	2.2	650	50		
	127 TORN	45 C	0834	0834.8	1.5	150	50		
	200 GORK	8 S	0834.1	0834.4	1.1	80	D		
	100 GORK		0843	0845		230			
	100 GORK		0843	0843.7		65			
	100 GORK	41 F	0843	0843.1	2.6	35			
	950 GORK	2 SF	0845.4	0845.7	2	3			
	650 GORK	2 SF	0845.5	0845.8	1.9	8	2.5		
	600 UCCL	45 C	0845.5	0846	1.5	9	4		
	536 ONDR	2 S/F	0845	0846.2	2	10	2		
	200 GORK	3 S	0846.3	0846.6	1	20			
	950 GORK	2 SF	0849.4	0849.6	.6	2.2			
	100 GORK	3 S	0914	0915	.9	200			
	3100 CRIM	45 C	0914	0915.5	5	14	5		
	3100 CRIM		0914	0917.5		12	4		
	950 GORK	5 S	0914.2	0915.8	4.6	29	14		
	600 UCCL	2 S	0914.5	0915.2	8	57	18		
	9500 BERL	4 S/F	0914.5	0915	6.5	31			
	127 TORN	45 C	0914.6	0915.3	2	190	60		
	200 GORK	8 S	0914.6	0915.4	1.7	80	D		
	1470 BERL	4 S/F	0914.7	0916	4.8	23			
	10400 BERN	4 S/F	0914.8	0915.4	3	10	29		
	8400 BERN	4 S/F	0914.8	0915.4	3	16	42		
	8400 BERN	4	0914.8	0915.4	3	42			3L
	10400 BERN	4	0914.8	0915.4	3	29			
	9100 GORK	4 SF	0914.9	0915.4	4.5	42	20		
	6100 KISV		0914	0916.7		14			
	6100 KISV	46 C	0914	0915.7	6	30			
	6100 KISV		0914	0917		16			
	3000 BERL	4 S/F	0915	0915.7	3.5	18			
	202 IZMI	7 C	0915	0915	1	400	120		
	2950 GORK	4 SF	0915	0915.6	3	28			
	650 GORK	3 S	0915	0915.6	.8	29			
	650 GORK	29 PBI	0915	0915.8	15.2	17	4.5		
	9100 ARCE	3 S	0915.2	0915.5	1.4				
	234 POTS	4 S/F	0915.2	0915.5	1	240	15		
	113 POTS	46 C	0915.3	0915.6	1	100	15		
	260 ONDR	8 S	0915.5	0915.5	.6	168			
	15000 KISV	2 S/F	0915	0915.7	5	16			
	930 BORD	3 S	0915	0915.8	6	23	10		
	2650 DWIN	45 C	0915	0916	3	20	10		
	10715 DWIN	45 C	0915	0916	3	20	10		
	9100 ARCE	29 PBI	0916.6	0917	6.3				
	202 IZMI	4 S/F	0934.5	0934.8	.5	130	65		
	600 UCCL	1 S	0936	0936.2	.5	9	4		
	113 POTS	46 C	0947.7	0948.1	1	700	85		
	100 GORK	4 SF	0947.8	0948.4	1.5	40			
	9100 ARCE	2 S/F	1002.8	1002.9	.5				
	650 GORK	1 S	1009.6	1010.1	1.5	11	3		
	100 GORK	41 F	1021.9	1022.2	5	25			
	100 GORK		1021.9	1026		110			
	100 GORK		1021.9	1023.4		55			
	100 GORK		1021.9	1026.7		100			
	100 GORK	41 F	1041.6	1041.7	16	60	D		
	100 GORK	41 F	1041.6	1053.2		55			
	100 GORK		1041.6	1042.9		30			
	100 GORK		1041.6	1057.1		35			
	100 GORK		1041.6	1054.4		55	D		
	113 POTS	8 S	1041.8	1041.8	.2	2800	800		
	113 POTS	41 F	1054.5	1054.5	.2	450	40		
	3100 CRIM	3 S	1056.5	1057	2	15	5		
	2950 GORK	3 S	1056.6	1057.3	2.5	33	16		
	9100 GORK	20 GRF	1056.8	1057.5	13.7	5.5	2		
	3000 BERL	3 S	1056.8	1057.5	3.2	23			
	6100 KISV	4 S/F	1056	1057.5	4	5			
	2650 DWIN	45 C	1056	1057	3	25	15		
	1470 BERL	1 S	1057	1057.5	2	6.1			
	6100 KISV	2 S/F	1115	1118.5	8	10			
	7000 SAOP	3 S	1117	1118.4	1.2	13.5			41R
	3100 CRIM	1 S	1118	1118.5	1	4	1		
	200 GORK		1121.6	1131		80			
	200 GORK		1121.6	1126.1		23			
	200 GORK		1121.6	1123.3		24			
	200 GORK	41 F	1121.6	1122	19.7	42			
	9100 ARCE	29 PBI	1123.5	1123.9	2				
	9100 ARCE	3 S	1123	1123.1	.5				
	100 GORK		1126.3	1130.4		60			
	100 GORK		1126.3	1129.3		55	D		
	100 GORK		1126.3	1128.8		55			
	100 GORK	41 F	1126.3	1126.7	9.5	55	D		
	100 GORK		1126.3	1134.6		40			
	113 POTS	41 F	1133.3	1133.4	1.3	1950	50		
	100 GORK	45 C	1143.3	1143.6	1.6	60			
	100 GORK		1143.3	1144.6		50			
	100 GORK		1143.3	1144.2		50			

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT		MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$		
6	7000 SAOP	22 GRF	1223				12		25R
	127 TORN	45 C	1253.5	1254.4	3.2		320	100	
	228 HARS	45 C	1253.5	1255	4.5		220	70	
	1470 BERL	41 F	1254	1254.9	8		4.4		
	3000 BERL	41 F	1254	1254.8	7.2		8.2		
	113 POTS	42 SER	1254.1	1254.4	7.3		3200	35	
	33 UPIC	46 C	1254.2		2.7				
	234 POTS	42 SER	1254.3	1300.3	6.7		220	4	
	29 UPIC	46 C	1254.5	1255.1	2.4				
	10400 BERN	20 GRF	1259	1300.9	6		3	8	
	8400 BERN	20 GRF	1259	1300.9	6		4	11	
	8400 BERN	20	1259.1	1300.9	6		11		
	10400 BERN	20	1259.1	1300.9	6		8		
	9100 ARCE	1 S	1259.9	1301.1	5				
	127 TORN	45 C	1259	1300.2	2.8		470	85	
	9500 BERL	1 S	1300	1301	2		10		
	2800 OTTA	21 GRF	1340		120		8.2		
	245 SGMR	48 GB	1344	1349.9	11		1050	315	3G
	7000 SAOP	45 C	1345	1348.2	6		78		39L
	260 ONDR	4 S/F	1345	1345.5	2.5		179	80	
	8400 BERN	4 S/F	1346.9	1348.1	5		20	52	
	10400 BERN	4 S/F	1346.9	1348.1	5		14	38	
	9500 BERL	29 PBI	1347	1347.9	13		39		
	4995 ATHN	4 S/F	1347	1348.3	6.1		67.2	20.2	
	8400 BERN	4	1347	1348.1	5		52		18L
	10400 BERN	4	1347	1348.1	5		38		
	2695 ATHN	3 S	1347	1348.2	5.2		39.1	11.7	
	8800 ATHN	4 S/F	1347.2	1348.3	4.6		52.6	15.8	
	600 UCCL	46 C	1347.2	1347.5	3		20	10	
	536 ONDR	4 S/F	1347.2	1348.2	3.5		32	10	
	1415 ATHN	4 S/F	1347.3	1348.1	2.7		72.4	21.7	
	2695 SGMR	3 S	1347.4	1349	6.6		42.9	12.9	3G
	1415 SGMR	3 S	1347.4	1348	4.8		169	50.7	3G
	4995 SGMR	3 S	1347.4	1349	6.6		70.2	21.1	3G
	8800 SGMR	3 S	1347.4	1348.4	3.6		45.2	13.5	3G
	3000 BERL	29 PBI	1347.5	1348.2	6.5		42		
	1470 BERL	29 PBI	1347.5	1348.2	6.5		67		
	127 TORN	45 C	1347.5	1347.9	2.2		420	130	
	228 HARS	45 C	1347.5	1348	1.5		500	150	
	9100 ARCE	4 S/F	1347.6	1348.3	3.5				
	234 POTS	42 SER	1347.6	1348.1	4		700	60	
	9400 HUAN	S	1347.6	1348.4	10.7		43.3	16.9	L
	113 POTS	42 SER	1347.7	1347.9	4		3100	400	
	606 SGMR	3 S	1347.7	1347.9	3.3		52.8	15.8	3G
	29 UPIC	4 S/F	1347.8	1348.2	1.3				
	808 ONDR	4 S/F	1347	1348	3		58	10.8	
	10715 DWIN	45 C	1347	1348	3		20	10	
	2650 DWIN	45 C	1347	1348	3		40	20	
	930 BORD	46 C	1347	1347.8	3		115	9	
	2800 OTTA	3 S	1347	1348.2	3.5		40.4	10.1	
	410 SGMR	48 GB	1348	1348.5	6		687	207	3G
	2800 OTTA	1 S	1352.5	1352.8	1.5		3.4	1.8	
	930 BORD	8 S	1428.7	1428.7	.2		76	1	
	9400 HUAN	S	1433.7	1446	49.8		7.2	2.4	0
	2800 OTTA	21 GRF	1595	1627	65		6.2	3.1	
	4995 BOUL	23 GRF	1599	1611.5	46.5U		19	6	
	606 SGMR	3 S	1600	1600.2	5		128	51.2	
	2695 SGMR	3 S	1600.2	1601	4.8		39.9	16	3G, SWF
	1415 SGMR	3 S	1600.2	1600.5	4.8		24	9.6	
	9400 HUAN	S	1600.3	1621.1	58		16.2	4.3	0
	1420 BOUL	3 S	1600 E	1601	2.50		22	7	
	2800 OTTA	45 C	1600	1600.6	10		19.8	5	
	2695 BOUL	4 SF	1601 E	1602	2 D		26	9	
	4995 BOUL	4 SF	1617	1619	4 U		30	10	
	1415 SGMR	3 S	1618.3	1619.4	6.7		64.8	25.9	
	2800 OTTA	4 S/F	1618	1618.3	8		20.2	5.2	
	930 BORD	45 C	1618	1621	4		167	9	
	2695 SGMR	3 S	1619	1619.7	6		29.5	11.8	SWF
	606 SGMR	3 S	1619	1619.6	6		43.6	17.4	
	2695 BOUL	3 S	1619.5E	1620.5	1.50		47	16	
	1420 BOUL	4 SF	1619 E	1619.5	3.50		49	16	
	2800 OTTA	1 S	1645.5	1647.7	5		2	1.5	
	2800 OTTA	21 GRF	1750	1810	120		2.8	1.4	
	2800 OTTA	1 S	1752.2	1752.5	2		3.8	1.9	
	9400 HUAN	S	1942.8	1942.9	1.9		45.2	17.2	L
	2800 OTTA	23 GRF	2000	2104	200		10.8	5.4	
	2695 PENT	22 GRF	2005	2010	12		2.8	1.4	
	2695 PENT	1 S	2018.8	2019.5	2		1.2	.6	
	9400 HUAN	S	2030.1	2105	1.1		17.2	9.4	0
	2800 OTTA	1 S	2031.5	2033.2	3		3.8	1.8	
	1420 BOUL	3 S	2036.5E	2037	1 D		13	4	
	2800 OTTA	4 S/F	2036	2037	2		39	7	
	4995 BOUL	8 S	2036	2036.5	1.5		16	5	
	2695 BOUL	3 S	2037.5E	2038	1 D		34	11	
	9400 HUAN	S	2050.3	2050.6	1.5		10.8	5	0

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	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	2800 OTTA	45 C	2054.5	2055.5	4	6.2	3.1		
	1420 BOUL	45 C	2057.5E	2058	1 D	18	6		
	2930 VORO	3 S	0350	0353	10	116			
	5730 IRKU		0351.2	0353.2		81			
	5730 IRKU	45 C	0351.2	0352	8	44	20		L
	2695 MANI	4 S/F	0352.2	0354	3.6	191.6	67.8		
	8800 MANI	4 S/F	0352.7	0354	3	109.1	72.7		
	1415 MANI	4 S/F	0352.7	0354.5	3	11.8	7.9		
	35000 NAGO	5 S	0353	0353	1	8			
	5730 IRKU	29 PBI	0359		19	17	10		L
6100 KISV	20 GRF	0621	0626	9	3				
100 GORK	45 C	0720.3	0720.8		30				
100 GORK	45 C	0720.3	0720.6	1	40 D				
200 GORK	8 S	0725.9	0726.4	1	95 D				
234 POTS	8 S	0726.2	0726.3	.2	195	50			
202 IZMI	5 S	0726.2	0726.2	.3	400	160			
100 GORK	8 S	0821	0821.2	.6	60 D				
113 POTS	8 S	0821.1	0821.1	.3	2800	310			
100 GORK		0851.7	0853.2		15				
100 GORK		0851.7	0852.2		15				
100 GORK	41 F	0851.7	0852.2	1.6	60				
113 POTS	41 F	0852.1	0852.1	.7	125	3			
100 GORK	8 S	1039.1	1039.3	.6	60				
10400 BERN	46 C	1103.8	1106	18	18	51			
10400 BERN	46 C	1103.8	1106	18	51			OPR	
7000 SAOP	45 C	1104	1109	13.2	83			37L	
4995 ATHN	14 C	1104.5	1109	33.7	59	17.7			
9100 GORK	21 GRF	1104.6	1111.4	29	27				
9100 ARCE	46 C/F	1104.9	1108.2	8.2					
9100 ARCE		1104.9	1106.2	1.9					
6100 KISV	46 C	1104	1109	21	44				
15000 KISV	45 C	1104	1104.5	16	30				
1470 BERL	29 PBI	1105	1106.4	24	10				
3000 BERL	30 PBI	1105	1108.4	25	36				
9500 BERL	30 PBI	1105	1109	25	49				
3180 CRIM	3 S	1105	1108.5	9	22	7			
3100 CRIM	30 PBI	1105	1114		8				
9100 GORK	46 C	1105.3	1106.1		54				
9100 GORK		1105.3	1108		49				
8800 ATHN	14 C	1105.3	1109		64.1	19.2			
8800 ATHN	14 C	1105.3	1106	30.3	58.7	17.6			
2695 ATHN	3 S	1105.3	1109.1	25.3	28.6	8.6			
1415 ATHN	3 S	1105.6	1106.3	26.3	20.9	6.3			
10715 DHIN	45 C	1105	1108	26	30	15			
2650 DHIN	45 C	1105	1108	15	30	15			
9100 ARCE		1105.8	1108.2	6.3					
2950 GORK	4 SF	1107.2	1108.4	3	34	15			
9100 ARCE	30 PBI	1113.1		34				RECDR DISTURB	
100 GORK	45 C	1117.1	1117.3	1.1	60				
100 GORK		1117.1	1118.1		20				
113 POTS	8 S	1117.9	1118	.1	100	30			
7000 SAOP	4 S/F	1125.2	1125.8	1.2	30			27R	
10400 BERN	1 S	1125.4	1125.8	1	6	16			
8400 BERN	1 S	1125.4	1125.8	1	11	28			
3100 CRIM	1 S	1125.5	1126	1.5	7	2			
6100 KISV	8 S	1125.5	1126	5	21				
10400 BERN	1	1125.5	1125.9	1	16				
8400 BERN	1	1125.5	1125.9	1	28				
9100 ARCE	3 S	1125.7	1126	1.7					
2950 GORK	4 SF	1125.7	1125.9	2.7	24	12			
9100 GORK	1 S	1125.7	1126	.8	22	11			
245 SGHR	44 NS	1156 E	1835.9	604 D	36				
100 GORK		1218.2	1220.9		65				
100 GORK	45 C	1218.2	1218.6	3	65				
200 GORK	8 S	1220.5	1220.8	.5	85				
200 GORK	8 S	1221.1	1221.4	.5	85				
9100 ARCE	2 S/F	1247.3	1247.6	.5					
2800 OTTA	20 GRF	1618	1624	27	2.6	1.3			
9400 HUAN		1745.2	1747.2		25.5				
9400 HUAN	C	1745.2	1746.8	2.9	22.1	11.2		0	
9400 HUAN	S	1822.2	1850.8	57.1	13.6	5.8		L	
2800 OTTA	1 S	1842	1843	2	2.6	1.3			
2695 PENT	20 GRF	1957	2002	15	1.8				
2800 OTTA	20 GRF	2020	2024	20	1.8	1			
2695 PENT	22 GRF	2120	2250	140	7				
8	200 HIRA	41 F	0026.5	0030	4	1000			0
	100 HIRA	41 F	0026.8	0030	4	1000			0
	2695 MANI	4 S/F	0203.8	0206.2	10	102.4	68.3		
	5730 IRKU	45 C	0204.5	0204.7	12	24	40		R
	5730 IRKU		0204.5	0211.9		46			R
	5730 IRKU		0204.5	0210		55			R
	5730 IRKU		0204.5	0207.8		95			R
5730 IRKU		0204.5	0206.2		113			R	

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	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		
	1415 MANI	4 S/F	0205.4	0208.9	15	19.7	6.6		
	606 MANI	4 S/F	0205.7	0209.8	8.1	17	5.7		
	35000 NAGO	20 GRF	0205	0210	20	13			
	1415 MANI	4 S/F	0224.6	0231.6	33.1	91.6	61		
	2695 MANI	4 S/F	0225.2	0244	32.3	56	37.3		
	606 MANI	4 S/F	0225.5	0245.4	30.5	140.6	93.7		
	200 HIRA	24 R	0231	0400	345 D	35	20		MR
	100 HIRA	24 R	0236	0430	340 D	180	100		MR
	500 HIRA	45 C	0240.9	0245.2	15	165	70		MR
	200 HIRA	46 C	0241	0244	10	150	80		HLWR
	100 HIRA	46 C	0242	0242.5	9	80	30		0
	180 GORK	44 NS	0558		422 E		10		
	127 TORN	44 NS	0720	1301.6	440 D	24			VO
	245 SGMR	43 NS	1318.4	1407.8	522.6D	462			
	6100 KISV	45 C	0646	0651	7	5			
	9100 GORK	20 GRF	0653.7	0709	67	15	7.5		
	950 GORK		0657.9	0703.5		15			
	950 GORK	46 C	0657.9	0701	8	22	D		
	650 GORK	40 F	0658.5	0703.5	6.5	7.5			
	6100 KISV	20 GRF	0703	0708	82	6			
	6100 KISV	20 GRF	0837	0843	18	3			
	930 BORD	46 C	0840	0840.8	1	23	2		
	260 ONDR	42 SER	0946	1007.8	28	10			
	260 ONDR	42 SER	1233	1407.5	94	84			
	2800 OTTA	240 R	1347	1349	2	2.2	1.1		
	9400 HUAN	S	1411.2	1444.8	50	6.6	3		L
	4995 BOUL	4 SF	1446.5	1447.5	3.5	62	21		
	7000 SAOP	4 S/F	1447	1448.2	3	70			20L
	10400 BERN	2 S/F	1447.2	1448.1	10	12	32		
	8400 BERN	2 S/F	1447.2	1448.1	10	18	46		
	10400 BERN	2	1447.2	1448.1	10	32			
	8400 BERN	2	1447.2	1448.1	10	46			14L
	4995 SGMR	3 S	1447.3	1448.1	4.9	68	14		SNF
	15400 SGMR	3 S	1447.5	1448	1	12	2		SNF
	8800 SGMR	3 S	1447.6	1448.3	4.6	29	2		SNF
	4995 ATHN	4 S/F	1447.6	1448.5	8	56.1	16.8		
	9400 HUAN	S	1447.7	1448	7	39.9	15.6		L
	9100 ARGE	3 S	1447.7	1448.3	2.2				
	2695 ATHN	2 GRF	1447.8	1448.5	7.8	16.4	9.8		
	8800 ATHN	3 S	1447.8	1448.4	7.7	45.9	13.8		
	10715 DHEN	2 S/F	1447	1448	2	20	10		
	2650 DHEN	4 S/F	1447	1448	8	25	15		
	2800 OTTA	3 S	1447	1448.2	13	25	8.2		
	2695 SGMR	3 S	1448	1448.4	4.2	31	6		SNF
	9100 ARGE	29 PBI	1449.9		6.5				
	228 HARS	1 S	1507	1507.2	.5	350	110		
	1415 SGMR	3 S	1518.5	1512.9	7.1	5	1		
	2800 OTTA	21 GRF	1518	1545	125	8.6	4.3		
	9400 HUAN	S	1519.2	1600.5	104.4	24.9	5.7		0
	2800 OTTA	4 S/F	1519	1522.4	6	17.6	5.9		
	8800 SGMR	3 S	1520.2	1523.1	3.9	15	3		
	4995 SGMR	3 S	1520.2	1523.1	3.9	33	7		
	2995 SGMR	3 S	1520.2	1523.1	3.9	22	4		
	4995 BOUL	4 SF	1521	1522.5	2	28	9		
	10400 BERN	46 C	1522.1	1523	7	4	12		
	8400 BERN	46 C	1522.1	1523	7	7	18		
	10400 BERN	46	1522.1	1523	7	12			
	8400 BERN	46	1522.1	1523	7	18			
	2695 ATHN	2 GRF	1522.2	1522.6	2	19.6	11.8		
	9400 HUAN	S	1522.3	1523	1.6	16.6	10		0
	8800 ATHN	2 GRF	1522.4	1523	2.3	8.3	5		
	4995 ATHN	2 GRF	1522.4	1523	2.1	14.6	8.8		
	7000 SAOP	3 S	1539	1541	1.8	25			0
	2800 OTTA	26 FAL	1920	2010	50	-3.4			
	2800 OTTA	1 S	2053.5	2053.9	1	2.2	1.1		
	2800 OTTA	1 S	2114	2115.2	2	3.6	1.8		
	2800 OTTA	29 PBI	2116	2116	25	1.8	1.3		
	4995 BOUL	8 S	2237.5	2238	1	16	5		
	2695 PENT	8 S	2237.8	2237.9	.2	3.6	1.8		
	2695 PENT	21 GRF	2242	2300	50	3.4	1.7		
	4995 BOUL	4 SF	2248.5	2249	1.5	24	8		
	1420 BOUL	4 SF	2249	2249.5	1 0	57	19		
	2695 PENT	3 S	2249	2249.5	3	32	7.8		
	2695 BOUL	3 S	2250	2251	1.5D	41	14		
	2695 PENT	8 S	2314.7	2314.8	.7	8.4	2.1		
	2695 PENT	8 S	2327.8	2327.9	.5	7.2			
9	1415 MANI	8 S	0024	0024.1	.4	46.4	15.5		
	2695 MANI	1 S	0024	0024.2	.6	9.2	3.1		
	5730 IRKU	2 S	0225	0226	3	25	12		R
	3100 CRIM	1 S	0639	0640	2	8	3		
	6100 KISV	4 S/F	0639	0640	8	4			
	127 TORN	44 NS	0720	0846.2	440 D	17	.5U		V1
	260 ONDR	44 NS	0812		386 D	51			
	245 SGMR	44 NS	1153	1628.5	609 D	230			
	6100 KISV	45 C	0740	0757	35	9			

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
	9500 BERL	20 GRF	0745	0757.3	70	21			
	9100 GORK	20 GRF	0746.8	0757	52	21	10		
	4995 ATHN	2 GRF	0752.1	0755.7	9.7	11.7	7		
	8800 ATHN	2 GRF	0752.1	0755.6	9.6	20.6	12.5		
	15000 KISV	4 S/F	0752	0757.5	23	25			
	1470 BERL	8 S	0753	0753.2	.5	5			
	3000 BERL	20 GRF	0758	0802.3	42	6.5			
	202 IZMI	5 S	0935.5	0936.5	.3	680	300		
	9500 BERL	20 GRF	1125	1155	75	14			
	3100 GRIM	1 S	1133	1133.5	1.5	4	1		
	7000 SAOP	3 S	1133	1133.5	1	11.5			35R
	9100 GORK	20 GRF	1133.6	1148	40	8	2.5		
	6100 KISV	45 C	1133	1133.8	4	4			
	6100 KISV	20 GRF	1137	1150	13 0	4			
	7000 SAOP	8 S	1141.5	1207.6	.4	18.5			8R
	7000 SAOP	41 GRF	1141.5			9			28R
	3000 BERL	3 S	1142	1143.5	2.5	7.5			
	3100 GRIM	1 S	1142.5	1143.5	1.5	8	3		
	1470 BERL	1 S	1143	1143.5	2	1.5			
	10400 BERN	1 S	1334.7	1335.1	1	4	11		
	8400 BERN	1 S	1334.7	1335.1	2	4	11		
	8400 BERN	1	1334.7	1335.1	2	11			
	10400 BERN	1	1334.7	1335.1	1	11			
	9400 HUAN	S	1412.3	1436.5	43.5	9.2	4.6		0
	9400 HUAN	S	1543.7	1555	22.7	7.3	4.9		R
	7000 SAOP	46 C	1549	1556	.6	18			22L
	9400 HUAN	S	1618.4	1618.6	2.4	16.5	8.7		R
	8800 SGMR	3 S	1618.7	1618.9	1.3	15.5	4.7		
	4995 SGMR	1 S	1618.8	1618.9	2.2	79.1	2.4		
	7000 SAOP	3 S	1619	1620	4.4	24			0
	410 SGMR	6 S	1619.5	1620.8	3.3	9.8	2.9		
	2800 OTTA	20 GRF	1625	1630	25	3	1.7		
	2800 OTTA	1 S	1728	1728.8	2	2.6	1.3		
	2800 OTTA	1 S	1732	1736	8	2.2	1.1		
	2800 OTTA	27F RF	1812		63	3	2.7		
	2800 OTTA	24 R	1812	1817	5	3	2		
	2800 OTTA	24P R	1817		50	3			
	245 SGMR	6 S	1859.3	1859.9	2.7	194	58.2		
	410 SGMR	6 S	1859.5	1859.9	.9	5.6	1.7		
	606 SGMR	1 S	1859.5	1859.8	3.1	3.9	1.2		
	1415 SGMR	1 S	1859.8	1900.9	1.4	8.8	2.6		3G
	2800 OTTA	26 FAL	1907	1915	8	-3	-1.5		
	2800 OTTA	1 S	1918	1920	5	2.2	1.1		
	9400 HUAN	S	1952.7	2018.1	56.7	9.2	4.3		R
	2800 OTTA	20 GRF	2005	2030	45	2.4	1.2		
	2695 PENT	20 GRF	2054	2055	30	2	1.2		
	2695 PENT	20 GRF	2148	2200	35	6.6	3.3		
0	100 GORK	41 F	0652.4	0652.5	4.6	90			
	100 GORK		0652.4	0657.1		30			
	3100 GRIM	21 GRF	0718	0827		32			
	100 GORK	8 S	0725.2	0725.5	.5	70			
	9100 GORK	21 GRF	0735.8	0803.8	270 E	32			
	8800 ATHN	2 GRF	0740.2	0755.7	55.1	39.6	23.8		
	15000 KISV	4 S/F	0745		10	11			
	4995 ATHN	2 GRF	0742	0759.6	54.1	23.7	14.2		
	3100 GRIM	1 S	0743	0744.5	2	12	4		
	2695 ATHN	2 GRF	0743.2	0820.2	53.6	19.3	11.6		
	2950 GORK	3 S	0743.3	0745.1	2.5	22	11		
	9100 GORK	1 S	0744.4	0745.2	1.8	7	3.5		
	127 TORN	45 C	0755.7	0756.4	1.5	300 U			
	113 POTS	4 S/F	0755.9	0756.1	1.1	2400	100		
	234 POTS	8	0756	0756.1	.4	1200	2		
	202 IZHI	4 S/F	0756	0756.2	.8	250	104		
	200 GORK	8 S	0756	0757 U	2	70 D			
	100 GORK	8 S	0756.2	0757 U	1.8	100 D			
	200 GORK	1 S	0834.2	0835.6	3	24			
	100 GORK	40 F	0835.2	0835.6	2.1	43			
	260 ONDR	44 NS	0840 E		335 D	46			
	245 SGMR	44 NS	1153 E	1628.5	611 D	227.8			3G
	9500 BERL	S	0947.5	0948.5	2.5	8.2			
	9100 GORK	1 S	0947.8	0948.9	2.5	8	4		
	9500 BERL	3 S	0956.3	0957.5	4.7	14			
	10400 BERN	20 GRF	0956.6	0957.3	7	5	15		
	8400 BERN	20 GRF	0956.6	0957.3	7	7	18		
	10400 BERN	20	0956.7	0957.3	7	15			
	8400 BERN	20	0956.7	0957.3	7	18			
	10715 DWIN	1 S	0956	0957	3	10	5		
	9100 GORK	1 S	0957.8	0958.1	2	16	8		
	9100 ARCE	3 S	0957	0957.5	3.2				
	15000 KISV	8 S	0957	0957.7	1	9			
	8800 ATHN	2 GRF	1136.7	1205.9	42.7	25.3	15.2		
	4995 ATHN	2 GRF	1143.9	1154.6	27.1	11.2	6.7		
	9500 BERL	20 GRF	1150	1248	58	14			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	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		
	9400 HUAN	S	1218.5	1248.2	63.7	21.6	7.2		R
	10400 BERN	20	1243	1248.4	38	9			
	10400 BERN	20	GRF 1243	1248.4	38	3	9		
	8400 BERN	20	GRF 1243	1248.4	38	7	15		
	8400 BERN	20	1243	1248.4	38	15			
	2800 OTTA	20	GRF 1427	1520	80	3	2.3		
	7000 SAOP	3	S 1428	1430	6.4	44			0
	9400 HUAN	S	1428.6	1430	3.5	61.4	20.2		R
	10400 BERN	20	GRF 1428.9	1430	4	19	56		
	8400 BERN	20	GRF 1428.9	1430	4	22	56		
	10400 BERN	20	1428.9	1430	4	56			
	8400 BERN	20	1428.9	1430	4	56			8R
	8800 ATHN	4	S/F 1429	1430.1	8.3	71.7	21.5		
	4995 ATHN	3	S 1429.6	1430.3	5	13.4	4		
	8800 SGMR	3	S 1429.7	1430	1.8	71.5	21.5		
	15400 SGMR	3	S 1429.8	1430.1	1.1	28.6	8.6		
	10715 DMIN	4	S/F 1430	1431	1	50	30		
	9100 ARCE	8	S 1430	1430.4	.9				
	7000 SAOP	1	S 1511	1512.4	3.4	8.5			0
	7000 SAOP	20	GRF 1604	1607.4		8.5			0
	9400 HUAN	S	1633.7	1659	44.5	10	5.6		0
	2800 OTTA	20	GRF 1645	1652	25	2			
	2800 OTTA	20	GRF 1740	1840	120	3	1.8		
	9400 HUAN	S	1752.9	1802.3	24.9	8.3	6		R
	9400 HUAN	S	1805.3	1806.1	1.4	9.1	4.3		R
	9400 HUAN	S	1832.2	2000		8.3			
	9400 HUAN	S	1832.2	1915.3	100	6.6	5.1		R
	9400 HUAN	S	2020.4	2037.5	35.3	11.6	6.4		0
	4995 SGMR	3	S 2036.4	2037	7.6	28.6	11.4		
	2800 OTTA	3	S 2036.5	2037.5	3	14.6	7.2		
	4995 BOUL	4	SF 2036	2036.5	5	29	10		
	2695 SGMR	3	S 2037.2	2037.7	6.8	13.7	5.5		
	2695 BOUL	3	S 2037.5E	2038	2	13	4		
	2800 OTTA	32	ABS 2050	2140	115	-6.6	-3.3		
11	5730 IRKU	1	S 0400.5	0402.4	4	21	6		L
	9100 GORK	20	GRF 0656.4	0702	116	8	3		
	100 GORK		0712.3	0712.6		20			
	100 GORK	45	C 0712.3	0712.4	.5	50			
	260 ONDR	44	NS 0800	E	388	81	4		
	410 SGMR	44	NS 1151	E 1237.6	614	D 70.6			
	245 SGMR	44	NS 1151	E 1222.7	614	D 259			
	100 HIRA	44	NS 2135	E 0150	640	D 300	50		SL
	9100 GORK	20	GRF 0815.8	0841.2	46	7	2.5		
	221 ABST	42	SER 0820.8	0842.2	23	13			
	930 BORD	41	F 0830	0830.3	.8	14	2		
	100 GORK	41	F 0911.7	0911.8	8.3	100			
	100 GORK		0911.7	0919.7		180			
	9100 GORK	20	GRF 0941.3	1003	41.5	7	2.5		
	100 GORK	8	S 1028.9	1029.1	.5	265	D		
	9100 ARCE	3	S 1042.9	1043.3	3.4				
	9100 GORK	1	S 1043.6	1043.9	2.1	14.5	7		
	33 UPIC	8	S 1103.2		.8				
	29 UPIC	8	S 1103.3	1103.8	.9				
	15000 KISV	8	S 1133	1133.5	1	8			
	10400 BERN	21	1141	1238.3	96	43			
	10400 BERN	21	1141	1211.2	96	11			
	10400 BERN	21	GRF 1141	1211.2	96	4	11		
	8400 BERN	21	GRF 1141	1211.2	96	5	13		
	10400 BERN	21	GRF 1141	1142.1	96	2	6		
	8400 BERN	21	GRF 1141	1142.1	96	3	8		
	10400 BERN	21	GRF 1141	1238.3	96	15	43		
	8400 BERN	21	GRF 1141	1238.3	96	21	57		
	10400 BERN	21	1141	1142.1	96	6			
	8400 BERN	21	1141	1142.1	96	8			
	8400 BERN	21	1141	1238.3	96	57			
	8400 BERN	21	1141	1211.2	96	13			
	536 ONDR	41	F 1222.5	1223.3	16	16	1.5		
	9400 HUAN	S	1222.5	1357	248	34	22.4		R
	234 POTS	8	S 1222.6	1222.6	.2	1000	250		
	3000 BERL	21	GRF 1222	1235.5	128	D 25			
	9100 ARCE	21	GRF 1225.7	1255.3	56				
	9500 BERL	21	GRF 1226	1246.5	124	D 34			
	2695 ATHN	2	GRF 1228.4	1235.5	42.1	9.9	6		
	4995 ATHN	2	GRF 1228.4	1235.5	42.1	46	27.6		
	8800 ATHN	2	GRF 1228.5	1235.5	42.1	34.7	20.8		
	1470 BERL	21	1228	1234.5	66	6.9			
	33 UPIC	4	S/F 1231.8	1232.2	1.5				
	29 UPIC	2	S/F 1231.9	1232.6	1.6U				
	9400 HUAN	S	1234	1246.5	39.3	20.4	10.6		R
	930 BORD	8	S 1235.7	1235.7	.1	25	1		
	9400 HUAN	S	1237.6	1238.4	1.8	28.9	11.6		0
	9500 BERL	3	S 1238	1238.5	1.2	46			
	1470 BERL	3	S 1238	1238.5	1	7.3			
	3000 BERL	8	S 1238.2	1238.5	.8	200			

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
	808 ONDR	3 S	1238.2	1238.2	.2		30		
	9100 ARCE	3 S	1238.5	1238.7	1.4				
	10715 DWIN	1 S	1238	1238	2		8	5	
	2650 DWIN	8 S	1238	1238	1		110 D		
	2800 OTTA	21 GRF	1320	1440	190		9.4		
	7000 SAOP	1 S	1329	1330	2.6		9.5		0
	2800 OTTA	1 S	1551	1551.6	1.2		2.6	1.3	
	7000 SAOP	4 S/F	1604	1238.4	.8		38		17L
	7000 SAOP	45 C	1604	1235.6	1.2		14		36L
	2800 OTTA	20 GRF	1655	1755	205		7	4.5	
	9400 HUAN	S	1718.3	1745.8	38.4		11.9	5.1	
	7000 SAOP	3 S	1820	1820.8	2.4		23		0
	9400 HUAN	S	1820.2	1821	1.6		13.6	6.8	R
	9400 HUAN	S	2020.4	2040.8	31.9		10.2	4.7	R
	9400 HUAN	C	2033.7	2034.7	4.5		59.5	19.7	R
	4995 BOUL	45 C	2033	2035.5	4		35	12	
	245 SGMR	49 GB	2034	2034.1	16		2270	908	
	1415 SGMR	3 S	2034.1	2036.4	9.9		13.2	5.3	
	4995 SGMR	3 S	2034.4	2035.9	9.6		32.2	12.9	
	606 SGMR	3 S	2034.4	2036.4	15.6		145	58	
	8800 SGMR	3 S	2034.4	2034.5	9.6		33.3	13.3	
	2695 SGMR	3 S	2034.6	2036.5	9.4		22.2	8.9	
	15400 SGMR	3 S	2034.6	2034.7	9.4		40.4	16.2	
	410 SGMR	49 GB	2034.9	2035	15.1		688	275	
	2800 OTTA	4 S/F	2034	2036.2	4		22	12	
	1420 BOUL	45 C	2034	2036.5	4.5D		54	18	
	2695 BOUL	45 C	2035	2036	3.5D		26	9	
	2800 OTTA	29 PBI	2038	2038	5		2.4		
	2695 PENT	26 FAL	2050	2100	10		-3.6	-1.8	
	2695 PENT	32 ASS	2130	2205	70		-3.6	-1.8	
12	35000 NAGO	20 GRF	0016	0029	76		27		
	200 HIRA	43 NS	0020	0130	475 D		45	18	ML
	100 GORK	44 NS	0545	E	375			60	
	200 GORK	44 NS	0545	E	375			20	
	127 TORN	44 NS	0630	E	510 D		920	80	V2
	202 IZMI	44 NS	0700		300		70		
	221 ABST	43 NS	0800	0851	60		21		
	260 ONDR	44 NS	0800	E	401 D		34	5	
	410 SGHR	44 NS	1149	E	1413.1		617 D	56.1	3G
	245 SGMR	44 NS	1149	E	1206.3		617 D	107	3G
	2930 VORO	45 C	0020		0028		15	86	
	2695 MANI	4 S/F	0024.2	0026.4	6.4		52.9	17.6	
	1415 MANI	4 S/F	0024.2	0026.7	4.5		17.7	5.9	
	35000 NAGO	20 GRF	0144	0308	119		19		
	5730 IRKU		0211	0216.1			27		
	5730 IRKU	45 C	0211	0213.8	14		61	14	R
	1415 MANI	4 S/F	0213	0213.9	4.8		52.5	35	
	606 MANI	4 S/F	0213	0213.5	4.3		98.2	65.5	
	2695 MANI	4 S/F	0213	0213.7	5.3		16.1	10.7	I
	500 HIRA	4 S/F	0213.1	0213.4	2		460	190	WL
	100 GORK	4 SF	0647.9	0648.4	1.3		2000		
	9100 GORK	20 GRF	0749.3	0753.2	12.6		9	4	
	600 UCCL	46 C	0807	0808	3		27	10	
	200 GORK		0810.2	0813			2300		
	200 GORK	46 C	0810.2	0812	3.5		200 D		
	10400 BERN	45 C	0810.4	0812.8	3.5		14	40	
	8400 BERN	46 C	0810.4	0812.8	3.5		15	40	
	10400 BERN	45	0810.5	0812.9	3.5		40		
	8400 BERN	46	0810.5	0812.9	3.5		40		8R
	234 POTS	42 SER	0810.8	0811.8	4.1		3500	150	
	1470 BERL		0811	0828.5			40		
	1470 BERL	42 SER	0811	0813.4	34		39		
	3000 BERL	3 S	0811	0813	2.5		13		
	9500 BERL	4 S/F	0811	0812.8	3		36		
	650 GCRK	4 SF	0811	0813.3	3.6		24	12	
	650 GORK	21 GRF	0811		77.5				
	950 GORK		0811.1	0813.3			41		
	950 GORK	46 C	0811.1	0811.4	3.7		64		
	1415 ATHN	2 GRF	0811.1	0813	6.3		56	33.6	
	113 POTS	42 SER	0811.2	0812	2.3		2500	250	
	2950 GORK		0811.2	0818			7		
	2950 GORK	45 C	0811.2	0812.9	9.1		15		
	2695 ATHN	2 GRF	0811.2	0813	7.7		13.1	7.8	
	4995 ATHN	2 GRF	0811.2	0812.9	7.9		21.8	13.1	
	8800 ATHN	2 GRF	0811.3	0812.8	6.2		33	19.8	
	9100 GORK	29 PBI	0811.3	0813.6	22		9.5	4	
	9100 GORK	4 SF	0811.3	0812.9	2.3		41	18	
	202 IZMI	45 C	0811.3	0812	2.3		200	125	
	9100 ARCE	4 S/F	0811.5	0813.1	2.9				
	606 MANI	4 S/F	0811.5	0813.4	6.5		17.9	6	
	2695 MANI	4 S/F	0811.6	0813.3	3.8		13.4	4.5	I
	1415 MANI	4 S/F	0811.6	0813.4	3.2		42	14	
	10715 DWIN	4 S/F	0813	0813	3		25	20	
	2650 DWIN	4 S/F	0811	0813	3		15	10	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	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		
12	6100 KISV	45 C	0811	0812.5	3		14		
	6100 KISV	29 PBI	0811	0902	51		5		
	6100 KISV		0811	0813			14		
	15000 KISV	8 S	0813 E	0813			43		
	9100 ARCE	29 PBI	0814.4		9				
	3100 CRIM	1 S	0817	0817.5	2		6	2	
	808 ONDR	42 SER	0820.8	0821	30		52	2.2	
	113 POTS	8 S	0821.5	0821.7	.5	1250		400	
	536 ONDR	45 C	0821	0823	5		22		7.5
	260 ONDR	46 C	0821	0822	4		199		10
	3100 CRIM	29 PBI	0830	0832.5	33		14		5
	1415 MANI	1 S	0839.6	0840.5	2.4		5.2		3.5
	650 GORK	4 SF	0840	0840.5	.9		115		34
	950 GORK	1 S	0840.2	0840.5	.5		8.8		4.4
	606 MANI	4 S/F	0840.2	0840.6	4.8		110.3		73.4
	536 ONDR	8 S	0850	0850.5	1		72		
	100 GORK		0855.2	0855.3	.4		2300	D	
	9100 ARCE	1 S	0855.7	0855.8	.8				
	9100 ARCE	4 S/F	0901.1	0901.3	1				
	3100 CRIM	3 S	0916.5	0919	13		26		9
	4995 ATHN	2 GRF	0917.1	0919.4	4.9		30.5		18.3
	9100 GORK	21 GRF	0917.1	0920.6	20.5		12		4
	650 GORK	4 SF	0918	0919.5	3.3		16		4.5
	950 GORK	2 SF	0918	0919.6	5.5		13		
	3000 BERL	3 S	0918	0919.5	11		52		
	8800 ATHN	2 GRF	0918.5	0919.4	3.1		16.5		9.9
	1415 ATHN	2 GRF	0918.6	0919.1	3.4		11.2		6.7
	2695 ATHN	2 GRF	0918.6	0919.4	3.2		52.3		31.4
	10400 BERN	2 S/F	0918.9	0919.5	4		7		19
	8400 BERN	2 S/F	0918.9	0919.5	4		10		24
	113 POTS	46 C	0918.9	0919.6	1.6	2500			70
	2950 GORK	3 S	0918.9	0919.6	2.9		45	D	
	10400 BERN	2	0918.9	0919.6	4		19		
	8400 BERN	2	0918.9	0919.6	4		24		7R
	2650 DWIN	4 S/F	0918	0920	5		60		30
	1470 BERL	3 S	0919	0919.7	6		15		
	9500 BERL	3 S	0919	0919.4	3		13		
	100 GORK	4 SF	0919	0919.5U	1.4		2300	D	
	9100 GORK	1 S	0919	0919.5	1.3		18		9
	200 GORK	8 S	0919.1	0919.6	1.2		190		
	29 UPIC	45 C	0919.2	0920.1	1.7				
	33 UPIC	45 C	0919.2		2.8				
	9100 ARCE	3 S	0919.5	0919.9	1.6				
	6100 KISV	29 PBI	0919	0928	16		5		
	6100 KISV	8 S	0919	0919.5	4		12		
	15000 KISV	45 C	0919	0919.5	10		12		
	15000 KISV		0919	0925			8		
	536 ONDR	45 C	0926	0929.5	5		20		5.3
	808 ONDR	2 S/F	0928	0930	6		18		3.8
	200 GORK		0937.9	0954.8			160		
	200 GORK		0937.9	0951.2			170	D	
	200 GORK		0937.9	0943.5			170		
	200 GORK	41 F	0937.9	0939.4	17.8		170		
	6100 KISV	27 RF	0941	0946	10		3		
	100 GORK		0950.3	0954.5			2280		
	100 GORK	41 F	0950.3	0950.9	4		2200	D	
	3100 CRIM	3 S	0957	1002	15		11		4
	10400 BERN	22 GRF	0957	1143.5	113		10		29
	8400 BERN	22 GRF	0957	1143.5	113		5		21
	10400 BERN	22	0957	1143.6	113		29		
	8400 BERN	22	0957	1143.6	113		21		
	1470 BERL	21 GRF	0957	1037.5	113		5.1		
	15000 KISV	27 RF	0957	1003	11		8		
	2950 GORK	20 GRF	0958	1002.3	12.6		13		6.8
	9100 GORK	20 GRF	0958.3	1039.1	97.3		22.5		13.5
	3000 BERL	21 GRF	0958	1039	122		12		
	9500 BERL	20 GRF	0958	1039	148		23		
	650 GORK	20 GRF	1006	1016.6	40		2.5		1.5
	3100 CRIM	1 S	1029	1030.5	1		12		4
	4995 ATHN	3 S	1029.9	1030.5	1.1		16.5		4.9
	2695 ATHN	3 S	1029.9	1030.5	.9		10.9		3.3
	1415 ATHN	3 S	1030.1	1030.5	.6		29.4		8.8
	33 UPIC	8 S	1030.1	1030.3	.4				
	29 UPIC	8 S	1030.4	1030.6	.3				
	2950 GORK	3 S	1030.4	1030.8	.7		16		
	950 GORK	3 S	1030.5	1030.9	1		20		10
	536 ONDR	3 S	1030.5	1030.5	1		13		1.4
	1470 BERL	8 S	1030.5	1030.9	1		28		
	3000 BERL	3 S	1030.5	1030.9	1		22		
	2650 DWIN	1 S	1030	1030	1		15		10
	930 BORD	45 C	1030	1030.8	2		35		3
	808 ONDR	2 S/F	1030	1030.8	2		22		4
	2950 GORK	20 GRF	1032.2	1039.1	42.6		8		
	200 GORK	8 S	1036.4	1037	.9		160	D	
	6100 KISV	21 GRF	1056	1139	99		12		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ MEAN		
12	6100 KISV		1056	1124		12			
	6100 KISV		1056	1109		8			
	6100 KISV		1056	1102.5		10			
	113 POTS	45 C	1059.9	1100.5	1.1	700	100		
	33 UPIC	8 S	1100.4	1100.5	.5				
	6100 KISV	8 S	1116	1116.3	1	3			
	6100 KISV	8 S	1129.8	1130.5	1	5			
	536 ONDR	2 S/F	1136.6	1136.6	1.5	10	1		
	9100 ARCE	1 S	1141.9	1142.2	.7				
	33 UPIC	45 C	1204.6	1204.90	1.6				
	29 UPIC	45 C	1204.7	1205	1.1				
	9400 HUAN	S	1227	1304	68.7	8.1	3.9		R
	33 UPIC	2 S/F	1233.4	1233.5	.6				
	29 UPIC	2 S/F	1233.5	1233.7	.6				
	7000 SAOP	20 GRF	1247.4			9			0
	7000 SAOP	1 S	1328	1330.6	10	10			0
	9400 HUAN	S	1329.5	1330.6	2.3	4.8	3.5		R
	9400 HUAN	S	1427.2	1445.5	33.3	9.7	4		0
	2800 OTTA	4 S/F	1430	1438.5	10	15	4		
	600 UCCL	2 S	1433	1434	2	14	6		
	10400 BERN	2	1435.4	1438.7	22	16			
	10400 BERN	2 S/F	1435.4	1438.6	22	6	16		
	8400 BERN	2 S/F	1435.4	1438.6	22	8	21		
	2695 ATHN	2 GRF	1435.4	1438.2	5.8	8.7	5.2		
	1415 ATHN	4 S/F	1435.4	1438	9.6	16.4	49.2		
	8400 BERN	2	1435.4	1438.7	22	21			
	4995 ATHN	2 GRF	1435.6	1438.7	5.6	25.6	15.3		
	930 BORD	46 C	1435	1438.2	10	160	10		
	7000 SAOP	4 S/F	1436	1438.6	15.6	27			30L
	8800 ATHN	2 GRF	1436.2	1438.5	5.8	28.8	17.3		
	9400 HUAN	S	1436.3	1438.6	5.4	14.5	10.6		0
	1415 SGMR	3 S	1436.3	1438.1	7.1	24.4	49		SWF
	4995 SGMR	3 S	1436.5	1438.5	2.8	26.6	10.6		SWF
	808 ONDR	45 C	1436.5	1438	3.5	35	14		
	536 ONDR	4 S/F	1436.5	1438.5	3.5	10	4.4		
	606 SGMR	3 S	1436.7	1438.2	2.4	31.5	12.6		SWF
	1420 BOUL	45 C	1436 E	1438	3.50	171 U	57		
	2650 DWIN	4 S/F	1436	1438	4	20	10		
	8800 SGMR	1 S	1437.8	1439.1	4.2	8.6	3.4		SWF
	4995 BOUL	3 S	1437 U	1438	3 U	19 U	6		
	2695 SGMR	3 S	1438.1	1438.9	1.8	18.9	7.6		SWF
	600 UCCL	8 S	1540	1540.2	.4	28	10		
	2800 OTTA	21 GRF	1735	1840	105	3			
	2800 OTTA	1 S	1835	1835.3	1	3.4	1.7		
	9400 HUAN	S	1943.5	2015.6	83.1	13.4	8.3		0
	4995 SGMR	3 S	1944.6	1950.6	7.4	104	41.6		5,SWF
	8800 SGMR	3 S	1946	1950.1	6	39.1	15.6		5,SWF
	2800 OTTA	46F C	1946.4	1951	8.6	126	21.4		
	410 SGMR	7 S	1946.7	1946.8	9.3	285	114		5,SWF
	2695 SGMR	3 S	1946.8	1951.3	5.2	148	59.2		5,SWF
	1420 BOUL	47 GB	1946 E	1950	9 D	4699	1566		
	245 SGMR	7 S	1947.2	1950.1	8.8	203	81.2		5,SWF
	1420 BOUL	8 S	1947.5E	1948	1 D	139	46		
	2695 BOUL	45 C	1947 E	1948	1.50	33	11		
	7000 SAOP	45 C	1948	1950.8	35	79			43L
	15400 SGMR	3 S	1948.1	1950.8	4.3	36.2	14.5		5,SWF
	4995 BOUL	8 S	1948.5	1950.5	4.5	83	28		
	9400 HUAN	S	1948.7	1950.7	15	66.8	19.1		L
	1415 SGMR	47 GB	1950	1950.3	2.1	11000	4400		5,SWF
	2695 BOUL	28 PRE	1950.5E	1951	1 D	26	9		
	606 SGMR	47 GB	1951	1949.9	2	784	314		5,SWF
	2695 BOUL	8 S	1951.5E	1952	1.50	132	44		
	1420 BOUL	8 S	1951 E	1951.5	1 D	522	174		
	4995 BOUL	3 S	1952	1952.5	1	11	4		
	2695 BOUL	29 PBI	1953 E	1953.5	1 D	40	13		
	2800 OTTA	29 PBI	1955	1955	8	3.6	1.8		
	9400 HUAN	S	2024.8	2025.6	3	18.4	9.2		L
	4995 BOUL	3 S	2024	2025	3	15	5		
	9400 HUAN	S	2053.4	2053.7	1.8	10	4.8		0
	9400 HUAN	S	2111.5	2130.3	28.3	8.3	2.2		0
	2800 OTTA	1 S	2128.9	2129	3	3	1.5		
	606 SGMR	47 GB	2146	2148.9	5	1840	736		
	410 SGMR	7 S	2146.5	2149.4	6	222	88.8		
	4995 BOUL	3 S	2146.5	2148	2.5	8	3		
	2695 PENT	21 GRF	2146	2210	95	4.6	2.3		
	1415 SGMR	3 S	2147	2148.1	6	163	65.2		
	245 SGMR	48 GB	2147.2	2149.5	4.2	1000	400		
	9400 HUAN	S	2147.6	2149.7	9.5	10	5.4		L
	9400 HUAN	S	2147.6	2155.8		10.8			
	9400 HUAN	S	2147.6	2153.1		8.3			
	1420 BOUL	45 C	2147 E	2148.5	3 D	95	32		
	2800 OTTA	4 S/F	2147	2149.2	3.5	30	12		
	2695 BOUL	4 SF	2149 E	2149.5	2 D	54	18		
	2695 PENT	1 S	2205	2207	4	3	1.4		
	9400 HUAN	S	2229	2229.7	2.2	11.7	5.5		0

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT		MINUTES	$10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$ PEAK		
	1420 BOUL	3 S	2231.5E	2232	1 D		8	3	
	2695 PENT	1 S	2231	2231.9	2		7.8	2.6	
13	2695 MANI	2 S/F	0034.7	0037	3.5		7.2	4.9	I
	100 HIRA	46 C	0034	0036	4		4500	500	WL
	1415 MANI	4 S/F	0036.3	0037.6	2.1		20.2	13.4	
	200 HIRA	46 C	0238.5	0239	2		450	150	O
	100 HIRA	7 C	0239	0239.2	1		2000	1000	ML
	35000 NAGO	20 GRF	0451	0454	10		19		
	6100 KISV	2 S/F	0619	0619.8	6		3		
	200 GORK	44 NS	0645	0645 E	390			5	
	260 ONDR	44 NS	0820	0820 E	380 D		29		
	127 TORN	43 NS	1000	U 1420.8	270 D		13	1 U	VO
	245 SGMR	44 NS	1148	E 1647	692 D		80		
	410 SGMR	44 NS	1148	E 1708	692 D		157		
	6100 KISV	2 S/F	0658	0659	6		3		
	9100 GORK	21 GRF	0719	0745.1	63		12		
	8400 BERN	3	0742.1	0744.1	4		25		
	10400 BERN	3	0742.1	0744.1	4		17		
	10400 BERN	3 S	0742.1	0744	4		6	17	
	8400 BERN	3 S	0742.1	0744	4		9	25	
	9100 ARCE	3 S	0743.1	0744.3	3				
	9100 GORK	1 S	0743.2	0744	1.6		18	9	
	6100 KISV	4 S/F	0743	0744	2		8		
	6100 KISV	29 PBI	0743	0747	15		4		
	3000 BERL	3 S	0745.5	0747	3.5		11		
	9100 ARCE	2 S/F	0857.1	0857.4	2				
	650 GORK	4 SF	0925.7	0925.9	1.5		70	10	
	536 ONDR	8 S	0935.8	0935.8	.3		41		
	650 GORK	20 GRF	0944.3	0952.8	9.3		9	2	
	100 GORK		0950.6	0953			25	D	
	100 GORK	41 F	0950.6	0950.7	3		25		
	33 UPIC	4 S/F	0952.7	0953.2U	1.3				
	29 UPIC	4 S/F	0952.8	0953.1	.7				
	113 POTS	4 S/F	0952.8	0952.9	.2		700	150	
	6100 KISV	45 C	1005	1008	10		6		
	6100 KISV		1005	1008.5			4		
	9100 GORK	20 GRF	1007.5	1007.9	7.9		7	3.5	
	10400 BERN	27 RF	1030	1217.9	132		5	14	
	8400 BERN	27 RF	1030	1102	132		10	26	
	10400 BERN	27	1030	1217.9	132		14		
	8400 BERN	27	1030	1102	132		26		
	6100 KISV	46 C	1045	1103	25		12		
	9100 GORK	20 GRF	1053.3	1103	52		21	10	
	4995 ATHN	2 GRF	1057.7	1102.1	21.4		18.4	11	
	2695 ATHN	2 GRF	1057.7	1100.5	17.2		9.5	5.7	
	2950 GORK	20 GRF	1057.9	1100	26		8.7		
	1415 ATHN	2 GRF	1058.5	1100.8	15.6		19.1	11.5	
	8800 ATHN	4 S/F	1058.5	1104.7	16.5		53.6	16.1	
	1470 BERL	3 S	1059.5	1100.5	4		13		
	3000 BERL	3 S	1059	1102.2	5		10		
	9500 BERL	20 GRF	1059	1102.8	46		15		
	113 POTS	8 S	1100.5	1100.9	.1		200	70	
	33 UPIC	42 SER	1100.6	1101.2	77.6				
	29 UPIC	42 SER	1100.9	1138.9	76.9				
	950 GORK	45 C	1101.2	1102.5	5.6		14		
	950 GORK		1101.2	1105			5		
	200 GORK	46 C	1128.9	1131.8	10.3		17	D	
	200 GORK		1128.9	1137.5			17		
	200 GORK		1128.9	1136.2			65		
	100 GORK		1130	1137.4			280		
	100 GORK	46 C	1130	1136.1	8.5		380		
	127 TORN	46 C	1130.9	1137.3	8.3		220		
	113 POTS	41 F	1131.5	1136.2	7		200	3	
	200 GORK		1202	1203.9			40		
	200 GORK	45 C	1202	1203	4 D		12		
	9500 BERL	20 GRF	1202	1217	37		15		
	100 GORK		1203	1204.8			230		
	100 GORK	46 C	1203	1204.5	7.5		200		
	650 GORK	1 S	1203	1204.3	2.1		5.5		
	950 GORK	2 SF	1203	1203.3	2.2		6		
	127 TORN	45 C	1203	1204.8	7.5		140	5	
	113 POTS	41 F	1204.4	1204.6	.6		280		
	9400 HUAN	S	1214	1216.2	5.5		13.1	9.6	O
	9100 GORK	20 GRF	1214.7	1218	15 D		14		
	8800 ATHN	2 GRF	1214.7	1217	10.3		14.8	10.3	
	4995 ATHN	2 GRF	1216	1217.2	6.7		4.1	6.7	
	536 ONDR	8 S	1228.4	1228.4	.3		68		
	9400 HUAN	S	1230.2	1231.2	4.1		8.2	3.9	O
	1470 BERL	3 S	1232.5	1233.2	2		11		
	3000 BERL	1 S	1232.5	1233.3	1.5		4.2		
	3000 BERL	3 S	1256.5	1257.5	3		11		
	2800 OTTA	21 GRF	1330	1355	155		2.2	1.1	
	9400 HUAN	S	1417.3	1420.2	6.2		26.3	9.4	L
	10400 BERN	3 S	1418.5	1420	7		9	25	

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
	8400 BERN	3 S	1418.5	1420	7	11	28		
	9500 BERL	3 S	1418.5	1420	4	25			
	8400 BERN	3	1418.6	1420.1	7	28			
	10400 BERN	3	1418.6	1420.1	7	25			
	7000 SAOP	45 C	1419	1420	3.2	30			0
	9100 ARCE	4 S/F	1419.3	1420.5	2.2				
	10715 OHIN	2 S/F	1419	1420	2	15	10		
	9100 ARCE	29 PBI	1421.5		7.2				
	2800 OTTA	1 S	1501.5	1503	2.5	2.4	1		
	2800 OTTA	1 S	1506	1506.5	2	1.4	.7		
	2800 OTTA	20 GRF	1540	1543	20	2.2	1.1		
	9400 HUAN	S	1605.8	1606.6	3.5	8.2	4.3		0
	2800 OTTA	240 R	1620	1627	7	2	1		
	9400 HUAN	S	1707.7	1953.7	245.7	41	26.8		0
	2695 PENT	240 R	1707	1720	13	2.6	1.3		
	2800 OTTA	21 GRF	1740	1940	230	9.2	6		
	2800 OTTA	20 GRF	1750	1755	15	3.4	1.9		
	9400 HUAN	S	1847.8	1849.6	4.7	16.4	9.8		R
	7000 SAOP	3 S	1848	1849.6	6.4	11			0
	2800 OTTA	1 S	1904	1904.5	1	2.6	1.3		
	9400 HUAN	S	1920	1920.6	1.8	14.8	9		R
	7000 SAOP	3 S	1944	1945.5	1.4	10.5			0
	9400 HUAN		1944.5	1946.8		15.6			
	9400 HUAN	C	1944.5	1945.6	3.1	16.4	5.8		0
	1415 SGMR	3 S	1956.1	1957.8	3	10	2		SWF
	2800 OTTA	2 S/F	1956.5	1959.9	2.5	9.8	4.8		
	606 SGHR	3 S	1957	1957.1	1.2	253	76		SWF
	7000 SAOP	45 C	1957	1957.6	1.8	17			35R
	9400 HUAN	S	1957.4	1958	1.3	14.8	8.5		R
	410 SGMR	6 S	1957.8	1958.1	.7	15	3		SWF
	1420 BOUL	1 S	1957 E	1958	2 D	4	1		
	2695 BOUL	3 S	1958 E	1959	2 D	13	4		
	9400 HUAN	S	2035.2	2035.8	1.8	9.8	4.4		0
	2695 PENT	21 GRF	2200	2230	75	5.2	2.6		
	2695 PENT	22 GRF	2215	2219.5	12	6.8	3.4		
14	260 ONDR	44 NS	0806 E		405 D	10			
	127 TORN	43 NS	1020 U	1052.7	250 D	32	.5U		V0
	536 ONDR	41 F	0933.5	0934.5	2	10			
	33 UPIC	8 S	0934.7	0935	.7				
	29 UPIC	8 S	0935	0935.3	.5				
	6100 KISV	4 S/F	0946	0947.2	4	4			
	33 UPIC	8 S	1136.9	1137.2	.6				
	29 UPIC	8	1137.1	1137.4	.4				
	9100 GORK	1 S	1139.9	1140.5	2.8	5.5	2.5		
	10400 BERN	21 GRF	1140.5	1201.8	85	4	11		
	8400 BERN	21 GRF	1140.5	1201.8	85	4	10		
	8400 BERN	21	1140.5	1201.8	85	10			
	10400 BERN	21	1140.5	1201.8	85	11			
	9100 GORK	1 S	1150.6	1154.8	5.8	5.5	2.5		
	1470 BERL	1 S	1150.8	1151.1	.7	2.2			
	9400 HUAN	S	1153.7	1201.7	16	12.3	4.4		R
	9100 GORK	1 S	1200.8	1202	5.7	11.5	5.5		
	10715 OHIN	1 S	1200	1202	3	10	8		
	9500 BERL	3 S	1201	1202	3	16			
	536 ONDR	41 F	1302	1306.2	6	136			
	410 SGHR	6 S	1303	1303.7	5.3	58.6	17.6		
	1415 SGHR	3 S	1305	1307.3	3	13	3.9		
	606 SGHR	3 S	1306	1306.6	1.4	396	119		
	3000 BERL	1 S	1306.5	1306.6	1.5	5.3			
	2800 OTTA	2 S/F	1306.5	1306.7	1.5	4.4			
	1470 BERL	4 S/F	1306.6	1306.9	1.4	6.1			
	930 BORD	45 C	1306	1307.4	1.5	16			
	9400 HUAN	S	1321	1436.2	131.5	15.8	7		R
	33 UPIC	8 S	1325.1	1325.4	.5				
	29 UPIC	8 S	1325	1325.2	.5				
	606 SGHR	3 S	1341	1342.2	10.8	10.5	3.2		
	2695 SGHR	3 S	1341.5	1341.9	.7	17.2	5.2		
	536 ONDR	41 F	1342.5	1343.3	2	21			
	1415 SGHR	1 S	1344.7	1345.5	1.3	7.8	2.3		
	2800 OTTA	1 S	1358	1358.5	1	2.2	1		
	2800 OTTA	21 GRF	1515	1641	285	23.8	11.1		
	9100 ARCE	1 S	1528.3	1528.5	1.1				RECORD DISTURBE
	4995 BCUL	20 GRF	1530	1642.5	117.5	49	16		
	2800 OTTA	40 F	1537.5	1602	35	12.6			
	2695 SGHR	45 C	1545.5	1636.4		17.6			SWF
	2695 SGHR	45 C	1545.5	1549.1	142.5	9.4	5.2		SWF
	4995 SGHR	45 C	1547	1635.4		27.4			SWF
	4995 SGHR	45 C	1547	1555.1	141	11.5	8.2		SWF
	8800 SGHR	45 C	1548.7	1553	139.3	9.5	6.2		SWF
	8800 SGHR	45 C	1548.7	1635		20.5			SWF
	2695 BCUL	20 GRF	1549 E	1645 U	101 D	19	6		
	9400 HUAN	S	1601.7E	1638.2	225.4	47.3	18		R
	606 SGHR	1 S	1603.4	1608.7	.9.1	9.5	2.9		
	930 BORD	3 S	1603.7	1603.7	.3	20	2		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
	410 SGMR	6 S	1603.9	1608.2	7.1	73.9	22.2		
	9400 HUAN	S	1755.5	1759.6	6.1	8.8	5.6		0
	2800 OTTA	2 S/F	1756	1758	3	3.4	.6		
	245 SGMR	48 GB	1851.9	1852	.5	964	289		5
	410 SGMR	7 S	1851.9	1852	.5	455	137		5
	9400 HUAN	S	1858.2	1859.1	1.9	12.3	5.3		0
	9400 HUAN	S	1936.5	1937.4	1.7	7	1.8		0
15	200 GORK	43 NS	0536		315 E		5		
	127 TORN	44 NS	0720 E	1023.3	430 0	32	1.5		VO
	260 ONDR	44 NS	0752 E		396 0	67			
	245 SGMR	44 NS	1145 E	1207	625 0	51.8			
	410 SGMR	44 NS	1145 E	1409.6	625 0	67.6			
	100 GORK	41 F	0742	0742.2	21	25			
	100 GORK		0742	0801.4		30 D			
	100 GORK		0742	0750		25 D			
	113 POTS	42 SER	0749.3	0749.5	17	105	1		
	100 GORK		0825	0836.8		30			
	100 GORK	41 F	0825	0825.5	13	30 D			
	113 POTS	42 SER	0825.4	0825.4	6.1	100	1		
	15000 KISV	20 GRF	0840	0850	15	12			
	6100 KISV	20 GRF	0840	0855	65	4			
	536 ONDR	42 SER	0856	0857.6	3.5	39			
	100 GORK		0924	0926.2		35 D			
	100 GORK	41 F	0924	0924.4	5.7	35 D			
	100 GORK		0924	0927.3		35			
	100 GORK		0944.7	0945.4	14	35			
	100 GORK		0944.7	0952.2		30 D			
	100 GORK		0944.7	0945.9		30			
	234 POTS	41 F	0955.6	0955.7	.8	160	4		
	930 BORD	46 C	1132	1132.3	.4	20	2		
	260 ONDR	8 S	1138.8	1138.8	.4	135			
	234 POTS	8 S	1139.2	1139.3	.2	500	175		
	113 POTS	8 S	1139.3	1139.3	.1	110	35		
	600 UCCL	1 S	1155.5	1156	1	8	4		
	930 BORD	41 F	1156.8	1200.5	5.2	31	3		
	2800 OTTA	23 GRF	1522	1619.4	155	15.2	6.6		
	9400 HUAN	S	1553.7	1555.7	5.6	14.3	6.6		R
	7000 SAOP	3 S	1554	1555.6	2.8	13.5			
	4995 BOUL	45 C	1713.5	1715.5	7	49	16		
4995 BOUL	8 S	1713.5	1714	1 U	44	15			
9400 HUAN	C	1713.8	1714.8	8.6	76.1	27.2		R	
9400 HUAN		1713.8	1715.8		74.5			R	
4995 SGMR	3 S	1713.8	1715.9	4.7	137	54.8		SWF	
7000 SAOP	45 C	1714	1714.9	4	101				
8800 SGMR	3 S	1714.2	1714.9	3.8	80.9	32.4		SWF	
2695 SGMR	3 S	1714.2	1716.3	4.3	139	55.6		SWF	
1420 BOUL	45 C	1714.5E	1716.5	5 D	72	24			
410 SGMR	3 S	1714.5	1716.6	2.5	166	66.4		SWF	
1420 BOUL	3 S	1714.5E	1715.5	1 U	30	10			
2800 OTTA	45 C	1714	1716.3	10	130	31			
15400 SGMR	3 S	1715	1716.9	2	46.1	18.4		SWF	
2695 BOUL	45 C	1715 E	1717	7.5D	132	44			
2695 BOUL	3 S	1715 E	1716	1 U	47	16			
1420 BOUL	29 PBI	1719	1719	21 D	25	8			
2800 OTTA	29 PBI	1724	1724	8	5.6	2.8			
9400 HUAN	S	1744.5	1744.8	3.1	23.8	8.9		RLR	
9400 HUAN	S	1943.4	2045.5	93.8	12.7	5.7		0	
2800 OTTA	20 GRF	2030	2053	52	5	2.5			
2695 PENT	22 GRF	2128	2157	92	14.6	5.7			
1420 BOUL	3 S	2252 E	2252.5	1.5D	8	3			
16	2930 VORO	42 SER	0140	0227	150	216			
	5730 IRKU		0141	0151.2		609			R
	5730 IRKU		0141	0150.4		569			R
	5730 IRKU		0141	0147.7		165			R
	5730 IRKU	47 GB	0141	0145.6	28	23			R
	5730 IRKU		0141	0202.7		67			R
	5730 IRKU		0141	0201.3		67			R
	5730 IRKU		0141	0153.5		468			R
	2695 HANI	47 GB	0141.8	0229.3	134	3000	700		
	1415 HANI	47 GB	0143	0231.6	133	8800	500		
	606 HANI	47 GB	0145.8	0229.9	130.8	3000	700		
	500 HIRA		0146.6	0345.2		50			ML
	500 HIRA		0146.6	0306.6		110			ML
	500 HIRA		0146.6	0245.1		500			SL
	500 HIRA		0146.6	0231.1		880			SL
	500 HIRA	48 C	0146.6	0153.4	150	450	150		ML
	35000 NAGO	47 GB	0147	0151	12	850			
	8800 HANI	4 S/F	0148.4	0151.6	10.9D	465 D	154.20		IG, SCNA
	200 HIRA	48 C	0148	0150.5	182	64000 0	100		ML
	200 HIRA		0148	0303		600			ML
200 HIRA		0148	0228		80			ML	
100 HIRA		0150	0228		180			0	
100 HIRA	48 C	0150	0151.5	95	40000 D	500			

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
16	35000 NAGO	29 PBI	0159	0159	97	140			
	5730 IRKU	2 S	0220.3	0225.5	20	137	37		R
	5730 IRKU	29 PBI	0240		20	23	9		R
	5730 IRKU	45 C	0331	0304.6	30	18	6		R
	5730 IRKU		0331	0316.1		15			R
	5730 IRKU		0331	0315.7		14			R
	100 GORK	43 NS	0534		120		5		
	202 IZHI	43 NS	0730		300	50			
	127 TORN	44 NS	0720	E 1140.3	430 0	11	1.5		V0
	260 ONDR	44 NS	0753	E	417 0	152	8		
	245 SGMR	44 NS	1144	E 1526.1	628 0	610			
	410 SGMR	44 NS	1144	E 1539	628 0	820			
	606 SGMR	43 NS	1446	1525.6	258	12			
	1415 SGMR	43 NS	1446	1504.3	258	250			
	100 GORK	41 F	0539.6	0539.7	1.7	90	0		
	100 GORK		0539.6	0540.8		175			
	100 GORK	8 S	0548	0548.1	.3	90	0		
	100 GORK		0554.3	0557		90			
	100 GORK		0554.3	0555.1		70			
	100 GORK	41 F	0554.3	0554.5	3	55			
	100 GORK	41 F	0616.3	0617.2	11	90	0		
	100 GORK		0616.3	0626		260			
	100 GORK		0616.3	0623		380			
	100 GORK		0616.3	0621		1180			
	650 GORK	41 F	0730.7	0731.4	2.9	44			
	650 GORK		0730.7	0733.2		5			
	1470 BERL	41 F	0742	0747	5.5	102			
	930 BORD	41 F	0746	0747.6	1.6	37	2		
	1470 BERL	40 F	0801	0803.5	7	23			
	6100 KISV	20 GRF	0843.4	0844	12	3			
	15000 KISV	20 GRF	0843	0844	12	10			
	9100 GORK	20 GRF	0844	0844.3	15.4	8	2.5		
	1470 BERL	41 F	0901	0902.5	2	18			
	950 GORK	2 SF	0917.7	0919.6	2	9			
	930 BORD	8 S	0919.4	0919.4	.1	24	2		
	234 POTS	8 S	0931.3	0931.3	.1	230	80		
	6100 KISV	8 S	0956.5	0957	2	3			
	930 BORD	41 F	0959.5	0959.8	.9	21	3		
	234 POTS	41 F	1005.5	1006.4	1.4	160	2		
	113 POTS	41 F	1005.6	1006.5	1.4	3500	85		
	930 BORD	41 F	1038.7	1039	3.3	77	5		
	100 GORK	8 S	1040.3	1040.8	.8	260			
	930 BORD	46 C	1103.4	1103.7	.6	28	2		
	100 GORK		1105	1119		245			
	100 GORK		1105	1113.4		6600			
	100 GORK	41 F	1105	1109.4	14.5	2260			
	9100 GORK	1 S	1105.8	1108.5	6.1	12	6		
	6100 KISV	45 C	1105	1108.3	10	9			
	15000 KISV	4 S/F	1105	1108	5	12			
	1470 BERL	41 F	1106	1110	9	81			
	950 GORK	4 SF	1106.8	1108.8	7.7	335			
	2950 GORK	20 GRF	1107.2	1108.3	11.3	15	7.5		
	650 GORK	22 GRF	1107.4	1110.7	9	8	3		
	127 TORN	47 GB	1107.4	1109.2	6.5	510	60		
	202 IZHI	41 F	1107.5	1107.8	6	370			
	3100 CRIM		1107.5	1114		4			
	3100 CRIM		1107.5	1111		4			
	3100 CRIM	45 C	1107.5	1108.5	9	6			
	9500 BERL	1 S	1107.5	1108.2	1.5	6.3			
	3000 BERL	20 GRF	1107	1108.2	8	8.9			
	808 ONDR	45 C	1107	1110.3	8	20	5		
	113 POTS	42 SER	1108.4	1113.2	11	2500	20		
	234 POTS	42 SER	1108.7	1109.2	10	210	1		
	536 ONOR	41 F	1108.7	1113	10.5	8	2.9		
	33 UPIC	45 C	1109.8		2.6				
	930 BORD	46 C	1110	E 1110.1	1 0	28	2		
	33 UPIC	4 S/F	1113.1	1113.6	1.3				
	650 GORK	1 S	1118	1118.4	1.5	3.5			
	650 GORK	1 S	1130	1130.7	5.6	5			
	1470 BERL	8 S	1131.3	1131.5	.3	14			
	808 ONDR	46 C	1154.5	1157.7	5	65	31		
	234 POTS	8 S	1211.5	1211.6	.1	250	80		
	930 BORD	41 F	1215	1215.3	1	28	2		
	930 BORD	41 F	1219.8	1220.2	.6	18	2		
	9400 HUAN	41 S	1224.8	1225.3	2	26.1	12.7		L
	113 POTS	41 F	1226	1226.5	.6	175	5		
	100 GORK	41 F	1226.2	1226.2	.7	125			
	100 GORK		1226.2	1226.7		245			
	536 ONDR	8 S	1227.5	1227.5	.2	27			
	100 GORK		1243.2	1243.4	17	80			
	100 GORK		1243.2	1258.3		2600			
	100 GORK		1243.2	1256.7		2600			
	100 GORK		1243.2	1251.8		220			
	7000 SAOP	45 C	1244	1256.7		469			
	9500 BERL	4 S/F	1245	1256.7	19	400			19R

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	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		
16	2650 DWIN	4 S/F	1246	1246	1	35	20		
	2695 ATHN	14 C	1247	1256.6	15.9	159.4	47.8		
	1470 BERL	46 C	1247	1257	13	1830			
	3000 BERL	45 C	1247	1256.5	16	132			
	4995 ATHN	14 C	1247	1256.6	16	241.5	72.5		
	1415 ATHN	15 GB	1247	1256.5	13.8	7262.5	2178.8		
	9400 HUAN	C	1247.4	1256.9	28.1	416.6	124.2		R
	8800 ATHN	15 GB	1247.4	1247.4	15	646.8	194.1		
	930 BORD	46 C	1247	1247.8	13	1712	25		
	600 UCCL	46 C	1251	1252	7	78	20		
	650 GORK	4 SF	1253.6	1256.5	6	55	19		
	127 TORN	45 C	1254.4	1255.8	7 U	470	70		
	950 GORK	4 SF	1254.6	1256.8	4.8	204			
	4995 SGMR	3 S	1254.8	1256.3	7.3	258	103		5
	410 SGMR	6 S	1254.9	1257.6	6.7	54.3	21.7		5
	10715 DWIN	45 C	1254	1256	9	300 D			
	2650 DWIN	45 C	1254		7	110 D			
	2800 OTTA	4 S/F	1254	1257	8	122.4	32.4		
	2695 SGMR	3 S	1255	1257.2	6.4	175	70		5
	10400 BERN	46 C	1255.1	1256.7	17	126	376		
	33 UPIC	46 C	1255.1	1256.7U	4.3				
	113 POTS	45 C	1255.1	1258.6	3.7	5000	70		
	234 POTS	4 S/F	1255.1	1255.7	1.8	230	15		
	606 SGMR	3 S	1255.2	1257	4.8	67.2	26.9		5
	10400 BERN	46	1255.2	1256.8	17	376			
	2950 GORK	4 SF	1255.3	1257	4.8	188			
	15400 SGMR	3 S	1255.5	1256.8	6.4	293	117		5
	245 SGMR	6 S	1255.6	1256.1	4	207	82.8		5
	29 UPIC	46 C	1255.8	1257.6	2.7				
	8800 SGMR	3 S	1255.8	1256.6	6.8	478	191		5
	536 ONDR	4 S/F	1255	1256.6	6.5	32	21		
	2800 OTTA	20 GRF	1325	1335.5	40 D	6.6			
	9400 HUAN	S	1331.8	1345.5	25.8	5.2	2.6		R
	930 BORD	41 F	1333	1334.6	3	55	2		
	33 UPIC	2 S/F	1334.2	1334.9	2.7				
	29 UPIC	2 S/F	1334.2	1335.2	1.3				
	930 BORD	41 F	1356.7	1356.7	.6	14	2		
	113 POTS	41 F	1411.3	1413.1	2.2	1000	20		
	9400 HUAN	S	1442.8	1535.8	82	7	6.7		R
	9400 HUAN	S	1444	1445.3	1.8	8.7	5.2		R
	606 SGMR	1 S	1444.2	1444.8	2.4	6.3	2.5		
	1415 SGMR	3 S	1444.5	1445.3	1.5	256	102		
	1420 BOUL	45 C	1444 E	1445	2 D	206	69		
	930 BORD	46 C	1444	1445.5	2	268	25		
	410 SGMR	3 S	1445.1	1445.3	1	75.3	30.1		
	2800 OTTA	1 S	1445.2	1446	2	4.4	2.2		
	930 BORD	45 C	1450	1450.5	1.5	34	5		
	1420 BCUL	45 C	1450 E	1450.5	1.5D	72	24		
	1420 BOUL	8 S	1454 E	1454	.5D	33	11		
	9400 HUAN	S	1503.2	1504.2	1.6	10.4	5.5		R
	1420 BOUL	8 S	1503.5E	1504	1.5D	273	91		
	930 BORD	45 C	1504	1504.4	.8	278	15		
	2800 OTTA	1 S	1504	1504.5	1	4.4	2.2		
	930 BORD	41 F	1511	1512	1.4	24	3		
	1415 ATHN	3 S	1519.4	1519.9	.8	42.4	12.7		
	10400 BERN	1 S	1519.4	1519.8	1	7	20		
	7000 SAOP	8 S	1519.5	1519.8	.6	42			33R
	10400 BERN	1	1519.5	1519.8	1	20			
	9400 HUAN	S	1519.5	1519.8	1.1	17.4	8.4		R
	930 BORD	46 C	1519.5	1519.8	.8	85	9		
	1420 BOUL	45 C	1519.5E	1600	1 D	49	16		
	4995 ATHN	3 S	1519.6	1519.9	1.3	27.3	8.2		
	2695 ATHN	3 S	1519.6	1519.8	.9	13.3	4		
	8800 ATHN	3 S	1519.7	1519.8	1.1	28.7	8.6		
	4995 BOUL	8 S	1519	1519.5	1	24	8		
	2695 BOUL	3 S	1520.5E	1520.5	.5D	13	4		
	1420 BOUL	3 S	1524 E	1524.5	1 D	9	3		
	2800 OTTA	1 S	1534.5	1535	1	3.4	1.7		
	7000 SAOP	1 S	1535	1535.5		8.5			59R
	930 BORD	45 C	1541.4	1541.6	.6	70	2		
	9400 HUAN	S	1620.2	1635.2	27.9	10.5	8.3		R
	2800 OTTA	20 GRF	1620	1628.5	40	9.6	3.2		
	7000 SAOP	20 GRF	1625			12			33R
	606 SGMR	45 C	1720.2	1720.3	49.6	18			3S, SWF
	606 SGMR	45 C	1720.2	1734.3		16			3S, SWF
	606 SGMR	45 C	1720.2	1755		26	5		3S, SWF
	4995 BOUL	8 S	1720.5	1721	2	24	8		
	7000 SAOP	46 C	1721	1722.2	1	38			49R
	9400 HUAN	S	1721.3	1729.7	11.1	15.7	9.7		D
	9400 HUAN	S	1721.8	1722.1	1	26.1	13.1		R
	4995 SGMR	45 C	1721.8	1722	50.4	32	26		3S, SWF
	4995 SGMR	45 C	1721.8	1734.5		88			3S, SWF
	4995 SGMR	45 C	1721.8	1754.8		31			3S, SWF
	2800 OTTA	40 F	1721	1735	15	56.8			
	1415 SGMR	45 C	1722	1734.2		433			3S, SWF

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	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		
16	1415 SGMR	45 C	1722	1722.4	55.4	68	88		3S, SWF
	1415 SGMR	45 C	1722	1755.1		94			3S, SWF
	8800 SGMR	45 C	1722	1734.7		102			3S, SWF
	8800 SGMR	45 C	1722	1722.3	51.8	27	31		3S, SWF
	245 SGMR	49 C	1722.1	1722.5	47.7	1230	246		3S, SWF
	245 SGMR	49 C	1722.1	1741.6		480			3S, SWF
	2695 SGMR	45 C	1722.4	1754.3		46			3S, SWF
	2695 SGMR	45 C	1722.4	1735.2		56			3S, SWF
	2695 SGMR	45 C	1722.4	1722.7	50.6	14	11		3S, SWF
	2695 BCUL	3 S	1722.5E	1723	1 D	20	7		
	7000 SAOP	46 C	1723.4	1725	2.6	18			28R
	9400 HUAN	S	1724.1	1725.2	1.7	10.4	7.6		0
	1420 BCUL	3 S	1724 E	1724.5	1 D	60	20		
	7000 SAOP	S	1728	1731.4		18			33R
	15400 SGMR	3 S	1730	1734.7	43	112	34		3S, SWF
	1420 BOUL	42 SER	1731 E	1735	5 D	405	135		
	4995 BOUL	8 S	1733.5	1734	2	70	23		
	9400 HUAN	S	1733.7	1734.7	3	97.6	25.5		R
	7000 SAOP	4 S/F	1734	1734.8	1	100			26R
	2695 BOUL	8 S	1735 E	1735.5	1 D	71	24		
	7000 SAOP	3 S	1740.7	1741.5	1.2	11			46R
	1420 BOUL	8 S	1742 E	1742	.5D	36	12		
	9400 HUAN	S	1750.4	1755.2	14.2	13.9	3.9		R
	4995 BOUL	4 SF	1751	1754.5	7.5	24	8		
	2800 OTTA	4 S/F	1751	1755.1	6	29.4	7.6		
	1420 BOUL	4 SF	1754.5E	1755.5	2.5D	83	28		
	2695 BCUL	4 SF	1755.5E	1756	1.5D	35	12		
	2800 OTTA	30 PBI	1758	1758	19	4.4	2.4		
	2800 OTTA	40 F	1805.8	1809	7	79			
	2800 OTTA	31 ABS	1818	1827	26	-4.2	-2.1		
	9400 HUAN	S	1823.2	1840	23.5	15.7	11.7		G
	9400 HUAN	S	1850.4	1903.5	25.5	17.4	7.5		G
	9400 HUAN	S	1859.5	1900.5	2.6	55.8	19.4		R
	4995 SGMR	3 S	1859.8	1908.2	2.3	32.5	13		
	4995 BOUL	8 S	1859	1900	2	27	9		
	7000 SAOP	4 S/F	1900	1900.4	2	52			29R
	410 SGMR	6 S	1900	1900.4	1.2	90.5	36.2		
	245 SGMR	48 GB	1900.1	1900.5	1.3	1330	532		
	15400 SGMR	3 S	1900.1	1900.4	2.1	40.9	16.4		
	606 SGMR	3 S	1900.1	1900.6	1.4	10.3	4.1		
	8800 SGMR	3 S	1900.1	1900.4	1.7	46.2	18.5		
	2695 SGMR	3 S	1900.2	1900.6	1.7	14.8	5.9		
	1415 SGMR	3 S	1900.2	1901	1.4	43.4	17.4		
	2800 OTTA	3 S	1900	1900.4	2	13.6	4.6		
	1420 BCUL	3 S	1900 E	1905	1 D	25	8		
	2695 BOUL	3 S	1931 E	1901.5	1.5D	14	5		
	9400 HUAN	C	1950.3	1956	9.4	87.2	30.8		R
	9400 HUAN	S	1950.3	1956.5		99.4			R
	7000 SAOP	1 S	1952	1952.6		9.5			80R
	1415 SGMR	3 S	1952	1955.6	5.5	62	24.8		5
	606 SGMR	3 S	1952	1956	5.5	11.4	4.6		5
	245 SGMR	7 S	1952.2	1956.1	5.3	482	193		5
	2800 OTTA	1 S	1952	1952.7	1	4.4	2.2		
	410 SGMR	6 S	1953	1953.2	4.5	113	45.2		5
	2695 SGMR	3 S	1954	1954.9	3.5	25.2	10.1		5
	4995 SGMR	3 S	1954	1955.5	3.5	61.6	24.6		5
	8800 SGMR	3 S	1954.8	1955.7	2.7	80.9	32.4		5
	15400 SGMR	3 S	1955	1956.1	2.5	74.2	29.7		5
	7000 SAOP	46 C	1955	1956.4	1.8	104			25R
	2800 OTTA	4 S/F	1955.5	1956	3	26.2	11.4		
	1420 BOUL	4 SF	1955 E	1956.5	2 D	45	15		
	4995 BOUL	45 C	1955	1955.5	2.5	58	19		
	2695 BOUL	3 S	1955.5E	1957.5	2 D	28	9		
	9400 HUAN	S	2030.2	2031	1.8	7	4.7		R
	9400 HUAN	S	2050.2	2051.3	1.9	10.4	5.2		R
	2800 OTTA	4 S/F	2050.3	2051.5	2.5	56.8	19		
	606 SGMR	3 S	2050.5	2051	2.5	10.5	2		
	1415 SGMR	47 GB	2050.5	2051	2.5	1860	370		
	4995 SGMR	1 S	2050.5	2051.1	2.7	7	1		
	1420 BOUL	47 GB	2050.5E	2051	2 D	926	309		
	2800 OTTA	21 GRF	2050	2113	40	3.8	2		
	2695 SGMR	2 S	2051	2052	1.9	57	12		
	2695 BOUL	4 SF	2051.5E	2052.5	1.5D	81	27		
	2800 OTTA	1 S	2055	2055.5	1.5	2.6	1.3		
	9400 HUAN	S	2124.4	2125.3	1.8	12.2	9.6		0
	9400 HUAN	C	2132.2	2141.8		80.2			R
	9400 HUAN	C	2132.2	2140.8	31.8	83.7	30.2		R
	9400 HUAN	C	2132.2	2143.6		85.4			R
	8800 SGMR	3 S	2139.5	2140.9	12.5	104	21		3S
	4995 BOUL	45 C	2139	2143	16	39	13		
	1415 SGMR	3 S	2140	2143.8	14	370	75		3S
	2800 OTTA	40 F	2140.2	2140.3	1.5	12.2			
	606 SGMR	3 S	2140.5	2141	5	22	4.4		3S
	2800 OTTA	21 GRF	2140	2142	20	4.6	2.3		
	1420 BOUL	42 SER	2141 E	2143.5	12 D	116	39		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
	4995 SGMR	3 S	2143	2143.5	8.2	31	6		3S
	2695 SGMR	3 S	2143.1	2144.2	4.8	98	20		3S
	2800 OTTA	4 S/F	2143.2	2143.9	3	102	19		
	410 SGMR	6 S	2143.5	2143.9	1.5	96	19.2		3S
	2695 BOUL	8 S	2144 E	2144.5	1 J	106	35		
	245 SGMR	7 S	2145	2145.1	.4	340	68		3S
	4995 BOUL	4 SF	2149.5	2150	1.5	33	11		
	2695 PENT	4 S/F	2150.2	2150.5	3	13.2	4.4		
	2695 PENT	1 S	2158.8	2159.2	1	5.6			
	2695 PENT	8 S	2214.2	2214.2	.1	6.8			
	4995 BOUL	45 C	2217.5	2218.5	4	15	5		
	1420 BOUL	47 GB	2217 E	2221	10.50	1643	948		
	9400 HUAN	S	2218.3	2236.3	26.6	22.7	13.7		G
	2695 PENT	40 F	2218	2221.8	10	166			
	2695 BOUL	46 F	2219 E	2222.5	8 J	149	50		
	9400 HUAN	S	2221	2221.5	1.5	8.7	7.7		G
	4995 BOUL	6 S	2234.5	2235	1.5	43	14		
	9400 HUAN	8 S	2235	2235.4	1	134.3	51		R
	2695 MANI	4 S/F	2235.3	2235.6	.6	128.1	85.4		IG
	606 MANI	4 S/F	2235.3	2235.6	1.1	44.7	29.8		
	1415 MANI	47 GB	2235.3	2235.5	2.2	2500	950		
	1420 BOUL	47 GB	2235 E	2235.5	2.50	1856	619		
	2695 PENT	3 S	2235	2235.7	1	189	94		
	2695 BOUL	8 S	2236 E	2236.5	1 D	165	55		
	9400 HUAN	S	2248.7	2253.1	8.6	113.4	67.8		R
	4995 BOUL	8 S	2251.5	2252.5	1.5	46	15		
	2695 PENT	40 F	2252.5	2254.7	13	66			
	2695 BOUL	42 SER	2253.5E	2256	12 D	50	17		
	35000 NAGO	22 GRF	2253	2253	20	9			
	1420 BOUL	47 GB	2254 E	2255	7 D	1150	383		
	1420 BOUL	45 C	2301 E	2304	7.50	454	151		
17	2930 VORO	42 SER	0020	0025	35	230			
	2695 PENT	8 S	0021	0021	.1	24.6			
	35000 NAGO	28 PRE	0021	0030	9	13			
	2695 PENT	4 S/F	0022.7	0023.8	2	430	132.8		
	500 HIRA	46 C	0029.7	0030.1	6	1000	350		ML
	100 HIRA	46 C	0029.8	0030	2	40000 D	5000		
	606 MANI	4 S/F	0029.8	0030.2	5.9	160.9	107.3		
	1415 MANI	4 S/F	0030	0030.4	2 D	12.70	4.20		I
	35000 NAGO	5 S	0030	0031	4	100			
	35000 NAGO	29 PBI	0034	0039	15	20			
	606 MANI	2 S/F	0051	0051.5	2.4	6	2		
	1415 MANI	4 S/F	0051.3	0051.7	.60	12.70	4.20		
	200 HIRA	43 NS	0215	0620	365 D	40	15		ML
	100 GORK	44 NS	0529 E		415 E		10		
	221 ABST	44 NS	0600	0829.8	180	38			
	202 IZMI	44 NS	0700		300	35			
	127 TORN	44 NS	0720 E	1046.6	460 J	70	20		V1
	260 ONDR	44 NS	0740 E		436 D	168	15		
	410 SGMR	44 NS	1142 E	2140.8	631 D	59			5,CONT
	245 SGHR	44 NS	1142 E	1253.1	631 D	284			5,CONT
	200 HIRA	44 NS	2130 E	0245	650 D	240	120		ML
	100 HIRA	44 NS	2130 E	0440	650 J	700	150		SL
	2930 VORO	42 SER	0225	0037	50	315			
	606 MANI	4 S/F	0233	0234.6	11	104.3	30		
	500 HIRA	46 C	0233.2	0237.4	9	35	15		ML
	1415 MANI	47 GB	0234.7E	0235.2	11.70	3600	1200		
	8800 MANI	4 S/F	0234.7E	0237.7	5.40	265.8	105		IG
	2695 MANI	4 S/F	0234.7E	0235.2	11.80	461.9	150		
	35000 NAGO	22 GRF	0234	0241	23	22			
	35000 NAGO	5 S	0236	0238	4	192			
	1415 MANI	4 S/F	0311.6	0312	1.1	21.2	7.1		
	2695 MANI	4 S/F	0311.6	0312	1.4	163.9	109.2		
	1415 MANI	4 S/F	0403.4	0404	2	41.2	13.7		
	1415 MANI	4 S/F	0436.5	0437	3.5	39.4	13.1		I
	2695 MANI	4 S/F	0436.7	0437.3	3.3	28.6	9.5		
	9100 GORK	20 GRF	0622.4	0625.4	9.2	6	2.5		
	9100 GORK	1 S	0644.7	0646	4	8.5	4		
	6100 KISV	8 S	0658.5	0659	2	4			
	234 POTS	41 F	0713.7	0715	1.6	525	6		
	6100 KISV	8 S	0750	0750.5	1	6			
	9100 GORK	21 GRF	0801.8	0820.7	37.2	14.5	4.5		
	8400 BERN	23	0802	0819.6	26	56			9R
	10400 BERN	23 GRF	0802	0819.5	26	16	47		
	8400 BERN	23 GRF	0802	0819.5	26	21	56		
	10400 BERN	23	0802	0819.6	26	47			
	2950 GORK	21 GRF	0809.7	0813.6	16	12	6		
	127 TORN	47 GB	0809.8	0810.6	4.5	600			
	1470 BERL	3 S	0810	0811	1.5	15			
	1415 MANI	3 S	0810	0811	2.6	17.9	5.9		
	606 MANI	3 S	0810	0813.9	4.3	17.3	5.7		
	100 GORK		0810	0810.8		2160 D			
	100 GORK	45 C	0810	0810.6	1.6	2160 D			
	950 GORK		0810.1	0813.9		6.5			

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	PEAK 10^{-22} Wm^{-2}	MEAN Hz^{-1}		
	950 GORK	45 C	0810.1	0810.9	3.4		9		
	113 POTS	46 C	0810.2	0810.8	7.6	1800	20		
	650 GORK	45 C	0810.3	0811	5.9	10			
	650 GORK		0810.3	0813.8			6.5		
	33 UPIC	42 SER	0810.5	0811.1	3.9				
	3000 BERL	3 S	0810.5	0810.9	1	14			
	9500 BERL	3 S	0810.5	0811.7	2.7	13			
	234 POTS	41 F	0810.6	0810.8	3.4	245	4		
	29 UPIC	42 SER	0810.6	0811	3.5				
	2950 GORK	3 S	0810.6	0810.8	.8	30	15		
	2695 HANI	4 S/F	0810.6	0810.9	1.4	28.6	9.5		
	2650 DWIN	2 S/F	0810	0810	1	30	20		
	9100 ARCE	28 PRE	0816.5		2				
	6100 KISV	45 C	0817	0820	13	14			
	6100 KISV		0817	0819		10			
	9100 GORK	2 SF	0818	0819.6	2.7	27	9.5		
	9100 ARCE	45 C	0818.5	0819.9	3.7				
	9500 BERL	3 S	0818.5	0819.6	3	27			
	9100 GORK	1 S	0859.4	0900.3	3.2	5.5	2		
	1470 BERL	4 S/F	0901	0902.4	2.5	41			
	1470 BERL	1 S	0919.5	0919.9	.6	3.3			
	234 POTS	8 S	0949	0949.2	.3	500	150		
	1470 BERL	8 S	0955.8	0956	.6	21			
	2650 DWIN	2 S/F	1032	1002	1	30	10		
	202 IZMI	41 F	1040.6	1043	5.2	370			
	6100 KISV	46 C	1105	1119	45	6			
	10400 BERN	1 S	1218.5	1219.2	5	4	11		
	8400 BERN	1 S	1218.5	1219.2	5	4	10		
	8400 BERN	1	1218.6	1219.3	5	10			
	10400 BERN	11	1218.6	1219.3	5	11			
	10400 BERN	23 GRF	1240.2	1253.2	40	6	17		
	8400 BERN	23 GRF	1240.2	1253.2	40	6	15		
	8400 BERN	23	1240.3	1253.2	40	15			
	10400 BERN	23	1240.3	1253.2	40	17			
	9400 HUAN	S	1240.7	1241.3	2	12.1	7.9		0
	33 UPIC	45 C	1245.7	1246.9	3.2				
	1470 BERL	1 S	1246.5	1247	2.5	4.6			
	3000 BERL	8 S	1246.5	1246.9	.6	12			
	29 UPIC	45 C	1246.7	1247.3	1.6				
	9400 HUAN	S	1247.7	1256.8	21.9	8.7	5.6		0
	9400 HUAN	S	1251.1	1251.8	4.3	13.9	7.1		0
	2800 OTTA	21 GRF	1320	1450	200	9.2			
	2650 DWIN	2 S/F	1346	1046	1	40	10		
	9400 HUAN	S	1402.3	1412.5	19.9	6.9	2.2		0
	7000 SAOP	4 S/F	1435	1438.2	14.6	37.5			17R
	9400 HUAN	S	1436.3	1438.1	4.1	27.7	15.8		0
	8400 BERN	45	1436.4	1438.2	53	29			
	10400 BERN	45 C	1436.4	1438.2	53	10	27		
	8400 BERN	45 C	1436.4	1438.2	53	12	29		
	10400 BERN	45	1436.4	1438.2	53	27			
	8800 SGMR	3 S	1437.2	1438.5	3	42.1	12.6		5,SWF
	15400 SGMR	3 S	1437.2	1438.2	4.8	21.8	6.5		5,SWF
	4995 SGMR	3 S	1437.5	1437.8	3.5	17.8	5.3		5,SWF
	10715 DWIN	4 S/F	1437	1438	8	20	10		
	1420 BOUL	45 C	1437 E	1439	1.50	25	8		
	2800 OTTA	45 C	1438.1	1439.1	1.5	40	13		
	1415 SGMR	3 S	1438.4	1439.1	1.6	41.5	12.5		5,SWF
	2695 BOUL	45 C	1438.5E	1440	2 0	36	12		
	2695 SGMR	3 S	1438.5	1439.8	1.6	140	42		5,SWF
	2650 DWIN	45 C	1438	1439	2	65	10		
	9400 HUAN	PBI	1440.4	1440.4	82.3	12.1	5		0
	9400 HUAN	S	1445.3	1445.8	1.1	6.9	3.8		R
	2800 OTTA	240 R	1717	1725	8	3.2	2		
	2800 OTTA	240 R	1822	1825	3	2.4	1.2		
	2800 OTTA	40 F	1839.5	1848	11	7.8			
	2800 OTTA	24 R	1839	1851	12	3.2			
	2800 OTTA	27A RF	1839		180	3.2	2.8		
	2800 OTTA	24P R	1851		129	3.2			
	2800 OTTA	3 S	1905.5	1905.6	1	11.6	2.9		
	9400 HUAN	S	2017.4	2024.1	39.8	10.4	5		0
	2800 OTTA	40 F	2022.6	2022.7	1	11			
	1415 SGMR	3 S	2031.4	2031.8	1.1	18.8	5.6		CONT
	2800 OTTA	40 F	2031.8	2031.8	1.5	46			
	1420 BOUL	3 S	2031 E	2131.5	1.50	17	6		
	2695 SGMR	3 S	2032.1	2032.6	2.1	37.4	11.2		CONT
	2695 BOUL	45 C	2032 E	2032.5	1.50	42	14		
	2800 OTTA	26 FAL	2100	2140	40	-3.2	-1.6		
	9400 HUAN	S	2123.9	2129.5	15.1	19	8.9		R
	2800 OTTA	20 GRF	2126	2130	13	1.8	1		
	2695 PENT	20 GRF	2223	2235	35	3			
18	5730 IRKU	1 S	0209.6	0210.3	2	16	4		R
	5730 IRKU	45 C	0335	0336.7	10	9	5		R
	5730 IRKU		0335	0337.9		14			R
	5730 IRKU	2 S	0355	0356.2	2	45	14		R

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{22} W_m^{-2} Hz^{-1}$ PEAK	MEAN		
18	5730 IRKU	29 PBI	0357		25	14	5		R
	606 MANI	4 S/F	0448.4	0449.7	3.7	14.1	4.7		
	1415 MANI	4 S/F	0448.4	0450.7	3	19.3	6.4		
	2695 MANI	4 S/F	0448.4	0449	5	52.8	17.6		I
	100 GORK	44 NS	0527	E	428	E	200		
	200 GORK	44 NS	0527	E	423	E	40		
	127 TORN	44 NS	0640	E	0942	D	560	270	VI
	221 ABST	44 NS	0700		120		14		
	202 IZMI	44 NS	0700		300		100		
	260 ONDR	44 NS	0740	E	438	D	142	30	
	536 ONDR	43 NS	0750		370		91	8	
	245 SGHR	44 NS	1141	E	1548.2	0	570		CONT
	606 SGHR	44 NS	1141	E	2027.1	0	633	0	CONT
	410 SGHR	44 NS	1141	E	1214.2	0	633	0	CONT
	1415 SGHR	44 NS	1141	E	1815.9	0	633	0	CONT
	100 HIRA	44 NS	2130	E	2230	0	650	430	SL
	200 HIRA	44 NS	2130	E	0245	0	400	170	ML
	6100 KISV	32 ABS	0620		0633		17	4	
	2950 GORK	21 GRF	0635.1		0638.1		65	13	
	9100 GORK	21 GRF	0636		0648.9		59	90	
	5730 IRKU	45 C	0636		0642.5		16	196	R
	5730 IRKU		0636		0645.8			344	R
	5730 IRKU		0636		0645.2			336	R
	3100 CRIM	3 S	0636		0646	40	20	7	
	2695 MANI	4 S/F	0637.7		0645.6	12.3	173.6	115.8	
	6100 KISV	40 F	0637		0642.3		7	111	
	8000 MANI	47 GB	0638.2		0645.8	12.3	670	266	I, SCNA
	2695 ATHN	14 C	0638.2		0645.1	39.3	234	70.2	
	4995 ATHN	15 GB	0638.4		0645.2	39.1	501.6	150.5	
	8800 ATHN	15 GB	0638.5		0645.8	39	716.5	214.9	
	2950 GORK	48 C	0638.5		0640	11.2	150	150	
	2950 GORK		0638.5		0648.1			237	
	9100 GORK		0638.7		0645.7			450	
	9100 GORK	46 C	0638.7		0640.2	10.1		296	
	650 GORK	21 GRF	0639.2		0639.2	17.8			
	1415 ATHN	2 GRF	0639.2		0644.1	11.2	126.4	75.9	
	1415 MANI	4 S/F	0639.3		0646	10.5	56	37.3	
	606 MANI	41 F	0639.3		0640.9	9	409.8	32	
	950 GORK		0639.4		0645.9			43	
	950 GORK	45 C	0639.4		0643.4	9	21		
	15000 KISV	40 F	0639		0643	5	132		
	650 GORK	4 SF	0640		0640.7	1.5	80	20	
	113 POTS	49 GB	0640		0648.8	19	5500	1400	
	35000 NAGO	5 S	0641		0647	23	95		
	127 TORN	49 GB	0643.2		0647.4	13.5	2700	U 370	SUNRISE
	6100 KISV	29 PBI	0643.5		0647.2	33	95		
	6100 KISV		0643.5		0645.3			220	
	6100 KISV	45 C	0643.5		0645.7	4	235		
	15000 KISV	29 PBI	0643.5		0652	33	106		
	15000 KISV		0643.5		0645.3			290	
	15000 KISV	45 C	0643.5		0645.7	12	387		
	100 HIRA	48 C	0643		0649	14	38000	9999	0
	100 GORK		0644		0649.2U		17000	D	
	100 GORK	46 C	0644		0645	10	1700		
	650 GORK	3 S	0644.1		0645.8	3.8	16	8	
	200 GORK		0644.2		0645	U	980	D	
	200 GORK	46 C	0644.2		0644.4U	4.4	980	D	
	5730 IRKU	1 S	0656.3		0657.1	4	14	5	R
	6100 KISV	4 S/F	0656.5		0657	2	6		
	9100 GORK	1 S	0656.7		0657	1.4	10.5	5	
	6100 KISV	1 S	0706.5		0706.7	1	3		
	650 GORK	20 GRF	0707.5		0718	18.3	6	3	
	10400 BERN	2 S/F	0804.9		0810.3	8	7	19	
	8400 BERN	2 S/F	0804.9		0810.3	8	7	19	
	10400 BERN	2	0804.9		0810.4	8	19		
	8400 BERN	2	0804.9		0810.4	8	19		5R
	9100 GORK	20 GRF	0806.4		0810.4	16.9	18.5	3	
	9100 ARCE	22 GRF	0807.1		0810.7	11.4			
	9500 BERL	29 PBI	0810		0810.5	3	15		
	15000 KISV	4 S/F	0810		0811	2	33		
	6100 KISV	4 S/F	0810		0810.5	3	2		
	10715 DHIN	1 S	0810		0811	3	10	5	
	202 IZMI	4 S/F	0829.8		0830	1	400	200	
	234 POTS	41 F	0834.8		0835	.9	420	4	
	200 GORK		0834.8		0839.7		900		
	200 GORK	46 C	0834.8		0836.4	9.8	900	D	
	6100 KISV	32 ABS	0848		0857	12	3		
	100 GORK		0852		0853.4		2300	D	
	100 GORK	45 C	0852		0853.2	2.5	2300	D	
	9100 GORK	1 S	0859.2		0900	2.2	5	2	
	6100 KISV	32 ABS	0900.2		0921	32	3		
	9100 GORK	20 GRF	0931.5		0936	23	8.5	4.5	
	100 GORK	4 SF	0945		0945.4	1.5	2500		
	6100 KISV	8 S	1009		1009.3	1	3		
	100 GORK	8 S	1015.9		1016	.6	2500		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME		DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	TIME OF MAXIMUM		PEAK	MEAN		
18	234 POTS	8 S	1055.8	1056.4	.8	350	120		
	6100 KISV	20 GRF	1110	1134	42	7			
	6100 KISV		1110	1128		7			
	6100 KISV		1110	1116		4			
	8400 BERN	21	1114	1241.5	202	19			
	10400 BERN	21	1114	1306.1	202	20			
	10400 BERN	21	1114	1241.5	202	27			
	10400 BERN	21	1114	1216.4	202	28			
	10400 BERN	21 GRF	1114	1216.4	202	10	28		
	8400 BERN	21 GRF	1114	1216.4	202	15	40		
	10400 BERN	21 GRF	1114	1422.2	202	6	18		
	8400 BERN	21 GRF	1114	1424	202	6	16		
	10400 BERN	21 GRF	1114	1306.1	202	7	20		
	8400 BERN	23 GRF	1114	1306.1	202	9	25		
	10400 BERN	21 GRF	1114	1241.4	202	9	27		
	8400 BERN	21 GRF	1114	1241.4	202	7	19		
	10400 BERN	21	1114	1422.3	202	18			
	8400 BERN	21	1114	1424	202	16			
	8400 BERN	23	1114	1306.1	202	25		24R	
	8400 BERN	21	1114	1216.4	202	40		34R	
	9500 BERL	20 GRF	1115	1216.5	155	38			
	200 GORK	24 R	1121	1155.6	75	600			
	9100 GORK	20 GRF	1122.3	1134	44	11			
	234 POTS	42 SER	1123.6	1133	9.9	560	1		
	930 BORD	42 SER	1132	1138.2	7	43	2		
	650 GORK	21 GRF	1135.6		58				
	4995 ATHN	2 GRF	1148.3	1215.5	124.3	36.7	22		
	8800 ATHN	2 GRF	1148.5	1215.5	125.3	47.3	28.4		
	950 GORK		1149.2	1232.2		270			
	950 GORK	41	1149.2	1221.1		80			
	950 GORK		1149.2	1214.3		100			
	950 GORK		1149.2	1200.8		48			
	950 GORK	41 F	1149.2	1155.1		14			
	950 GORK	23 GRF	1149.2	1206	44.5	13.5			
	2695 ATHN	4 S/F	1149.4	1215.3	123.5	90.2	27.1		
	1470 BERL	46 C	1150	1215	48	129			
	1415 ATHN	14 C	1154.1	1214.7	42.9	149.4	44.8		
	650 GORK	40 F	1154.7	1155	4	12			
	930 BORD	46 C	1154	1232.2	40	269	25		
	808 ONDR	41 F	1155	1232	39	232	32		
	650 GORK		1159.6	1200.8		52			
	650 GORK	46 C	1159.6	1200.1	2.1	22			
	650 GORK		1159.6	1201.5		47			
	3000 BERL	45 C	1208	1215.2	28	53			
	2695 SGMR	45 C	1209	1215.7	28.8	130	39		
	2695 SGMR	45 C	1209	1231.8		70.9		CONT	
	4995 SGMR	4 S	1210.6	1215.7	26.9	50.7	15.3	CONT	
	1415 SGMR	45 C	1211.5	1214.7	24.6	175	52.5	CONT	
	1415 SGMR	45 C	1211.5	1231.8		159		CONT	
	8800 SGMR	2 S	1212.4	1216.2	25.6	30.4	12.2	CONT	
	2650 DHIN	45 C	1212	1215	21	80	30		
	606 SGMR	45 C	1213	1232.1		136		CONT	
	650 GORK	48 C	1213	1214.7	4.5	50			
	650 GORK		1213	1217.6		37			
	650 GORK		1213	1215.4		22			
	606 SGMR	45 C	1213	1214.6	20.5	104	40.8	CONT	
	10715 DHIN	2 S/F	1213	1215	10	20	10		
	9400 HUAN	S	1217.1E	1217.3U	6.2	24.3	10.1	R	
	9400 HUAN	S	1217.1E	1322.6	135	41	20.4	R	
	650 GORK		1218	1229.2		47			
	650 GORK	40 F	1218	1222.5	12	27			
	650 GORK	4 SF	1230.2	1232	3.2	109	50		
	33 UPIC	45 C	1230.6	1231	2.7				
	29 UPIC	45 C	1232	1233.3U	1.6				
	15400 SGMR	3 S	1239.2	1241.4	4.5	52.8	15.8	CONT	
	9400 HUAN	S	1240.8	1241.5	1.7	25.8	12.9	R	
	10715 DHIN	1 S	1241	1242	4	25	10		
	9400 HUAN	S	1304.3	1306	3.5	16.7	11.5	R	
	7000 SAOP	45 C	1304.4	1306.2	36	32.5		46R	
	9400 HUAN	S	1309.3	1311	3.5	13.7	9.6	R	
	2800 OTTA	20 GRF	1310	1325	40	7	3.5		
	234 POTS	42 SER	1353.1	1356.6	4.3	350	1		
	9400 HUAN	S	1357.3	1357.8	1.3	7.6	4.6	R	
	7000 SAOP	1 S	1402.3	1404.9		6.5		91R	
	7000 SAOP	3 S	1409	1409.6	1.2	11		67R	
	7000 SAOP	1 S	1413	1413.8		8.5		47R	
	2800 OTTA	240 R	1435	1445	10	4.6	2.3		
	9400 HUAN	S	1459	1459.4	1	4.6	3		
	8400 BERN	1	1504	1505	2	9		10R	
	10400 BERN	1	1504	1505	2	6			
	10400 BERN	1 S	1504	1505	2	2	5		
	8400 BERN	1 S	1504	1505	2	3	9		
	7000 SAOP	1 S	1504.4	1505.2	.8	8.5		71R	
	2800 OTTA	1 S	1504.5	1505	1.5	2.4	1.2		
	9400 HUAN	S	1505.4	1506	1.3	6.1	5.3	0	

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY $10^{-22} W_m^{-2} Hz^{-1}$		INT	POLARIZATION OP REMARKS
			UT	UT	MINUTES	PEAK	MEAN		
18	7000 SAOP	4 S/F	1521	1540	28.4	42.5			12R
	9400 HUAN		1537.2	1539.8		47.1			
	9400 HUAN	C	1537.2	1539.1	3.6	48.6	29.6		R
	10400 BERN	45	1537.6	1539.2	40 D	33			
	10400 BERN	45 C	1537.6	1539.1	40 D	12	33		
	8400 BERN	45 C	1537.6	1539.1	40 D	15	39		
	8403 BERN	45	1537.6	1539.2	40 D	39			10R
	10715 DMIN	2 S/F	1538	1539	12 U	30	10		
	2800 OTTA	2 S/F	1538	1538.9	1.2	6	3.1		
	2800 OTTA	8 S	1539.5	1539.7	.3	4.6	2.3		
	9400 HUAN	PBI	1540.8	1540.8	37.2	25.8	16.1		R
	2800 OTTA	28 PRE	1616	1634.7	18.7	15.4	7		
	7000 SAOP	46 C	1618	1640.8		2368			1R
	4995 BOUL	28 PRE	1620	1637	20	105	35		
	2695 BOUL	28 PRE	1621.5E	1637	15 D	29	10		
	1415 SGMR	47 GB	1624	1637.4	70.4	1410	658		4,SWF
	1415 SGMR	47 GB	1624	1703.8		274			4,SWF
	1415 SGMR	47 GB	1624	1641.6		4710			4,SWF
	1415 SGMR	47 GB	1624	1710.1		154			4,SWF
	9400 HUAN	C	1624.5	1641.6	112	2799.8	478.7		R
	9400 HUAN		1624.5	1825.5	3.3	30.4	11.1		RLR
	8800 SGMR	47 GB	1628	1703.9		278			4,SWF
	8800 SGMR	47 GB	1628	1641.5		2350			4,SWF
	4995 SGMR	47 GB	1628	1636.4	74.6	351	158		4,SWF
	8800 SGMR	47 GB	1628	1709.9		324			4,SWF
	8800 SGMR	47 GB	1628	1636.5	72	705	333		4,SWF
	4995 SGMR	47 GB	1628	1709.8		685			4,SWF
	4995 SGMR	47 GB	1628	1704.3		676			4,SWF
	4995 SGMR	47 GB	1628	1641.6		1170			4,SWF
	15400 SGMR	47 GB	1632	1724.1		393			4,SWF
	15400 SGMR	47 GB	1632	1641.5		3440			4,SWF
	15400 SGMR	47 GB	1632	1636.6	62.8	1030	1070		4,SWF
	35000 SGMR	47 GB	1632	1641.7		794			4,SWF
	35000 SGMR	47 GB	1632	1636.7	48	238	243		4,SWF
	15400 SGMR	47 GB	1632	1710.4		312			4,SWF
	930 BORD	45 C	1632	1641.5	46 D	3472 U			
	606 SGMR	47 GB	1634.4	1714.9		3610			4,SWF
	606 SGMR	47 GB	1634.4	1703.3		765			4,SWF
	606 SGMR	47 GB	1634.4	1641.7		5320			4,SWF
	606 SGMR	47 GB	1634.4	1634.7	48.6	1600	437		4,SWF
	2800 OTTA	47 GB	1634.7	1641	12.3	1945	313		
	410 SGMR	49 GB	1634.7	1636.4	43.1	915	305		4,SWF
	410 SGMR	49 GB	1634.7	1704.8		1365			4,SWF
	410 SGMR	49 GB	1634.7	1641.8		1300			4,SWF
	2695 SGMR	47 GB	1634.9	1641.6		3000			4,SWF
	2695 SGMR	47 GB	1634.9	1710.4		185			4,SWF
	2695 SGMR	47 GB	1634.9	1637.3	66.7	900	688		4,SWF
	2695 SGMR	47 GB	1634.9	1704.4		363			4,SWF
	1420 BOUL	47 GB	1635 E	1641	8.50	2526	842		
	10715 DMIN	45 C	1635 O			400 D			
	2650 DMIN	45 C	1635 D			200 D			
	1420 BOUL	47 GB	1635 E	1637.5	3.50	517	172		
	245 SGMR	49 GB	1636	1704.8		780			4,SWF
	245 SGMR	49 GB	1636	1643.8		1159			4,SWF
	245 SGMR	49 GB	1636	1641.8		1065			4,SWF
	245 SGMR	49 GB	1636	1636.8	42	876	623		4,SWF
	2695 BOUL	47 GB	1637	1642	7	2979	993		
	4995 BOUL	47 GB	1640	1642	3.5	1144	381		
	1420 BOUL	29 PBI	1643.5	1643.5	65 J	94	31		
	4995 BOUL	29 PBI	1643.5	1643.5	80	186	62		
	2695 BOUL	29 PBI	1644	1644	67	163	54		
	2800 OTTA	30 PBI	1647	1647	150	69	22.2		
	1420 BOUL	45 C	1700	1703.5	5.5	175	58		
	2695 PENT	45 C	1701.5	1704.2	14.5	236	56		
	4995 BOUL	4 SF	1702.5E	1704	3.50	186	62		
	2695 BOUL	45 C	1702.5	1705	4	342	114		
	4995 BOUL	4 SF	1709.5E	1710.5	3 D	214	71		
	1420 BOUL	45 C	1709	1710.5	6.5	124	41		
	2695 BOUL	3 S	1710.5	1711	3	182	61		
	1420 BOUL	45 C	1815.5E	1816	1.50	234	78		
	9400 HUAN	S	1824.5	1826.1		18.2			
	2600 OTTA	1 S	1838	1840	4	2.4	1.2		
	1420 BOUL	47 GB	1854.5E	1855.5	21 D	3597	1199		
	2800 OTTA	40 F	1852	1857.6	7	6.7			
	410 SGMR	6 S	1854.6	1857.5	11.4	234	70		CONT
	410 SGMR	6 S	1854.6	1900.3		164			CONT
	245 SGMR	6 S	1855	1856.2	13	135	40		CONT
	1415 SGMR	47 S	1855	1857.4		3180			CONT
	1415 SGMR	47 GB	1855	1855.4	21.2	4640	1390		CONT
	606 SGMR	3 S	1857.6	1910.3	13.5	76	23		CONT
	606 SGMR	3 S	1857.6	1857.9		59			CONT
	1420 BOUL	47 GB	1857	1857.5	1.5	1912	637		
	2800 OTTA	1 S	1927	1929	4	3.2	1.6		
	9400 HUAN	S	1950.2	2016.3	63.1	68.4	35.1		R
	2800 OTTA	46F C	1950	1955.5	14	39	20.6		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION 'OR REMARKS
			UT	UT	MINUTES	10 ⁻²² Wm ⁻²	Hz ⁻¹		
	4995 BOUL	45 C	1951.5	1959	19	47	15		
	4995 SGMR	45 C	1952	1959.3		46			CONT, SWF
	4995 SGMR	45 C	1952	1954.7	12.8	54	16		CONT, SWF
	2695 SGMR	3 S	1952.3	1954.8	11.6	38	7		CONT, SWF
	9400 HUAN	3 S	1952.7	1954.6	5	132.2	51.6		R
	1415 SGMR	3 S	1953	1957	7.6	17	3		CONT, SWF
	8800 SGMR	3 S	1953.3	1954.7	8.2	103	31		CONT, SWF
	15400 SGMR	3 S	1954.3	1954.5	1.9	124	25		CONT, SWF
	2695 BOUL	21 GRF	1954 E	1957	13 0	36	12		
	9400 HUAN	S	1959	2000.5	4	15.2	10.2		R
	2800 OTTA	30 PBI	2004	2004	55	12	8		
	2695 PENT	2 S/F	2007	2008.2	9	7	3		
	9400 HUAN	S	2026.4	2027.1	1.4	51.7	19.3		R
	9400 HUAN	C	2113.7	2122	26.7	316.2	53.7		L
	245 SGMR	48 GB	2117	2119.5	3.3	719	144		CONT
	410 SGMR	7 S	2117	2119.3	3	354	70.8		CONT
	8800 SGMR	3 S	2121.3	2121.9	5.2	182	36		CONT
	15400 SGMR	47 GB	2121.4	2122	3.6	725	145		CONT
	35000 SGMR	3 S	2121.4	2122	2.6	118	23		CONT
	2695 PENT	21 GRF	2125		108	10			
	35000 NAGO	20 GRF	2135	2151	40	39			
	2695 PENT	1 S	2136	2137	7	3.2	1.7		
	4995 BOUL	45 C	2203.5	2206	8	97	32		
	9400 HUAN	C	2204.4	2206.8	41.6	273.6	66.5		R
	500 HIRA	46 C	2204	2210.5	9	200	60		SL
	2695 PENT	46F C	2205	2207	15	55	23		
	1420 BOUL	45 C	2206.5E	2211	7.50	84	28		
	2695 BOUL	45 C	2207 E	2211	7.50	58	19		
	4995 BOUL	29 PBI	2211.5	2211.5	17.5	31	10		
	35000 NAGO	21 GRF	2241	2249	37	18			
	1420 BOUL	42 SER	2308.5E	2311.5	5 0	23	8		
	1420 BOUL	3 S	2330.5E	2331	1.50	14	5		
19	35000 NAGO	20 GRF	0006	0620	30	11			
	100 GORK	44 NS	0528 E		458 E		15		
	200 GORK	44 NS	0530		510 E		15		
	221 ABST	44 NS	0600	0837.5	180	14			
	127 TORN	44 NS	0630 E	0935.3	510 J	370	80		V1
	202 IZHI	44 NS	0700		80	50			
	260 ONDR	44 NS	0910 E		320 D	34			
	410 SGMR	44 NS	1139 E	2150.6	637 D	36.7			
	245 SGMR	44 NS	1139 E	1724	637 D	78.3			
	100 HIRA	44 NS	2120 E	2320	670 D	500	130		SL
	200 HIRA	44 NS	2345 E	0310	525 D	45	25		ML
	650 GORK	4 SF	0602.4	0602.7	.8	25	5		
	950 GORK	2 SF	0614.1	0614.7	1	9			
	6100 KISV	8 S	0614.5	0614.7	1	2			
	200 GORK	24 R	0615	0620.5	13.7	127			
	650 GORK	4 SF	0706.6	0706.9	.5	73	15		
	200 GORK	4 SF	0706.9	0708.4	2	200			
	15000 KISV	8 S	0730	0730.5	1	5			
	930 BORD	8 S	0734	0734	.1	17	1		
	10400 BERN	3 S	0754	0758.3	10	6	17		
	8400 BERN	3 S	0754	0758.3	10	6	17		
	10400 BERN	3	0754.1	0758.4	10	17			
	8400 BERN	3	0754.1	0758.4	10	17			
	6100 KISV	20 GRF	0757	0759	8	1			
	15000 KISV	4 S/F	0757	0758	3	8			
	15000 KISV		0807	0809.3		11			
	15000 KISV	45 C	0807	0815.5	16	18			
	6100 KISV		0807	0814		5			
	6100 KISV	20 GRF	0807	0815.5	28	7			
	6100 KISV		0807	0831		3			
	8400 BERN	21	0811.5	0820.4	18	28			
	10400 BERN	21	0811.5	0820.4	18	22			
	10400 BERN	21 GRF	0811.5	0820.3	18	7	22		
	8400 BERN	21 GRF	0811.5	0820.3	18	10	28		
	9100 ARCE	22 GRF	0812.1	0820.7	38				
	9500 BERL	20 GRF	0812	0820.4	24	22			
	1470 BERL	20 GRF	0815	0830.8	34	7.6			
	650 GORK	3 S	0817.4	0818.8	3.6	3			
	3000 BERL	20 GRF	0819	0830.5	41	8.5			
	9100 GORK	21 GRF	0859.6	1036.9	152.3	48	15		
	200 GORK		0921.4	0936		238			
	200 GORK		0921.4	0930		100			
	200 GORK	41 F	0921.4	0924.6	15	190			
	9100 ARCE	23 GRF	0923.7	1019.8	99				
	100 GORK	41 F	0928.5	0929.2	15	2200			
	100 GORK		0928.5	0942.7		2200			
	100 GORK		0928.5	0933.4		1700			
	3000 BERL	20 GRF	0929	0944.7		8.5			
	9500 BERL	20 GRF	0931	0941	29	15			
	9100 ARCE	1 S	0938.6	0938.9	1				
	2950 GORK	21 GRF	0941		67				
	536 ONDR	2 S/F	0946.2	0946.2	.5	20			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
				UT	UT	MINUTES	$10^{-22} W_m^{-2}$ PEAK	Hz^{-1} MEAN		
19	3000	BERL	21 GRF	1001	1036	74	8.5			
	9500	BERL	21 GRF	1005	1019	85	25			
	10400	BERN	45 C	1007.2	1032.8	83	42	124		
	8400	BERN	45 C	1007.2	1032.8	83	35	95		
	10400	BERN	45 C	1007.3	1032.8	83	124			
	8400	BERN	45 C	1007.3	1032.8	83	95			4R
	1470	BERL	20 GRF	1015	1029	80	6.9			
	2950	GORK	3 S	1030.1	1030.3	.7	17	8		
	9500	BERL	29 PBI	1031.5	1032.6	18	139			
	9100	ARCE	3 S	1031.9	1033.1	2				
	3000	BERL	3 S	1032	1032.7	1.4	14			
	9100	GORK	4 SF	1032.5	1033.3	37	118	59		
	15000	KISV		1032	1035		83			
	15000	KISV	45 C	1032	1032.5	18	222			
	9100	ARCE	29 PBI	1033.9		17				
	10715	DWIN	4 S/F	1037	1038	33	110	20		
	9100	ARCE	3 S	1108.7	1109.2	4.4				
	10715	DWIN	3 S	1108	1109	7	20	5		
	9100	GORK	1 S	1109.3	1109.5	.9	13	6.5		
	6100	KISV	29 PBI	1131.3	1033.5	14	23			
	6100	KISV	8 S	1131.5	1033	2	39			
	9400	HUAN	S	1138.6	1139.2	1.6	9.5	7		0
	536	ONDR	8 S	1150	1150	.2	24			
	9400	HUAN	S	1207.2	1216.7	30.5	7.9	1.2		R
	7000	SAOP	3 S	1228	1220.8	.6	34			36R
	10400	BERN	3 S	1220.3	1220.8	9	58			
	10400	BERN	3 S	1220.3	1220.8	9	20	58		
	8400	BERN	3 S	1220.3	1220.8	9	27	73		
	8400	BERN	3 S	1220.3	1220.8	9	73			16R
	9500	BERL	41 F	1220.4	1220.7	6.1	47			
	9400	HUAN	8 S	1220.5	1220.8	.8	68.4	26		R
	3000	BERL	3 S	1220.7	1220.8	1.8	8.5			
	9100	ARCE	8 S	1220.8	1220.9	.6				
	9100	GORK		1220.9	1225.6		22			
	9100	GORK	46 C	1220.9	1221.3	6.2	93			
	10715	DWIN	2 S/F	1220	1221	5	50	5		
	2950	GORK	1 S	1221.3	1221.4	.9	14	7		
	9100	ARCE	29 PBI	1221.4		8.4				
	950	GORK	2 SF	1224.4	1224.7	.6	5.4			
	7000	SAOP	46 C	1224.4	1225	1.4	23.5			30R
	9400	HUAN	S	1224.5	1224.9	2.5	14.3	6.8		R
	650	GORK	4 SF	1234.1	1239.6	5.2	99			
	200	GORK	46 C	1234.7	1237.3	8.6	180	D		
	200	GORK		1234.7	1241.6		190			
	200	GORK		1234.7	1239.3		185	D		
	245	SGHR	7 S	1235.8	1236.4	5.7	416	83.2		3G
	260	ONDR	48 C	1235	1235.8	5	185	24		
	3000	BERL	1 S	1236	1236.4	1.5	6.3			
	1470	BERL	1 S	1236	1237	2	4.3			
	228	HARS	45 C	1236	1236.5	1.2	575	190		
	410	SGHR	48 GB	1236	1238.8	4.4	1340	268		3G
	234	POTS	41 F	1236.2	1237.1	2.6	500	10		
	2950	GORK	1 S	1236.7	1237	1.6	15	7.5		
	536	ONDR	46 C	1236	1238.5	4	65	3		
	606	SGHR	3 S	1237.1	1238.9	3.9	303	60.6		3G
	930	BORD	8 S	1237	1237	.2	17	2		
	9400	HUAN	S	1253.3	1325	56.2	6.4	2.9		R
	1470	BERL	40 F	1257	1308	4.5	12			
	9100	ARCE	21 GRF	1514.2	1532.6	54				
	10400	BERN	46	1515	1525.7	70	236			
	8400	BERN	46	1515	1525.7	70	227			4R
	10400	BERN	46 C	1515	1525.7	70	80	236		
	8400	BERN	46 C	1515	1525.7	70	86	227		
	10715	DWIN	45 C	1515	1526	30 U	200	40		
	2800	OTTA	23 GRF	1515	1522	90	19	7.6		
	7000	SAOP	46 C	1517	1525.8	25	265			11R
	2650	DWIN	45 C	1518	1526	30 U	60	20		
	2695	ATHN	2 GRF	1520.3	1526	10.5	66.5	39.9		
	8800	ATHN	4 S/F	1520.3	1525.8	14.3	254.4	76.3		
	4995	ATHN	3 S	1520.5	1526.2	9.1	92.8	27.8		
	4995	BOUL	28 PRE	1520	1522	4.5	24	8		
	4995	SGHR	3 S	1521	1526.4	15.5	123	49		3G, CONT, SWF
	8800	SGHR	3 S	1521	1526.4	15	307	123		3G, CONT, SWF
	2695	SGHR	3 S	1521	1527	15.5	57.4	23		3G, CONT, SWF
	606	SGHR	3 S	1521.6	1528	15.4	192	76.8		3G, CONT, SWF
	1415	SGHR	3 S	1521.6	1525.8	14.9	86.5	34.6		3G, CONT, SWF
	1415	ATHN	2 GRF	1521.8	1526.2	6.9	87.2	52.3		
	930	BORD	45 C	1521	1525.8	10	81	20		
	1420	BOUL	4 SF	1521 E	1521.5	1 D	27	9		
	15400	SGHR	3 S	1522	1526.6	14	253	101		3G, CONT, SWF
	35000	SGHR	3 S	1522	1526.6	14	75	30		3G, CONT, SWF
	2695	BOUL	28 PRE	1522 E	1525 U	4 D	21	7		
	410	SGHR	7 C	1523	1533.3	16	63.4	90.4		3G, CONT, SWF
	410	SGHR	7 C	1523	1535.1		226			3G, CONT, SWF
	245	SGHR	3 S	1523.1	1525.4	15.9	344	138		3G, CONT, SWF

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$	PEAK MEAN		
	4995 BOUL	45 C	1524.5	1525.5	4.5	83	28		
	1420 BCUL	45 C	1524.5E	1525.5	2.5D	60	20		
	9100 ARCE	4 S/F	1524.7	1525.9	9.2				
	2800 OTTA	4 S/F	1525	1525.8	6	41.8	15.4		
	2695 BCUL	3 S	1526	1527.5	2 D	65	22		
	1420 BOUL	29 PBI	1527	1527	10.5U	27	9		
	2695 BOUL	29 PBI	1528	1528	10 U	21	7		
	4995 BOUL	29 PBI	1529	1531.5	21	32	11		
	2800 OTTA	21 GRF	1557	1605	23	4.2	2.1		
	2800 OTTA	1 S	1602	1603	2.5	6.2	2.1		
	2800 OTTA	27A RF	1755		280	11	9.1		
	2800 OTTA	24 R	1755	1806.5	11.5	11	5		
	4995 SGMR	3 S	1757.6	1808.5	42.4	219	87.6		SWF
	2695 SGMR	3 S	1758	1809.1	42	130	52		SWF
	7000 SAOP	46 C	1758	1808.8	57.6	315			11R
	2800 OTTA	1 S	1758	1801.5	5	7.6	4		
	8800 SGMR	3 S	1759	1808.5	41	286	114		SWF
	4995 BOUL	45 C	1805	1808	10.5	117	39		
	15400 SGMR	3 S	1806	1809.3	34	157	62.8		SWF
	2800 OTTA	24P R	1806.5		183.5	11			
	1415 SGMR	3 S	1807.8	1808.8	32.2	11.4	4.6		SWF
	2800 OTTA	4 S/F	1807	1809	4	112	47.2		
	2695 BCUL	45 C	1808.5E	1810	3 D	106	35		
	4995 BOUL	29 PBI	1810.5	1813.5	67.5	58	19		
	2695 BOUL	29 PBI	1811.5	1815	43 U	43	14		
	2800 OTTA	29 PBI	1811	1811	80	35.6	19		
	9400 HUAN	S	1852.2E	1855 U	47.7	38.2	17.5		R
	9400 HUAN	S	1954.8	2020.2	100.2	14.3	6.6		0
	2695 PENT	1 S	2003	2006	7	3	1.5		
	2800 OTTA	26 FAL	2110	2235	85	-11	-5		
	2695 PENT	1 S	2148	2150	10	2.6	1.3		
	2695 PENT	40 F	2221	2225.5	8	6.6			
	9400 HUAN	S	2225	2225.3	1.5	31.8	14.1		R
	2695 PENT	40 F	2246	2246.5	11	7.8			
20	5730 IRKU	45 C	0238	0239.7	7	23	7		R
	5730 IRKU		0238	0240.6		18			R
	5730 IRKU	21 GRF	0451	0455	8	21	5		R
	180 GORK	44 NS	0530 E		423		5		
	200 GORK	44 NS	0536 E		534		5		
	127 TORN	44 NS	0640 E	1203.4	510 D	160	26		V2
	202 IZMI	44 NS	0700		300	90			
	260 ONDR	44 NS	0737 E		423 D	104	4		
	536 ONDR	43 NS	0752	1145.5	343	195			
	245 SGMR	44 NS	1138 E	1633.7	639 D	259			5,CONT
	410 SGMR	44 NS	1138 E	1320.9	639 D	67.4			5,CONT
	200 HIRA	44 NS	2120 E	0030	670 D	140	70		HL
	100 HIRA	44 NS	2120 E	2350	670 D	750	250		SL
	6100 KISV	45 C	0548	0555	22	13			
	6100 KISV		0548	0604		3			
	15000 KISV	4 S/F	0554	0555	2	14			
	9100 GORK	1 S	0555	0555.7	22	17	8		
	6100 KISV	24 R	0557	0557	62	6			
	221 ABST	45 C	0638	0638.5	2	61	28		
	200 GORK		0641.6	0642.6		60 D			
	200 GORK	46 C	0641.6	0642	2.2	60 D			
	113 POTS	4 S/F	0649.6	0649.9	.7	1400	250		
	6100 KISV	27 RF	0655	0745	75	5			
	200 GORK	8 S	0709.3	0709.5	.6	70 D			
	113 POTS	8 S	0730.2	0730.4	.8	4600	1500		
	100 GORK	8 S	0730.4	0730.6	.7	300 D			
	200 GORK	8 S	0730.8	0731.3	1.1	75			
	9100 GORK	20 GRF	0735.2	0745	33.9	11	3.5		
	650 GORK	1 S	0747.3	0747.5	.5	14	7		
	650 GORK	20 GRF	0747.3		13.7D				
	650 GORK	1 S	0752.7	0753	.4	7	3.5		
	1470 BERL	40 F	0758	0800.1	3.5	109			
	650 GORK	4 SF	0758.6	0800.7	2.5	35			
	950 GORK		0759.5	0801.3		3			
	950 GORK	46 C	0759.5	0800.3	1.3D	2.4			
	113 POTS	4 S/F	0759.8	0800	1.2	8800	350		
	29 UPIC	8 S	0800.1	0800.5	.5				
	200 GORK	8 S	0800.4	0800.8	.8	80 D			
	100 GORK	45 C	0800.6	0800.7	.6	280			
	100 GORK		0800.6	0800.8		350 D			
	33 UPIC	8 S	0800	0800.2	.6				
	15000 KISV	1 S	0835	0836	2	7			
	9100 GORK	1 S	0836.7	0836.9	1.7	5.5	2.5		
	650 GORK	1 S	0837.1	0837.5	.6	9	4		
	650 GORK	21 GRF	0837.1	0857	45.7	3.5	1.5		
	650 GORK	1 S	0844	0844.1	.3	9	4		
	10400 BERN	1 S	0849.5	0850.1	4	3	9		
	8400 BERN	1 S	0849.5	0850.1	4	4	11		
	8400 BERN	1	0849.5	0850.1	4	11			OPR
	10400 BERN	1	0849.5	0850.1	4	9			OPR

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME		DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	TIME OF MAXIMUM UT		$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ MEAN		
20	1470 BERL	4 S/F	0850.4	0851	3.6	16			
	2695 MANI	4 S/F	0850.4	0851.1	2.5	18	6		I
	9500 BERL	3 S	0850.5	0851.2	1.7	11			
	15000 KISV	2 S/F	0850.5	0851	3	10			
	1450 MANI	2 S/F	0850.5	0851.3	4.4	7.5	2.5		
	2695 ATHN	3 S	0850.6	0851.2	3.4	19.9	5.9		
	4995 ATHN	3 S	0850.6	0851.2	1.7	17.3	5.2		
	606 MANI	4 S/F	0850.6	0850.9	1.4	15.5	6		
	1415 ATHN	3 S	0850.7	0851.2	3.6	21.4	6.4		
	3000 BERL	8 S	0850.7	0850.9	.8	34			
	127 TORN	47 GB	0850.8	0851	1.1	3400	1700		
	8800 ATHN	3 S	0850.8	0851.2	1.9	16.5	4.9		
	6100 KISV	4 S/F	0850	0851	3	9			
	202 IZMI	5 S	0851	0851.5	.8	230	100		
	221 ABST	45 C	0851	0851.5	2	47	19		
	113 POTS	3 S	0851	0851.3	2.4	35000	7000		
	100 GORK			0851	0835.80U		200 D		
	100 GORK	41 F		0851	0851.80U	5.8	200 D		
	950 GORK	1 S		0851.5	0852	2.1	22		
	9100 GORK	1 S		0851.5	0852	2	17	8	
	650 GORK	2 SF		0851.6	0851.9	1	7	3	
	200 GORK			0851.6	0853		80		
	200 GORK	8 S		0851.6	0852	2	85 D		
	2950 GORK	3 S		0851.7	0852	.9	77	38	
	2650 DWIN	1 S		0851	0851.5	1	20	5	
	10715 DWIN	1 S		0851	0851.5	1	10	5	
	950 GORK	2 SF		0859.1	0859.5	2	7		
	650 GORK	1 S		0910.6	0911	1	5	2.5	
	9500 BERL	22 GRF		0925	0929.8	10	9.8		
	9100 GORK	1 S		0930.3	0930.6	1.6	7.5	3	
	950 GORK	1 S		0931.7	0931.9	.4	1		
	100 GORK	45		0932.3	0934 U	6.3	220 D		
	100 GORK			0932.3	0936.50U		220 D		
	127 TORN	45 C		0934.8	0935.4	3	440	100	
	113 POTS	45 C		0936.2	0937.3	3.8	700	140	
	9100 GORK	21 GRF		0947.8	1130	125	12	4.5	
	9500 BERL	22 GRF		1001	1016.2	19	15		
	1470 BERL	20 GRF		1008	1014	16	3.5		
	33 UPIC	42 SER		1009.2		142.9			
	29 UPIC	42 SER		1009.3	1013.5	143.6			
	3000 BERL	20 GRF		1009	1016	18	5.6		
	113 POTS	4 S/F		1012.6	1012.8	1.4	35000	8000	
	930 BORD	8 S		1012	1012	.1	53	1	
	100 GORK	8 S		1013	1013.2	.9	230 D		
	200 GORK	8 S		1013.1	1013.9	.7	80		
	9100 GORK	1 S		1016.6	1017.2	1	9	4.5	
	15000 KISV	2 S/F		1016	1016.8	2	10		
	808 ONDR	42 SER		1036	1145.8	71	60		
	9100 ARCE	21 GRF		1041.7	1048.6	19.5			
	10400 BERN	46		1042.3	1054.1	23	43		
	8400 BERN	46		1042.3	1054.1	23	46		
	10400 BERN	46 C		1042.3	1054.1	23	15	43	
	8400 BERN	46 C		1042.3	1054.1	23	17	46	
	10715 DWIN	42 SER		1042	1049	15	40	10	
	9100 GORK	1 S		1043.2	1045	3	12	6	
	2950 GORK	21 GRF		1045 E		100			
	9100 GORK	1 S		1048.5	1049.3	2	11	5.5	
	2950 GORK	1 S		1049.3	1049.4	.4	9.7	4.8	
	113 POTS	41 F		1049.5	1053.7	5.5	1400	100	
	100 GORK	45 C		1053.5	1054 U	1.9	230 D		
	100 GORK			1053.5	1064.7		230 D		
	7000 SAOP	46 C		1053.8	1054.2	1.2	39		
	9500 BERL	4 S/F		1053.8	1054	2.8	39		
	3000 BERL	3 S		1053.8	1054	2.7	29		
	9500 BERL			1053.8	1054.5		39		
	1470 BERL	4 S/F		1054	1054.4	2	39		
	3100 CRIM	1 S		1054	1054.5	2	14	5	
	200 GORK	8 S		1054.4	1055	1.4	77		
	650 GORK	4 SF		1054.7	1055.1	2.2	15.5	4	
	950 GORK	4 SF		1054.7	1055.3	1	63		
	2950 GORK	3 S		1054.8	1055.1	1.4	46	23	
	9100 GORK	46 C		1054.9	1055.6	2.3	5.1		
	9100 GORK			1054.9	1056.7		36		
	2650 DWIN	4 S/F		1054	1054.5	2	60	10	
	9100 ARCE	45 C		1054	1054.9	2			
	9100 ARCE			1054	1054.9	1.6			
	930 BORD	41 F		1054	1055.4	2	168	3	
	15000 KISV			1054	1056		57		
	15000 KISV	45 C		1054	1054.7	3	64		
	7000 SAOP	4 S/F		1055.5	1056	.8	26		
	9100 ARCE			1055.6	1056	3.6			
	6100 KISV			1055	1055.7		11		
	6100 KISV			1055	1054.5		14		
	6100 KISV	42 SER		1055	1054.3	5	14		
	930 BORD	8 S		1059	1059	.1	16	2	

RECORD DISTURBE
11R

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	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		
20	930 BORD	41 F	1114.8	1105.5	.8	44	2		
	8800 ATHN	3 S	1119.8	1123.6	11	44.2	13.3		
	4995 ATHN	3 S	1121	1123.7	12.6	47.5	14.3		
	10400 BERN	1 S	1123	1124.2	14	25			
	8400 BERN	1 S	1123	1124.2	14	35			17R
	10400 BERN	1 S	1123	1124.2	14	8	25		
	8400 BERN	1 S	1123	1124.2	14	13	35		
	7000 SAOP	3 S	1123.2	1124.2	1.4	49			
	2695 ATHN	3 S	1123.4	1123.7	1.3	23	6.9		
	1415 ATHN	2 GRF	1123.4	1123.7	1.8	10.5	6.3		
	6100 KISV	8 S	1123.5	1124.3	7	19			
	3000 BERL	29 PBI	1123.5	1124	6.5	29			
	9500 BERL	29 PBI	1123.5	1124	9.5	27			
	1470 BERL	3 S	1123.5	1124.3	2.5	6.4			
	9100 ARCE	4 S/F	1123.6	1124.4	2.5				
	15000 KISV	8 S	1123	1124.3	10	26			
	9100 GORK	3 S	1124.6	1125.1	1.8	34	17		
	950 GORK	3 S	1124.8	1125.2	1.2	15.5	7		
	2950 GORK	3 S	1124.9	1125.3	1.6	60	30		
	930 BORD	45 C	1124	1124.4	.8	42	2		
	2650 DWIN	2 S/F	1124	1124.5	1	25	10		
	10715 DWIN	2 S/F	1124	1124.5	2	25	10		
	7000 SAOP	1 S	1128	1129.2		6.5			
	202 IZMI	41 F	1128.5	1129	1.2	470			
	200 GORK	8 S	1128.8	1129.5	1.1	80			
	200 GORK		1136	1143.1		77			
	200 GORK	41 F	1136	1139	16.8	70			
	200 GORK		1136	1146.8		80			
	200 GORK	8	1138	1151.9		280			
	2695 ATHN	4 S/F	1144.8	1145.2	1.7	127.9	38.4		
	4995 ATHN	4 S/F	1144.8	1145.2	4.5	69.1	20.7		
	8800 ATHN	4 S/F	1144.9	1145.2	4.4	60.3	18.1		
	1415 ATHN	3 S	1145	1145.3	.7	10.5	3.1		
	9500 BERL	41 F	1145	1145.9	5	40			
	228 HARS	45 C	1145.2	1145.5	1.5	150	50		
	10400 BERN	2 S/F	1145.3	1145.9	18	12	34		
	8400 BERN	2 S/F	1145.3	1145.9	18	19	51		
	100 GORK	8 S	1145.3	1146 U	1.2	240 D			
	8400 BERN	2	1145.3	1146	18	51			21R
	10400 BERN	2	1145.3	1146	18	34			
	7000 SAOP	4 S/F	1145.4	1145.9	.8	80			56R
	260 ONDR	8 S	1145.5	1145.5	1	185			
	1470 BERL	3 S	1145.5	1145.8	2	18			
	3000 BERL	3 S	1145.5	1145.5	2	129			
	113 POTS	4 S/F	1145.5	1145.7	1	42000	2000		
	234 POTS	8 S	1145.5	1145.6	.5	200	20		
	127 TORN	47 GB	1145.6	1145.8	1	2000	700		
	9100 ARCE	3 S	1145.6	1146	1.2				
	930 BORD	41 F	1145	1147	2	131	4		
	2650 DWIN	4 S/F	1145	1146	2	100 D			
	10715 DWIN	45 C	1145	1146	5	30	5		
	6100 KISV		1145	1149		4			
	6100 KISV	45 C	1145	1145.7	5	41			
	15000 KISV	45 C	1145	1146	6	23			
	15000 KISV		1145	1149		6			
	950 GORK	3 S	1146	1146.5	1.2	25	12		
	2950 GORK	3 S	1146.4	1146.7	1.3	230	115		
	9100 GORK		1146.4	1148.8		11			
	9100 GORK	46 C	1146.4	1146.7	5.4	54			
	650 GORK	4 SF	1146.4	1146.6	.5	94	47		
	650 GORK	29 PBI	1146.4	1147	3.4	2.6			
	7000 SAOP	3 S	1148	1149	1.6	13			62R
	4995 ATHN	3 S	1228.3	1232.1	5.2	19.4	5.8		
	10400 BERN	2 S/F	1228.4	1232.6	12	11	31		
	8400 BERN	2 S/F	1228.4	1232.6	12	14	37		
	10400 BERN	2	1228.5	1232.6	12	31			
	8400 BERN	2	1228.5	1232.6	12	37			15R
	9500 BERL	28 PRE	1228.5	1232.5	6.5	32			
	3000 BERL	2 S/F	1229	1230.5	2.5	7.9			
	200 GORK		1229	1230.3		250			
	200 GORK	41 F	1229	1229.2	2	100			
	7000 SAOP	45 C	1229	1232.7	6.4	35			29R
	9400 HUAN	3 S	1229	1229.3	10.3	10.3	5.4		R
	2695 ATHN	3 S	1229.8	1230.1	.9	6.6	2		
	113 POTS	46 C	1229.9	1230.7	1.3	40000	200		
	127 TORN	47 GB	1229.9	1230.6	1.5	670	100		
	10715 DWIN	45 C	1229	1233	6	30	10		
	930 BORD	8 S	1229	1229.3	.4	37	1		
	808 ONDR	42 SER	1229	1326.8	68	60			
	100 GORK	4 SF	1230		1.6	240 D			
	8800 ATHN	3 S	1231.3	1232	3.3	36.2	10.9		
	9400 HUAN	S	1232.1	1232.7	5.2	29.3	11		R
	9100 ARCE	3 S	1232.3	1232.9	2.6				
	930 BORD	8 S	1232.4	1232.5	.1	21	1		
	9500 BERL	22 GRF	1256.5	1256.8	17	6.6			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME		DURATION	FLUX DENSITY		INT	POLARIZATION OF REMARKS
			UT	UT		$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$	PEAK MEAN		
20	3000 BERL	41 F	1316	1326.8	14	32			
	9400 HUAN	S	1316.3	1317.2	1.5	8.6	7.6		R
	1470 BERL	41 F	1316.5	1327	14	13			
	8400 BERN	41	1316.6	1320.9	19	21			5R
	8400 BERN	41	1316.6	1317.1	19	15			6R
	8400 BERN	41	1316.6	1327.1	19	28			17R
	10400 BERN	41	1316.6	1320.9	19	14			
	7000 SAOP	3 S	1316.6	1317.1	.9	21			33R
	10400 BERN	41 F	1316.6	1317.1	19	4	11		
	8400 BERN	41 F	1316.6	1317.1	19	6	15		
	10400 BERN	41 F	1316.6	1327	19	7	18		
	8400 BERN	41 F	1316.6	1327	19	10	28		
	10400 BERN	41 F	1316.6	1320.9	19	5	14		
	8400 BERN	41 F	1316.6	1320.9	19	8	21		
	10400 BERN	41	1316.6	1317.1	19	11			
	10400 BERN	41	1316.6	1327.1	19	18			
	930 BORD	41 F	1316.8	1317.2	.9	23	3		
	9500 BERL	41 F	1317	1327	13	19			
	113 POTS	4 S/F	1317.2	1317.3	.3	500	70		
	2800 OTTA	1 S	1317	1317.1	1	4.8	2.4		
	10715 DWIN	42 SER	1317	1327	13	20	10		
	9400 HUAN	S	1320	1321	1.5	12	6		R
	7000 SAOP	3 S	1320.4	1321	.6	17			41R
	2800 OTTA	1 S	1320.7	1321	1	4.8	2		
	9400 HUAN	S	1325.6	1327.2	4.8	22.4	8.4		R
	7000 SAOP	3 S	1326	1327.2	2	28.5			49R
	930 BORD	41 F	1326.5	1326.8	1.5	19	2		
	4995 SGHR	3 S	1326.7	1327	3.1	24.6	9.8		
	15400 SGHR	3 S	1326.8	1327	2.1	19.4	7.8		
	8800 SGHR	1 S	1326.9	1327.8	1.7	8.5	3.4		
	1415 SGHR	3 S	1326.9	1327.4	3	16.4	6.6		
	2695 SGHR	3 S	1327.1	1327.4	2	39.6	15.8		
	2650 DWIN	3 S	1327	1327	2	45	10		
	2800 OTTA	3 S	1327	1327.3	2.5	38	9.6		
	10400 BERN	1 S	1347.8	1348.4	9	6	18		
	8400 BERN	1 S	1347.8	1348.4	9	8	20		
	10400 BERN	1	1347.9	1348.4	9	18			
	8400 BERN	1	1347.9	1348.4	9	20			10R
	9500 BERL	3 S	1348	1348.4	3	13			
	7000 SAOP	3 S	1348	1348.5	4.2	15.5			13R
	9400 HUAN	S	1348.1	1348.6	1.5	18.9	11.8		R
	7000 SAOP	3 S	1354.2	1355.2	10	18			52R
	9400 HUAN	S	1354.7	1420.8	46.7	20.7	9.3		R
	8800 ATHN	4 S/F	1408.9	1416.2	11.3	88.4	26.5		
	4995 ATHN	3 S	1409.2	1416.2	13	47.5	14.3		
	10400 BERN	46	1411.1	1416	49	64			
	10400 BERN	46 C	1411.1	1415.9	49	22	64		
	8400 BERN	46 C	1411.1	1415.9	49	28	79		
	8400 BERN	46	1411.1	1416	49	79			9R
	7000 SAOP	46 C	1411.4	1416	16.6	109			23R
	4995 SGHR	3 S	1411.5	1416	8.5	80	24		
	9500 BERL	4 S/F	1411.5	1415.9	8.5	79			
	9400 HUAN	C	1412.1	1416	7.5	86.1	38.9		R
	8800 SGHR	3 S	1412.2	1415.7	7	94	28		
	3000 BERL	3 S	1412.5	1415.7	11	41			
	10715 DWIN	42 SER	1412	1416	35	60	20		
	2650 DWIN	2 S/F	1413	1416	7	40	15		
	2695 ATHN	2 GRF	1414.4	1416.2	4	29.5	17.7		
	2695 SGHR	3 S	1414.8	1416.5	5	43	13		
	1470 BERL	3 S	1415	1416	3	5.9			
	15400 SGHR	3 S	1415	1415.8	2.5	34	10		
	2800 OTTA	20 GRF	1420	1503	80 D	7.2			
	9400 HUAN	S	1426.5	1428	8.3	25.8	10.3		R
	9500 BERL	3 S	1426.5	1427.2	3.5	37			
	2800 OTTA	240 R	1603	1610	7	3.6	1.8		
	10400 BERN	1	1610	1614.3	12	25			
	8400 BERN	1	1610	1614.3	12	40			16R
	10400 BERN	1 S	1610	1614.3	12	9	25		
	8400 BERN	1 S	1610	1614.3	12	15	40		
	4995 SGHR	3 S	1610.5	1614.4	18.5	57.4	23		
	1415 SGHR	3 S	1611.1	1615.6	17.9	17.8	7.1		
	4995 BOUL	3 S	1612.5	1613.5	7	48	16		
	2695 SGHR	3 S	1613.3	1614.9	15.7	72	28.8		
	9400 HUAN	S	1613.4	1614.5	4.4	31	17.4		R
	15400 SGHR	3 S	1613.4	1614.2	15.6	20.6	8.2		
	8800 SGHR	3 S	1613.5	1614.5	15.5	28.1	11.2		
	2800 OTTA	3 S	1613	1614.5	5	59	26.6		
	10715 DWIN	1 S	1613	1614	4	15	10		
	2650 DWIN	3 S	1613	1614	5	50	30		
	930 BORD	46 C	1614.4	1615.7	2.6	95	3		
	2695 BOUL	3 S	1614 E	1615.5	3.50	76	25		
	2695 BOUL	29 PBI	1617.5	1617.5	41 U	29	10		
	2800 OTTA	30 PBI	1618	1618	50	11.8			
	7000 SAOP	46 C	1646	1648.7	5.5	167			27R
	1420 BOUL	47 GB	1646.5E	1649	3 D	713	238		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
	2800 OTTA	46F C	1646.5	1648.5	8	96	24		
	1415 SGMR	47 GB	1646.8	1648.8	7.2	2010	804		5
	9400 HUAN		1646.8	1648.6		177.4			R
	9400 HUAN	C	1646.8	1647.1	6.5	93	51.1		R
	4995 BOUL	45 C	1646	1648.5	6.5	121	40		
	930 BORD	46 C	1646	1647.1	4	473	20		
	245 SGMR	48 GB	1647	1647.1	7	680	272		5
	410 SGMR	6 S	1647.1	1647.4	6.9	28.1	11.2		5
	2695 BOUL	45 C	1647.5	1648.5	2.50	109	36		
	930 BORD	41 F	1651.8	1652.1	.5	22	2		
	7000 SAOP	3 S	1713	1714.6	17.6	37			47R
	2800 OTTA	21 GRF	1720	1820	420 D	68			
	7000 SAOP	4 S/F	1732	1849.2	2.2	26.5			26R
	7000 SAOP	21 GRF	1732		101.6	74			15R
	9400 HUAN	S	1734.7	1826	136.5	68.9	40.1		R
	1420 BOUL	28 PRE	1735.5E	1755	29.50	37	12		
	2695 BOUL	28 PRE	1736 E	1756.5	20.50	44	15		
	4995 BOUL	46 F	1740	1849 U	100	68	23		
	1415 SGMR	47 GB	1743	1806.2	105	277	190		5
	1415 SGMR	47 GB	1743	1847.9		855			5
	4995 SGMR	3 S	1744	1806.2	104	31	9		5
	2695 SGMR	47 S	1748	1805	100	162	49		5
	245 SGMR	7 C	1752	1851.8		460			5
	245 SGMR	7 C	1752	1802.7	96	220	140		5
	410 SGMR	7 C	1754	1806.1	94	153	46		5
	410 SGMR	7 C	1754	1911		30			5
	8800 SGMR	3 S	1755.8	1811.4	92.2	50	15		5
	1420 BOUL	40 F	1755	1806	14	243	81		
	2800 OTTA	4 S/F	1755	1804.6	23	95	45		
	15400 SGMR	3 S	1756	1823.4	92	36	14		5
	2695 BOUL	40 F	1756.5	1806	19	172	57		
	1420 BOUL	29 PBI	1809	1812.5	7	56	19		
	2695 BOUL	29 PBI	1816	1816	35 U	76	25		
	9400 HUAN	S	1847.9	1849.2	2	15.5	10.3		R
	2800 OTTA	4 S/F	1848.5	1849	2	15.2	7.6		
	1420 BOUL	45 C	1848 E	1848.5	2 D	443	148		
	1420 BOUL	4 SF	1934.5E	1935	1 D	23	8		
	2800 OTTA	1 S	1935	1935.6	2	2.4	.8		
	7000 SAOP	46 C	1956.6	2010.2	20	26.5			45R
	9400 HUAN	S	2000.3	2010	17.9	18.9	5.5		R
	1420 BOUL	4 SF	2001.5E	2002	1 D	46	15		
	2695 PENT	40 F	2001	2010	11	2.2			
	1420 BOUL	4 SF	2007	2007.5	1 D	17	6		
	2800 OTTA	1 S	2104	2104.7	1.2	2.6	1.3		
	2800 OTTA	21 GRF	2115	2230	165	21	12.8		
	9400 HUAN	C	2117.8	2129.8	19.3	79.2	28.5		R
	2695 PENT	1 S	2117	2118	2	2.6	1.3		
	4995 BOUL	46 F	2127.5	2207 U	107.5	184	61		
	8800 SGMR	3 S	2128	2129.7	9.3	87	34.8		5
	4995 SGMR	3 S	2128.4	2129.7	10.8	56	22.4		5
	2800 OTTA	46F C	2128.5	2130	9	44.2	11		
	1420 BOUL	42 SER	2128.5E	2130	5.50	114	38		
	2695 SGMR	3 S	2128.6	2130	11.4	25	10		5
	1415 SGMR	3 S	2129.5	2129.8	9.5	231	92		5
	2695 BOUL	42 SER	2129 E	2131	6.50	47	16		
	410 SGMR	6 S	2131	2131.6	5	143	57.2		5
	245 SGMR	48 GB	2131	2131.5	8	11700	4680		5
	1420 BOUL	29 PBI	2144.5E	2146	2.50	9	3		
	9400 HUAN	S	2144.7	2148.2	7.7	17.2	8.4		R
	2800 OTTA	4 S/F	2144	2148	6	30	14		
	1420 BOUL	3 S	2147	2148	3	28	9		
	2695 BOUL	3 S	2148 E	2149	2.50	31	10		
	9400 HUAN	C	2156.3	2216.3	29.5	115.4	44.4		R
	2695 PENT	4 S/F	2156	2202	11	30	9.2		
	1420 BOUL	4 SF	2200.5	2202	2.5	70	23		
	1415 SGMR	3 S	2200.6	2201.3	4.4	75	22		
	2695 BOUL	45 C	2202 E	2205	3.50	63	21		
	2695 PENT	4 S/F	2213.5	2216.5	13	188	25.4		
	1420 BOUL	45 C	2215.5E	2216.5	5 D	84	28		
	500 HIRA	46 C	2216.2	2217.4	3	125	55		SL
	2695 BOUL	4 SF	2216 E	2217	3.50	230	77		
	606 MANI	4 S/F	2332.7	2334.4	2.6	35.3	23.5		
	1415 MANI	4 S/F	2333.8	2334.4	1.2	149.3	99.5		
	1415 MANI	4 S/F	2344.8	2346.3	10.2	308.1	205.4		
	4995 BOUL	45 C	2344	2347.5	9.5	100	33		
	2695 MANI	4 S/F	2345.4	2346.5	9.8	70.4	46.9		I
	1420 BOUL	45 C	2345.5E	2346.5	2.50	130	43		
	2695 PENT	46F C	2345	2346.7	9	75.6	17		
	606 MANI	4 S/F	2346.2	2351.9	7.5	63.1	42.1		
	2695 BOUL	45 C	2346.5E	2347.5	7.50	119	40		
21	100 GORK	44 NS	0524 E		156		10		
	200 GORK	44 NS	0530		510 E		15		
	202 IZHI	44 NS	0600		130	300			
	127 TORN	44 NS	0640 E	1326.8	510 D	230	4		V1

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME		TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT		UT		MINUTES	$10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$ PEAK		
21	221 A9ST	44 NS	0800		0831.5	60	39			
	260 ONDR	44 NS	0810	E		408 D	98	8		
	410 SGHR	44 NS	1136	E	1851.8	642 D	322			
	245 SGHR	44 NS	1136	E	1926.8	642 D	245			
	200 HIRA	44 NS	2120	E	2310	400 D	30	7		ML
	650 GORK	3 S	0542.8		0543	.9	12	6		
	15000 KISV		0600		0600.3		8			
	15000 KISV	45 C	0630		0604	10	10			
	9100 GORK	20 GRF	0602		0605	15.7	11	4		
	6100 KISV	2 S/F	0602		0604.7	11	5			
	200 GORK	8 S	0634.2		0604.5	.5	270			
	100 GORK	8 S	0650.7		0650.8	.4	200 D			
	100 GORK	8 S	0737		0737.2	.4	240 D			
	202 IZHI	4 S/F	0739		0740	2	180	100		
	200 GORK	4 SF	0837.7		0809.8	3	70			
	650 GORK	20 GRF	0815.6		0824.5	10	5.6	2.5		
	650 GORK	1 S	0829.2		0832.3	5.4	5.6	2.5		
	930 BORD	8 S	0839.2		0839.2	.2	16	1		
	200 GORK	46 C	0842.4		0842.9	2.4	75			
	200 GORK		0842.4		0844		75 D			
	650 GORK	20 GRF	0849		0911.7	28.3	5.6			
	33 UPIC	42 SER	0928.8			164.9				
	29 UPIC	42 SER	0928.8		1107.5	161.1				
	100 GORK		0928.8		0938		340 D			
	100 GORK	41 F	0928.8		0929	10	340 D			
	100 GORK		0928.8		0936.1		340			
	100 GORK		0928.8		0933.4		340 D			
	113 POTS	42 SER	0928.9		0933.5	9.3	3200	30		
	234 POTS	42 SER	0928.9		0937.7	9.9	300	1		
	650 GORK	4 SF	0928.9		0931.9	5.1	100	25		
	650 GORK	30 PBI	0928.9		0934	12.2	9			
	950 GORK		0929.3		0937.9		189			
	950 GORK		0929.3		0933.5		112			
	950 GORK	46 C	0929.3		0932.6	13.7	219			
	930 BORD	46 C	0929		0938.3	14	266	28		
	808 ONDR	48 C	0929		0932.8	21	121	24		
	10400 BERN	4 S/F	0930.2		0933.3	14	105	315		
	8400 BERN	4 S/F	0930.2		0933.3	14	106	283		
	10400 BERN	4	0930.3		0933.4	14	315			
	9100 GORK	4 SF	0930.3		0933.5U	11	338			
	8400 BERN	4	0930.3		0933.4	14	283			42
	536 ONDR	48 C	0930		0933.1	20	65	7		
	6100 KISV	8 S	0930		0933.3	13	335			
	1470 BERL	45 C	0931		0933.9	17	69			
	3000 BERL	4 S/F	0931		0932.6	16	226			
	9500 BERL	4 S/F	0931		0933	9	313			
	2695 ATHN	4 S/F	0931.1		0933.4	11.9	275.9	82.8		
	1415 ATHN	4 S/F	0931.2		0933.6	14.1	65.6	19.7		
	8800 ATHN	4 S/F	0931.2		0933.4	11	423	126.9		
	4995 ATHN	4 S/F	0931.5		0933.5	10.6	247.2	74.1		
2950 GORK		0931.7		0937.8		93				
2950 GORK		0931.7		0933.3		280				
2950 GORK	45 C	0931.7		0932.7	11.3	70				
15000 KISV	8 S	0931		0933.5	5	743				
10715 OHIN	45 C	0931		0934	8	250 D				
2650 OHIN	45 C	0931		0933	12	110 D				
260 ONDR	46 C	0933		0937.6	9	209	15			
200 GORK	4 SF	0937.4		0938.2	1.4	75				
650 GORK		0938		0942.5		32				
650 GORK	45 C	0938		0939	5.2	13				
930 BORD	8 S	0946.8		0946.8	.1	18	1			
9100 GORK	21 GRF	0947.8		1127	159.5	36	17			
650 GORK	1 S	0949.2		0950.3	2.3	6	2			
930 BORD	41 F	0949.8		0949.8	.8	30	2			
6100 KISV	2 S/F	0957		1000	5	4				
650 GORK	4 SF	0959.6		1000.6	1.7	73	18			
10400 BERN	4	1022		1215.5	128	35				
8400 BERN	4	1022		1215.5	128	49				
10400 BERN	4 S/F	1022		1215.4	128	1.2	35			
8400 BERN	4 S/F	1022		1215.4	128	18	49			
3000 BERL	20 GRF	1022		1048	38	13				
9500 BERL	20 GRF	1022		1048	35	9.5				
1470 BERL	20 GRF	1024		1048.5	33	2.8				
536 ONDR	3 S	1026.6		1026.6	.3	10				
234 POTS	8 S	1029.1		1029.2	.2	300	50			
200 GORK		1036.6		1037.1	4.7	70 D				
200 GORK	4 SF	1036.6		1041.3		75				
113 POTS	41 F	1045		1045.6	.8	700	70			
100 GORK	45 C	1045		1045.1	.8	360				
100 GORK		1045		1045.6		360 D				
15000 KISV	1 S	1059.5		1000	12	7				
1470 BERL	21 GRF	1103		1112	80	3.6				
536 ONDR	2 S/F	1106.5		1107.2	2	11				
100 GORK	45 C	1106.8E		1106.9	2.7D	4100				
100 GORK		1106.8E		1107.5		4100				

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$	MEAN		
21	100 GORK		1106.8E	1109			4100		
	100 GORK		1106.8E	1108.5			4100		
	930 BORD	41 F	1107.4	1107.4	.8		23	2	
	113 POTS	41 F	1108.4E	1108.4	2.3D		4200		
	234 POTS	8 S	1110.5	1110.5	.1		210	70	
	9500 BERL	21 GRF	1113	1135	70		27		
	3000 BERL	21 GRF	1113	1129.5	71		12		
	6100 KISV	21 GRF	1114	1139.8	49		9		
	6100 KISV		1114	1140			5		
	6100 KISV		1114	1129.5			7		
	6100 KISV		1114	1150			4		
	7000 SAOP	45 C	1127	1129.7	14		28		29R
	9100 GORK	1 S	1128.5	1129.7	2.2		8	4	
	1470 BERL	8 S	1129.2	1129.7	.8		11-		
	9100 GORK	1 S	1134	1135	2.2		10	5	
	808 ONDR	8 S	1207	1207	.2		48		
	113 POTS	4 S/F	1208.7	1208.8	.2		200	30	
	8800 ATHN	3 S	1213.5	1215.1	9.1		36.6	11	
	4995 ATHN	3 S	1213.6	1215.5	8.8		31.7	9.5	
	9100 GORK	5 S	1213.6	1215.6	3.8		43	20	
	9400 HUAN	S	1213.8	1215.6	3.7		33.7	21.7	R
	7000 SAOP	46 C	1214	1215.6	2.8		50		14R
	9500 BERL	3 S	1214	1215.2	9		38		
	3000 BERL	3 S	1214.2	1215.7	7.8		17		
	1415 ATHN	3 S	1214.3	1214.9	2.7		7	2.1	
	2695 ATHN	3 S	1214.4	1215.6	4.4		10.1	3	
	1470 BERL	3 S	1214.5	1215.9	4		6.3		
	10715 DWIN	1 S	1214	1216	4		15	10	
	2650 DWIN	1 S	1214	1216	4		15	10	
	536 ONDR	42 SER	1214	1216.5	2.5		21		
	6100 KISV	45 C	1219	1220.5	11		14		
	6100 KISV		1219	1226			1		
	7000 SAOP	3 S	1220	1221.2	1.2		10.5		66R
	228 HARS	45 C	1233.8	1234	1.5		165	40	
	536 ONDR	3 S	1301.3	1301.3	.2		11		
	9100 ARCE	3 S	1314.3	1315.8	3.6				RECORD DISTURBE
	113 POTS	41 F	1326.1	1327.1	11		175	1	
	7000 SAOP	45 C	1332.5	1334.6	4.2		10.5		19R
	7000 SAOP	21 GRF	1350.4				8		43R
	7000 SAOP	3 S	1350.4	1407	4		10.5		24R
	2800 OTTA	21 GRF	1358		132		13.2		
	10400 BERN	4 S/F	1411	1420.2	100		72	218	
	8400 BERN	4 S/F	1411	1420.2	100		77	206	
	10400 BERN	4	1411.1	1420.2	100		218		
	8400 BERN	4	1411.1	1420.2	100		206		3R
	9400 HUAN	C	1412.7	1420.2	10.7		269.4	101.9	R
	7000 SAOP	46 C	1413.3	1420.2	11.6		225		12R
	1415 ATHN	2 GRF	1413.7	1420.7	24.6		14	8.3	
	8800 ATHN	4 S/F	1413.8	1420.4	38.7		399.1	119.7	
	4995 SGHR	3 S	1414	1420.1	16		128	38.4	SHF
	9500 BERL	4 S/F	1414.5	1420	26		221		
	9100 ARCE	4 S/F	1414	1420.4	12.4				
	10715 DWIN	45 C	1414	1420	25		180	50	
	8800 SGHR	3 S	1415.1	1420.1	20.1		288	86.4	SHF
	4995 ATHN	4 S/F	1415.5	1420.6	37		109.7	32.9	
	2695 ATHN	3 S	1415.7	1420.4	7.4		40.4	12.1	
	1470 BERL	4 S/F	1416.5	1420.7	6.5		6.6		
	1415 SGHR	3 S	1416.5	1417	6.5		11	2.2	SHF
	2650 DWIN	4 S/F	1416	1420	9		40	15	
	3000 BERL	4 S/F	1417	1420	8		49		
	2695 SGHR	3 S	1417	1420.6	7		58.4	17.5	SHF
	15400 SGHR	3 S	1417.3	1420.2	17.3		389	117	SHF
	930 BORD	41 F	1418.4	1418.9	2.6		30	2	
	808 ONDR	42 SER	1418.5	1419	11		81		
	606 SGHR	3 S	1418.8	1419	3.3		14.6	2.9	SHF
	35000 SGHR	3 S	1419	1420.3	11		203	60.9	SHF
	536 ONDR	42 SER	1419	1419	3		10		
	9400 HUAN	P8I	1423.4	1423.4	29.6		57.2	25.6	0
	9100 ARCE	29 P8I	1426.4		47				
	245 SGHR	48 GB	1525.9	1526.1	.4		4050	810	5
	410 SGHR	6 S	1525.9	1526.1	.3		56	11	5
	7000 SAOP	46 C	1555	1556.9	1.2		309		10R
	10400 BERN	3 S	1555.3	1556.8	21		140	414	
	8400 BERN	3 S	1555.3	1556.8	21		130	348	
	8400 BERN	3	1555.3	1556.8	21		348		4R
	10400 BERN	3	1555.3	1556.8	21		414		
	1415 SGHR	3 S	1555.3	1557.2	13.3		90	18	5,SHF
	15400 SGHR	47 GB	1556.1	1556.8	12		720	144	5,SHF
	8800 SGHR	47 GB	1556.2	1556.8	11.9		560	112	5,SHF
	9100 ARCE	3 S	1556.2	1557	3.5				
	606 SGHR	47 GB	1556.4	1556.9	9.8		1270	254	5,SHF
	930 BORD	45 C	1556.5	1557.3	5.5		187	10	
	245 SGHR	48 GB	1556.7	1557.1	1.4		1110	222	5,SHF
	35000 SGHR	47 GB	1556.7	1556.9	3.1		617	123	5,SHF
	410 SGHR	48 GB	1556.8	1557	.7		1210	242	5,SHF

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	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		
	4995 SGMR	3 S	1556.8	1557.1	11.3	137	27		5, SHF
	2695 SGMR	3 S	1556.8	1557.3	11.4	250	50		5, SHF
	10715 DMIN	3 S	1556	1557	3	250 D			
	2650 DMIN	3 S	1556	1557	4	110 D			
	1420 BOUL	3 S	1556 E	1557	3 D	79	26		
	2800 OTTA	3 S	1556	1557	3	178	55		
	7000 SAOP	8 S	1557.2	1557.6	.4	12			0
	2695 BOUL	45 C	1557 E	1557.5	10 D	229	76		
	2800 OTTA	30 PBI	1559	1559	10	13.2	4.4		
	2800 OTTA	4 S/F	1600	1601	2	10.4	5.4		
	2800 OTTA	4 S/F	1605	1605.6	2	17	8		
	4995 BOUL	45 C	1616.5	1620	4	81	27		
	2800 OTTA	20 GRF	1622	1628	30	7	3		
	2800 OTTA	1 S	1751	1752.2	3	2.8	1.4		
	4995 BOUL	42 SER	1755	1756.5	12	197	66		
	7000 SAOP	40 F	1814	1827.8		12			29R
	410 SGMR	6 S	1831.8	1832	.5	61	12		3
	245 SGMR	48 GB	1831.9	1832	.9	1040	208		3
	7000 SAOP	4 S/F	1840	1841.3	.3	29			24R
	2800 OTTA	1 S	1840.5	1841.3	1.5	6.4	3		
	4995 BOUL	4 SF	1840	1840.5	1.5	22	7		
	245 SGMR	48 GB	1903.3	1905	2.7	597	120		
	410 SGMR	48 GB	1904.9	1905	1.1	3700	740		
	8800 SGMR	3 S	1909.4	1912	8.5	160	48		
	2800 OTTA	1 S	1938	1943	10	3.8	1.9		
	7000 SAOP	3 S	1941	1942.5	2.4	21			50R
	2800 OTTA	21 GRF	1950	2059	225	13.8	6.9		
	8800 SGMR	3 S	2012.1	2017	5.5	167	33		
	2800 OTTA	1 S	2023.8	2024.3	1	2.2	1		
	245 SGMR	48 GB	2043.6	2044.5	3.6	5460	1090		3G
	410 SGMR	48 GB	2044.1	2044.3	2.2	605	121		3G
	606 SGMR	3 S	2044.4	2044.6	1.6	13.1	2.6		3G
	2800 OTTA	1 S	2131.9	2132	1	3.4	1.7		
	1420 BOUL	8 S	2132 E	2132.5	1 D	78	26		
	1420 BOUL	8 S	2152 E	2152.5	1 D	41	14		
	2695 PENT	21 GRF	2245	2247	40	8.8	3		
	2695 PENT	1 S	2247.8	2248.5	2	3.8	1.9		
	4995 BOUL	45 C	2319	2324	14.5	67	22		
	2930 VORO	42 SER	2340	2347	15	61			
	2695 PENT	1 S	2357	2357.8	2	4.2	2		
22	2695 HANI	4 S/F	0504.3	0507.5	9.9	74.4	24.8		
	5730 IRKU		0504.5	0512.4		77			R
	5730 IRKU		0504.5	0509		76			R
	5730 IRKU		0504.5	0507		72 D			R
	5730 IRKU		0504.5	0505.5		67			R
	5730 IRKU	45 C	0504.5	0505.1	10	36			R
	1415 HANI	4 S/F	0504.8	0506.6	8.9	21.1	7		
	8800 HANI	4 S/F	0505.3	0507.5	6.9	266.5	103.1		
	8800 ATHN	1 F	0506.1E	0510.1	26.9D	450.8	225.4		
	4995 ATHN	1 F	0506.1E	0510.1	28.7D	331.8	165.9		
	2695 ATHN	1 F	0506.1E	0510	21.9D	243.6	121.8		
	1415 ATHN	1 F	0506.1E	0510.1	15.8D	128.1	64.1		
	606 HANI	4 S/F	0506.8	0509.2	2.8	15.1	5		
	35000 NAGO	5 S	0507	0508	13	73			
	35000 NAGO	29 PBI	0520	0526	55	20			
	200 GORK	43 NS	0548		420		5		
	202 IZHI	44 NS	0600		360	55			
	221 ABST	43 NS	0720	0725.2	23	34			
	127 TORN	44 NS	0740 E	1452.7	450 D	140	13		V1
	260 ONDR	44 NS	0744 E		426 D	28	2		
	113 POTS	44 NS	1120 E	1421	193 D	50			
	100 GORK	43 NS	1122		98 E		15		
	410 SGMR	44 NS	1135 E	2105	644 D	39.6			CONT, SHF
	245 SGMR	44 NS	1135 E	1655.8	644 D	218			CONT, SHF
	6100 KISV	4 S/F	0600	0607	15	12			
	15000 KISV	4 S/F	0600	0607	15	57			
	5730 IRKU	21 GRF	0605	0607.4	6	18	6		R
	9100 GORK	1 S	0607	0607.7	1.2	17	8		
	650 GORK	2 SF	0607.2E	0608.4	1.2	2			
	950 GORK	3 S	0607.5	0607.7	.7D	56	28		
	200 GORK	41 F	0608	0608.8	12.4	35			
	200 GORK		0608	0616.4		35			
	200 GORK		0608	0620		240			
	200 GORK		0608	0612.8		35 D			
	100 GORK		0617.1	0623.8		35			
	100 GORK		0617.1	0621.6		35			
	100 GORK	41 F	0617.1	0620	7	70			
	15000 KISV	4 S/F	0645	0658	30	82			
	6100 KISV	4 S/F	0645	0658	30	48			
	4995 ATHN	4 S/F	0657.6	0658.2	5.4	68.7	20.6		
	2695 ATHN	4 S/F	0657.7	0658.2	4.3	53	15.9		
	8800 ATHN	4 S/F	0657.7	0658.1	2.8	68	20.4		
	606 HANI	8 S	0657.7	0658	.8	178.9	12.6		
	2695 HANI	4 S/F	0657.8	0658.2	1.4	49	16.3		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	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		
22	1405 HANI	4 S/F	0657.8	0658	1.2	19.2	6.4		
	1415 ATHN	3 S	0657.9	0658.2	1.8	22	6.6		
	650 GORK	3 S	0658	0658.3	.9	55	12		
	9100 GORK	5 S	0658	0658.2	1.2	46.5	23		
	950 GORK	3 S	0658	0658.5	1.2	10	5		
	202 IZHI	41 F	0725.3	0726.2	16.2	130			
	100 GORK		0726.3	0753.2		325			
	100 GORK		0726.3	0732		245			
	100 GORK	41 F	0726.3	0729.2	27	225			
	100 GORK		0726.3	0751.3		325			
	100 GORK		0726.3	0730.7		275			
	100 GORK		0726.3	0748.7		325			
	200 GORK		0726.5	0738.3		77			
	200 GORK		0726.5	0741.6		77			
	200 GORK		0726.5	0732.1		70			
	200 GORK	41 F	0726.5	0726.7U	15.5	70	D		
	113 POTS	40 F	0731	0757.5	29	500	5		
	200 GORK		0819.6	0826.8		80			
	200 GORK		0819.6	0830.6		65			
	200 GORK	41 F	0819.6	0823.1	20.2	60			
	200 GORK		0819.6	0839.3U		80	D		
	9100 ARCE	22 GRF	0821.7	0822.9	10.5				RECORD DISTURB
	15000 KISV	8 S	0821	0821.6	1	9			
	9100 GORK	20 GRF	0822.3	0823	21.2	11	4		
	2950 GORK	1 S	0822.7	0823.3	2.2	16	8		
	200 GORK		0909.6	0923.8		85			
	200 GORK	41 F	0909.6	0912.7	23.4	85			
	200 GORK		0909.6	0930.5		55			
	3000 BERL	4 S/F	0910.5	0912.3	6.5	97			
	8800 ATHN	14 C	0910.8	0914.4		131.4	37.9		
	9100 GORK	29 PBI	0910.8	0915.4	33.9	22.5	18		
	8800 ATHN	14 C	0910.8	0912.3	37.9	131.4	39.4		
	9100 GORK		0910.8	0914.2		111			
	9100 GORK	45 C	0910.8	0912.1	4.7	128			
	10400 BERN	46 C	0910.9	0912.1	13	27	79		
	8400 BERN	46 C	0910.9	0912.1	13	44	117		
	10400 BERN	46 C	0910.9	0914.2	13	26	74		
	8400 BERN	46 C	0910.9	0914.2	13	36	96		
	6100 KISV	45	0910	0912	10	78			
	6100 KISV		0910	0914		71			
	15000 KISV	46 C	0910	0912	7	61			
	9500 BERL	4 S/F	0911	0912	8	95			
	8400 BERN	46	0911	0912.2	13	117			10R
	8400 BERN	46	0911	0914.2	13	96			17R
	10400 BERN	46	0911	0914.2	13	74			
	10400 BERN	46	0911	0912.2	13	79			
	4995 ATHN	14 C	0911.1	0912.2	35.9	161.2	48.3		
	2950 GORK		0911.1	0914.2		50	25		
	2950 GORK	45 C	0911.1	0912.2	4.3	194	65		
	2695 ATHN	14 C	0911.1	0912.2	31.6	84.7	25.4		
	1415 ATHN	4 S/F	0911.1	0912	5.7	65.9	19.8		
	9100 ARCE		0911.2	0912.3	2.5				
	9100 ARCE	45 C	0911.2	0912.3	5				
	2695 HANI	3 S/F	0911.4	0912.3	1.6	65.4	39.4		
	1415 HANI	4 S/F	0911.5	0912.1	1.4	90.2	60.2		
	950 GORK	1 S	0911.8	0912.3	1	1			
	10715 DWIN	45 C	0911	0913	6	80	30		
	2650 DWIN	4 S/F	0911	0913	6	80	20		
	1470 BERL	4 S/F	0912	0912.5	1.5	69			
	9100 ARCE		0913.7	0914.5	2.5				
	9100 ARCE	30 PBI	0916.2		36				
	9100 ARCE	1 S	0925.3	0925.4	.5				
	950 GORK	3 S	1024.1	1024.4	.5	6	3		
	3000 BERL	1 S	1057	1057.9	1	4.3			
	1470 BERL	1 S	1057	1057.8	1	1.4			
	6100 KISV	24 R	1100			19			
	8400 BERN	20	1110.8	1124.2	55	42			OPR
	10400 BERN	20	1110.8	1124.2	55	29			OPR
	10400 BERN	20 GRF	1110.8	1124.2	55	10	29		
	8400 BERN	20 GRF	1110.8	1124.2	55	16	42		
	15000 KISV	24 R	1110			12			
	2650 DWIN	20 GRF	1112	1140	58	15	10		
	9100 GORK	21 GRF	1114.5	1124.2	76.5E	40			
	8800 ATHN	2 GRF	1114.6	1122.2	47.1	58.4	29.2		
	4995 ATHN	2 GRF	1115.5	1124.3	47	25.4	15.2		
	2695 ATHN	2 GRF	1115.8	1124.3	47.3	26.2	15.7		
	1415 ATHN	2 GRF	1115.8	1124.4	47.3	9.8	5.9		
	10715 DWIN	20 GRF	1115	1125	60	20	15		
	9500 BERL	20 GRF	1115	1124	51	34			
	1470 BERL	22 GRF	1116	1124.4	24	9.8			
	200 GORK	41 F	1117.6	1117.6	10.4	65			
	200 GORK		1117.6	1127.8		40			
	200 GORK		1117.6	1123.8		77			
	3000 BERL	22 GRF	1119	1124	54	17			
	950 GORK	1 S	1124	1124.4	.6	3.8	1.9		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES
FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	UT	MINUTES	$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN		
22	2950 GORK	1 S	1124	1124.1	.5	15	7.5		
	228 HARS	45 C	1141	1141.5	1.5	130	30		
	200 GORK	41 F	1145	1151.7	38.4	75			
	200 GORK		1145	1211.2		70			
	200 GORK		1145	1221.6		60			
	8800 ATHN	3 S	1218.6	1219.2	2.2	43.8	13.1		
	3000 BERL	3 S	1218.7	1219.2	1.3	16			
	9100 GORK	5 S	1218.7	1219.2	1.2	48.5	24		
	7000 SAOP	4 S/F	1218.7	1219.1	.8	36.5			27R
	1470 BERL	1 S	1218.8	1219	1.2	1.5			
	9500 BERL	29 PBI	1218.8	1219.2	1.7	39			
	9100 ARCE	4 S/F	1218.9	1219.3	1.4				
	4995 ATHN	3 S	1218.9	1219.3	2.4	27.7	8.3		
	2695 ATHN	3 S	1218.9	1219.3	1.3	23	6.9		
	10400 BERN	3 S	1219	1219.2	2	14	41		
	10400 BERN	3 S	1219	1219.2	2	41			OPR
	2950 GORK	1 S	1219	1219.2	1.2	20	10		
	10715 DWIN	4 S/F	1219	1219.5	1	45	15		
	2650 DWIN	1 S	1229	1219.5	1	15	5		
	3000 BERL	4 S/F	1252	1254	7	74			
	4995 SGMR	3 S	1252.2	1253.4	7.8	108	21.6		CONT,SHF
	8800 SGMR	3 S	1252.3	1253.6	2.3	106	21.2		CONT,SHF
	10400 BERN	45 C	1252.4	1253.7	17	21	60		
	10400 BERN	45 C	1252.4	1253.7	17	60			OPR
	9100 ARCE	4 S/F	1252.4	1253.9	2.7				
	2695 ATHN	14 C	1252.5	1253.8	6.8	62.3	18.7		
	2950 GORK	3 C	1252.5	1253.7	3.4	115			
	950 GORK		1252.5	1254.8		25			
	950 GORK	45 C	1252.5	1253.6	4.4	15			
	9500 BERL	29 PBI	1252.5	1253.5	13	79			
	1470 BERL	3 S	1252.5	1254	7.5	31			
	8800 ATHN	14 C	1252.5	1253.8	6.5	107.1	32.1		
	1415 ATHN	2 GRF	1252.5	1253.9	6.8	16.4	9.8		
	4995 ATHN	14 C	1252.5	1253.8	6.8	94.7	28.4		
	2800 OTTA	4 S/F	1252.5	1253.8	4	55	19.2		
	2695 SGMR	3 S	1252.7	1254.1	6.3	73.6	14.7		CONT,SHF
	650 GORK	4 SF	1252.7	1253.7	2.2	36	4		
	7000 SAOP	46 C	1252.8	1253.7	2.6	123			40R
	808 ONDR	45 C	1252	1253.5	4.5	86	5		
	930 BORD	45 C	1252	1254.6	4	168	9		
	10715 DWIN	4 S/F	1252	1254	4	60	20		
	2650 DWIN	4 S/F	1252	1254	8	70	20		
	15400 SGMR	3 S	1253.3	1254.3	2.7	38.6	7.7		CONT,SHF
	9100 ARCE	29 PBI	1255.1		13				
	2800 OTTA	21 GRF	1320	1340	95	8.2	4.2		
	7000 SAOP	1 S	1328	1329.2		7.5			
	2800 OTTA	1 S	1400.5	1401	1.5	3.8	1.9		
	2800 OTTA	20 GRF	1510	1515	12	2.8	1.6		
	2800 OTTA	3 S	1531	1534.6	9	18.6	6.2		
	7000 SAOP	46 C	1532.4	1535	4.6	69			33L
10400 BERN	4 S/F	1532.4	1535	7	10	29			
10400 BERN	4 S	1532.4	1535	7	29			OPR	
4995 SGMR	3 S	1532.5	1540	2.3	58.7	23.5		CONT,SHF	
4995 ATHN	2 GRF	1533	1535.1	6	39.3	23.6			
8800 ATHN	2 GRF	1533	1534.4	6	48.7	29.2			
2695 ATHN	2 GRF	1533	1534.5	6	9.8	5.9			
15400 SGMR	3 S	1533.1	1534.2	6.9	15	6		CONT,SHF	
8800 SGMR	3 S	1533.3	1535	6.7	66.5	26.6		CONT,SHF	
2695 SGMR	3 S	1533.4	1540	3.4	20	8		CONT,SHF	
10715 DWIN	1 S	1533	1535	4	20	10			
2650 DWIN	1 S	1533	1535	5	20	10			
2800 OTTA	22 GRF	1555	1602.5	15	9.8	3.4			
7000 SAOP	46 C	1631	1636.6	6	152			32R	
4995 SGMR	3 S	1631.2	1636.2	9.3	144	57.6		CONT,SHF	
2800 OTTA	45 C	1631	1636.5	9	85	19			
2695 SGMR	3 S	1632	1637	9.6	80.3	32.1		CONT,SHF	
8800 SGMR	3 S	1632.4	1636.4	6.6	118	47.2		CONT,SHF	
1420 BOUL	45 C	1632.5E	1636.5	6 0	23	8			
4995 BOUL	45 C	1632.5E	1637	6 0	110	37			
15400 SGMR	3 S	1632.5	1635.5	6.5	97.7	39.1		CONT,SHF	
2695 BOUL	45 C	1632.5E	1637.5	7.50	92	31			
930 BORD	46 C	1632	1634.1	3	80	6			
10400 BERN	4	1635.9	1636.6	3.5	110			OPR	
10400 BERN	4 S/F	1635.9	1636.6	3.5	38	110			
2800 OTTA	29 PBI	1640	1640	15	4.8	2.4			
7000 SAOP	46 C	1756	1758.6	6.4	13			38R	
2800 OTTA	21 GRF	1800	1810	90	7.2	3.6			
7000 SAOP	46 C	1805	1809.6		43			16R	
8800 SGMR	3 S	1806.5	1809.5	8.5	33.7	13.5		CONT,SHF	
4995 SGMR	3 S	1806.5	1809.4	8.5	27.3	10.9		CONT,SHF	
15400 SGMR	3 S	1806.6	1809.5	8.4	15.2	6.1		CONT,SHF	
4995 SGMR	3 S	1856.3	1857.2	6.7	134	53.6		CONT,SHF	
4995 BOUL	45 C	1856.5	1857.5	3.5	111	37			
7000 SAOP	4 S/F	1857	1858.5	24.2	152			31R	
15400 SGMR	3 S	1857.2	1858.2	3.8	141	56.4		CONT,SHF	

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS	
			UT	UT	MINUTES	$10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$	PEAK			YEAR
	2800 OTTA	3 S	1857.2	1858.5	3.8		78	20		
	8800 SGMR	3 S	1857.5	1858.3	4.5		194	77.6	CONT, SWF	
	2695 SGMR	3 S	1857.5	1858.8	5.5		73.8	29.5	CONT, SWF	
	1420 BOUL	45 C	1857.5E	1858.5	2.50		27	9		
	2695 BOUL	45 C	1858 E	1859.5	3.50		81	27		
	2800 OTTA	29 PBI	1901	1901	28		4.8	2.4		
	2800 OTTA	26A FAL	2000	2120	80		-10.4	-5.2		
	2800 OTTA	1 S	2109	2109.5	1		6.8	2.3		
	4995 BOUL	8 S	2223	2224	2		30	10		
	2695 PENT	1 S	2224	2225	2		4.2	1.4		
	23	5730 IRKU	20 GRF	0324	0327.2	7		32	13	R
		113 POTS	42 SER	0700.9	0709.5	8.6		350	1	
		202 IZHI	41 F	0705.5	0706.8	2.2		260		
	200 GORK	4 SF	0706.2	0706.5	1.1		20	D		
	100 GORK	45 C	0706.3	0706.4	1.6		200			
	100 GORK		0706.3	0706.8			200	D		
	100 GORK		0706.3	0707.2			200	D		
	650 GORK	4 SF	0706.4	0707	1.1		115	17.5		
	2950 GORK	1 S	0706.4	0706.8	1.4		7.8	3.9		
	950 GORK	1 S	0706.7	0707	1.5		3.3			
	6100 KISV	4 S/F	0723	0730.7	12		4			
	260 ONDR	44 NS	0800 E		412	D	24			
	200 GORK	43 NS	0827		246	E		5		
	127 TORN	43 NS	0950 U	1200.1	320	D	60	4	V1	
	100 GORK	43 NS	0956		157	E		5		
	410 SGMR	44 NS	1133 E	1314.1	648		26		5	
	245 SGMR	44 NS	1133 E	1722.2	648		144		5	
	9100 GORK	1 S	0805.6	0806	3		4	2		
	9100 GORK	1 S	0829.3	0930.5	4.2		6	3		
	9500 BERL	20 GRF	0829	0830.5	21		6.5			
	6100 KISV	28 PRE	0915		13		3			
	1470 BERL	20 GRF	0925	0948	32		2.8			
	6100 KISV	21 GRF	0928.5	0932	12		4			
	15000 KISV	3 S	0928	0928.5	5		5			
	9100 GORK	20 GRF	0929	0932	33.8		8.5	4		
	9500 BERL	20 GRF	0929	0932.5	32		10			
	3000 BERL	20 GRF	0930	0945.5	32		6			
	9100 GORK	1 S	1038.1	1038.8	1.6		4.5	2		
	6100 KISV	3 S	1057	1101	6		2			
	9100 GORK	20 GRF	1058.5	1101.5	9.3		7.5	3		
	100 GORK	41 F	1119	1119.2	24		330			
	100 GORK		1119	1140.7			330			
	100 GORK		1119	1120.5			155			
	100 GORK		1119	1133.3			180			
	100 GORK		1119	1142.6			340	D		
	3100 CRIM	24 R	1128	1300			53			
	29 UPIC	42 SER	1142.3	1142.5U	116.3					
	33 UPIC	42 SER	1142.5	1314.6	118.7					
	113 POTS	4 S/F	1142.5	1142.5	.2		2800	500		
	228 HARS	45 C	1212.5	1213	1		155	55		
	7000 SAOP	1 S	1237.8	1238.8			7		0	
	113 POTS	42 SER	1242.8	1314.3	32		7000	7	0	
	7000 SAOP	1 S	1313.4	1313.9			7		0	
	113 POTS	42 SER	1422	1425	3.6		85000	1200		
	29 UPIC	42 SER	1425.7	1426.4	94.3U					
	33 UPIC	42 SER	1425.8	1545.8	94.2U					
	228 HARS	45 C	1443.8	1444	.8		145	40		
	4995 BOUL	8 S	1449.5	1451	2		32	11		
	10400 BERN	4	1449.6	1451.2	17		76		OPR	
	10400 BERN	4 S/F	1449.6	1451.2	17		25	76		
	7000 SAOP	4 S/F	1450	1451.2	5.4		99		33R	
	8800 ATHN	4 S/F	1450.6	1451.3	6.9		93.9	28.2		
	4995 ATHN	3 S	1450.6	1451.4	7.2		34.1	10.2		
	8800 SGHR	3 S	1450.7	1451	2.3		101	20.2	SWF	
	15400 SGHR	3 S	1450.7	1451	1.8		78.8	15.8	SWF	
	4995 SGHR	3 S	1450.8	1452	2.7		43.8	8.8	SWF	
	10715 DMIN	3 S	1451	1452	2		60	20		
	2800 OTTA	26 FAL	1900	1920	20		-2.6	-1.3		
	2800 OTTA	20 GRF	1935	1943	15		3.8	1.9		
	2800 OTTA	20 GRF	2033	2037	12		2.8	1.4		
24	3100 CRIM	20 GRF	0728	0904	145		21	7		
	260 ONDR	44 NS	0750 E		430	D	17			
	200 GORK	41 F	0753.8	0754.7	3.7		24			
	200 GORK		0753.8	0756.4			24			
	100 GORK	8 S	0754.3	0754.6	.8		320	D		
	113 POTS	41 F	0754.5	0754.6	1.8		700	25		
	2950 GORK	1 S	0947	0948.3	6.9		10	5		
	6100 KISV	2 S/F	0947	0948	6		3			
	9100 GORK	21 GRF	1017.5	1040.1	30.5		7	3		
	6100 KISV	45 C	1027	1033	8		2			
	6100 KISV		1027	1029			2			
	202 IZMI	4 S/F	1032.5	1032.5	1		305	160		
	228 HARS	45 C	1032.5	1032.8	.6		135	45		

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME		DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS
			UT	TIME OF MAXIMUM UT		$10^{-22} \text{ W m}^{-2} \text{ Hz}^{-1}$	MEAN		
	260 ONDR	4 S/F	1032	1032.3	1.5	162	15		
	3000 BERL	20 GRF	1234	1239.5	15	8			
	9500 BERL	20 GRF	1234	1241	26	8			
	536 ONDR	2 S/F	1302.7	1303.7	1	13			
	3000 BERL	20 GRF	1334	1342.5	25	5			
	1470 BERL	20 GRF	1338	1340.5	5	1.5			
	536 ONDR	4 S/F	1339	1340.6	2.5	29			
	10400 BERN	3 S	1351.3	1351.6	10	4	13		
	10400 BERN	3	1351.3	1351.6	10	13		OPR	
	9500 BERL	29 PBI	1351.5	1351.6	14	12			
	8400 BERN	3	1546.6	1547.7	3	21			
	10400 BERN	3 S	1546.6	1547.6	3	6	19		
	8400 BERN	3 S	1546.6	1547.6	3	7	21		
	10400 BERN	3	1546.6	1547.7	3	19			
	10715 DWIN	1 S	1547	1548	2	10	5		
	9400 HUAN	S	2112.5	2113.6	2.5	15.6	8.6	L	
	2800 OTTA	1 S	2139.2	2140	1	2.6	1.3		
	200 HIRA	43 NS	2330	0010	210 D	50	20	ML	
25	100 HIRA	44 NS	0023 E	0030 U	247 D	250	60	HL	
	2695 HANI	4 S/F	0640.4	0655.2	21.6	63.2	42.1		
	950 GORK	46 C	0640.7	0642.3	59.7	15			
	950 GORK		0640.7	0717.2		50			
	950 GORK		0640.7	0656.5		34			
	100 GORK		0640.9	0651.5		1170			
	100 GORK		0640.9	0658		2900			
	100 GORK		0640.9	0644.7		230			
	100 GORK	41 F	0640.9	0641.2	26	250			
	100 GORK		0640.9	0649.4		1200			
	100 GORK		0640.9	0643		250 D			
	6100 KISV	20 GRF	0640	0656	25	16			
	650 GORK	21 GRF	0641	0656.5	18	22	11		
	200 GORK		0641	0656.7		40			
	200 GORK	41 F	0641	0651.4	67	65			
	3100 CRIM	45 C	0641	0655	46	54			
	3100 CRIM	29 PBI	0641	0727	29	20			
	3100 CRIM		0641	0719		84			
	200 GORK		0641	0723.8		35			
	606 HANI	4 S/F	0641	0651	19.8	19.7	13.1		
	1415 HANI	4 S/F	0641	0624.8	21	56.6	37.7		
	200 GORK		0641	0718.4		20			
	100 HIRA	41 F	0641	0700	20	1300	50	O	
	200 HIRA	46 C	0642	0649	20	20	10	MR	
	9100 GORK	21 GRF	0646.2	0655.5	204	24.5	11		
	1415 ATHN	2 GRF	0649.2	0656.5	14.8	42.6	25.6		
	2695 ATHN	2 GRF	0649.2	0654.1	14.8	45.2	27.1		
	4995 ATHN	2 GRF	0649.2	0654.1	15	25.3	15.2		
	2950 GORK	1 S	0649.8	0651.1	8.1	7	3		
	8800 ATHN	2 GRF	0650.2	0654.1	13.3	9.8	5.9		
	650 GORK	3 S	0651.1	0651.4	.8	15	4		
	113 POTS	48 C	0651	0655	74	4600			
	650 GORK	20 GRF	0708.1	0719.1	35.2	16	6		
	202 IZMI	27 RP	0710	0721	25	26	16		
	2695 HANI	4 S/F	0711	0719	18.2	110.6	73.7		
	1415 HANI	4 S/F	0711.3	0717.6	17.7	54.5	36.4		
	200 HIRA	46 C	0712	0724	30	35	15	MR	
	100 GORK		0713.3	0721		940			
	100 GORK	46 C	0713.3	0719.5	10	250 D			
	1415 ATHN	2 GRF	0713.6	0718.9	18.4	45.9	27.6		
	606 HANI	4 S/F	0713.8	0717.2	11.9	38.1	25.4		
	100 HIRA	46 C	0713	0723	28	650	40	HL	
	2695 ATHN	2 GRF	0714	0718.9	17.8	104.4	62.6		
	930 BORD	40 F	0715 E	0717.3	16 D	36			
	1470 BERL	45 C	0715	0717.5	28	48			
	3000 BERL	45 C	0715	0718.6	34	106			
	6100 KISV	2 S/F	0801	0804.8	6	3			
	3100 CRIM	21 GRF	0828	0835	16	8	3		
	6100 KISV	4 S/F	0840	0843.3	8	17			
	2950 GORK	3 S	0841.6	0843.2	2.2	27	7		
	3000 BERL	3 S	0842	0843.1	2.5	17			
	9500 BERL	3 S	0842.5	0843.1	2	25			
	3100 CRIM	1 S	0842.5	0843	1	12	4		
	9100 GORK	3 S	0842.5	0843.2	2.2	32.5	15		
	8800 ATHN	2 GRF	0842.5	0843.1	3	29.3	17.6		
	4995 ATHN	2 GRF	0842.5	0843.1	3.2	27.4	16.5		
	10400 BERN	3 S	0842.6	0843.1	5	11	31		
	8400 BERN	3 S	0842.6	0843.1	5	10	26		
	10400 BERN	3	0842.6	0843.1	5	31		OPR	
	8400 BERN	3	0842.6	0843.1	5	26		OPR	
	15000 KISV	2 S/F	0842	0843	2	19			
	10715 DWIN	1 S	0843	0843.5	2	20			
	9100 GORK	1 S	0951.7	0951.9	.6	7	3.5		
	260 ONDR	8 S	0952.8	0952.8	.3	24			
	113 POTS	41 F	1115.8	1115.9	.3	100	10		
	7000 SAOP	3 S	1158	1159.8	13	26.5		38R	

SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES FEBRUARY 1979

DAY OF MONTH	FREQUENCY STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY		INT	POLARIZATION OR REMARKS	
			UT	UT	MINUTES	$10^{-22} \text{ Wm}^{-2} \text{ Hz}^{-1}$ PEAK	MEAN			
	3000 BERL	1 S	1159	1200	2	4.9				
	9500 BERL	3 S	1159.5	1159.9	1.5	13				
	228 HARS	45 C	1322.5	1323.5	2	120	40			
	234 POTS	41 F	1322.7	1323.6	1.3	3600	50			
	260 ONDR	46 C	1322	1323.3	3.5	219 D	12			
	808 ONDR	8 S	1352.7	1352.7	.3	70				
	2800 OTTA	8 S	1428	1428.3	.5	2.2	1.1			
	10715 DWIN	1 S	1437	1437.5	1	15	10			
	10400 BERN	3 S	1441.4	1442.1	3	27			OPR	
	10400 BERN	3 S	1441.4	1442.1	3	9	27			
	7000 SAOP	4 S/F	1441.5	1442.2	1	15			0	
	9400 HUAN	S	1441.5	1442	1.6	26	14.3		R	
	2800 OTTA	1 S	1500.5	1501.2	1.5	1	.5			
	2800 OTTA	8 S	1509.8	1509.9	.2	2.4	1.2			
	6100 KISV	29 PBI	0000	0848	17	2				
	26	200 HIRA	7 C	0517.5	0517.8	.8	3500	1000		0
		100 HIRA	7 C	0519	0519.8	1	250	100		
	100 GORK	46 C	0726.2	0726.3	.9	60 O				
	100 GORK		0726.2	0726.8		30				
	6100 KISV	4 S/F	0750	0753	8	3				
	100 GORK	8 S	0810.2	0810.3	.5	60 D				
	3100 CRIM	20 GRF	0901	0915	24	8	3			
	260 ONDR	41 F	0919	0930.8	26	10	.8			
	100 GORK	4 SF	1115.6	1115.9	2.5	70 D				
	200 GORK	6 S	1115.8	1117.8	2.3	45				
	4995 BOUL	4 SF	1839.5	1841.5	7	41	14			
	7000 SAOP	46 C	1840	1842.1	2.4	102			0	
	1420 BOUL	45 C	1840.5E	1842	3 D	12	4			
	8800 SGMR	3 S	1840.5	1841.7	4.1	113 U	33.9U			
	1415 SGMR	3 S	1840.6	1840.9	2.3	20.7U	6.2U			
	606 SGMR	3 S	1840.8	1841	3.1	14.8U	4.4U			
	2800 OTTA	4 S/F	1840.8	1842	5.2	30	12			
	15400 SGMR	3 S	1840.9	1841.7	3.7	178 U	53.4U			
	2695 SGMR	3 S	1841.1	1842.5	7	31.5U	9.5U			
	4995 SGMR	3 S	1841.4	1842	2	35.9U	10.8U			
	2695 BOUL	4 SF	1841.5E	1842.5	2.5D	27	9			
	2800 OTTA	20 GRF	1900	2040	240	6.6	3.3			
27	3000 BERL	3 S	0731	0731.5	1.5	8				
	260 ONDR	41 F	0805	0825.3	34	16	1			
	200 GORK	41 F	0812	0825.7	26.5	20				
	200 GORK		0812	0828.7		17				
	221 ABST	45 C	0824.5	0825.5	2	22	9			
	260 ONDR	42 SER	0925	1045.7	95	17				
	260 ONDR	42 SER	1259	1413.8	74	8				
	2800 OTTA	20 GRF	1633	1635	19	1.6	.8			
	930 BORD	45 C	1634	1634.8	1.4	16	2			
28	2695 PENT	8 S	0031.2	0031.7	.8	12.4	6.2			
	260 ONDR	42 SER	0749	0915.6	86	28				
	9400 HUAN	S	1417.4	1418.5	1.6	8.9	5.4		R	
	600 UCCL	1 S	1455.5	1455.8	1	6	3			
	9400 HUAN	S	1604.6	1605.1	1.2	14.3	6.4		L	
	930 BORD	8 S	1618.3	1618.4	.2	26	2			

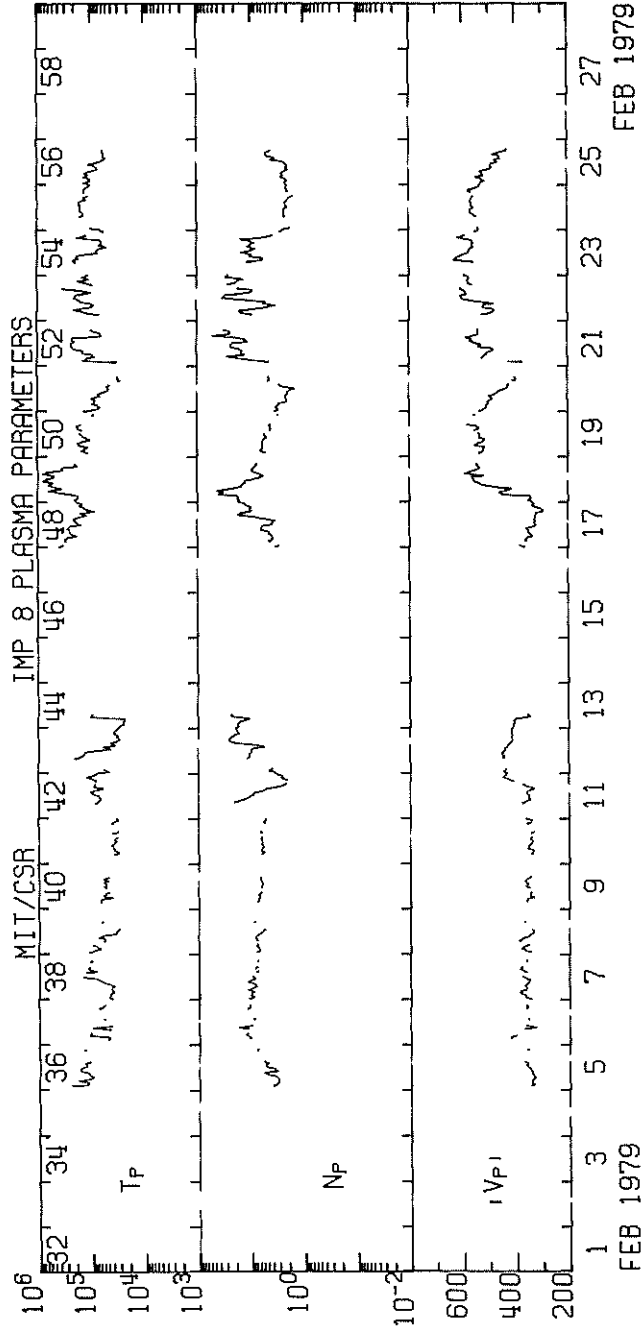
Reports received from the following observatories:

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

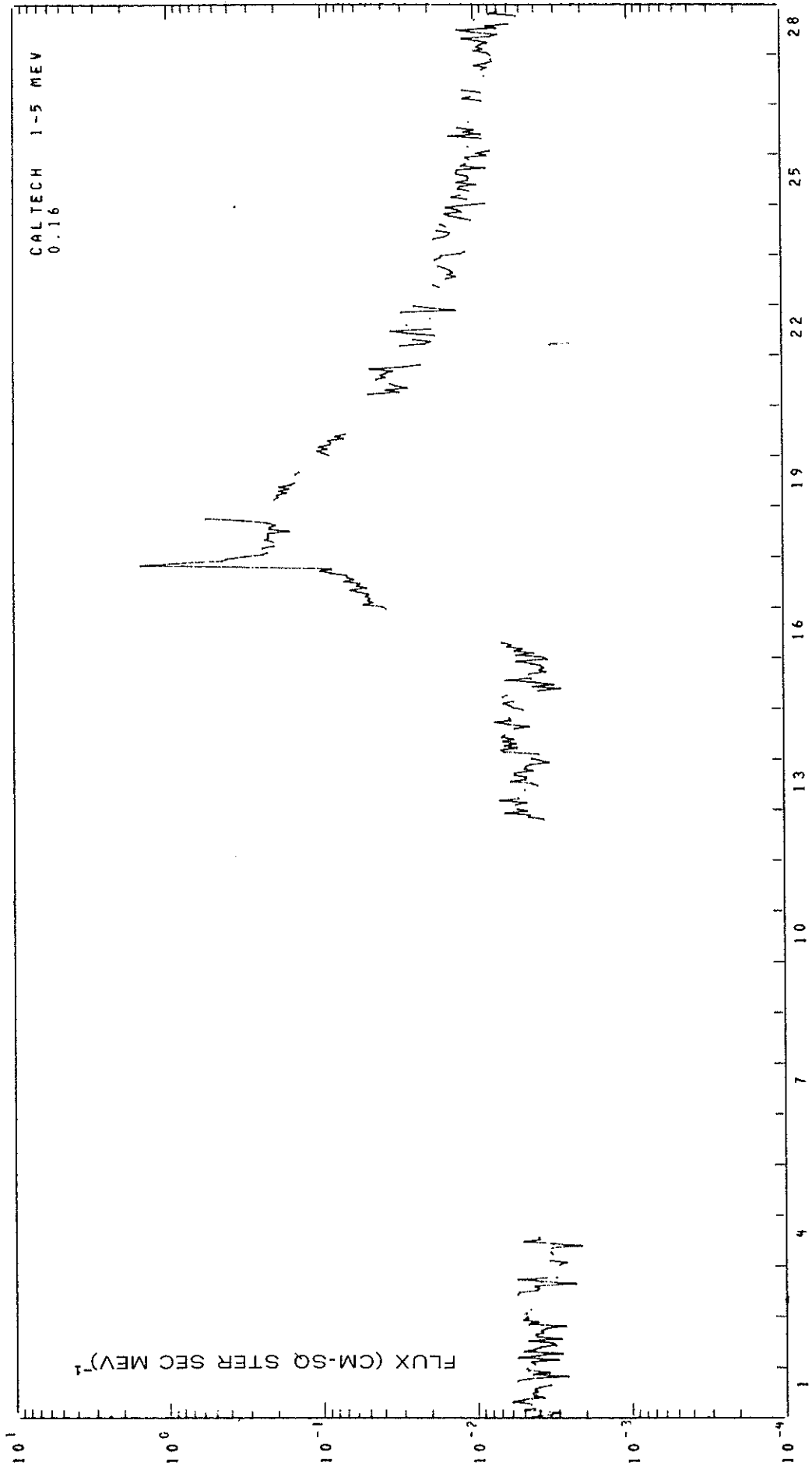
Explanation of Type Code:

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 +

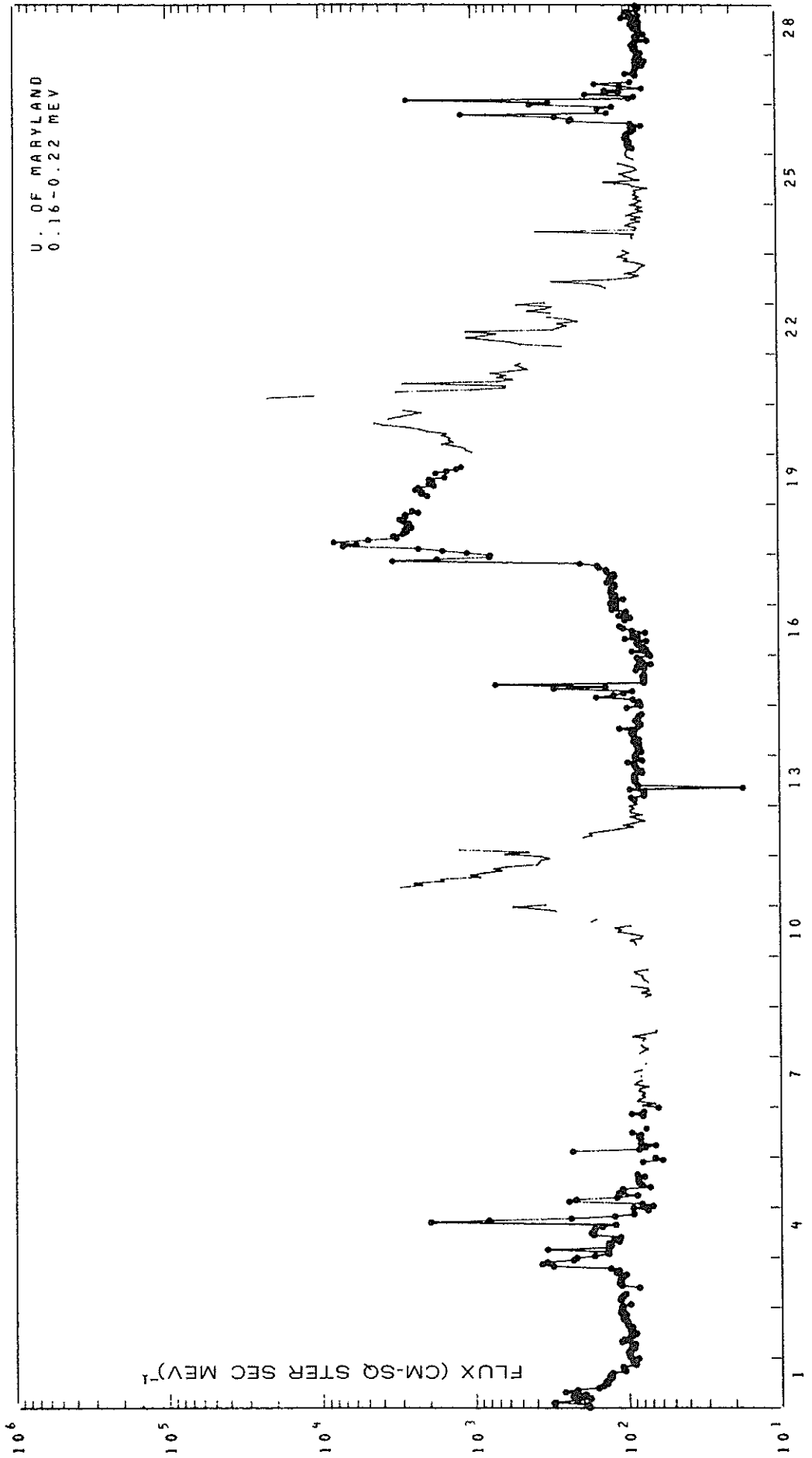
IMP 8 SOLAR WIND PLASMA
FEBRUARY 1979



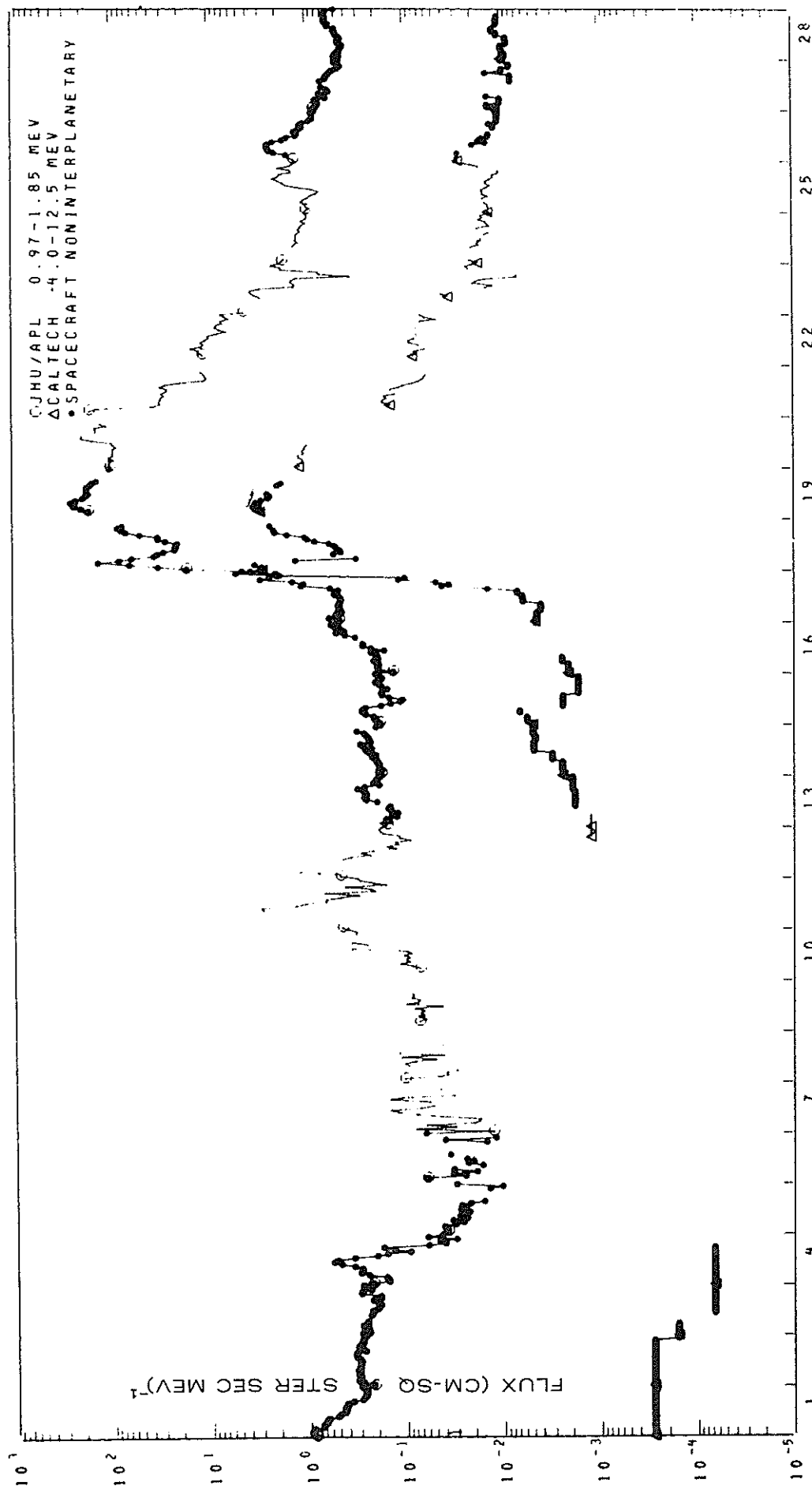
IMP 8 ELECTRONS
FEBRUARY 1979



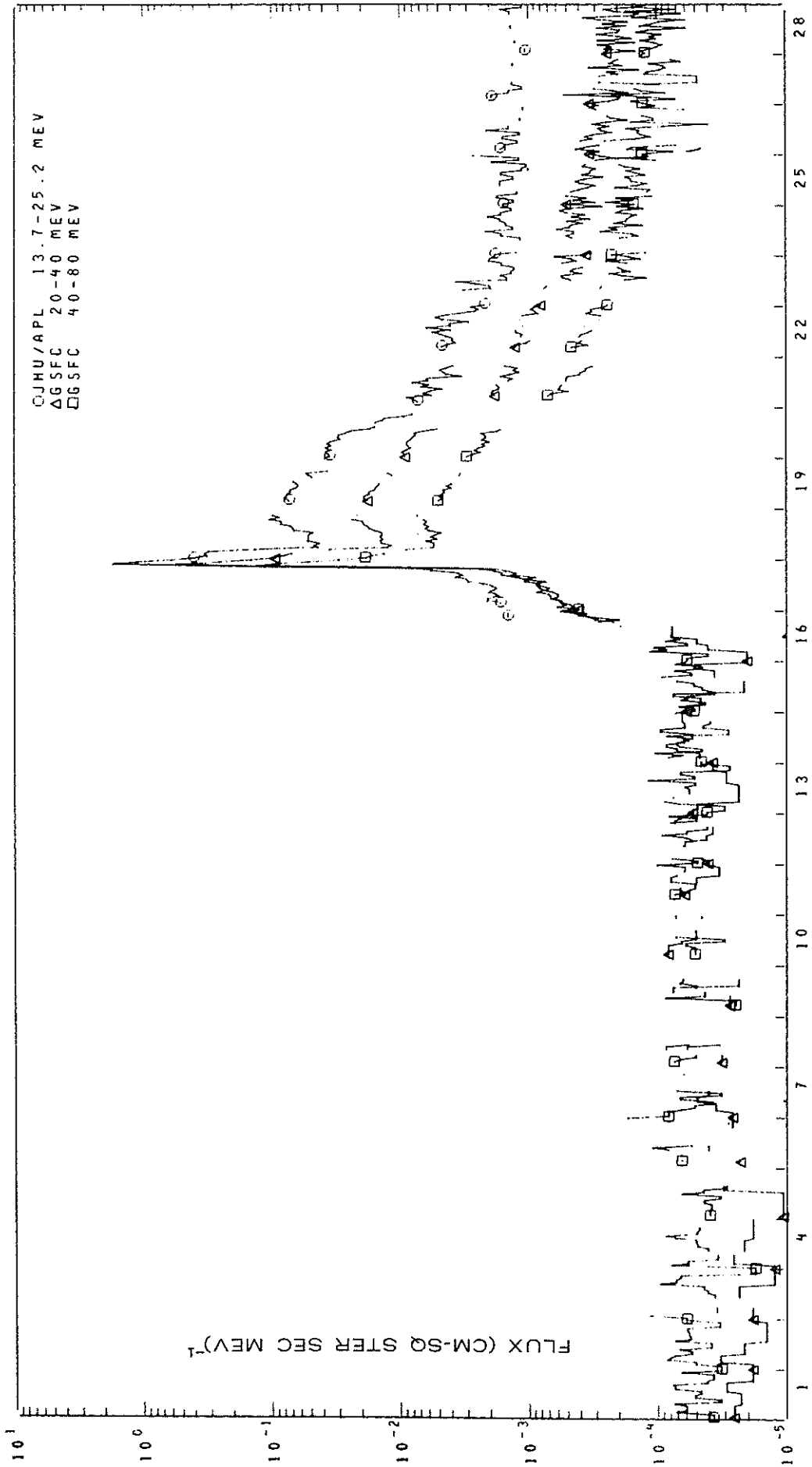
IMP 8 LOW ENERGY PROTONS
FEBRUARY 1979



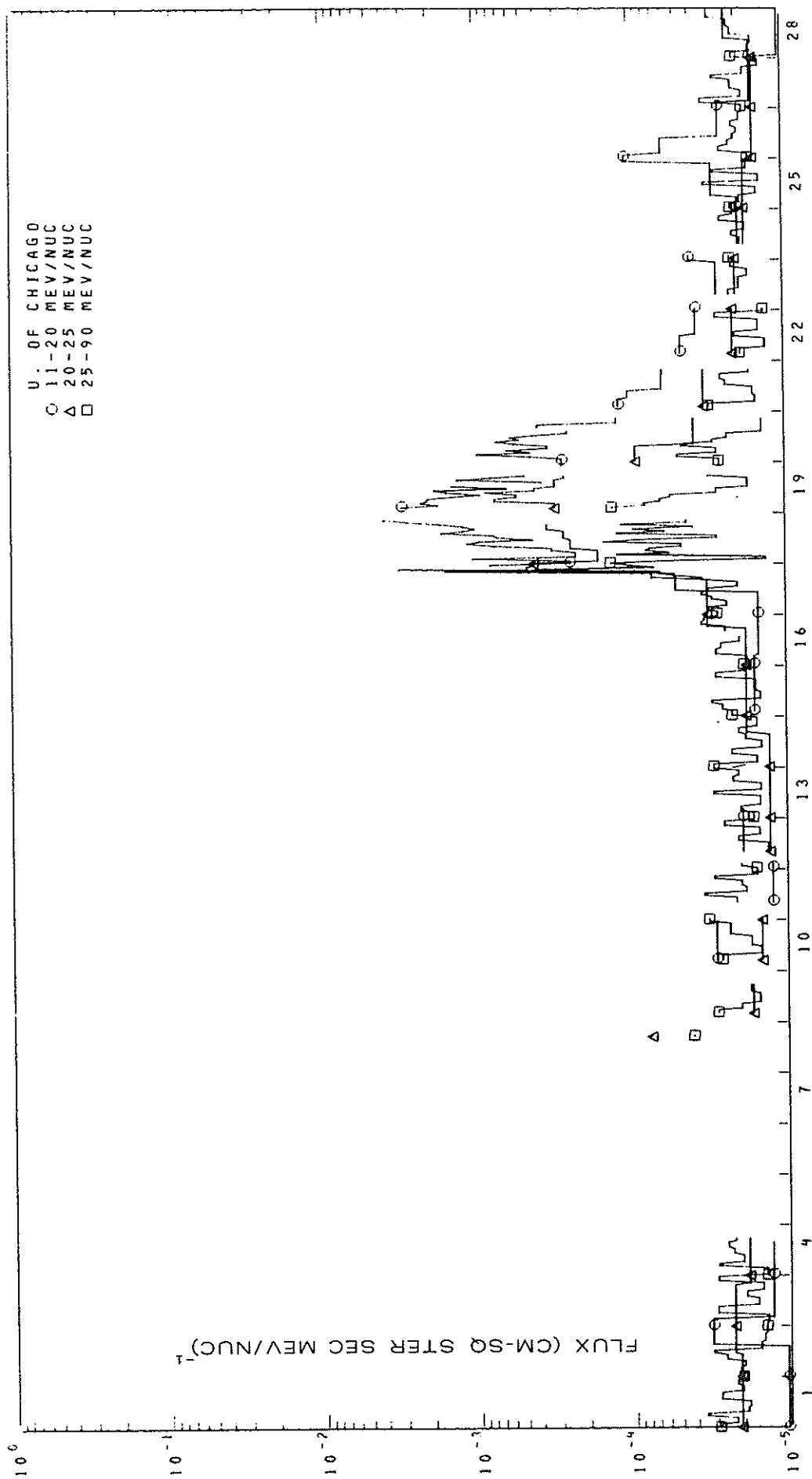
IMP 8 INTERMEDIATE ENERGY PROTONS
FEBRUARY 1979



IMP 8 HIGH ENERGY PROTONS
FEBRUARY 1979



IMP 8 ALPHA PARTICLES
FEBRUARY 1979



SMS-GOES X-RAYS

FEBRUARY 1979

21

20

19

-3

-4

-5

-6

-7

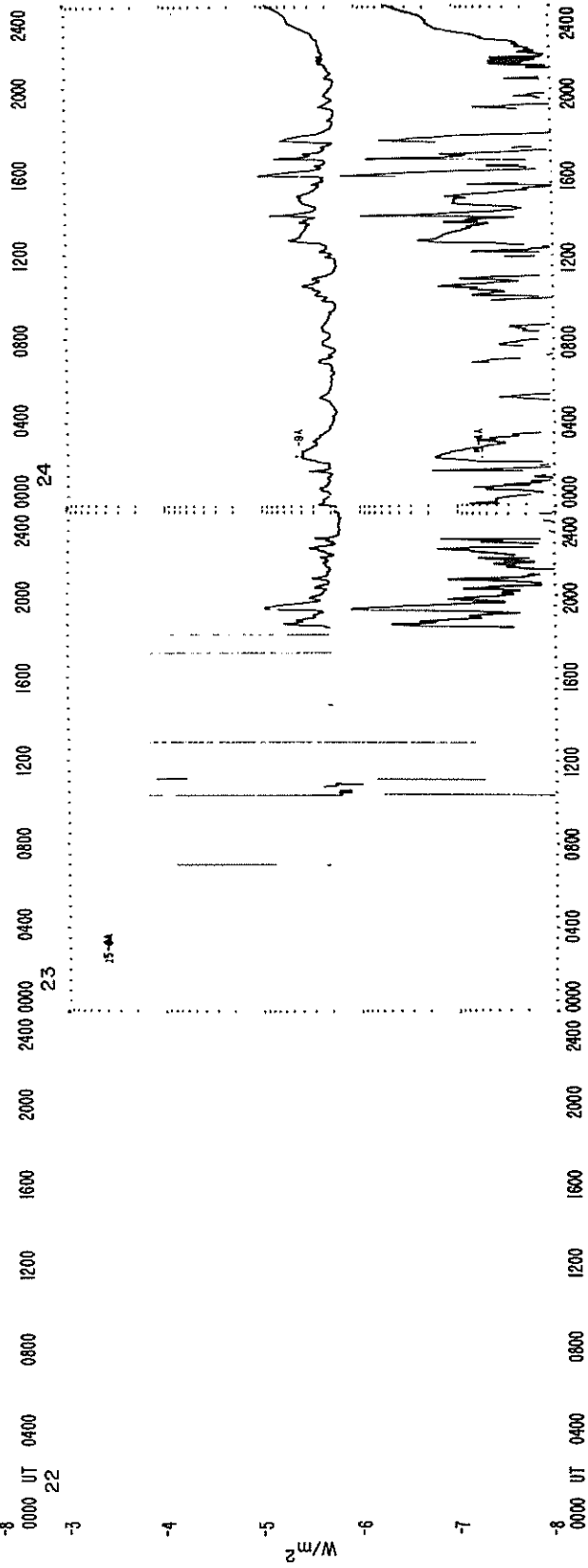
-8

0000 UT

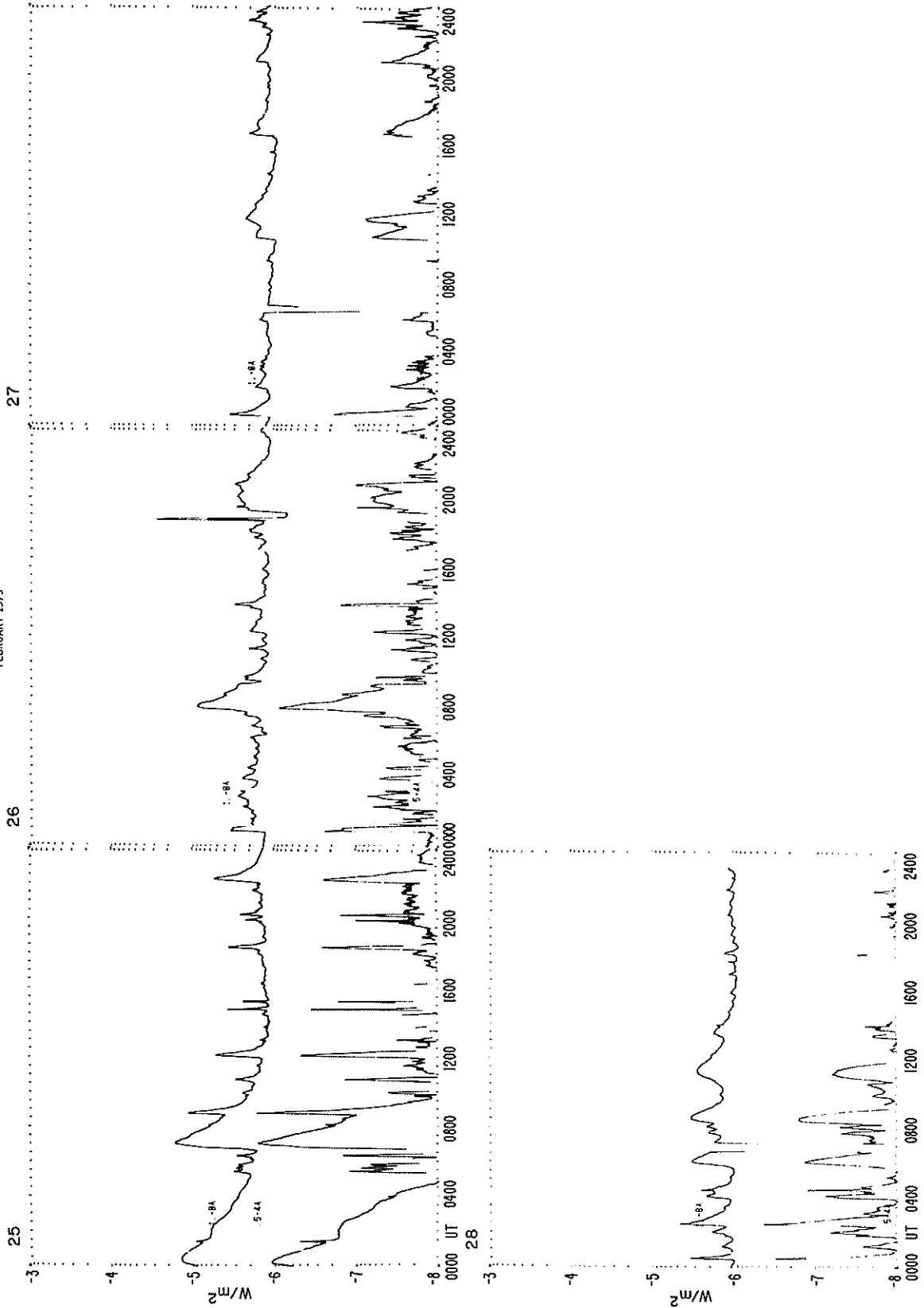
22

1-22 FEB. 1979 Data sparse.

No significant events noticeable.



SMS-GOES X-RAYS
FEBRUARY 1979



SGD 420 Part II (Comprehensive)

JANUARY 1979 DATA

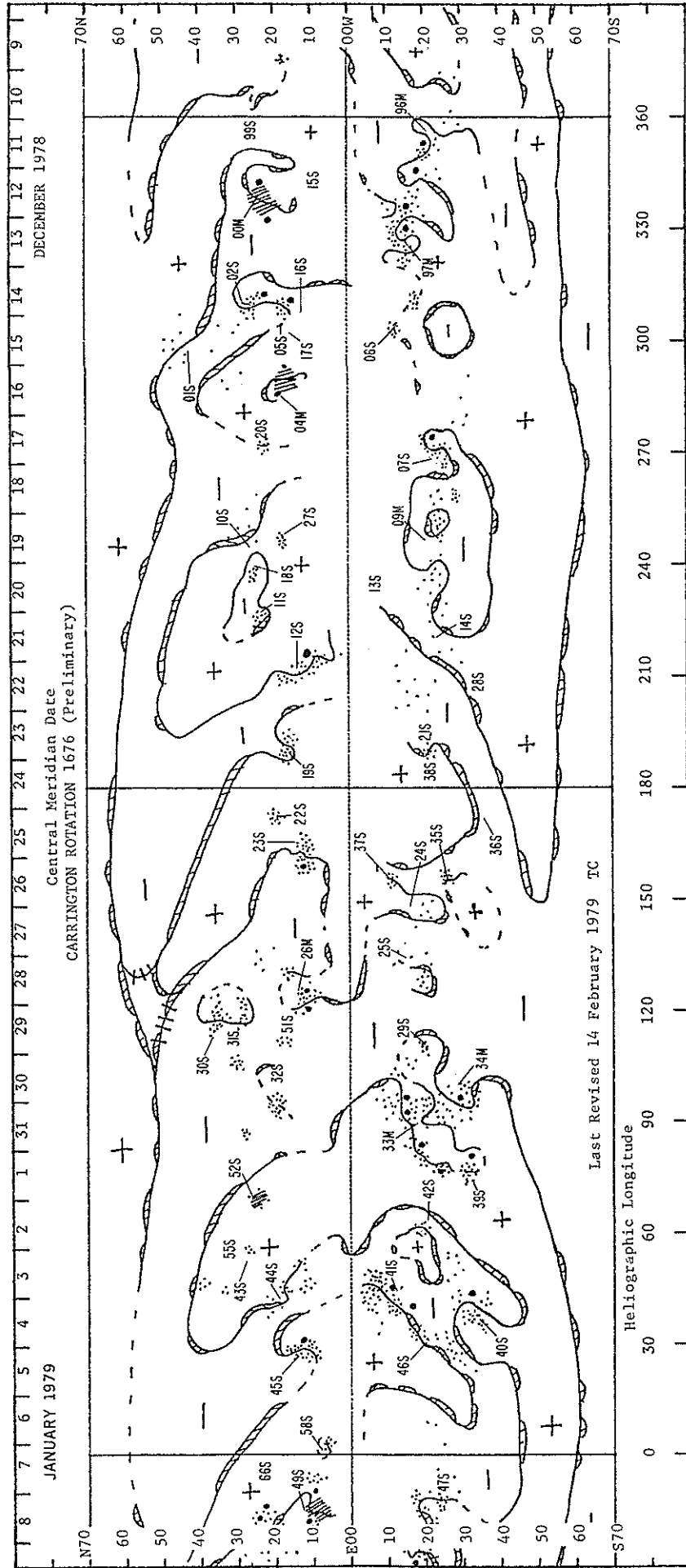
Contents

	Page
<u>Hα Synoptic Charts</u>	56-57
<u>Abbreviated Calendar Record</u>	58-65
<u>Regional Flare Index</u> (Data not available at time of publication)	

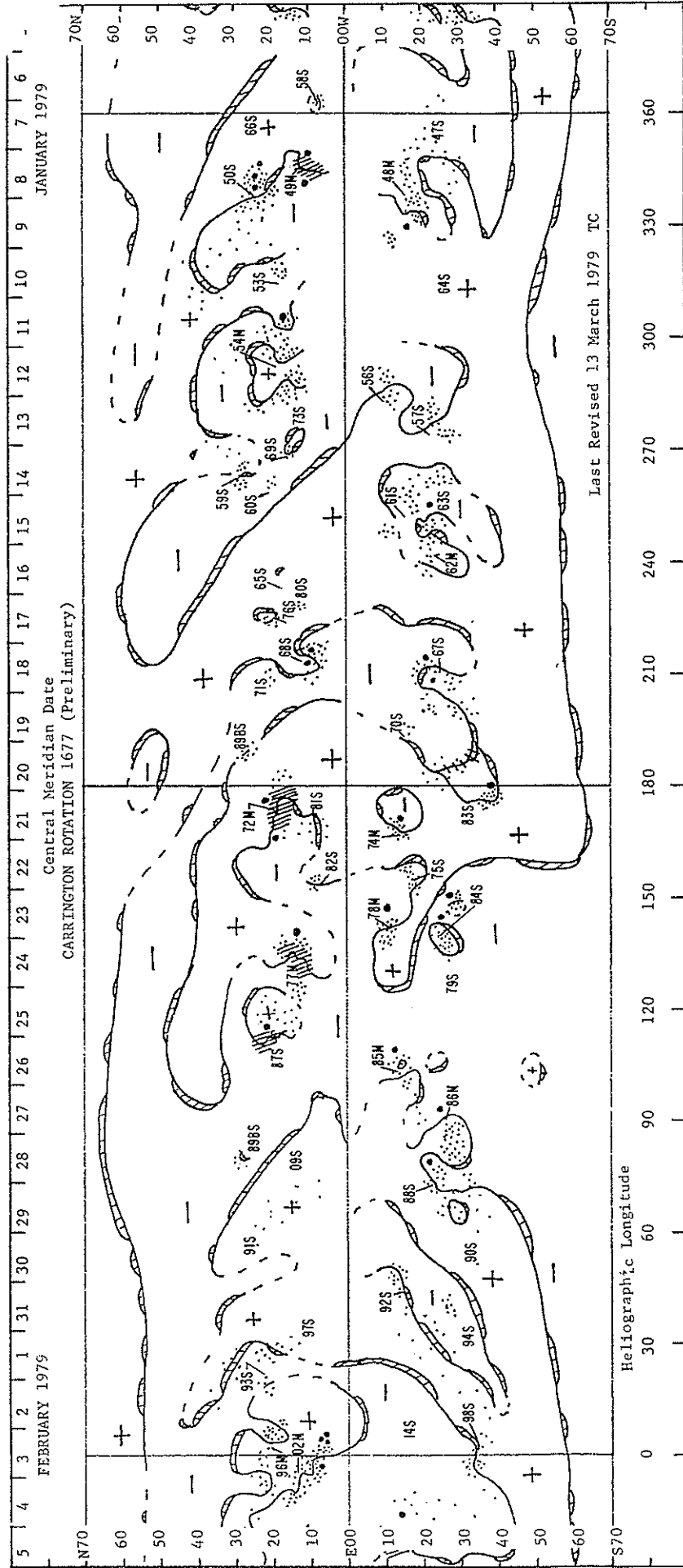
ABBREVIATED CALENDAR RECORD

H α SYNOPTIC CHART

DECEMBER 1978 - JANUARY 1979

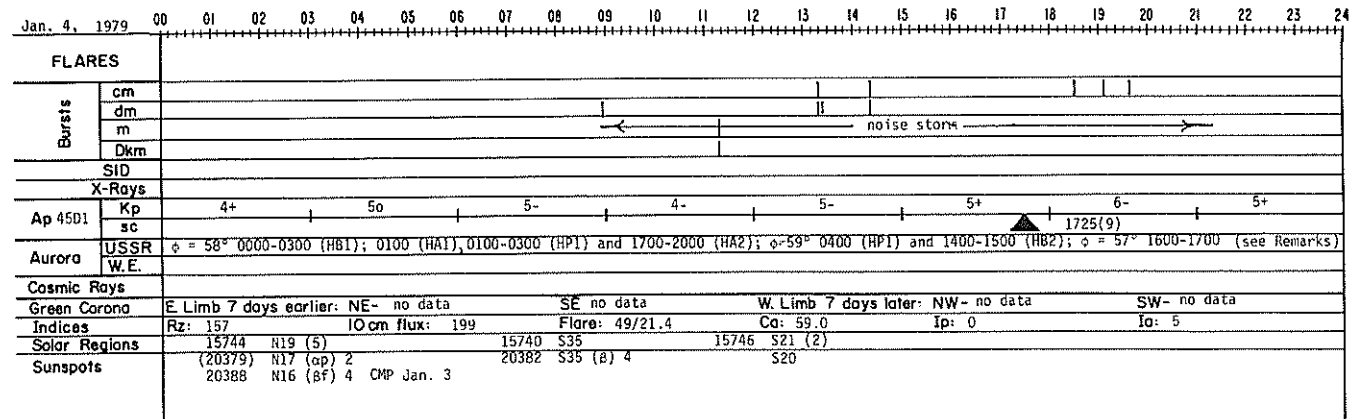
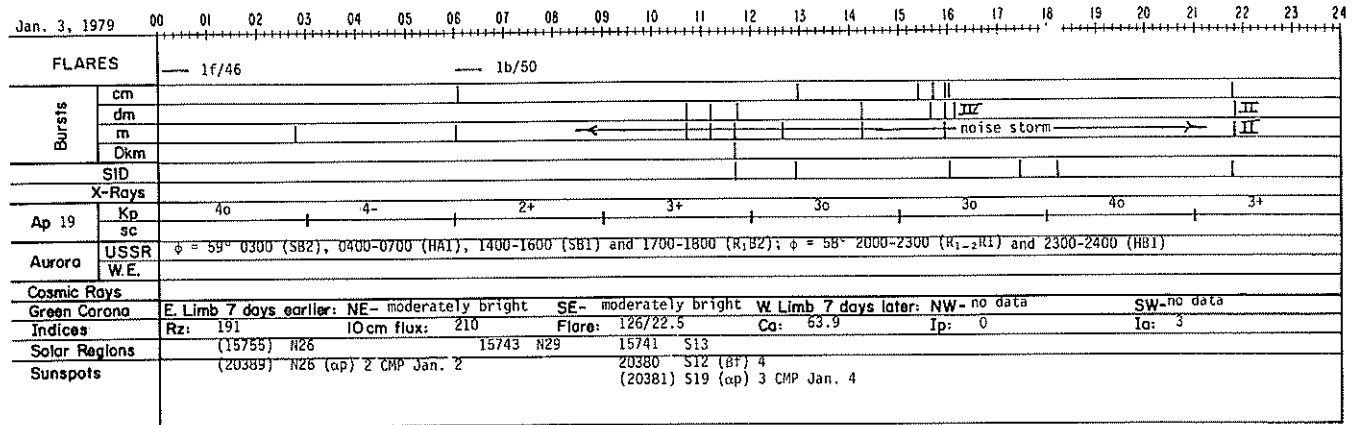
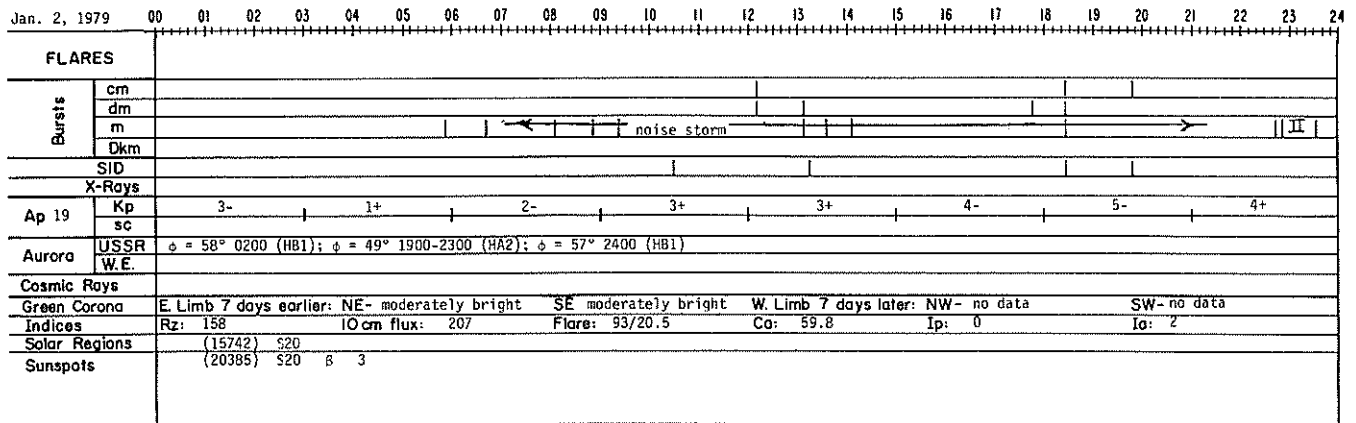
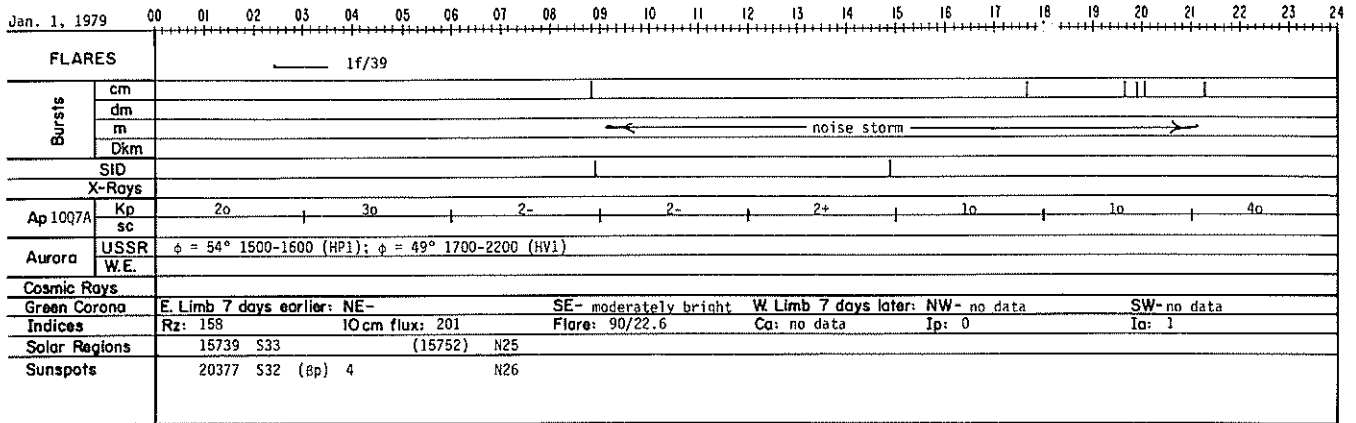


ABBREVIATED CALENDAR RECORD H α SYNOPSIS CHART

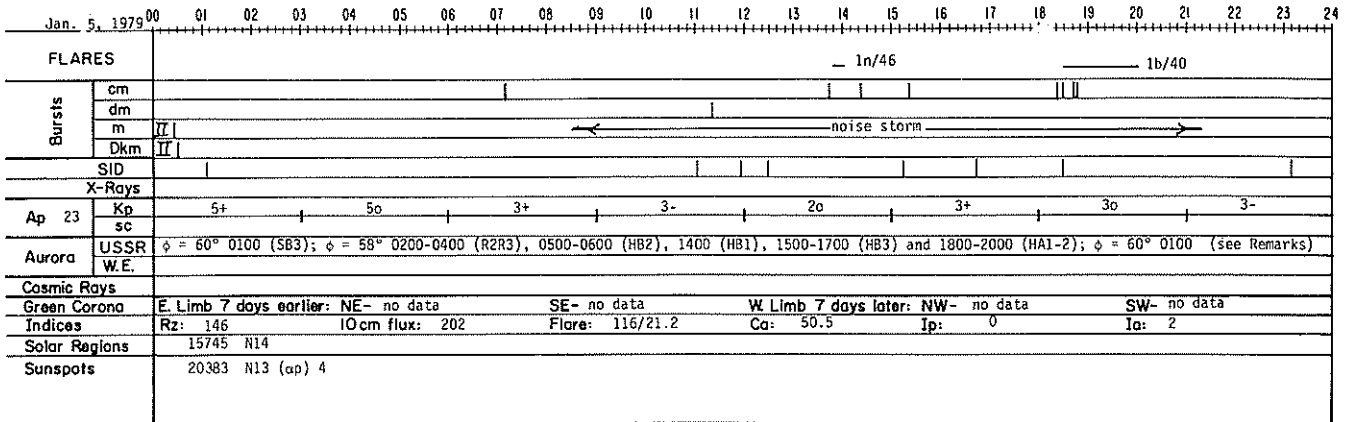


ABBREVIATED CALENDAR RECORD

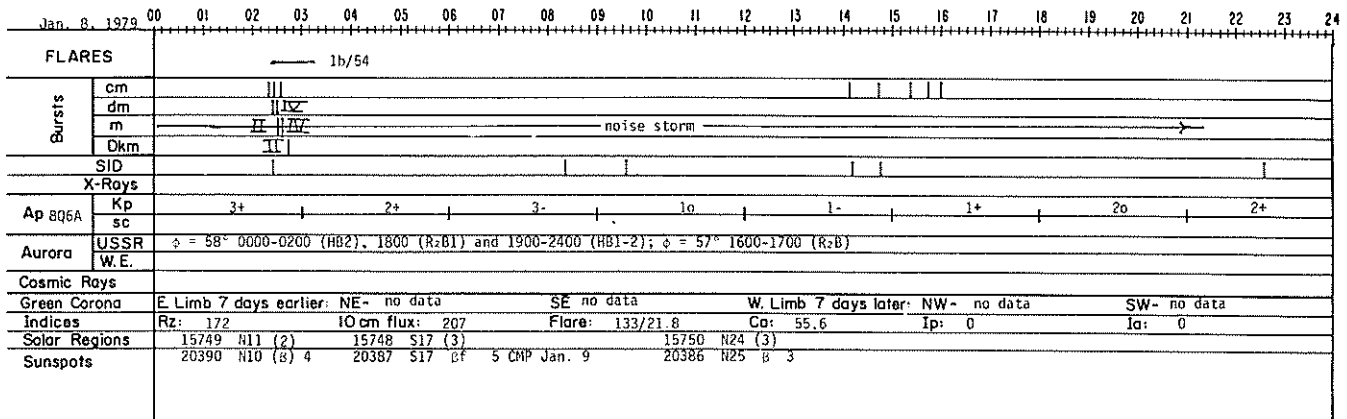
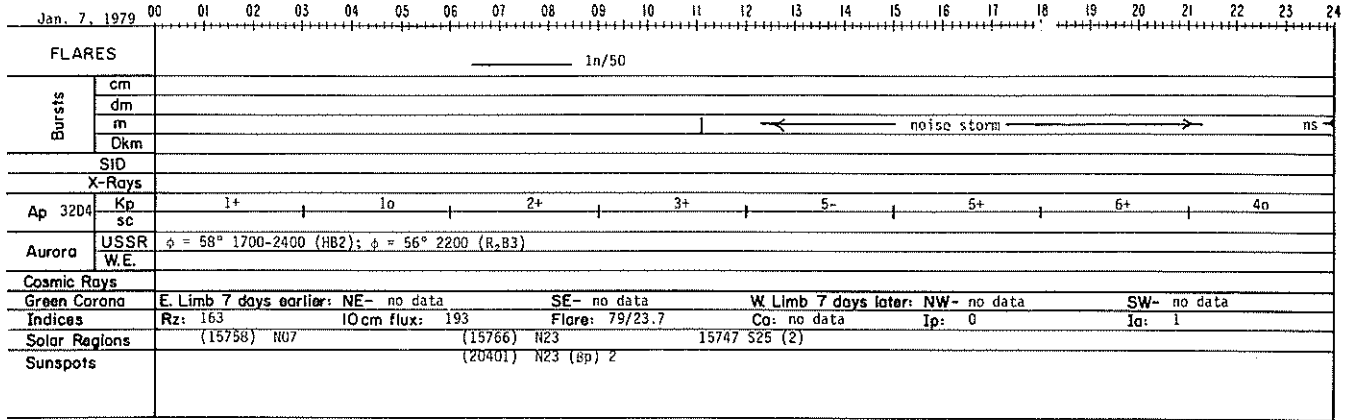
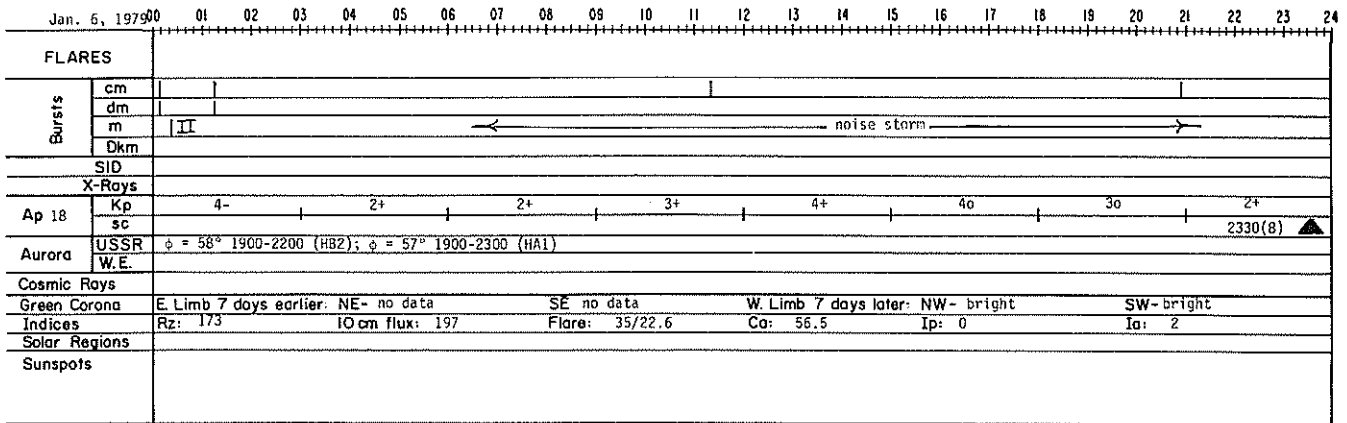
JANUARY 1979

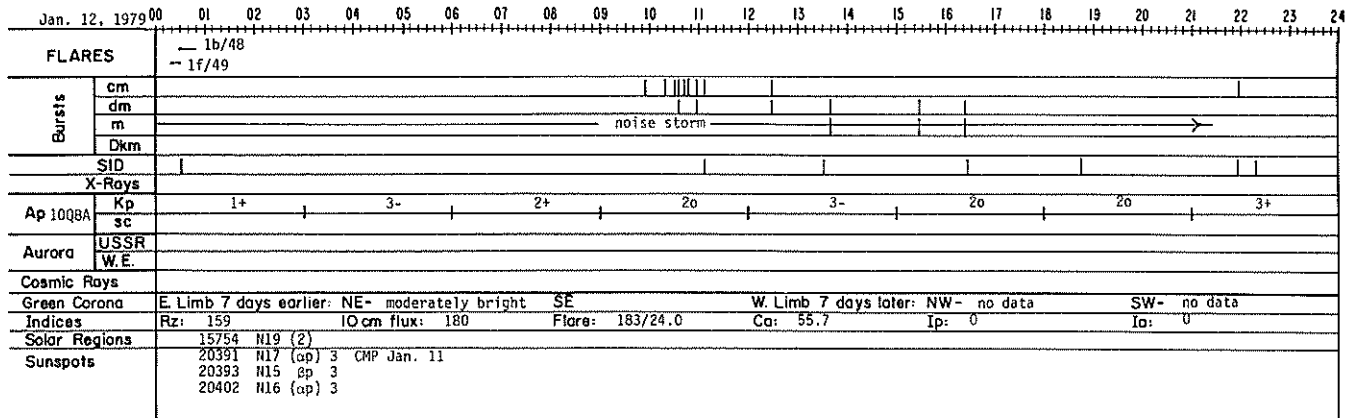
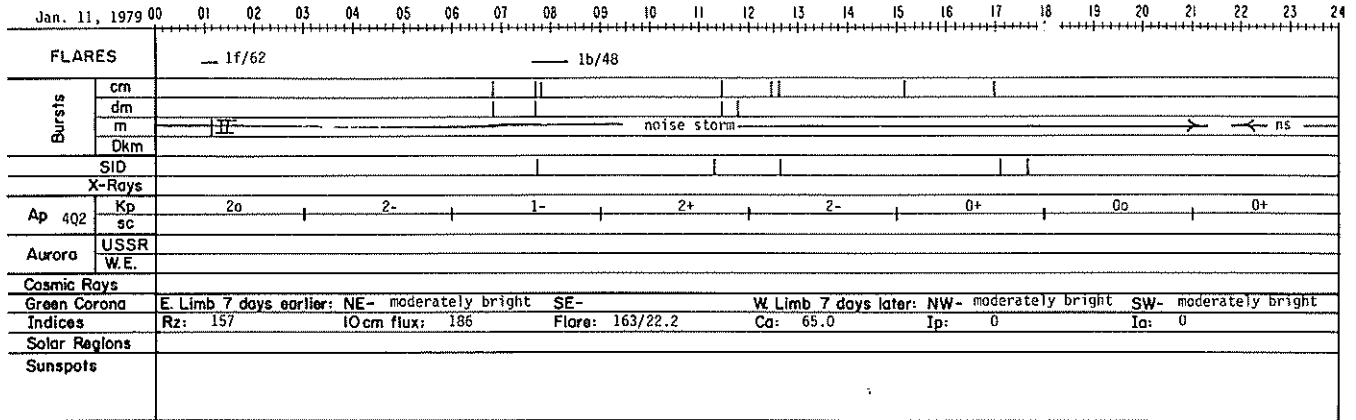
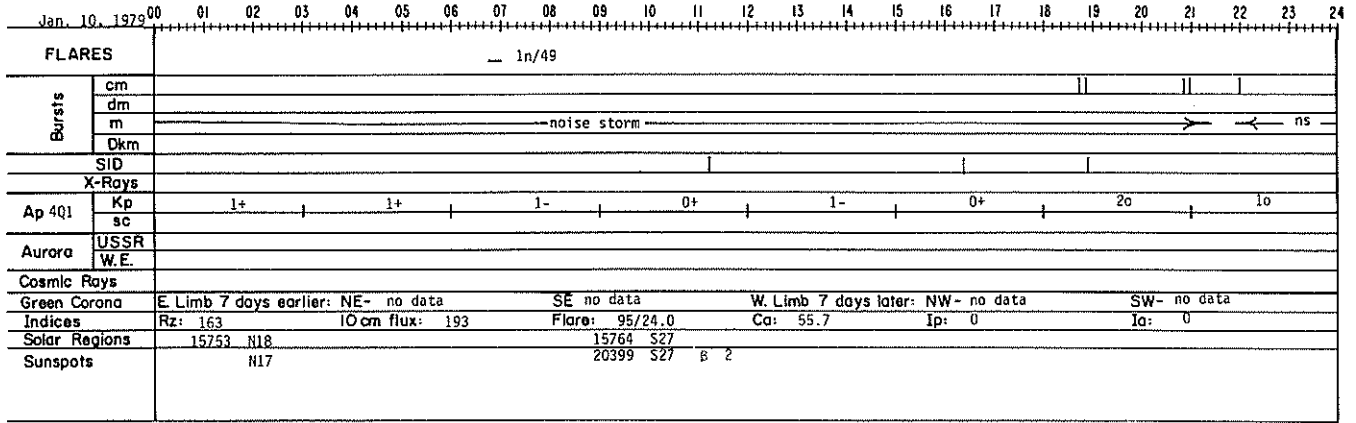
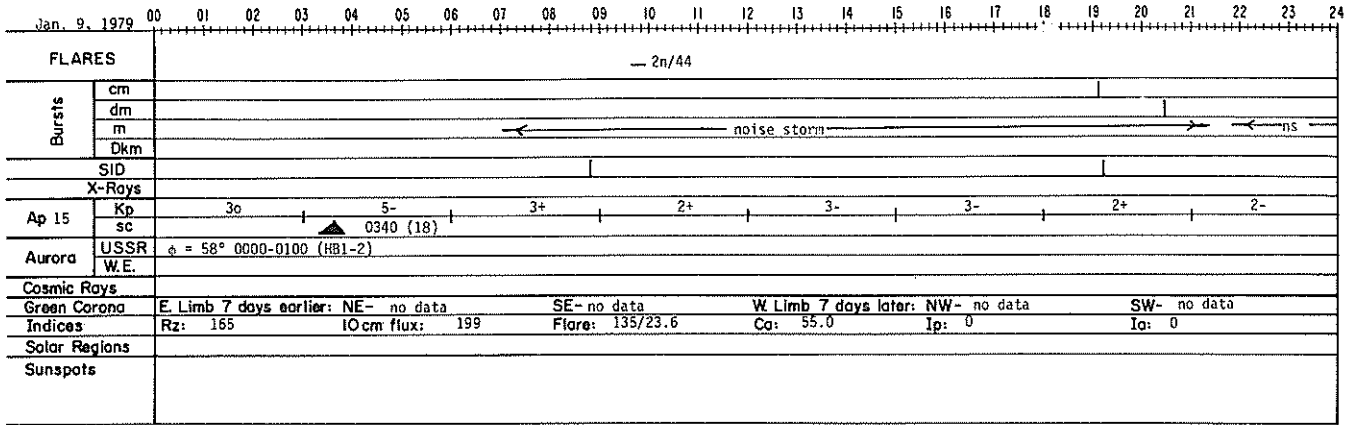


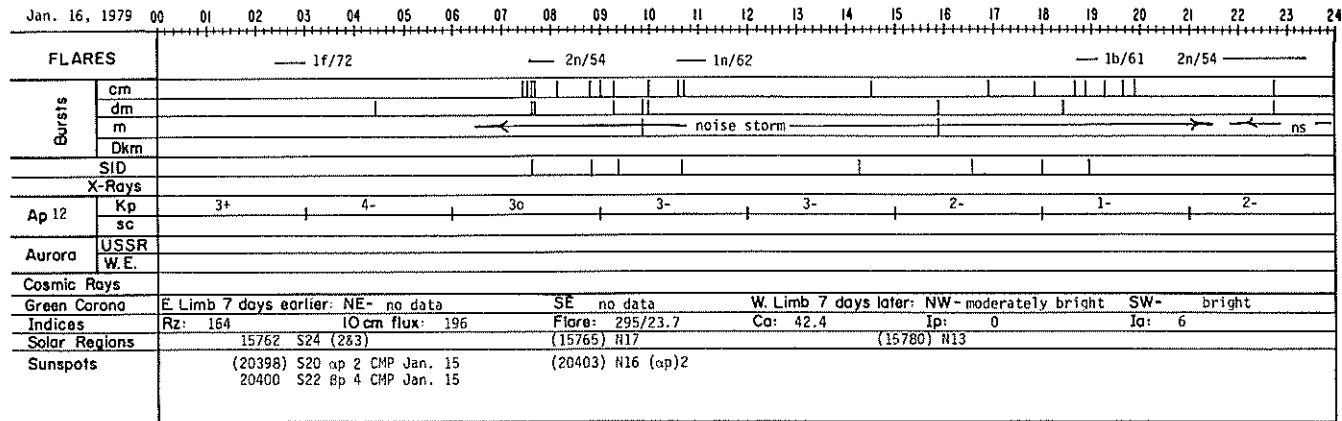
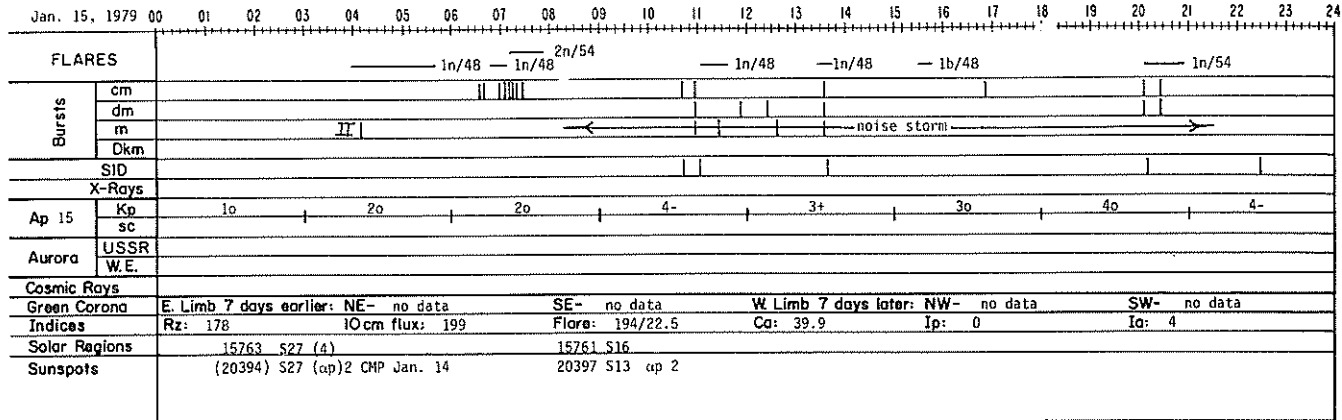
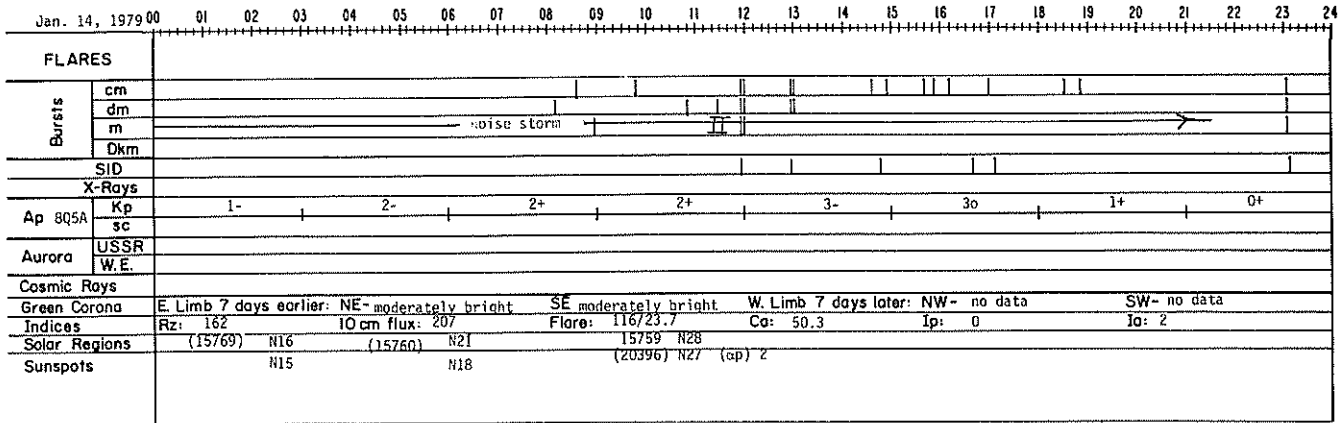
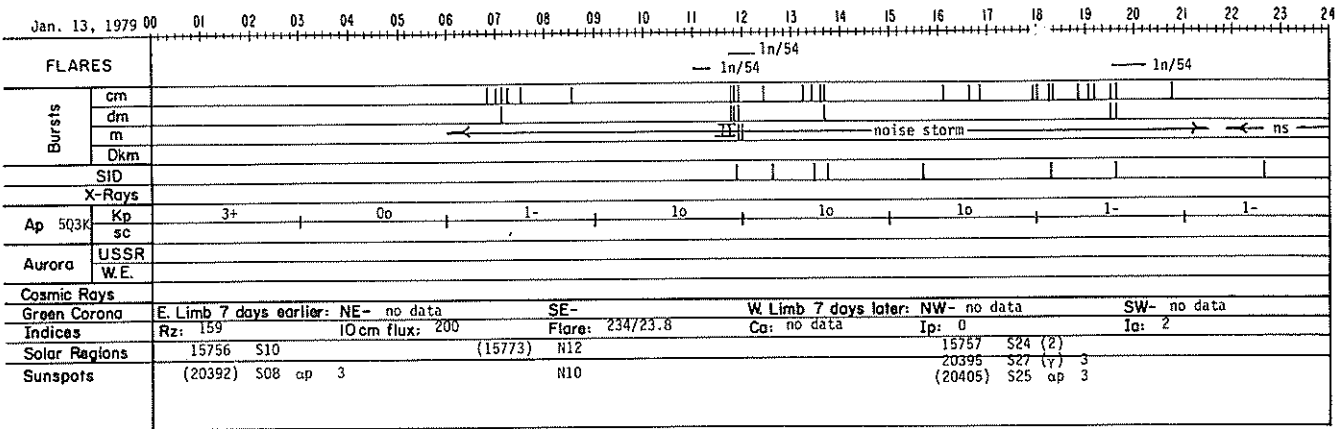
Remarks: Aurora USSR continued: (SA1 and 1900-2400 (HA1-2)



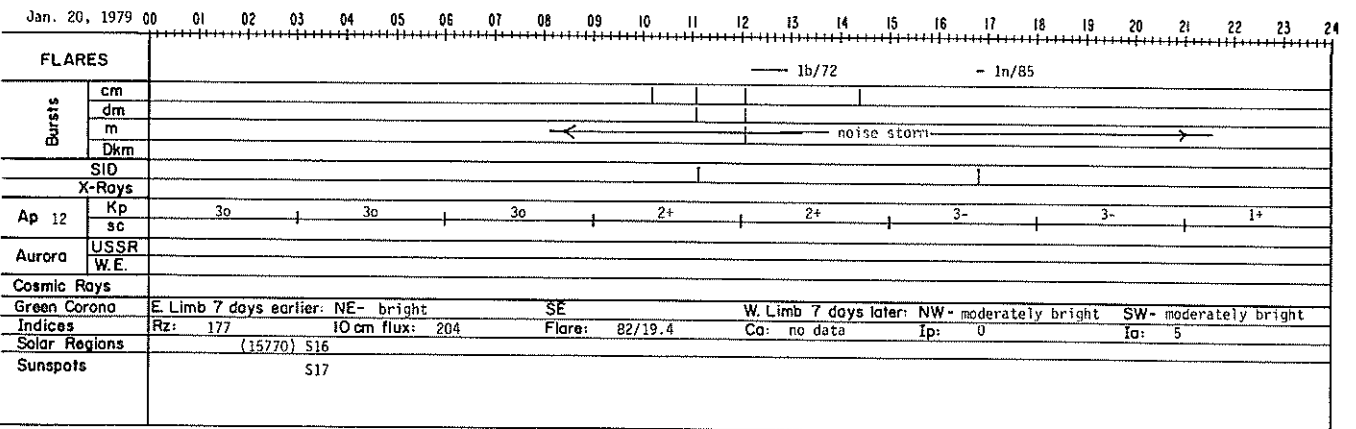
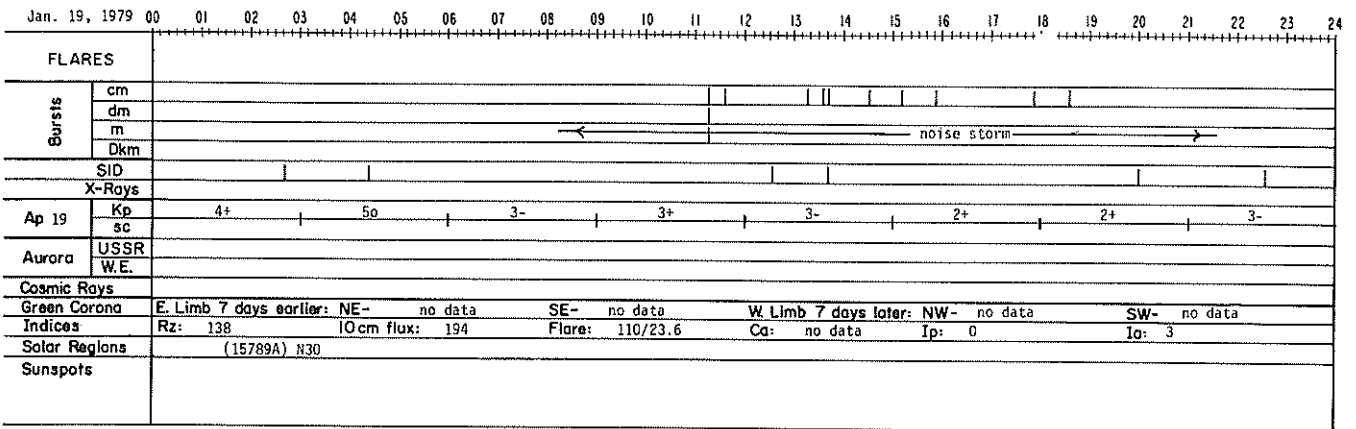
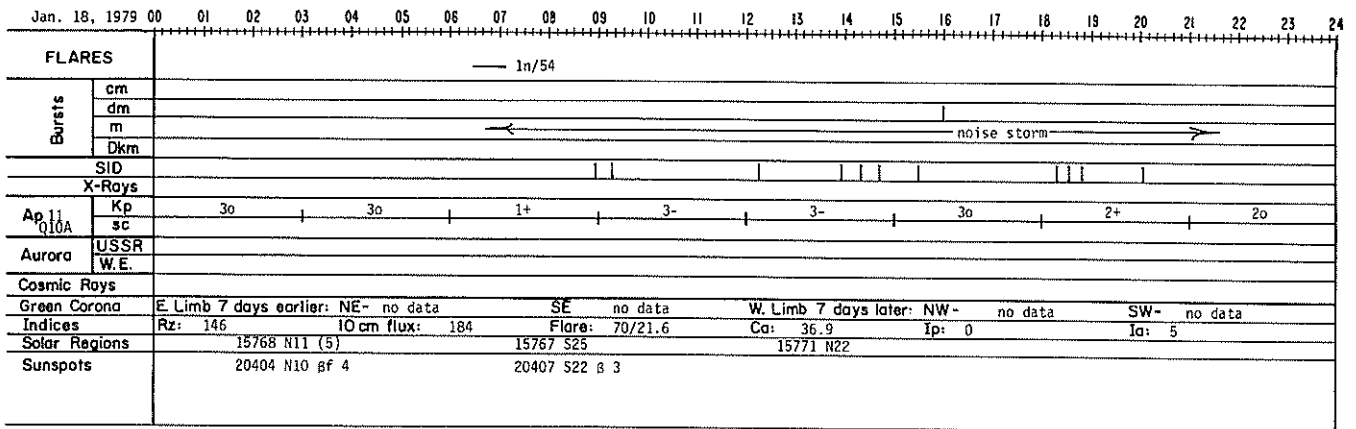
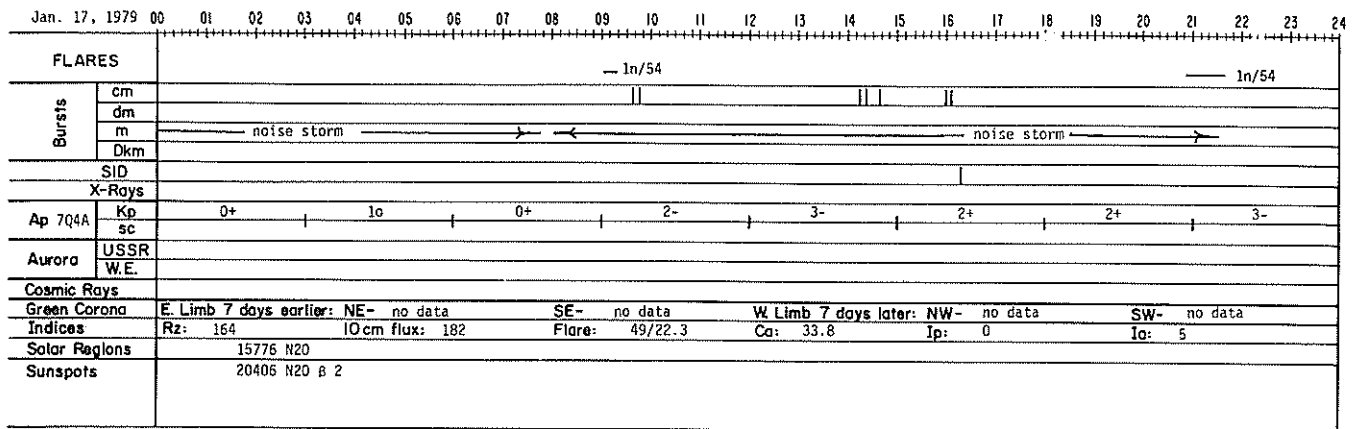
Remarks: Aurora USSR continued: and 2100-2400 (R2R3)

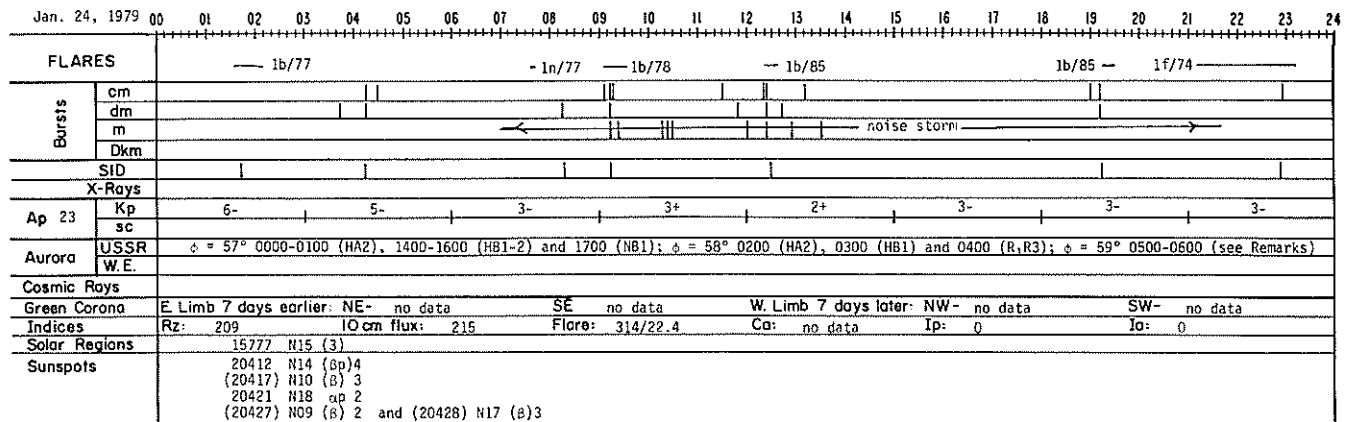
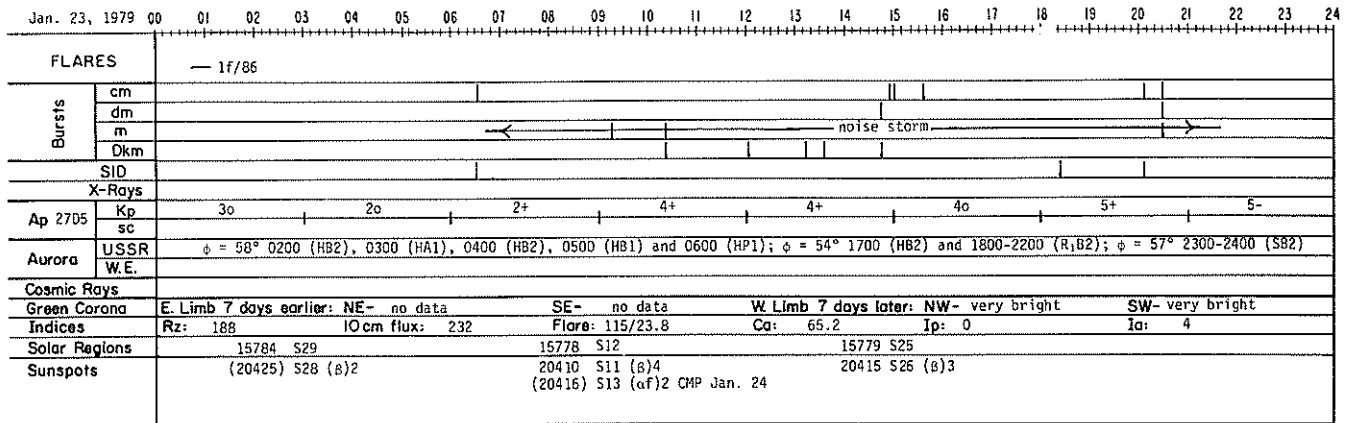
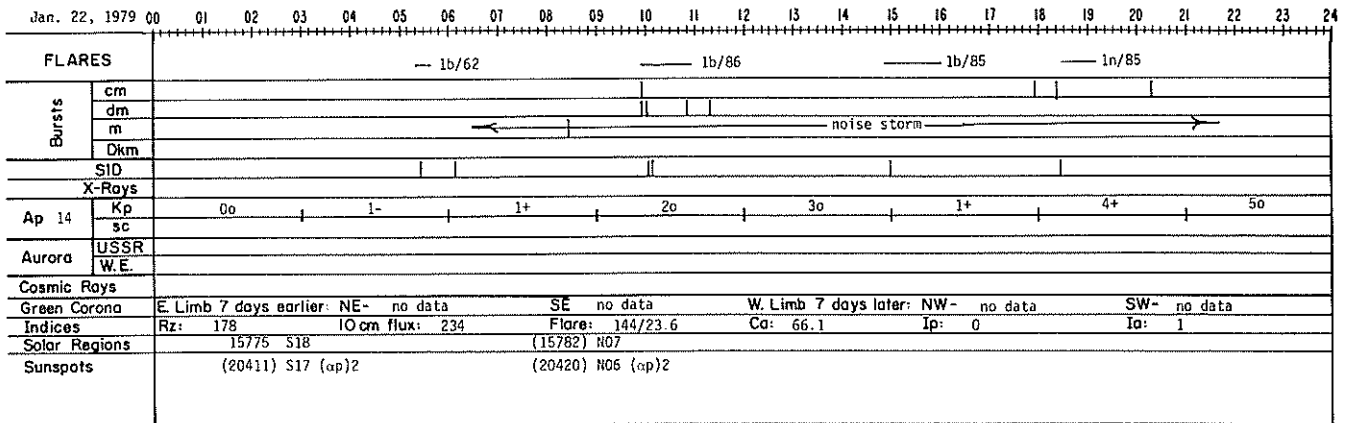
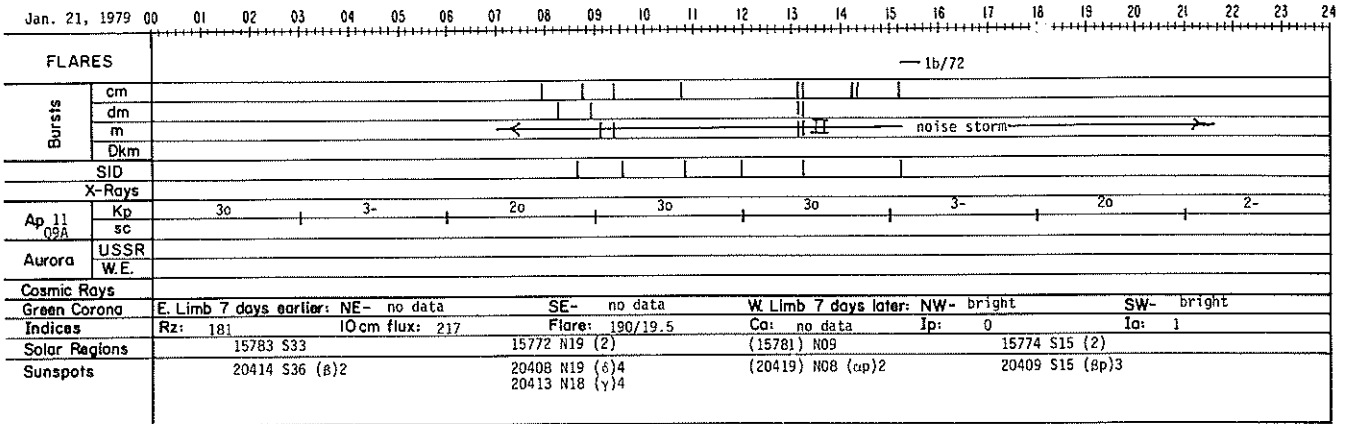




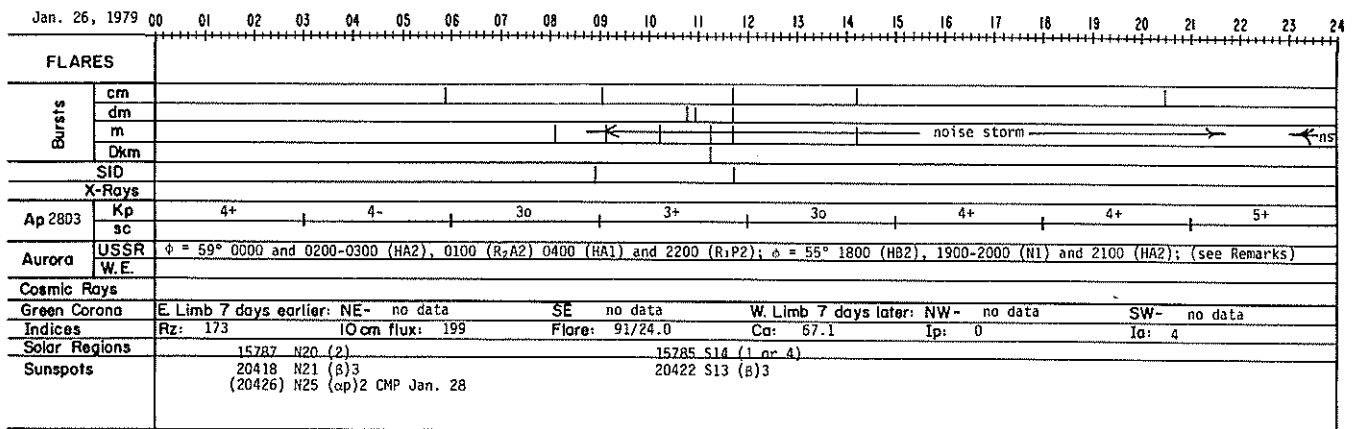
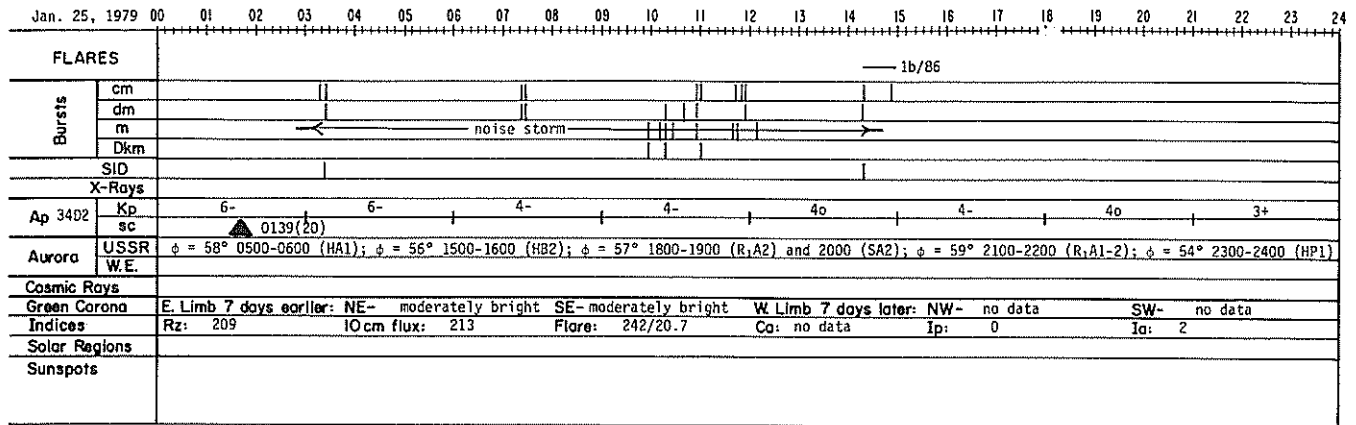


62
Jan 79

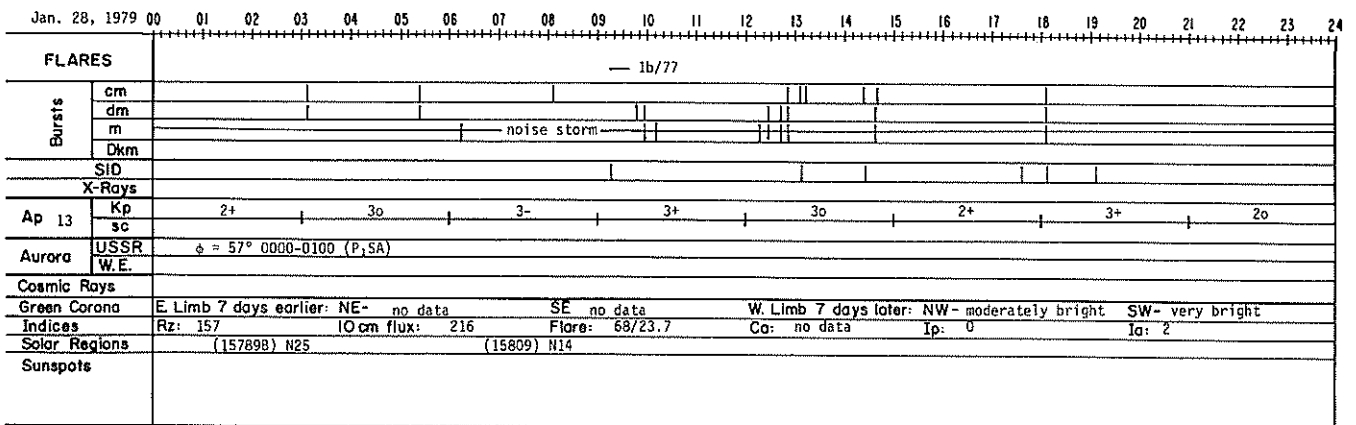
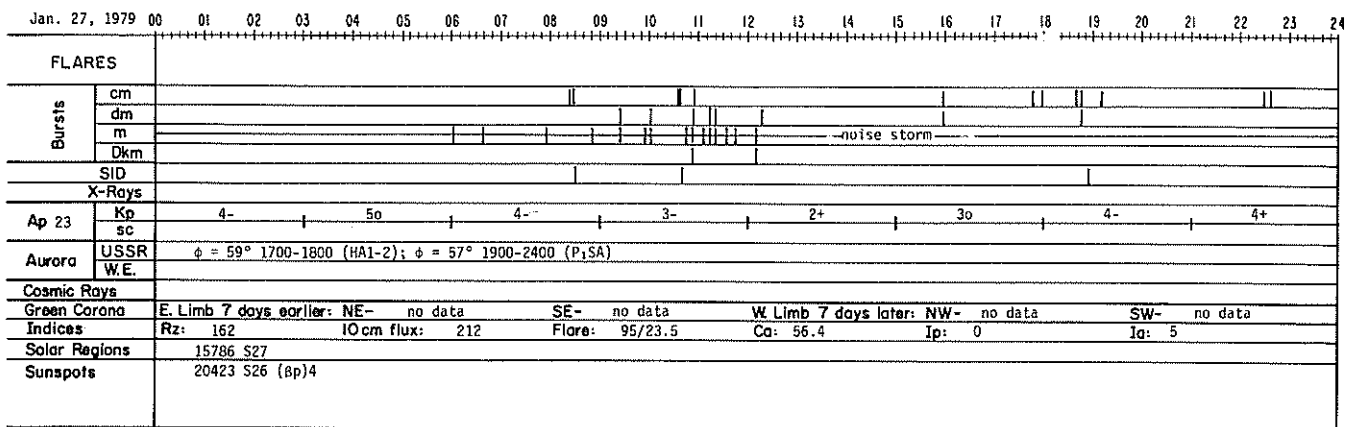


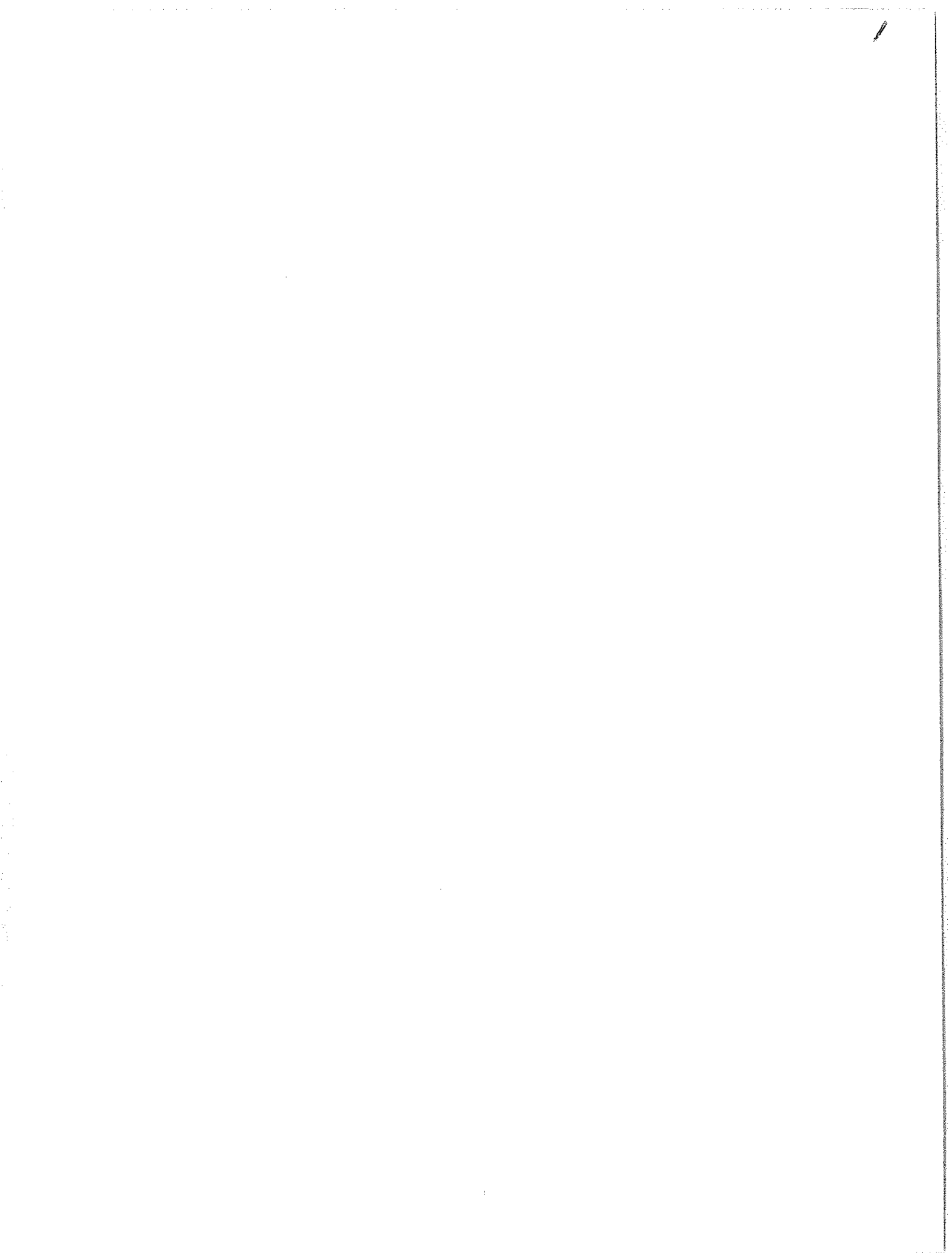


Remarks: Aurora USSR continued: (R1A1-2); $\phi = 56^\circ$ 1800-2100 (HB2) and 2200-2300 (WB1-2).



Remarks: Aurora USSR continued: $\phi = 57^\circ$ 2300-2400 (R₁R1)



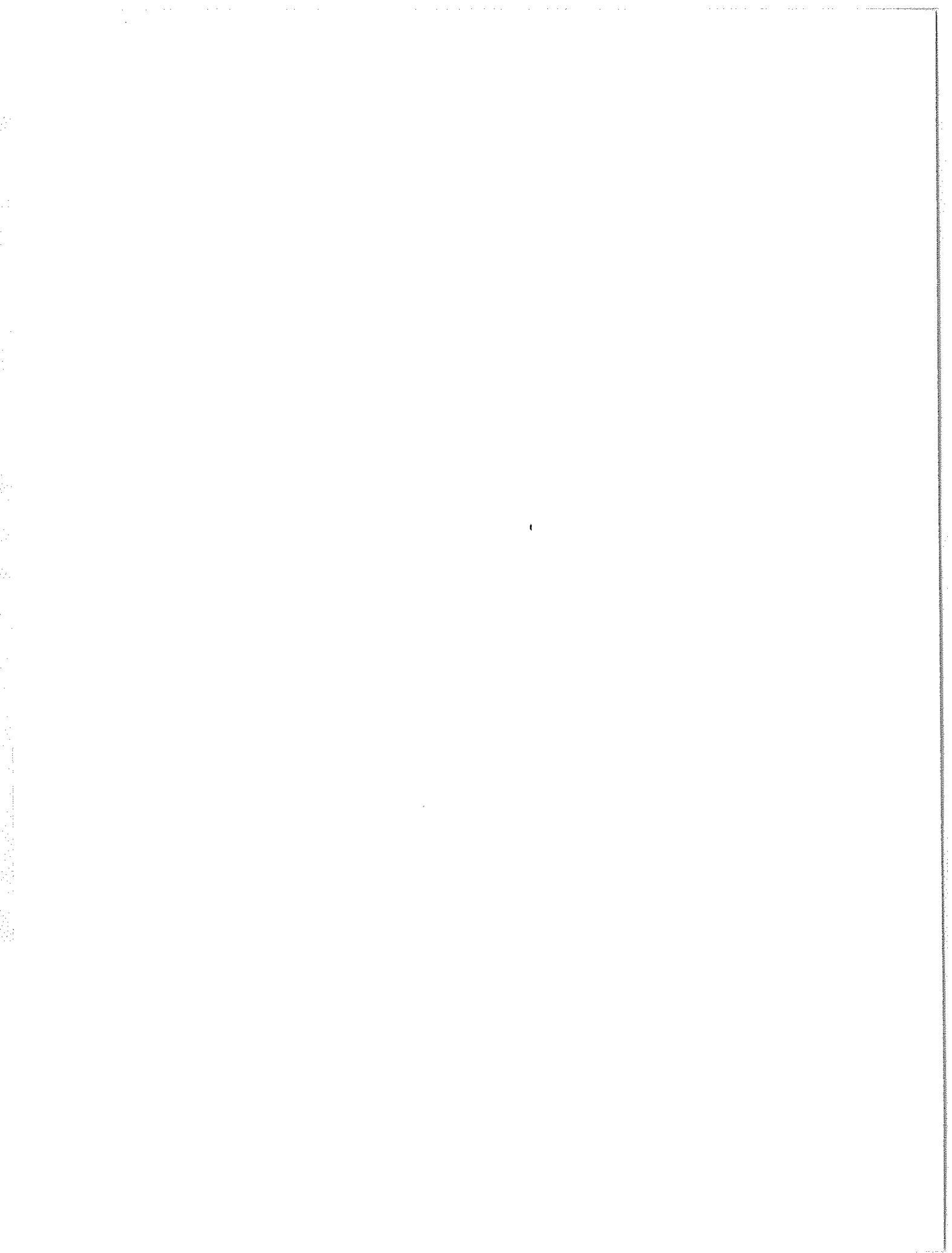


SGD 420 Part II (Comprehensive)

MISCELLANEOUS DATA

Contents

	Page
<u>Solar Radio Emission</u>	
169 MHz Solar Interferometric Chart Nancay for June 1979	69
21 and 43 cm East-West Solar Scans Fleurs for June 1979	70-71
Spectral Observations Fort Davis for April and May 1979	72-77
<u>Cosmic Rays--April and May 1979</u>	
Neutron Monitor Daily Values Alert, Deep River, Climax and Huancayo Chart of Variations	78-79
Alert, Deep River, Climax and Huancayo	80-81
<u>Solar Flares--January 1979</u>	
H α Solar Flares (Standardized Data)	82-118
H α Solar Flares Peking	118-119
Daily Flare Indices	119
Intervals of No Flare Patrol Observation	120
<u>Regional Flare Index--December 1978</u>	121

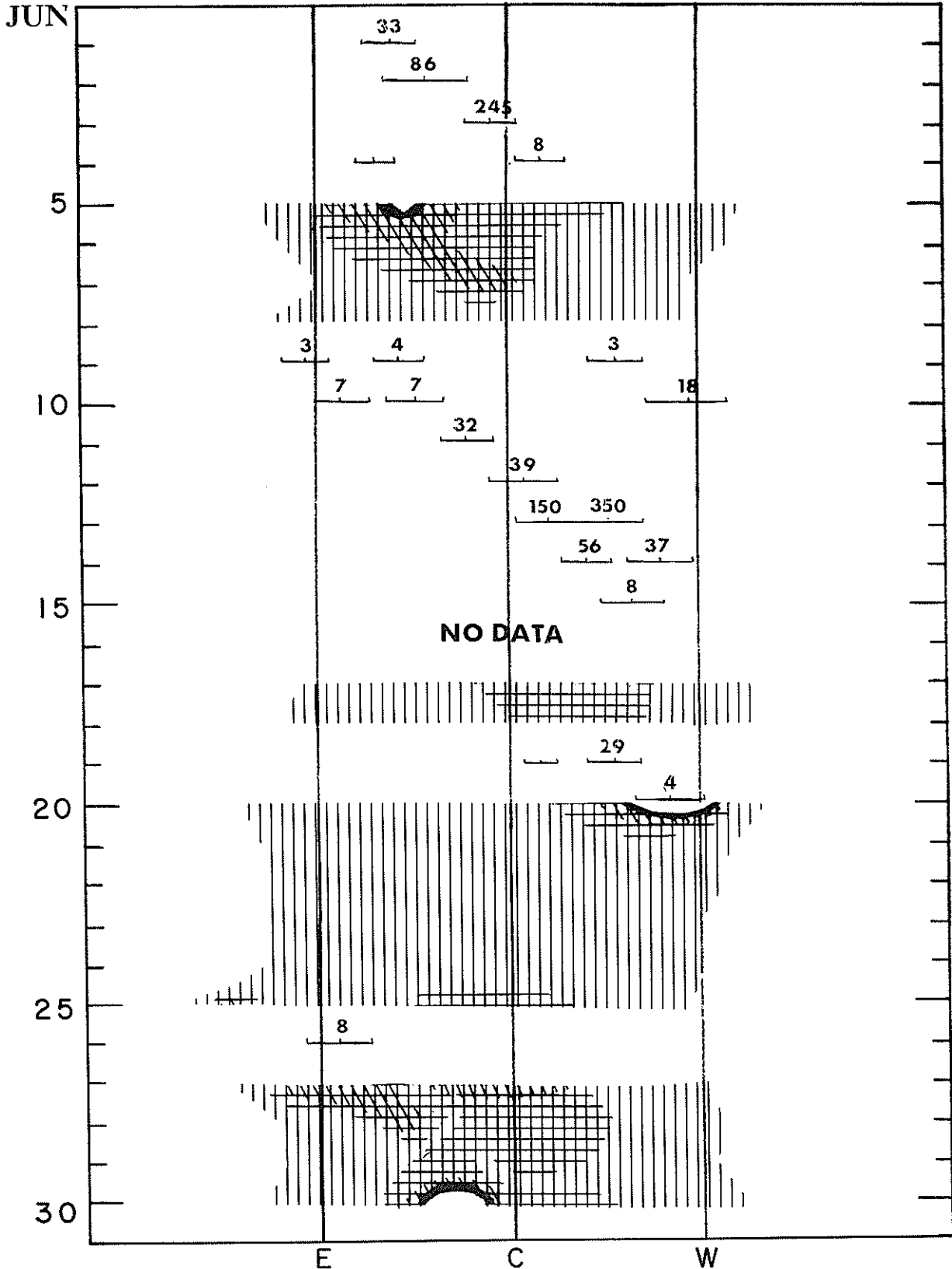


SOLAR RADIO EMISSION INTERFEROMETRIC OBSERVATION

JUNE 1979

Nangay

169 MHz

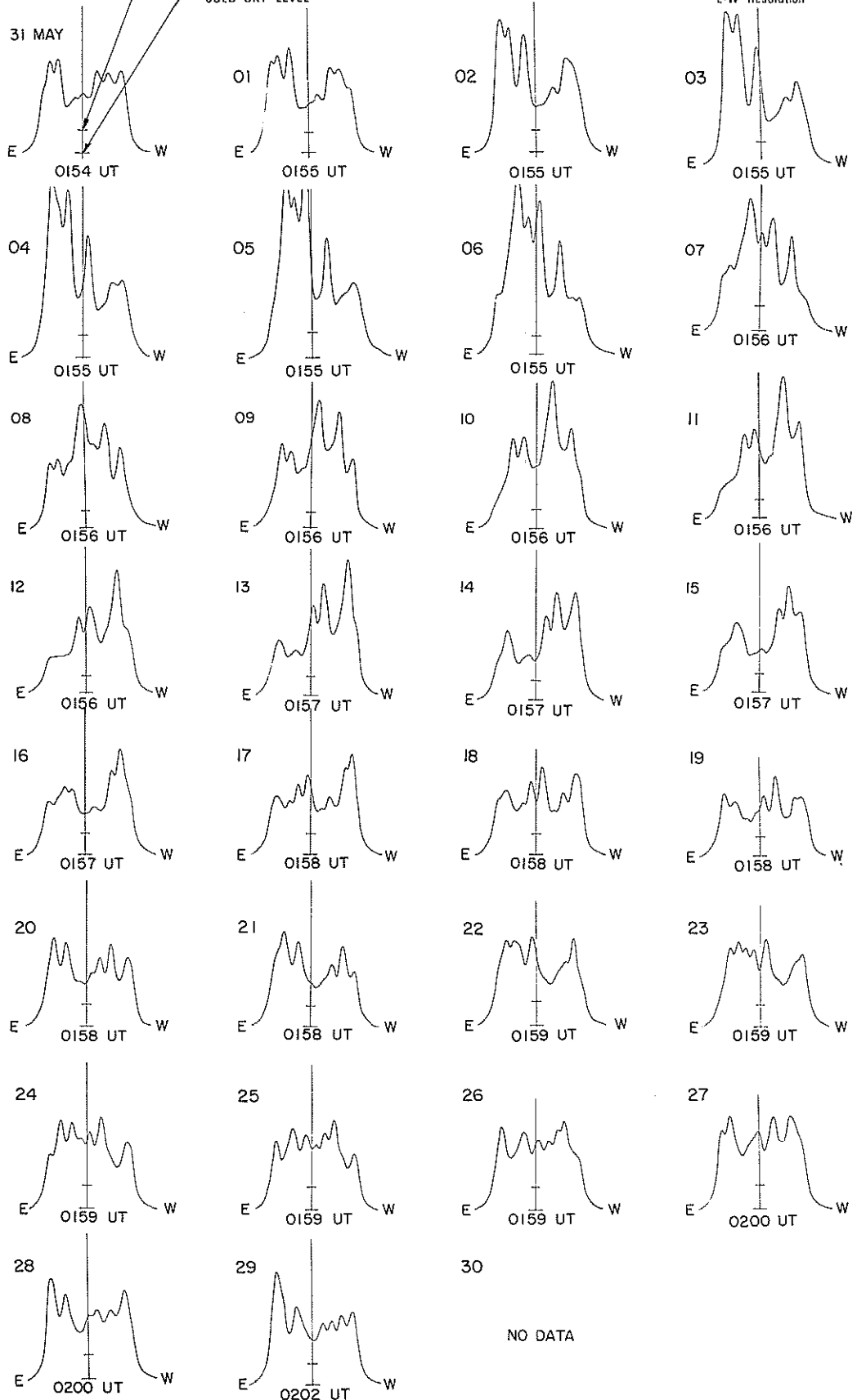


EAST-WEST SOLAR SCANS
JUNE 1979

Fleurs, Australia

ESTIMATED QUIET SUN LEVEL
COLD SKY LEVEL

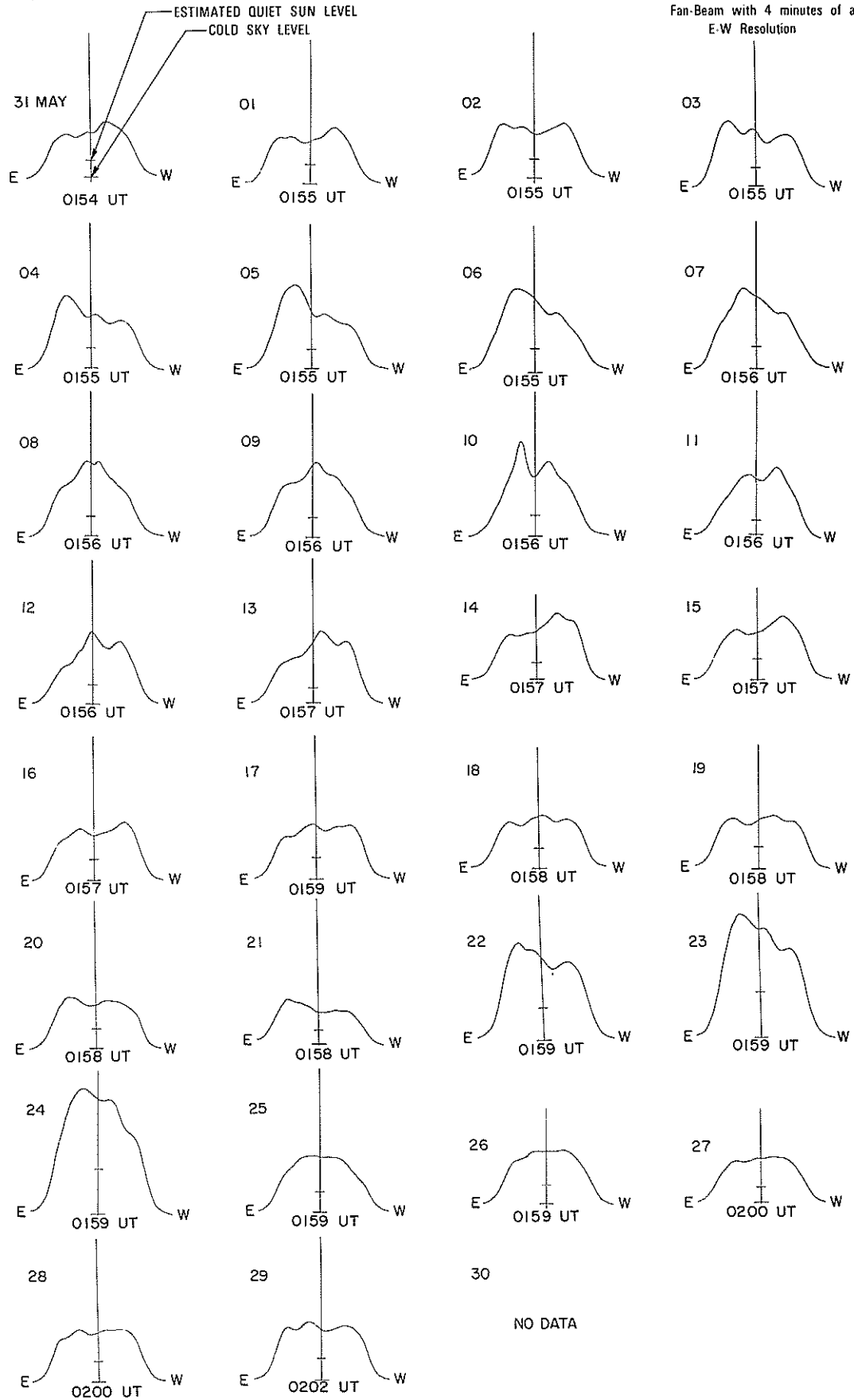
21 cm
Fan-Beam with 2 minutes of arc
E-W Resolution



EAST-WEST SOLAR SCANS
JUNE 1979

Fleurs, Australia

43 cm
Fan-Beam with 4 minutes of arc
E-W Resolution



SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

APRIL 1979

DAY	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT			START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	
15	1315	2345	HARV				1317	1318	3				IIIG
			HARV	2008	2009	2	2008	2011	3	2008	2011	3	IIIGG,V,U
			HARV				2012	2013	2				IIIG
			HARV				2015	2028	3				II
			HARV				2124	2229	1				IN
			HARV				2242		2				IIIG
16	1315	2347	HARV				1609	1609	2				IIIGG
			HARV	1648	1654	3	1643	1654	3	1650	1651	3	IIIGG,V
			HARV				1927		1				IIIG
			HARV				2105	2106	1				IIIG
			HARV	2146		2	2145	2147	3				IIIGG
			HARV	2345	2347	2	2345	2347	3				IIIGG
17	1315	2345	HARV				1417		1				IIIG
			HARV				1443		2				IIIB
			HARV	1635	1637	1	1635	1640	2				IIIGG
			HARV				1833	1833	2				IIIGG
			HARV				2007	2008	1				IIIG,W
			HARV				2110	2112	2				IIIG
18	1315	2345	HARV				1844	1847	3	1846		2	IIIGG,V
			HARV				1951		2				IIIG
			HARV				2009	2012	2				IIIG,U
			HARV				2159	2201	1				IIIG
19	1315	2345	HARV										
20	1315	2345	HARV										
21	1315	2345	HARV										
22	1315	2345	HARV				1932		2	1932		2	IIIG
			HARV				2009	2001	3				IIIG
			HARV				2141		3	2141		3	IIIG
			HARV				2306	2313	1				IIIN
23	1315	2345	HARV				1454		1				IIIB,W
			HARV				2246		1				IIIB
24	1315	2345	HARV										
25	1315	2350	HARV				1553	1554	2	1553		2	IIIG
			HARV				1608	1613	3	1608	1613	3	IIIG
			HARV				1841		1				IIIB
			HARV				1955	1959	3	1955	1959	3	IIIGG
			HARV				2016	2019	2	2016		2	IIIG
			HARV				2130	2256	1				IIIN,W
			HARV	2140	2141	2	2135	2141	3				IIIGG,V
26	1315	2345	HARV				1315	2033	1				IN,W
			HARV				1523		2				IIIG
			HARV				1625		2				IIIB
			HARV				1932	1933	3	1932	1933	3	IIIG,V
			HARV	2002	2003	1	2012	2033	3				IIIG,W
			HARV				2033	2345	2				II
			HARV				2325	2326	2				I
			HARV	2325	2326	2	2325	2326	2				IIIG
27	1315	2345	HARV				1315	2345	1				IN,W
			HARV				1458	1459	1				IIIB
			HARV				1513	1515	2	1513	1515	2	IIIG
			HARV				1926		1				IIIG
			HARV				2017	2022	3	2017	2022	3	IIIGG
			HARV				2228		2				IIIB
			HARV				2323		2				IIIG
28	1315	2345	HARV				1526		2	1526		2	IIIB
			HARV				1610	1613	2	1610	1613	3	IIIG,V

74
Misc
Apr 79

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

APRIL 1979

DAY	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE				
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND							
	START UT	END UT			START UT	END UT	INT	START UT	END UT	INT	START UT	END UT		INT			
28			HARV				1613			2	1619			2	IIIG		
			HARV				1624		1625	2					IIIG		
			HARV				1711			1					IIIB		
			HARV				1740		1741	3	1740		1741	3	IIIG		
			HARV				1744		1751	2	1749		1751	2	IIIGG		
			HARV				1854		1855	2	1854		1855	2	IIIG		
			HARV				1903		1905	3	1903		1904	3	IIIG,V,U		
			HARV				1907		1910	3	1907		1908	3	IIIGG		
			HARV				1934		2027	1	1934		2027	1	IIIN		
			HARV				2031		2033	3	2032		2033	3	IIIGG,V,U		
			HARV				2039		2046	3	2039		2046	3	IIIGG		
			HARV				2157			1					IIIB		
			HARV				2256		2257	1					IIIG		
			HARV				2312		2314	1					IIIG		
29	1315	2245	HARV				1509		2237	1					IIIN		
			HARV	1605			1602		1607	1					IIIG,N		
			HARV	1608		1614	1	1608		1614	2	1611		1614	2	IIIG,N	
			HARV				1610		1612	2						UNCLF	
			HARV				1641			2	1641				2	IIIG	
			HARV				1722		1723	2						IIIG	
			HARV				1930		1932	3	1931					3	IIIG
			HARV				2234		2235	3	2234		2235		2	IIIGG	
30	1315	2245	HARV				1819			1					IIIB,W		
			HARV				2004			2					IIIB		
			HARV	2223		2225	3	2224		2225	1				IIIG		

The symbols used in connection with the spectral type in describing the important bursts are as follows:

B = Single burst
 G = Small group (< 10) of bursts
 GG = Large group (> 10) of bursts
 C = Underlying continuum (particularly with Type I)
 S = Storm in the sense of intermittent but
 apparently connected activity
 N = Intermittent activity in this period
 U = U-shaped burst of Type III

RS = Reverse slope burst
 DP = Drifting pairs
 DC = Drifting Chains
 H = Herringbone
 W = Weak
 P = Pulsations
 CONT = Continuum
 UNCLF = Unclassified activity
 DCIM = Fast drift

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

MAY 1979

DAY	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE	
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND				
	START UT	END UT		START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	INT		
01	1315	2245	HARV				1557		2	1557		1	IIIB	
			HARV				1600		2	1608		3	IIIG	
			HARV				1622	1623	2	1622	1623	3	IIIG	
			HARV				1631	1632	2	1631	1632	3	IIIG	
			HARV				1701	1717	2					IIIN
			HARV				1728	1753	1					IN,W
			HARV				1818	1819	1	1818	1819	2		IIIG
			HARV				2053		1					
02	1250	2250	HARV				1324	1329	2	1329		2	IIIG	
			HARV				1452		3	1452		2	IIIG	
			HARV				1623		1	1623		1	IIIG	
			HARV				1629	1631	1	1629		1	IIIG	
			HARV				1652	1653	1					U
			HARV				1656	1658	3	1656	1658	3		IIIG,V
			HARV	1658	1659	1								IIIG,RS
			HARV				1659	1725	3	1765	1723	3	II	
			HARV				1729	1730	1					UNCLF
			HARV	1925	1926	3	1925	1926	3					IIIG
HARV				2116	2117	2	2016	2017	2		IIIG			
03	1245	2245	HARV				1350	1457	1				IN,W	
			HARV				1355		1				IIIB,W	
04	1245	2255	HARV				1530	1531	2	1530	1531	2	IIIG	
			HARV				1852	1853	2				IIIB	
			HARV				1902	2050	1				IN,W	
			HARV				2033	2034	2	2033		2	IIIG,V	
			HARV	2134		3								
05	1245	2245	HARV	1739	1740				2				IIIG	
			HARV	2024					1				IIIG	
			HARV	2030	2031				2				IIIG	
06	1245	2245	HARV				1543	1545	1	1543	1545	1	IIIG	
07	1245	2250	HARV											
08	1245	2300	HARV				1444	1445	2				IIIG	
			HARV				1516		1				IIIB,W	
			HARV				1753		2	1753		2	IIIG	
			HARV				1849	1855	2	1849	1855	3	IIIG	
09	1245	2245	HARV				1552		2	1552		2	IIIB	
			HARV				1600		2	1600		3	IIIB	
			HARV				1620	1623	2	1620		3	IIIG	
			HARV				1631	1646	2	1631	1635	2	IIIN	
			HARV				1707		3	1707		3	IIIG	
			HARV				1719	1727	1	1719	1727	1	IIIN	
			HARV				1734	1737	2	1734	1737	2	IIIG,U	
			HARV				1803		1					IIIB,W
			HARV				1829		3	1829		2	IIIG	
			HARV				1945		2	1945		1	IIIG	
			HARV				2053		1					IIIB,W
			HARV				2216		1					IIIG
			10	1245	2245	HARV				1629		1		
11	1245	2245	HARV											
12	1245	2245	HARV				1255	1256	2				IIIG	
			HARV				1334		2				IIIB	
			HARV				1644		2				IIIG	
			HARV				1722		3				IIIG	
			HARV				2152		1				IIIG	
13	1245	2245	HARV				1643	1645	1				IIIG,W	
			HARV				2058	2059	1	2058	2059	1	IIIG	
14	1245	2245	HARV				1420		3	1420		3	IIIG,U	

76
Misc
May 79

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

MAY 1979

DAY	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		INT	START UT	END UT	INT	START UT	END UT	INT			
14			HARV				1920	1923	2				IIIG
15	1245	2245	HARV HARV				1612 1900	1613	1 2	1612	1613	2	IIIG IIIB
16	1245	2245	HARV				1823	1832	1	1828	1831	1	IIIGG
17	1340	2245	HARV										
18	1310	2245	HARV										
19	1241	2245	HARV HARV				1715 1934	1716 1935	2 1				IIIG IIIG
20	1230	2245	HARV HARV HARV				1315 1635 1746		1 2 2	1635 1746	1637 1750	3 2	IIIB IIIGG IIIGG
21	1233	2245	HARV HARV				1449 1520		1 2				IIIB,W IIIB
22	1230	2245	HARV										
23	1230	2245	HARV				1951		1				IIIG
24	1230	2245	HARV HARV HARV HARV HARV HARV HARV				1531 1617 1708 1802 1907 1932 2032	1532 1618 1709	1 1 3 3 2 2 1	1708 1802 1907 2038	1709	3	IIIG,W IIIG IIIG IIIG IIIG IIIB IIIG,W
25	1230	2245	HARV HARV HARV				1723 2137 2207	1724 2138	2 2 3	2137 2208	2136	2 3	IIIG IIIG IIIGG,V
26	1230	2245	HARV HARV HARV HARV				1243 1736 1954 2203	1245 1737	3 2 1 1				IIIG III,V IIIB,W IIIG,W
27	1230	2245	HARV				1741		1				IIIG
28	1230	2245	HARV HARV HARV HARV HARV HARV HARV HARV				1345 1503 1523 1733 1816 1828 1914 2056	1505 1528 1737	1 1 3 2 3 3 1 2	1523 1733 1816 1828 1914 2056	1528 1737	3 2 3 3 3 1 2	IIIB IIIG IIIGG IIIG IIIG IIIG IIIB IIIG
29	1230	2245	HARV HARV HARV HARV HARV HARV HARV HARV HARV HARV HARV HARV HARV HARV HARV				1409 1416 1444 1453 1735 1745 1752 1801 1916 1928 1947 1956 2006 2024 2033 2110 2124	1445 1455 1737	2 2 2 3 2 2 3 3 2 1 2 3 3 2 1 2 3	1416 1736 1745 1752 1801 1916 1922 1947 1956 2006 2024	1748 1748 1755 1803 1922 1948 2000 2008	3 3 3 3 2 2 3 3 2 3 3 3	IIIB IIIB IIIG IIIGG IIIGG IIIGG IIIG IIIGG IIIN IIIG IIIG,V IIIG IIIB IIIG IIIGG IIIGG

SOLAR RADIO EMISSION SPECTRAL OBSERVATIONS

MAY 1979

DAY	TIMES OF OBSERVATION		STATION	EVENTS									SPECTRAL TYPE
				DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT			START UT	END UT	INT	START UT	END UT	INT	START UT	END UT	
29			HARV				2145	2200	1				IIIN
30	1230	2245	HARV				1339		1				IIIB,W
			HARV				1833		2	1833		2	IIIB
31	1230	2245	HARV				1610	2100	1	1610	2100	1	I,IIIN

The symbols used in connection with the spectral type in describing the important bursts are as follows:

- | | |
|--|--|
| <ul style="list-style-type: none"> B = Single burst G = Small group (< 10) of bursts GG = Large group (> 10) of bursts C = Underlying continuum (particularly with Type I) S = Storm in the sense of intermittent but apparently connected activity N = Intermittent activity in this period U = U-shaped burst of Type III | <ul style="list-style-type: none"> RS = Reverse slope burst DP = Drifting pairs DC = Drifting Chains H = Herringbone W = Weak P = Pulsations CONT = Continuum UNCLF = Unclassified activity DCIM = Fast drift |
|--|--|

COSMIC RAY INDICES
(Neutron Monitors)
 April-May 1979

Apr 1979	ALERT	DEEP RIVER	May 1979	ALERT	DEEP RIVER
	Average (cts/h)/100	Average (cts/h)/300		Average (cts/h)/100	Average (cts/h)/300
1	7230.0	6736.2	1	6956.1	6608.8
2	7163.5	6689.1	2	7023.0	6650.3
3	7099.4	6659.9	3	7042.3	6686.0
4	7087.9	6627.4	4	7114.8	6720.7
5	6995.0	6558.4	5	7130.0	6781.3
6	7027.9	6596.7	6	7081.0	6718.2
7	7064.2	6636.5	7	7066.8	6692.8
8	7070.3	6665.6	8	7100.4	6696.8
9	7131.8	6710.0	9	7079.3	6674.6
10	7116.3	6690.9	10	7042.4	6653.5
11	7090.9	6717.4	11	7003.9	6635.5
12	7160.2	6748.0	12	7032.4	6630.3
13	7166.1	6739.1	13	7048.2	6655.0
14	7112.1	6716.6	14	7021.0	6657.3
15	7101.9	6731.8	15	6997.8	6618.2
16	7042.3	6664.6	16	6994.6	6611.4
17	7027.5	6608.5	17	6965.2	6616.6
18	7046.0	6616.6	18	6992.8	6624.6
19	7083.7	6642.6	19	6943.4	6562.1
20	7132.8	6670.3	20	6893.5	6526.8
21	7122.6	6662.3	21	6862.7	6488.4
22	7073.8	6620.5	22	6822.5	6446.0
23	6981.3	6578.9	23	6807.5	6412.5
24	7001.5	6567.3	24	6798.8	6418.7
25	7049.6	6615.7	25	6803.9	6436.8
26	7077.8	6647.6	26	6840.6	6461.8
27	7071.3	6665.8	27	6859.7	6475.7
28	7028.5	6606.7	28	6855.5	6470.0
29	6854.5	6413.5	29	6840.3	6476.7
30	6796.3	6400.0	30	6751.4	6402.3
31	6869.1	6451.5	31	6777.3	6379.4
MEAN	7060.5	6634.0		6953.2	6577.1

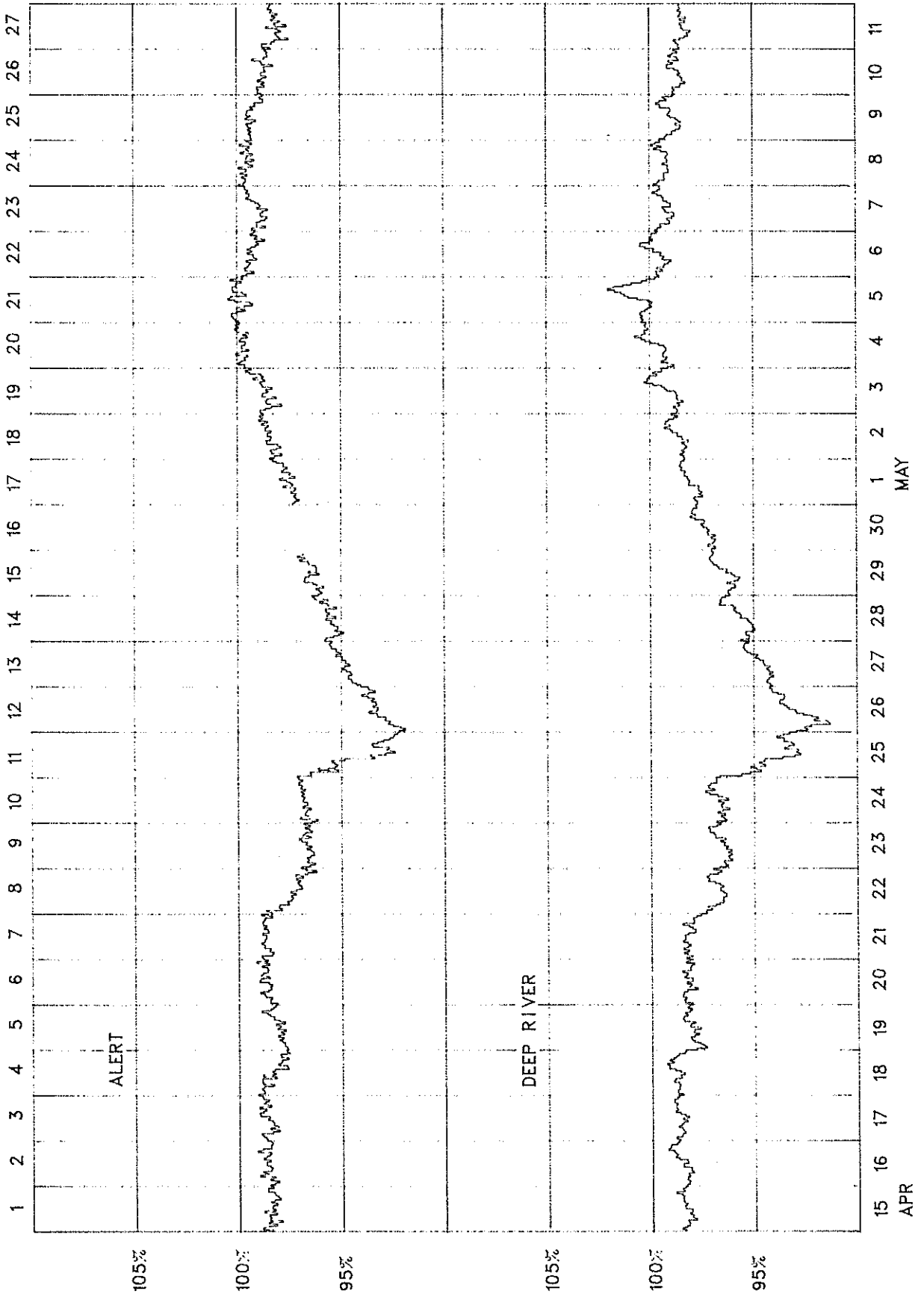
COSMIC RAY INDICES
(Neutron Monitors)
APRIL - MAY 1979

Apr 1979	CLIMAX	HUANCAYO	May 1979	CLIMAX	HUANCAYO
	Average (cts/h)/100	Average (cts/h)/100		Average (cts/h)/100	Average (cts/h)/100
1	3930.0	1722.7	1	3955.3	1726.6
2	3955.0	1722.6(36)	2	3986.4(30)	1734.6
3	3906.6	1718.4	3	---- (00)	1738.0
4	3902.8	1715.7	4	4026.6	1744.1
5	3791.6	1687.1	5	4059.3	1751.0
6	3747.5	1685.5	6	4008.8	1738.6
7	3779.1	1687.6	7	4002.5	1737.3(38)
8	3813.8	1702.5	8	4015.8	1742.7
9	3825.0	1702.5(38)	9	4022.3	1734.5
10	3864.7	1705.3	10	3984.1	1723.6
11	3914.2	1714.5	11	3971.0	1718.8
12	3958.1	1712.1	12	3961.0	1719.9
13	3945.6	1708.7	13	3973.0	1723.5
14	3956.2	1714.8(34)	14	3963.8	1725.8(38)
15	3952.0	1715.0	15	3935.3	1723.3
16	3958.8	1719.1(38)	16	3926.5	1718.3
17	3957.0	1721.2	17	3933.2	1718.8
18	3962.5	1720.5	18	3924.1	1722.6
19	3916.2	1722.3	19	3917.3	1716.0
20	3927.0	1726.8	20	3888.1	1705.6
21	3933.5	1726.9	21	3858.4	1699.9(38)
22	3910.4	1715.9	22	3829.8	1696.3
23	3879.4	1709.7	23	3798.4	1693.0
24	3887.7	1711.3	24	3811.3	1693.0
25	3801.9	1697.1	25	3816.2	1695.1
26	3763.6	1687.5	26	3844.4	1701.0
27	3811.5	1698.4	27	3850.4	1702.0
28	3855.5	1707.3	28	3852.5	1701.2(36)
29	3894.8	1712.5	29	3845.2	1708.4
30	3927.9	1724.8	30	3781.3	1706.0
31			31	3792.9	1704.9
MEAN	3887.4	1710.4		3916.8	1718.2

Parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

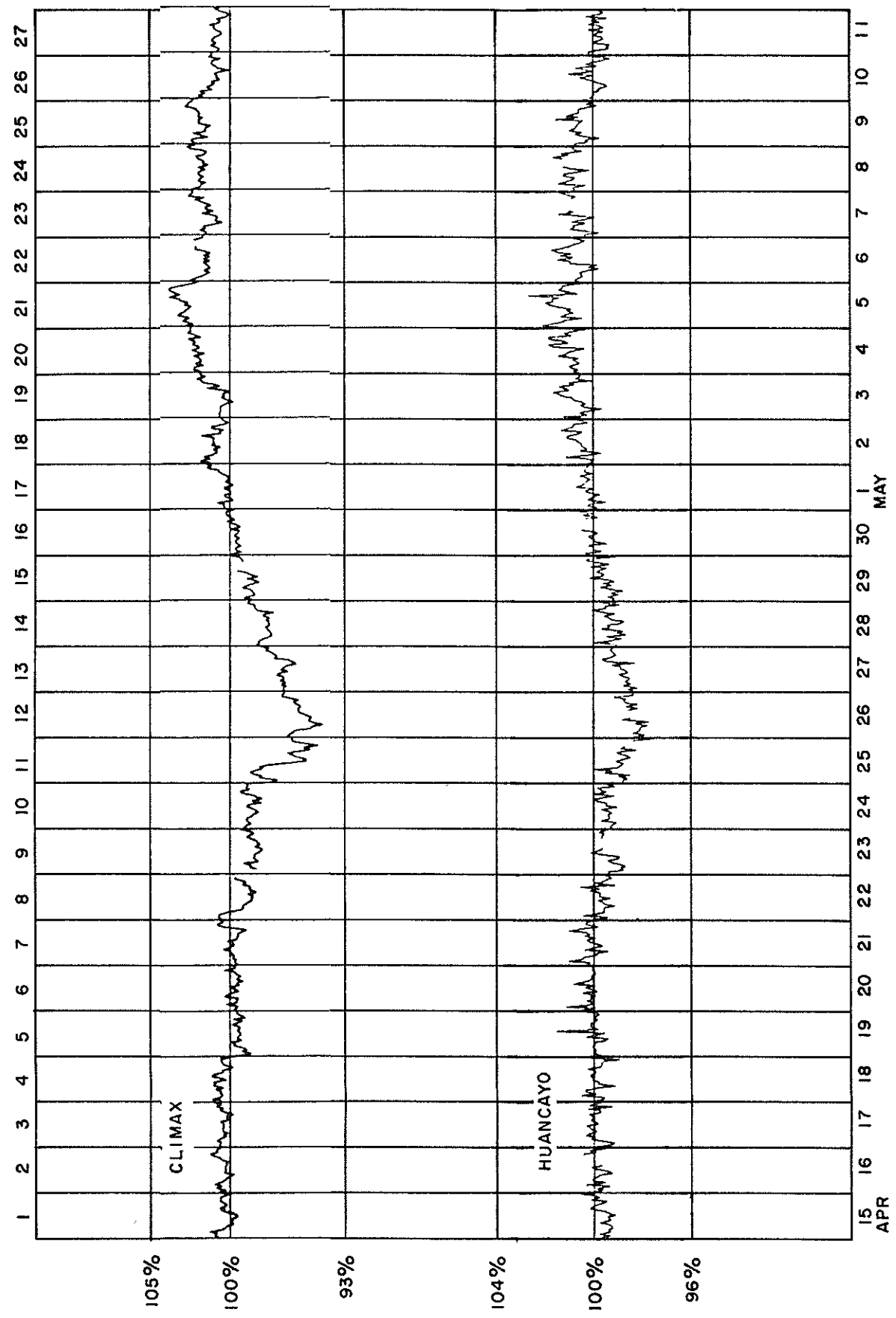
COSMIC RAY INDICES
(Neutron Monitor)

Bartels Rotation 1992 (April 1979-May 1979)



COSMIC RAY INDICES (Neutron Monitors)

Bartels Rotation 1992 (April - May 1979)



H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mil. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST											
GRP70960	02	0336	0339+3	0349D	S32	W17	.545	15739	31.9	13	-N					J	
VORO	02	0336	0339	0349	S33	W22	.592	15739	31.5	13	1F	C	0339	179	2.2	EJ	
CULG	02	0339E	0342	0425	S32	W13	.520	15739	1.2	46D	-N	P	0342	150	1.9	F	
961 CULG	02	0339E	0339E	0406	N12	E40	.676	15745	5.2	27D	-F	P	0339	30	.4	Y5	
962 CULG	02	0340	0351	0411	N12	W61	.887	15726	28.6	31	-F	C	0351	70	1.5	Y5	
963 CULG	02	0629	0639U	0651	S34	W03	.515	15739	2.0	22	-F	C	0639	50	.6	F Y5	
964 CULG	02	0709	0713	0732	S33	W07	.509	15739	1.8	23	-N	C	0713	50	.6	Y5	
965 CATA	02	0725E	0730	0735	S12	E35	.585	0	4.9	10D	-F	1 P	0730	140	1.5	Y5	
966 CULG	02	0747	0757D	0757D	N18	W59	.881	0	28.9	10D	-F	P	0757	40	.8	Y5	
967 CATA	02	0803E	0810D	0835	N14	E37	.649	15745	5.1	32D	-N	1 P	0803	28	1.8	Y5	
	02	1033	1039	NO FLARE PATROL													
	02	1209	1310	NO FLARE PATROL													
	02	1320	1536	NO FLARE PATROL													
968 RAMY	02	1704	1704	1714	S17	W28	.512	15733	31.6	10	-B	2 C		23		Y5	
969 RAMY	02	1725	1725	1730	N12	E31	.564	15745	5.1	5	-N	3 C		20		Y5	
970 RAMY	02	1734	1736	1742	N11	W66	.922	15726	28.8	8	-B	3 C		57		Y5	
971 RAMY	02	1742	1746	1812	S12	E16	.312	15741	3.9	30	-B	3 C		83		Y5	
972 BIGB	02	1747	1754	1805	S32	E02	.484	0	2.9	18	-N	1 C	1754	15		Y5	
973 RAMY	02	1825	1828	1835	N25	E74	.974	15750	8.3	10	-N	3 C		28		Y5	
GRP70974	02	1910	1911	2007	S19	E22	.450	15746	4.4	57	-B					E	
FAMY	02	1910	1911	2018	S20	E20	.435	15746	4.3	68	-B	3 C		58			
HUAN	02	1928E		1955	S19	E25	.487	15746	4.7	27D	-F	1 P	1930	50	.5	E	
975 RAMY	02	1915	1921	1933	N11	W67	.928	15726	28.8	18	-B	3 C		28		Y5	
GRP70976	02	1922+9	1946	2016	S13	E15	.306	15741	3.9	54	-N						
			2014														
RAMY	02	1922	1946	2016	S12	E15	.297	15741	3.9	54	-B	* C		95		F	
HUAN	02	1945		2009	S13	E15	.306	15741	3.9	24	-N	* P	2001	60	.6	E	
HUAN	02	2013	2014	2016	S13	E13	.279	15741	3.8	3	-F	* C	2014	25	.3	D	
977 BIGB	02	2038	2043	2102	S31	E36	.693	0	5.6	24	-N	2 C	2043	15		Y5	
GRP70978	02	2046+5	2051+0	2103	S13	E13	.279	15741	3.8	17	-N			40	.4	D	
			2057														
HUAN	02	2046		2054D	S14	E12	.277	15741	3.8	8D	-N	2 P	2051	20	.2	D	
CULG	02	2048	2051	2111	S13	E11	.254	15741	3.7	23	-N	C	2051	30	.3		
RAMY	02	2051	2051	2055	S12	E14	.283	15741	3.9	4	-B	3 C		45			
HOLL	02	2051	2051	2055	S13	E15	.306	15741	4.0	4	-B	2 C		53			
HOLL	02	2057	2057	2103	S13	E15	.306	15741	4.0	6	-N	2 C		22			
979 BIGB	02	2057	2100	2108	S19	E39	.660	0	5.8	11	-N	2 C	2100	25		Y5	
980 BIGB	02	2103	2106	2115	N15	E45	.744	0	6.3	12	-N	2 C	2106	20		Y5	
981 HOLL	02	2157	2159	2202	S12	E14	.283	15741	4.0	5	-B	2 C		61		Y5	
GRP70982	03	0005+0	0006+1	0011	S12	E08	.205	15741	3.6	6	-N			35	.4	DH	
VORO	03	0005	0007	0010	S13	E08	.218	15741	3.6	5	-N	C	0007	54	.5	DH	
CULG	03	0005	0006	0012	S12	E08	.205	15741	3.6	7	-B	C	0006	20	.2		
983 VORO	03	0008	0021	0038	S21	E23	.478	15746	4.7	30	1F	C	0021	179	2.0	EL Y5	
GRP70984	03	0044+1	0045	0100	S13	E13	.278	15741	4.0	16	-N			110	1.1	EH	
			0053+0														
VORO	03	0044	0045	0055	S13	E08	.218	15741	3.6	11	-N	C	0045	45	.4	DH	
CULG	03	0045	0053	0103	S13	E14	.291	15741	4.1	18	-N	C	0053	100	1.0	T	
VORO	03	0050	0053	0057	S15	E15	.324	15741	4.2	7	-N	C	0053	125	1.3	E	

H α SOLAR FLARES
JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.
					LAT.	MER. DIST.											
GRP71011	03	2143	2147+5	2214D	S12	W02	.156	15741	3.6	31	-B		90	.9			
CULG	03	2143	2147	2214	S13	W03	.177	15741	3.7	31	-B	C	2147	100	1.0		
PALE	03	2149E	2152U	2255D	S12	W01	.153	15741	3.8	66D	-B	3 C		90		FDE	
12 CULG	03	2309	2315U	2334	N18	W68	.941	15751	29.9	25	-F	C	2315	40		Y5	
GRP71013	04	0058+2	0104+5	0124	S12	W01	.151	15741	4.0	26	-N			60	.6	EJ	
CULG	04	0058	0109	0132	S12	W02	.154	15741	3.9	34	-N	C	0109	40	.4		
VORO	04	0100	0104	0115	S12	E00	.190	15741	4.0	15	-N	C	0104	90	.9	EJ	
14 VORO	04	0104	0105	0107	S20	E76	.969	15748	9.7	3	-N	C	0105	36		E Y5	
GRP71015	04	0218+4	0227+2	0251	S19	W22	.448	15742	2.4	33	-F					EJ	
CULG	04	0218	0229	0303	S19	W22	.448	15742	2.4	45	-N	C	0229	70	.8		
VORO	04	0222	0227	0238	S20	W22	.456	15742	2.4	16	-F	C	0227	170	1.9	EJ	
16 CULG	04	0331	0344	0356	S13	W08	.216	15741	3.5	25	-F	C	0344	20	.2	Y5	
17 CULG	04	0508	0513	0525	N22	E55	.861	15750	8.3	17	-F	C	0513	60	1.2	Y5	
GRP71018	04	0555	0558	0613	S13	W07	.206	15741	3.7	18	-N					E	
CULG	04	0555	0558	0613	S13	W07	.206	15741	3.7	18	-N	C	0558	40	.4		
TACH	04	0602E		0612	S13	W07	.206	15741	3.7	100	-N	C	0604	106	1.1	E	
GRP71019	04	0712	0800	0820	N18	W78	.984	15751	29.4	68	-N			60		DG	
CULG	04	0712	0800	0830D	N19	W78	.984	15751	29.5	78D	-N	P	0800	40			
TACH	04	0759E		0809	N18	W79	.987	15751	29.4	100	-N	C	0800	80		DG	
20 CULG	04	0729	0738	0803	S23	W60	.876	15733	30.8	34	-F	C	0738	80	1.6	Y5	
21 CULG	04	0752	0860	0830D	S35	W45	.791	15739	1.0	38D	-N	C	0800	60	1.0	Y5	
22 CULG	04	0807	0808	0813	S13	W08	.216	15741	3.7	6	-F	C	0808	10	.1	Y5	
23 CULG	04	0827	0829U	0830D	S19	W24	.472	15742	2.6	3D	-N	P	0829	30	.3	Y5	
24 RANY	04	1145E	1150	1204D	N16	W77	.988	15751	29.7	19D	-N	2 C		39		Y5	
	04	1210	1306	NO FLARE PATROL													
	04	1316	1411	NO FLARE PATROL													
25 MCMA	04	1418	1420	1425D	S15	E66	.913	15748	9.5	7D	-N	C	1420	60	1.5	E Y5	
	04	1425	1427	NO FLARE PATROL													
26 HUAN	04	1457	1459	1506	S11	E67	.919	15748	9.6	9	-F	1 C	1459	20		0 Y5	
	04	1518	1523	NO FLARE PATROL													
	04	1631	1708	NO FLARE PATROL													
GRP71027	04	1948+3	1950+1	1957	N17	W85	.998	15751	29.4	9	-N						
MCMA	04	1948	1950	1955D	N17	W88	1.000	15751	29.2	7D	-N	P	1950				
HOLL	04	1951	1951	1957	N17	W82	.993	15751	29.7	6	-N	3 C					
28 CULG	04	1958E	1958E	2021	S19	W65	.908	15733	31.0	23D	?F	P	1958	110	2.8	BF Y5	
		IMP.1	NO	HOLL													
29 CULG	04	2021	2029	2048	N18	W08	.387	15744	4.2	27	-N	C	2029	70	.8	Y5	
30 HOLL	04	2222	2222	2228	S17	E57	.844	15748	9.2	6	-N	2 C		31		Y5	
31 HOLL	04	2228	2232	2244	S17	E57	.844	15748	9.2	16	-N	2 C		52		F Y5	
32 HOLL	04	2246	2257	2307	S17	E57	.844	15748	9.2	21	-N	2 C		29		F Y5	
GRP71033	05	0010+5	0018	0107D	S19	E54	.819	15748	9.1	57	?N					EIJL	
		0033															
CULG	05	0010	0033	0340	S23	E50	.789	15748	8.8	21D	N	C	0033	780	13.3	IL	
		IMP.3	IMP.S														
VORO	05	0015	0018	0022	S13	E60	.866	15748	9.5	7	-N	C	0018	90	1.7	EJ	
VORO	05	0101	0102	0107	S18	E58	.853	15748	9.4	6	-N	C	0102	90	1.7	J	

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS AREA	CORR AREA	
					LAT.	MER. DIST											
GRP71034	05	0100+6	0108 0115+0	0130	S35	W07	.533	15740	4.5	30	-N			35	.4	J	
CULG	05	0100	0115	0158	S35	W08	.536	15740	4.4	58	-F	C	0115	40	.5	EJ	
VORO	05	0106	0108	0130	S35	W07	.533	15740	4.5	24	-N	C	0108	125	1.5	F	
MANI	05	0114E	0115U	0130	S34	W01	.508	15740	5.0	160	-N	3	C	30			
GRP71035	05	0110	0113+2	0122	S11	W12	.243	15741	4.1	12	-N					EJ	
VORO	05	0110	0113	0121	S11	W14	.272	15741	4.0	11	-N	C	0113	81	.8	EJ	
MANI	05	0114E	0115U	0123	S11	W10	.216	15741	4.3	90	-N	3	C	25			
36 CULG	05	0216	0217	0225	N11	W03	.255	15745	4.9	9	-F	C	0217	30	.3	Y5	
37 VORO	05	0257	0259	0304	S18	W70	.939	15733	30.9	7	-N	C	0259	27		D Y5	
38 CULG	05	0321	0324	0333	S31	W14	.508	15740	4.1	12	-N	C	0324	40	.5	Y5	
39 CULG	05	0340	0346	0359	S15	W70	.938	15733	30.9	19	-N	C	0346	30		Y5	
40 CULG	05	0508	0517	0532	N25	E24	.599	0	7.0	24	?N	C	0517	140	2.2	Y5	
		IMP.1	NO	MITK													
41 CULG	05	0606	0607	0624	N10	E45	.729	15749	8.6	18	-F	C	0607	40	.6	Y5	
GRP71042	05	0706+1	0710+1	0721	S22	W50	.787	15733	1.5	15	-N			100	1.6	EJ	
CULG	05	0706	0710	0727	S22	W51	.796	15733	1.5	21	-N	C	0710	80	1.4		
ASST	05	0707	0711	0715	S23	W50	.789	15733	1.5	8	1F	P	0711	131	2.0	EJ	
43 TACH	05	0723E	0724	0729D	N16	W90	1.000	15751	29.6	60	-B	C	0724	150		D Y5	
44 ABST	05	0747	0750	0800	S36	W10	.557	15740	4.6	13	-F	C	0750	87	1.1	D Y5	
45 KANZ	05	1058	1102	1106	N15	W04	.324	15745	5.2	8	-F	1				Y5	
46 KANZ	05	1312	1312	1319	N26	E39	.742	15750	8.5	7	-B	2				Y5	
47 KANZ	05	1347	1351	1402	S23	W06	.348	15746	5.1	15	1N	2				UG Y5	
	05	1406	1433	NO FLARE PATROL													
48 HUAN	05	1525		1540D	S37	W15	.591	15740	4.5	150	-N	1	P	1531	30	.3	Y5
	05	1549	1550	NO FLARE PATROL													
	05	1555	1603	NO FLARE PATROL													
	05	1610	1824	NO FLARE PATROL													
GRP71049	05	1826	1851	2001	S35	W17	.577	15740	4.5	95	1B			220	2.7		
RAMY	05	1826	1851U	2001	S35	W18	.583	15740	4.4	95	1B	3	C	417		F	
MCMA	05	1833E		1913D	S37	W16	.596	15740	4.6	400	1B		C	1841	175	2.2	E
PALE	05	1836E	1836U	1930D	S35	W17	.577	15740	4.5	540	1B	2	C	267			
50 RAMY	05	1904	1904	1910	S20	W42	.696	15742	2.6	6	-N	3	C	23		Y5	
51 RAMY	05	1926	1927	1935	S16	E47	.741	15748	9.3	9	-N	2	C	68		Y5	
52 CULG	05	2015	2018	2028	N18	E83	.995	15754	12.1	13	-N	C	2018	20		Y5	
53 CULG	05	2020	2023	2037	S17	W52	.796	15742	1.9	17	-F	C	2023	20	.3	Y5	
54 CULG	05	2029	2030	2036	N14	E87	.999	15754	12.4	7	-N	C	2030	40		Y5	
55 CULG	05	2202	2220	2333	S25	W85	.995	15734	30.5	91	?N	C	2220	120		Y5	
		IMP.1	NO	PALE													
56 CULG	05	2257	2259	2307	S33	W23	.595	15740	4.2	10	-F	C	2259	20	.2	Y5	
GRP71057	05	2303+6	2307+2	2320	N16	W34	.627	15744	3.4	17	-N					F	
CULG	05	2303	2307	2326	N17	W33	.622	15744	3.5	23	-N	C	2307	80	1.0		
PALE	05	2309	2309	2313	N15	W35	.633	15744	3.3	4	-N	3	C	18		F	
58 CULG	05	2307	2313	2326	N14	E80	.988	15754	12.0	19	-N	C	2313	40		Y5	
59 CULG	05	2333	2336	2346	S09	W88	.999	15733	30.4	13	-N	*	C	2336	20		Y5
GRP71060	06	0005+7	0018+3	0101	S22	W53	.814	15742	2.0	56	-N			100	1.7	FU	
MITK	06	0005		0105	S21	W53	.812	15742	2.0	60	1F	C	0016	230	4.0	FU	
PALE	06	0012	0021	0056	S22	W49	.776	15742	2.3	44	-N	3	C	70		U	
MANI	06	0015E	0018	0033D	S23	W60	.875	15742	1.5	180	-B	3	C	100		U	

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill of Disk			CORR AREA Sq. Deg.
					LAT.	MER. DIST.												
61	ARST	06 0850E	0853	0855D	N16	W42	.718	15744	3.2	50	-F	P	0853	87	1.3	D	Y5	
62	KANZ	06 0909	0943	0959	S32	W26	.608	15740	4.4	50	-F	1				E	Y5	
63	KANZ	06 0955	1019	1023	N23	E85	.998	15754	12.8	28	-F	1					Y5	
GRP71064	HTPR	06 1111+4	1114+6	1127	N14	E70	.949	15754	11.7	16	-N			50			D	
	KANZ	06 1111	1114	1122	N14	E68	.938	15754	11.6	11	-N	C	1114	30	.7		D	
	LOCA	06 1115E	1120	1127	N14	E70	.949	15754	11.7	12D	-N	V	1120	51	1.8			
	CATA	06 1120E	1120	1120D	N16	E70	.950	15754	11.7		-N	2	P	1120	56	1.7		
65	HTPR	06 1248	1248	1252	N10	E30	.542	15749	8.8	4	-F	C	1248	10	.1		Y5	
66	KANZ	06 1317	1317	1325	N10	E27	.502	15749	8.6	8	-N	1					Y5	
67	MCMA	06 1535E		1620	S13	W37	.612	15741	3.9	45D	-F	C	1546	40	.5	E	Y5	
68	BIGB	06 1746	1751	1757	N17	E70	.951	15754	12.0	11	-N	3	C	1751	75		D	Y5
		06 1800	1825	NO FLARE PATROL														
69	RAMY	06 2056E	2056U	2109	S20	W56	.838	15742	2.7	13D	-N	2	C		22			Y5
70	RAMY	06 2056E	2056U	2109	S20	W78	.976	15733	1.8	13D	-B	2	C		19		F	Y5
71	RAMY	06 2056E	2111	2125D	N26	W50	.836	15755	3.1	29D	-F	* C		32			Y5	
GRP71072	PALE	06 2115>9	2115	2140	N24	E24	.590	15750	8.7	25	-N							
	BIGB	06 2115E	2115U	2135D	N26	E24	.610	15750	8.7	20D	-N	1	C		40		F	
		06 2125	2128	2140	N22	E25	.579	15750	8.8	15	-N	3	C	2128	75		D	
		06 2125	2130	NO FLARE PATROL														
		06 0633	0643	NO FLARE PATROL														
		06 0647	0724	NO FLARE PATROL														
		06 0750	0755	NO FLARE PATROL														
73	CULG	06 2355	2357	0008	S21	E31	.571	15748	9.3	13	-F	C	2357	20	.2		Y5	
GRP71074	CULG	07 0159+3	0204+3	0217	N20	E22	.531	15750	8.7	18	-N						EJ	
	VORO	07 0144	0207	0225	N19	E22	.520	15750	8.7	41	-N	C	0207	100	1.2			
	PALE	07 0159	0205	0217	N20	E22	.531	15750	8.7	18	1F	C	0205	242	2.9		EJ	
		07 0202	0204	0211	N25	E20	.568	15750	8.6	9	-N	3	C		56		DE	
75	CULG	07 0416	0423	0503	S12	W46	.722	15741	3.7	47	-N	C	0423	80	1.1		Y5	
76	CULG	07 0427	0436	0450	S21	W64	.902	15742	2.4	23	-N	C	0436	60	1.4		Y5	
77	CULG	07 0544	0557	0616	N19	E18	.482	15750	8.6	32	-N	C	0557	70	.8		Y5	
78	CULG	07 0555	0609	0634	S20	E30	.552	15748	9.5	39	-F	C	0609	20	.2		Y5	
79	CULG	07 0623	0658U	0826	N18	E17	.460	15750	8.5	123	1N	C	0658	420	4.6	JI	Y5	
80	KANZ	07 0855	0858	0906	N26	W57	.888	15755	3.1	11	-F	1				T	Y5	
81	KANZ	07 0946	0949	0956	N11	W32	.575	15745	5.0	10	-F	1					Y5	
82	HTPR	07 1002	1004	1010	S36	W38	.739	15740	4.6	8	-F	C	1004	20	.3		Y5	
83	KANZ	07 1100	1115	1123	S13	W46	.724	15741	4.0	23	-N	1					Y5	
84	RAMY	07 1159E	1313U	1314D	N26	W59	.901	15755	3.1	75D	-B	2	C		50		Y5	
85	RAMY	07 1221	1221	1221D	N12	E08	.302	15749	8.1		-N	2	C		41		Y5	
86	KANZ	07 1253	1257	1320	S21	W80	.983	15733	1.5	27	-N	1					Y5	
87	RAMY	07 1314	1315	1328	N12	E08	.302	15749	8.2	14	-N	2	C		88		Y5	
88	RAMY	07 1330	1340	1404D	N12	E07	.295	15749	8.1	34D	-N	2	C		64		Y5	
89	RAMY	07 1330	1344	1442	N26	W59	.901	15755	3.1	72	-N	* C		26			Y5	
90	RAMY	07 1753	1800	1806	N12	E05	.283	15749	8.1	13	-B	3	C		43		F	Y5

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPOR-TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA	CORR. AREA		
					LAT.	MER. DIST.												Mill of Disk
GRP71091	07	1845+6	1854 1905	1925	N22	E10	.462	15750	8.5	40	-N							
RAMY	07	1845	1854	1934	N19	E10	.418	15750	8.5	49	-N	3	C		73	F		
PALE	07	1851	1905	1915	N25	E11	.509	15750	8.6	24	-N	3	C		49	DE		
	07	1943	1945	NO FLARE PATROL														
	07	1950	1954	NO FLARE PATROL														
92 RAMY	07	2032	2036	2039	N23	E14	.500	15750	8.9	7	-8	3	C		25	Y5		
	07	2107	2118	NO FLARE PATROL														
GRP71093	07	2228+5	2233+1	2248	N22	E69	.952	15754	13.1	20	-F							
CULG	07	2228	2234	2248	N22	E68	.947	15754	13.0	20	-N		C	2234	60			
HOLL	07	2233	2233	2237D	N23	E71	.962	15754	13.3	40	-F	2	C					
94 CULG	07	2232	2235	2240	N17	W62	.903	15744	3.3	8	-F		C	2235	30	.7	Y5	
95 CULG	07	2232	2235	2254	S18	E35	.604	0	10.6	22	-F		C	2235	50	.6	G	Y5
96 BIGB	07	2303E	2303U	2303D	N26	E67	.947	15754	13.0		-N	2	P				Y5	
97 BIGB	07	2304E	2304	2304D	N11	E67	.929	15754	13.0		-N	2	P				Y5	
98 CULG	07	2355	2359	0009	S21	E32	.582	0	10.4	14	-F		C	2359	20	.2	Y5	
GRP71099	08	0223+6	0234+2	0317	N17	E52	.823	15754	12.0	54	18				260	4.5		
MITK	08	0223	0236	0317	N18	E54	.843	15754	12.1	54	18		C	0236	270	5.1		
CULG	08	0223	0243	0358	N17	E54	.841	15754	12.1	95	18		C	0243	260	4.7		
KODA	08	0228	0234	0257	N20	E51	.823	15754	11.9	29	2N		P	0238	783	8.1	CE	
PALE	08	0229	0234	0236D	N17	E47	.775	15754	11.6	70	18	3	C		121		F	
100 CULG	08	0314	0319	0342	S19	W88	.999	15733	1.5	28	-N		C	0319	20		Y5	
101 CULG	08	0338	0345	0408	S37	W47	.812	15740	4.6	30	-F		C	0345	20	.3	Y5	
102 CULG	08	0611	0626	0744	S24	W65	.911	0	3.4	93	?N		C	0626	140	3.1	GFK	Y5
		IMP.1	NO	MITK														
103 CULG	08	0728	0748U	0823	S17	E14	.326	15748	9.4	55	-F		C	0748	50	.5	Y5	
104 KANZ	08	0808	0812	0824	N11	E02	.258	15749	8.5	16	-F	1					Y5	
GRP71105	08	0816+4	0820+5	0830	S14	W59	.857	15741	3.9	14	-F							
CULG	08	0816	0825	0832D	S14	W60	.866	15741	3.8	160	-N		C	0825	30	.6		
KANZ	08	0820	0820	0828	S14	W59	.857	15741	3.9	8	-F	1						
106 KANZ	08	0921	0921	0925	S17	E13	.315	15748	9.4	4	-N	2					Y5	
107 KANZ	08	1007	1015	1023	N17	E03	.359	15750	8.6	16	-N	2					L	Y5
108 KANZ	08	1031	1034	1042	N14	E60	.884	15754	12.9	11	-N	2					Y5	
109 KANZ	08	1228	1235	1243	N15	W72	.960	15744	3.1	15	-F	1					Y5	
GRP71110	08	1303>9	1306	1353D	S17	E10	.283	15748	9.3	50	-F							
KANZ	08	1303	1306	1347D	S17	E11	.293	15748	9.4	440	-F	1						
HUAN	08	1323		1353D	S17	E09	.274	15748	9.2	30D	-F	1	P	1344	30	.3		
	08	1353	1356	NO FLARE PATROL														
111 HUAN	08	1407	1407	1431	N10	W05	.253	15749	8.2	24	-N	2	C	1407	40	.4	E	Y5
112 HUAN	08	1410	1411	1415	S18	E12	.316	15748	9.5	5	-F	1	C	1411	50	.5		Y5
113 HUAN	08	1442	1442	1504	N18	E46	.769	15754	12.1	22	-N	2	C	1442	80	1.3	E	Y5
	08	1505	1509	NO FLARE PATROL														
114 HUAN	08	1509E		1515D	S18	E10	.297	15748	9.4	6D	-N	1	P	1510	50	.5	E	Y5
	08	1515	1535	NO FLARE PATROL														
115 BIGB	08	1548E	1548	1548D	N17	E57	.866	15754	12.9		-N	1	P					Y5
116 HUAN	08	1627	1630	1631	N08	W05	.222	15749	8.3	4	-F	1	C	1630	40	.4		Y5

Ha SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH FLARE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA <small>Mill of Disk</small>		CORR. AREA <small>Sq. Deg.</small>
					LAT.	MER. DIST.											
	08	1647	1648	NO FLARE PATROL													
117 HUAN	08	1730		1738	N09	W06	.244	15749	8.3	8	-F	1	C				Y5
GRP71118	08	1751+3	1757+0	1809	N11	W04	.264	15749	8.4	18	-N			50	.5	0	
HUAN	08	1751	1757	1809	N16	W04	.248	15749	8.4	18	-N	1	C	1757	60	.6	
BIGB	08	1754	1757	1808	N12	W03	.277	15749	8.5	14	-N	1	P	1757	20		
MCMA	08	1755E		1802D	N11	W04	.264	15749	8.4	7D	-N		P	1756	50	.5	0
119 BIGB	08	1754	1829	1839	N18	E56	.860	15754	12.9	45	-N	1	P	1829	10		Y5
	08	1819	1939	NO FLARE PATROL													
120 BIGB	08	1843	1844	1846	S17	E19	.388	15748	10.2	3	-N	2	C	1844	10		Y5
121 BIGB	08	1919	1924	1932	N08	W04	.216	15749	8.5	13	-N	1	C	1924	60		Y5
122 BIGB	08	1954	2020	2143	N25	E80	.992	15759	14.8	109	-N	1	P	2020	15		Y5
	08	2001	2020	NO FLARE PATROL													
123 BIGB	08	2010	2030	2110	N09	W07	.252	15749	8.3	60	-N	2	C	2030	60		Y5
GRP71124	08	2025>9	2135	2145D	N15	W79	.986	15744	2.9	80	-N						
BIGB	08	2025	2151	2223	N15	W80	.989	15744	2.9	118	-N	2	C	2151	25		
CULG	08	2130	2135	2145	N16	W79	.986	15744	3.0	15	-N		C	2135	40		
125 BIGB	08	2035	2133	2147	N15	E54	.836	15754	12.9	72	-N	2	C	2133	60		Y5
	08	2112	2116	NO FLARE PATROL													
GRP71126	08	2118>9	2135+1	2155D	N09	W08	.260	15749	8.3	37	-F			70	.7		
BIGB	08	2118	2135	2143	N09	W07	.252	15749	8.4	25	-N	2	C	2135	60		
CULG	08	2131	2136	2155	N10	W10	.293	15749	8.1	24	-F		C	2136	80	.8	
BIGB	08	2145	2153	2227	N07	W06	.214	15749	8.5	42	-N	1	C	2153	120		
127 CULG	08	2222	2225	2250	S36	W61	.903	15740	4.4	28	-N		C	2225	60	1.3	Y5
GRP71128	08	2232+0	2236+2	2255	N15	W79	.986	15744	3.0	23	-N			35			
CULG	08	2232	2238	2255	N16	W79	.986	15744	3.0	23	-N		C	2238	40		
BIGB	08	2232	2236	2254	N15	W80	.989	15744	2.9	22	-N	1	C	2236	25		
129 BIGB	08	2305	2315	2335	N07	W06	.214	15749	8.5	30	-N	1	C	2315	120		Y5
130 BIGB	08	2307	2330	2350	N16	E53	.829	15754	12.9	43	-N	3	C	2330	30		Y5
131 CULG	08	2332	2338	0000	S18	W90	1.000	15742	2.2	28	-N		C	2338	40		Y5
132 CULG	09	0005	0012	0026	N13	E52	.812	15754	12.9	21	-F		C	0012	80	1.4	Y5
133 CULG	09	0100	0131	0316	N18	W08	.395	15750	8.4	136	?N		C	0131	300	3.3	S Y5
		IMP.1	NO	MITK													
134 CULG	09	0124	0129	0139	N27	E75	.980	15759	14.7	15	-F		C	0129	20		T Y5
135 CULG	09	0125	0127	0135	S32	W68	.936	15740	4.0	10	-N		C	0127	40	1.0	Y5
136 CULG	09	0134	0138	0150	N17	E41	.714	15754	12.1	16	-F		C	0138	40	.6	Y5
137 CULG	09	0311	0315	0345	N18	W85	.998	15744	2.8	34	?N		C	0315	80		T Y5
		IMP.1	NO	MITK													
138 CULG	09	0333	0336	0339	S31	W69	.940	15740	4.0	6	-F		C	0336	40	1.0	Y5
139 CULG	09	0344	0350	0426	N09	W11	.291	15749	8.3	42	-N		C	0350	80	.8	T Y5
140 CULG	09	0419	0425	0440	S22	E88	.998	15762	15.8	21	-F		C	0425	40		G Y5
141 ABST	09	0558E	0607	0610	N14	E49	.786	15754	12.9	12D	-N		P	0607	87	1.5	DJ Y5
GRP71142	09	0610+4	0615+1	0627	N18	W87	1.000	15744	2.7	17	?N						EJ
CULG	09	0610	0615	0630	N19	W85	.998	15744	2.9	20	N		C	0615	40		
		IMP.S	IMP.2														
ABST	09	0614	0616	0624	N18	W89	1.000	15744	2.6	18	2N		C	0616	218		EJ
143 ABST	09	0721	0725	0745	N15	E35	.636	15754	11.9	24	-N		C	0725	87	1.2	D Y5

90
Misc
Jan 79

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg.		
					LAT.	MER. DIST.												
144	ABST	09	0729	0732	0740	S17	F02	.229	15748	9.5	11		C	0732	174	1.8	EJ	Y5
145	KAND	09	0844	0845	0855	N21	W85	.998	15744	3.0	11	-N	C					Y5
146	ABST	09	0903	0905	0906D	N14	E49	.786	15754	13.1	30	-N	P	0905	87	1.5	DJ	Y5
147	KAND	09	0907	0908	0912	N15	E46	.758	15754	12.8	5	-F	C		73	1.1		Y5
148	KAND	09	0920	0926	0941	N25	W90	1.000	15755	2.6	21	-N	C					Y5
149	KAND	09	0936	0952	0952D	N18	W85	.998	15744	3.0	160	2N	C					Y5
GRP71150		09	1528	1533	1547	N18	E40	.708	15754	12.6	19	-N						F
	RAMY	09	1528	1533	1546	N15	E39	.682	15754	12.6	18	-N	3 C		119			F
	RAMY	09	1531	1538	1547	N22	E42	.750	15754	12.8	16	-N	3 C		83			F
151	RAMY	09	1539	1541	1551	N09	W18	.376	15749	8.3	12	-N	3 C		32			Y5
152	RAMY	09	1625	1627	1632	N09	W19	.389	15749	8.3	7	-N	3 C		40		F	Y5
153	RAMY	09	1634	1634	1639	N09	W19	.389	15749	8.3	5	-N	3 C		23			Y5
154	HUAN	09	1636	1639	1647	N30	W23	.648	0	8.0	11	-F	1 C	1639	35	.4	E	Y5
155	RAMY	09	1752	1753	1802	S34	W68	.938	15740	4.6	10	-B	3 C		17			Y5
156	RAMY	09	1755	1756	1804	N09	W20	.403	15749	8.2	9	-B	3 C		27			Y5
GRP71157		09	1906+2	1910+2	1917	N08	W20	.395	15749	8.3	11	-N			60	.7		
	RAMY	09	1906	1912	1917	N09	W20	.413	15749	8.3	11	-B	2 C		57			F
	HUAN	09	1908	1910	1916	N08	W21	.408	15749	8.2	8	-F	1 C	1910	65	.7	E	
158	HUAN	09	1919		1927D	N10	W17	.373	15749	8.5	80	-F	1 P	1923	40	.4	E	Y5
GRP71159		09	2008+9	2009	2042	S34	W69	.942	15740	4.7	34	-N						F
	RAMY	09	2008	2009	2053D	S34	W70	.947	15740	4.6	450	-B	2 C		35			F
	HOLL	09	2024	2026	2031	S35	W69	.943	15740	4.7	7	-N	2 C		39			
GRP71160		09	2023+1	2025+6	2043	N08	W19	.381	15749	8.4	20	-N			50	.5	F	
	RAMY	09	2023	2031	2053D	N09	W21	.416	15749	8.3	300	-B	2 C		47			F
	HOLL	09	2024	2025	2032	N08	W18	.367	15749	8.5	8	-N	2 C		47			
		09	2137	2142														NO FLARE PATROL
		09	2157	2212														NO FLARE PATROL
		09	2217	2221														NO FLARE PATROL
161	CULG	09	2221E	2233U	2250D	S30	W60	.885	0	5.4	290	-N	P	2233	80	1.7		Y5
162	CULG	09	2230	2245	2250D	S38	W71	.955	15740	4.6	200	-N	P	2245	60			Y5
163	CULG	10	0032	0041	0125	S18	W21	.420	15748	8.4	53	-N	C	0041	100	1.1	L	Y5
164	CULG	10	0039	0053	0104	S22	E88	.998	15762	16.6	25	-N	C	0053	20			Y5
165	CULG	10	0258	0300	0306	S12	W81	.986	15741	4.0	8	-N	C	0300	10			Y5
166	CULG	10	0510	0513	0521	S27	E58	.864	15763	14.6	11	-N	C	0513	40	.9		Y5
167	CULG	10	0515	0519	0529	S17	W12	.301	15748	9.3	14	-N	C	0519	30	.4		Y5
168	CULG	10	0526	0528	0538	N18	E33	.633	15754	12.7	12	-F	C	0528	60	.8		Y5
169	ABST	10	0611	0616	0625	N16	E37	.665	15754	13.0	14	-N	C	0616	87	1.2	D	Y5
170	ABST	10	0646	0649	0700	N08	W28	.506	15749	8.2	14	1N	C	0649	174	2.1	UJ	Y5
GRP71171		10	0721+4	0723	0733	N16	E36	.654	15754	13.0	12	-N						D
	CULG	10	0721	0723	0733	N15	E36	.648	15754	13.0	12	-N	C	0723	80	1.0		D
	ISTA	10	0725		0732	N18	E36	.666	15754	13.0	7	-N						D
172	ISTA	10	0840		0846	N08	W29	.520	15749	8.2	6	-F						Y5
173	HTPR	10	0956	1001	1005	N08	W34	.588	15749	7.9	9	-F	C	1001	10	.2		Y5
174	HTPR	10	1107	1109	1126	N16	E31	.597	15754	12.8	19	-N	C	1109	70	.8	E	Y5

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.		
					LAT.	MER. DIST.												
175	HUAN	10	1437		1455	N08	W34	.588	15749	8.1	18	-F	1	C				Y5
176	RAMY	10	1453	1454	1504D	N17	E13	.417	15754	11.6	11D	-N	3	C		44		F Y5
177	RAMY	10	1546	1546	1603	N08	W33	.574	15749	8.2	17	-B	3	C		24		F Y5
GRP71178		10	1616	1621	1653	N08	W34	.588	15749	8.1	37	-N				40	.5	
	RAMY	10	1616	1621	1649	N08	W33	.574	15749	8.2	33	-B	3	C		117		
	MCMA	10	1618E		1659D	N09	W35	.605	15749	8.1	41D	-N		C	1626	30	.4	D
	HUAN	10	1623E		1656D	N08	W35	.601	15749	8.1	33D	-N	2	P	1623	45	.5	E
	HOLL	10	1628E	1628U	1634	N09	W31	.552	15749	8.4	6D	-N	2	C		30		F
179	RAMY	10	1754	1758	1804	N08	W33	.574	15749	8.3	10	-N	3	C		30		F Y5
GRP71180		10	1845+6	1851+1	1927	N09	W35	.605	15749	8.2	42	-N				60	.8	E
	BIGB	10	1845	1852	1918	N15	W37	.660	15749	8.0	33	-N	2	C	1852	50		
	MCMA	10	1848E	1852	1915D	N09	W35	.605	15749	8.2	27D	-N		C	1852	80	1.1	E
	RAMY	10	1849	1851	2020D	N08	W34	.588	15749	8.2	91D	-B	2	C		57		
	HOLL	10	1851	1851	1924	N09	W33	.579	15749	8.3	33	-B	2	C		36		
	HUAN	10	1911E		1929	N08	W37	.627	15749	8.0	18D	-F	1	P	1914	45	.6	
181	BIGB	10	1943	1956	1959	S23	E70	.940	15762	16.1	16	?N	2	C	1956	120		Y5
	IMP.1		NO :	HUAN	HOLL													
182	BIGB	10	1954	1959	2009	S15	E36	.603	0	13.5	15	-N	2	C	1959	30		Y5
183	BIGB	10	2025	2036	2037	S23	E70	.940	15762	16.1	12	?N	2	C	2036	100		Y5
	IMP.1		NO :	HOLL	CULG	HUAN												
GRP71184		10	2039+2	2044	2101	S23	E64	.903	15762	15.7	22	-F				30		D
				2051+1														
	BIGB	10	2039	2044	2057	S24	E64	.904	15762	15.7	18	-N	3	C	2044	25		
	BIGB	10	2040	2052	2102	S24	E63	.897	15762	15.6	22	-N	2	C	2052	25		
	HUAN	10	2041	2051	2059	S23	E64	.903	15762	15.7	18	-F	1	C	2051	25	.5	D
GRP71185		10	2054+1	2059+3	2113	N09	W37	.631	15749	8.1	19	-N				50	.6	
	BIGB	10	2035	2102	2145	N15	W37	.660	15749	8.1	70	-N	*	C	2102	40		
	HUAN	10	2054		2113D	N08	W38	.640	15749	8.0	19D	-N	*	P	2106	40	.5	
	CULG	10	2055	2059	2107	N09	W35	.605	15749	8.2	12	-N	*	C	2059	60	.8	
GRP71186		10	2055+1	2059+2	2110D	S18	W15	.346	15748	9.7	15	-F						
	CULG	10	2055	2059	2110	S18	W15	.346	15748	9.7	15	-F		C	2059	20	.2	
	BIGB	10	2056	2101	2143	S19	W16	.369	15748	9.7	47	-N	1	C	2101	130		
GRP71187		10	2055+4	2116+4	2126D	N20	E15	.472	15754	12.0	31	-N				100	1.1	E
	CULG	10	2055	2120	2208	N20	E15	.472	15754	12.0	73	-N	*	C	2120	120	1.4	
	HUAN	10	2056		2113D	N20	E15	.472	15754	12.0	17D	-N	*	P	2109	160	1.8	E
	BIGB	10	2059	2116	2126	N03	E17	.315	15754	12.1	27	-N	*	C	2116	80		
188	BIGB	10	2125	2135	2143	S23	E63	.896	15762	15.6	18	-N	3	C	2135	20		Y5
GRP71189		10	2156+1	2157+6	2214	S15	W16	.329	15748	9.7	18	-N				25	.3	
	BIGB	10	2156	2157	2209	S12	W16	.304	15748	9.7	13	-N	3	C	2157	30		
	CULG	10	2157	2203	2218	S19	W17	.380	15748	9.6	21	-N		C	2203	20	.2	
GRP71190		10	2159	2200	2209	S22	E64	.902	15762	15.7	10	-N						
				2204														
	BIGB	10	2159	2200	2203	S23	E66	.916	15762	15.9	4	-N	3	C	2200	65		
	BIGB	10	2201	2204	2209	S22	E62	.888	15762	15.6	8	-N	3	C	2204	20		
191	CULG	10	2233	2242	2253	S37	W90	.999	15740	4.2	20	-N		C	2242	40		Y5
192	BIGB	10	2247	2300	2309	S23	E61	.881	15762	15.5	22	-N	3	C	2300	30		Y5
193	CULG	10	2314	2316	2322	N19	E05	.399	15754	11.3	8	-N		C	2316	30	.3	Y5
GRP71194		10	2337+1	2343+0	2352	N10	W37	.635	15749	8.2	15	-N						E
	BIGB	10	2337	2343	2352	N16	W37	.665	15749	8.2	15	-N	3	C	2343	65		
	CULG	10	2338	2343	2353	N10	W35	.610	15749	8.4	15	-N		C	2343	40	.5	
	VORO	10	2343E		2350	N08	W38	.640	15749	8.1	7D	1F		P	2345	242	3.1	E
195	BIGB	10	2352	2358	2358D	S23	E60	.874	15762	15.5	6D	-N	2	P	2358	20		Y5
GRP71196		11	0033+0	0035+1	0053	S19	W18	.391	15748	9.7	20	-F						E
	VORO	11	0033	0036	0047	S19	W18	.391	15748	9.7	14	-N		C	0036	90	1.0	E
	CULG	11	0033	0035	0059	S19	W18	.391	15748	9.7	26	-F		C	0035	20	.2	

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA M.II of Disk		CORR AREA Sq Deg
					LAT.	MER. DIST.											
GRP71220	11	1607+1	1608+0	1614	S19	H27	.504	15748	9.6	7	-N		30	.3	D		
MCMA	11	1607	1608	1614	S19	H26	.491	15748	9.7	7	-F	C	1608	25	.3	D	
HUAN	11	1607	1608	1612	S20	H27	.511	15748	9.6	5	-N	1 C	1608	40	.4		
HUAN	11	1607	1608	1614	S20	H28	.523	15748	9.6	7	-F	1 C	1608	30	.3		
RAMY	11	1608	1608	1612	S18	H30	.537	15748	9.4	4	-B	3 C		24			
221 MCMA	11	1658	1700	1710	N17	E17	.454	15754	13.0	12	-F	C	1700	50	.6	E Y5	
GRP71222	11	1738+1	1742+1	1752	N08	H48	.759	15749	8.1	14	-N		60	.9	E		
MCMA	11	1738	1743	1755	N09	H50	.783	15749	8.0	17	-N	C	1743	65	1.1	E	
RAMY	11	1739	1742	1748	N08	H46	.737	15749	8.3	9	-N	3 C		50			
223 MCMA	11	1832		1840D	N17	E17	.454	15754	13.0	8D	-F	P	1839	35	.4	D Y5	
224 RAMY	11	1841	1842	1918	N15	E11	.375	15754	12.6	37	-B	3 C		68		Y5	
225 RAMY	11	1925	1926	1933	N15	E11	.375	15754	12.6	8	-N	3 C		22		Y5	
GRP71226	11	1956+1	1957+1	2002	N08	H48	.759	15749	8.2	6	-N		40	.6	E		
HUAN	11	1956	1958	2000	N07	H48	.757	15749	8.2	4	-N	1 C	1958	40	.6		
MCMA	11	1957	1958	2004	N08	H50	.781	15749	8.1	7	-N	C	1958	50	.8	E	
RAMY	11	1957	1957	1959D	N08	H48	.759	15749	8.2	2D	-N	3 C		18			
GRP71227	11	2029>9	2046+2	2124	N16	E15	.423	15754	13.0	55	-N		80	.9	H		
CULG	11	2029	2059	2125	N16	E15	.423	15754	13.0	56	-F	C	2059	160	1.8		
HUAN	11	2035	2048	2104	N16	E16	.432	15754	13.1	29	-N	2 C	2048	60	.7		
RAMY	11	2041	2046	2111	N15	E10	.367	15754	12.6	30	-B	3 C		103		H	
RAMY	11	2122	2123	2124	N15	E10	.367	15754	12.6	2	-N	2 C		24			
	11	2146	2159	NO FLARE PATROL													
228 CULG	11	2213	2216	2224	S28	E23	.536	15757	13.7	11	-F	C	2216	20	.2	Y5	
229 BIGB	11	2227	2235	2244	N17	E02	.362	15754	12.1	17	-N	3 C	2235	140		EK Y5	
	11	2243	2254	NO FLARE PATROL													
230 CULG	11	2337	2343	2356	S27	E49	.788	15762	15.7	19	-F	C	2343	40	.6	Y5	
GRP71231	12	0018+2	0020+3	0027	N08	H51	.791	15749	8.2	9	1F		130	2.1	EJ		
CULG	12	0018	0020	0028	N09	H52	.814	15749	8.1	10	-N	C	0020	60	1.0		
CULG	12	0018	0019	0028	N09	H51	.794	15749	8.2	10	-F	C	0019	30	.5		
VORO	12	0020	0023	0026	N08	H50	.781	15749	8.3	6	1F	C	0023	179	2.9	EJ	
GRP71232	12	0025+1	0028+2	0049D	S18	H34	.588	15748	9.5	24	1B		280	3.5	JUVZ		
CULG	12	0025	0028	0140	S19	H32	.567	15748	9.6	75	1B	C	0028	360	4.5	VF	
VORO	12	0026	0030	0049	S18	H34	.588	15748	9.5	23	1N	C	0030	287	3.6	EJ	
HANI	12	0028E	0030	0035D	S18	H37	.625	15748	9.2	7D	1B	3 V		180		U Z	
233 CULG	12	0114	0121	0132	S25	H16	.436	15764	10.9	18	-F	C	0121	40	.4	Y5	
GRP71234	12	0303+1	0305+1	0311	N15	E12	.384	15754	13.0	8	-F		60	.6	E		
CULG	12	0303	0306	0312	N15	E12	.384	15754	13.0	9	-F	C	0306	40	.4	T	
VORO	12	0304	0305	0310	N16	E12	.398	15754	13.0	6	-N	C	0305	81	.9	E	
235 CULG	12	0421	0423	0428	N15	H02	.331	15754	12.0	7	-F	C	0423	40	.4	Y5	
236 CULG	12	0449	0450	0503	S28	E47	.772	15762	15.7	14	-N	C	0450	50	.8	Y5	
237 CULG	12	0514	0519	0527	S24	E15	.415	15757	13.3	13	-F	C	0519	40	.4	Y5	
238 CULG	12	0550	0552	0609	N23	H52	.844	15750	8.3	19	-F	C	0552	60	1.1	Y5	
239 CULG	12	0740	0745	0757	N14	E08	.340	15754	12.9	17	-F	C	0745	30	.3	T Y5	
GRP71240	12	0842+3	0844+1	0849	S25	E44	.732	15762	15.7	7	-F		30	.4			
HTPR	12	0842	0844	0847	S26	E44	.736	15762	15.7	5	-F	C	0844	30	.4		
CATA	12	0845	0845	0850	S25	E45	.742	15762	15.7	5	-N	2 C	0845	28	1.8		
241 HTPR	12	1004	1007	1013	N16	E07	.365	15754	12.9	9	-F	C	1007	30	.3	Y5	
GRP71242	12	1033+3	1036+1	1046	N16	E08	.370	15754	13.0	13	-N						
HTPR	12	1033	1037	1047	N16	E09	.376	15754	13.1	14	-N	C	1037	60	.6		
KANZ	12	1036	1036	1045	N16	E07	.365	15754	13.0	9	-B	2					

H α SOLAR FLARES
JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA		CORR AREA	
					LAT.	MER. DIST												Mill of Disk
GRP71243	12	1045+2	1049 1108+1	1137	S16	W39	.644	15748	9.5	52	-B						U	
KANZ	12	1045	1108	1141	S16	W38	.631	15748	9.6	56	1B	2					U	
HTPR	12	1047	1049	1055	S17	W40	.659	15748	9.4	8	-F	C	1049	20	.3			
HTPR	12	1102	1109	1133	S17	W40	.659	15748	9.5	31	-N	C	1109	150	2.0			
244 KANZ	12	1211	1216	1221	N16	E07	.365	15754	13.0	10	-F	1					E Y5	
GRP71245	12	1231+2	1234+1	1240	S16	W40	.656	15748	9.5	9	-N							
KANZ	12	1231	1234	1240	S16	W40	.656	15748	9.5	9	-B	1						
HTPR	12	1233	1235	1239	S17	W41	.671	15748	9.4	6	-N	C	1235	50	.7			
246 HTPR	12	1322	1323	1325	S18	E17	.368	0	13.8	3	-F	C	1323	30	.3		Y5	
GRP71247	12	1327+2	1330+2	1347	N15	E06	.344	15754	13.0	20	-N						EL	
HTPR	12	1327	1332	1338	N16	E07	.365	15754	13.1	11	-F	C	1332	30	.3		E	
RAMY	12	1328	1330	1349	N15	E01	.330	15754	12.6	21	-E	3	C	75				
KANZ	12	1329	1332	1347	N15	E06	.344	15754	13.0	18	-N	1					L	
GRP71248	12	1350+0	1354+1	1404	S16	W41	.668	15748	9.5	14	-N							
HTPR	12	1350	1355	1400	S17	W42	.683	15748	9.4	10	-F	C	1355	30	.4			
KANZ	12	1350	1354	1407	S16	W41	.668	15748	9.5	17	-B	1						
249 RAMY	12	1415	1425	1430	N15	E00	.329	15754	12.6	15	-N	3	C	28			Y5	
GRP71250	12	1512	1513 1529+3	1551	S17	W43	.695	15748	9.4	39	-N			50	.7		E	
HUAN	12	1512	1513	1522	S18	W42	.686	15748	9.5	10	-F	1	C	1513	45	.6		
MCMA	12	1513E	1529	1549D	S17	W43	.695	15748	9.4	360	-N	C	1529	60	.9		E	
HUAN	12	1526	1532	1551	S18	W45	.720	15748	9.3	25	-N	2	C	1532	40	.5		
GRP71251	12	1518+2	1521+0	1536	N16	E04	.352	15754	12.9	18	-F			80	.9		E	
MCMA	12	1518	1521	1539D	N16	E04	.352	15754	12.9	210	-F	C	1521	90	1.0		E	
HUAN	12	1520	1521	1532	N17	E04	.368	15754	12.9	12	-F	1	C	1521	65	.7		E
252 HUAN	12	1619	1624	1633	S17	W43	.695	15748	9.5	14	-N	2	C	1624	90	1.2		Y5
253 HUAN	12	1622	1625	1627	N16	E04	.352	15754	13.0	5	-F	1	C	1625	30	.3		Y5
GRP71254	12	1628+0	1629 1638	1639	N15	E01	.330	15754	12.8	11	-F						H	
HUAN	12	1628	1638	1645	N15	E04	.336	15754	13.0	17	-F	1	C	1638	25	.3		D
RAMY	12	1628	1629	1633	N15	W01	.330	15754	12.6	5	-F	3	C	27			F H	
255 HUAN	12	1716	1717	1718	S19	W43	.701	15748	9.5	2	-F	1	C	1717	40	.5		Y5
256 RAMY	12	1746	1746	1751	N15	W02	.331	15754	12.6	5	-N	3	C	20			FDE Y5	
257 RAMY	12	1817	1817	1825	N15	W02	.331	15754	12.6	8	-B	3	C	27			FDE Y5	
258 RAMY	12	1841	1841	1846	S18	W44	.709	15748	9.5	5	-B	3	C	22			FDE Y5	
259 RAMY	12	2000	2000	2009	N17	W17	.455	15754	11.6	9	-N	3	C	23			Y5	
GRP71260	12	2017+7	2026+1	2031	S18	W44	.709	15748	9.5	14	-N			40	.6			
BIGB	12	2017	2026	2029	S18	W44	.709	15748	9.5	12	-N	2	C	2026	40			
CULG	12	2021	2026	2031	S16	W44	.704	15748	9.5	10	-F	C	2026	80	1.1			
RAMY	12	2024	2027	2033	S18	W45	.720	15748	9.5	9	-B	3	C	27				
261 CULG	12	2024	2029	2052	N15	E04	.336	15754	13.2	28	-F	C	2029	90	1.0		Y5	
262 CULG	12	2031	2035	2049	S16	W45	.716	15748	9.5	18	-F	C	2035	90	1.3		Y5	
GRP71263	12	2100	2114+0	2124	N17	W16	.446	15754	11.7	24	-N			130	1.4			
CULG	12	2100	2114	2124	N16	W22	.496	15754	11.2	24	-F	C	2114	70	.8			
RAMY	12	2111E	2114	2123D	N17	W17	.455	15754	11.6	12D	-B	2	C	141			FDE	
CULG	12	2111	2113	2124	N18	W10	.412	15754	12.1	13	-N	C	2113	60	.7			
BIGB	12	2112	2114	2123	N19	W10	.426	15754	12.1	11	-N	3	C	2114	130			
GRP71264	12	2133+5	2142 2205+8	2236	N16	E02	.347	15754	13.0	63	-F						F	
BIGB	12	2133	2142	2143	N16	E01	.346	15754	13.0	10	-N	3	C	2141	60			
CULG	12	2138	2213	2239	N16	E03	.349	15754	13.1	61	-F	C	2213	100	1.1		F	
BIGB	12	2150	2205	2207	N17	E02	.364	15754	13.1	17	-N	3	C	2205	65			
BIGB	12	2208	2209	2211	N17	E02	.364	15754	13.1	3	-N	3	C	2209	65			
BIGB	12	2214	2226	2233	N16	E02	.347	15754	13.1	19	-N	3	C	2226	40			

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq Deg	
					LAT.	MER. DIST.												
GRP71265	12	2138+9	2157+0	2207	S16	W45	.716	15748	9.5	29	-N							
CULG	12	2138	2157	2209	S16	W45	.716	15748	9.5	31	-B	C	2157	70	1.0			
BIGB	12	2153	2157	2205	S17	W46	.729	15748	9.5	12	-N	2	C	2157	65			
GRP71266	12	2237+9	2255+0	2304	N15	W23	.497	15754	11.2	27	-F							
CULG	12	2237	2255	2307	N15	W23	.497	15754	11.2	30	-F	*	C	2255	120	1.4		
BIGB	12	2253	2255	2300	N16	W23	.507	15754	11.2	7	-N	*	C	2255	50			
GRP71267	12	2248+3	2254+3	2313	N14	E01	.313	15754	13.0	25	-F							
BIGB	12	2248	2254	2301	N15	E01	.330	15754	13.0	13	-N	*	C	2254	65		F	
CULG	12	2251	2257	2325	N13	E02	.298	15754	13.1	34	-F	*	C	2257	60	.6	F	
268 CULG	12	2340	2345	2354	S25	E40	.690	15762	16.0	14	-N		C	2345	10	.1	Y5	
	13	0137	0145	NO FLARE PATROL														
	13	0036	0041	NO FLARE PATROL														
GRP71269	13	0300+9	0315	03230	N15	W02	.333	15754	13.0	23	-N							
CULG	13	0300	0338U	0400	N15	W03	.335	15754	12.9	60	-N		C	0338	80	.9	HJ FT	
VORO	13	0313	0315	0323	N16	W02	.349	15754	13.0	10	-N		C	0315	72	.8	EHJ	
GRP71270	13	0306+0	0308+1	0316	S12	W41	.659	15748	10.1	10	-N							
CULG	13	0306	0309	0318	S12	W42	.672	15748	10.0	12	-B		C	0309	30	.4	D	
VORO	13	0306	0308	0313	S13	W41	.661	15748	10.1	7	-N		C	0308	72	1.0	D	
271 CULG	13	0356	0359	0403	N18	W25	.549	15754	11.3	7	-N	*	C	0359	40	.5	Y5	
GRP71272	13	0651+9	0708+1	0725	N16	W02	.349	15754	13.1	34	-N							
CULG	13	0651	0708	0727	N17	W03	.367	15754	13.1	36	-N		C	0708	100	1.1	J T	
ABST	13	0704	0709	0725	N16	W02	.349	15754	13.1	21	-N		C	0709	80	.9	EJ	
MANI	13	0711E	0711U	0715	N13	W02	.300	15754	13.1	40	-B	3	C	0715	131	1.4	F	
273 CULG	13	0731	0738	0808	N16	W05	.357	15754	12.9	37	-N		C	0738	80	.9	FT Y5	
GRP71274	13	0832	0845+3	0913	N15	W08	.357	15754	12.8	41	-N							
MONT	13	0832	0848	0920	N16	W07	.366	15754	12.8	48	-N		C	0848	110	1.2	EK	
CATA	13	0845E	0845	0905	N14	W12	.372	15754	12.5	200	-B	2	P	0845	56	2.0	EK	
CATA	13	0845E	0845	0855	N16	W05	.357	15754	13.0	100	-N	2	P	0845	56	1.9		
275 MONT	13	1003	1009	1014	S13	W47	.734	15748	9.9	11	-F		C	1009	50		E Y5	
GRP71276	13	1003+1	1006+2	1014	N14	W12	.372	15754	12.5	11	-N							
HTPR	13	1003	1006	1016	N14	W13	.381	15754	12.4	13	-N	*	C	1006	110	1.2	E	
MONT	13	1004	1008	1012	N14	W11	.364	15754	12.6	8	-B	*	C	1008	80	.8	E	
277 HTPR	13	1046	1050	1102	S25	E30	.580	15762	15.7	16	-F		C	1050	150		E Y5	
GRP71278	13	1059+5	1105+3	1119	N15	W09	.363	15754	12.8	20	1N							
HTPR	13	1059	1105	1116	N15	W10	.370	15754	12.7	17	1N		C	1105	230	2.5		
MONT	13	1104	1108	1121	N15	W09	.363	15754	12.8	17	1B		C	1108	220	2.3	EF	
GRP71279	13	1144+1	1149+8	1213	N16	W07	.366	15754	13.0	29	1N							
MONT	13	1144	1157	1214	N18	W05	.389	15754	13.1	30	-B		C	1157	200	2.1	EJ	
HTPR	13	1145	1149	1208	N16	W06	.361	15754	13.0	23	-N		C	1149	220	1.0	E	
LVOV	13	1149E	1153	12080	N18	W06	.393	15754	13.0	190	1F		C	1153	100	1.0	E	
MONT	13	1200	1204	1216	N14	W11	.364	15754	12.7	16	-N		C	1204	200	2.2	EJ	
HUAN	13	1201E		1213	N15	W10	.370	15754	12.8	120	-F	1	P		80		E	
280 HTPR	13	1229	1233	1235	N15	W10	.370	15754	12.8	6	-F		C	1233	20	.2	E Y5	
GRP71281	13	1323	1342	1415	N14	W09	.349	15754	12.9	52	-N							
HTPR	13	1323	1342	1410	N15	W09	.363	15754	12.9	47	-F		C	1342	120	1.3	EK	
LOCA	13	1348E	1348	1415	N14	W09	.349	15754	12.9	270	-N		V	1348	130	1.3	EK	
HUAN	13	1349E		14100	N15	W08	.357	15754	13.0	210	1N	1	P	1354	122	1.3	E	
RAMY	13	1404E	1405U	1431	N14	W11	.364	15754	12.8	270	-B	3	C		220	2.4	E	
282 HUAN	13	1349E	1352	1357	S19	W58	.852	15748	9.2	80	-F	1	P	1352	77		D Y5	
283 RAMY	13	1532	1538	1545	S26	E01	.369	15757	13.7	13	-N	3	C		31		Y5	
GRP71284	13	1532+5	1539+4	1548	N15	W11	.378	15754	12.8	16	-N							
HTPR	13	1532	1539	1545	N15	W11	.378	15754	12.8	13	-F		C	1539	110	1.2		
RAMY	13	1534	1542	1555	N14	W11	.364	15754	12.8	21	-B	3	C		40	.4		
HUAN	13	1537	1543	1548	N15	W09	.363	15754	13.0	11	-N	1	C	1543	126	1.2		

96
Misc
Jan 79

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX PHASE	END	APPROX		CENTRAL DISTANCE	McMATH FLARE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA		CORR AREA
					LAT.	MER. DIST											
285 HUAN	13	1549		1559	N17	W08	.387	15754	13.1	10	-F	1	C	1557	30	.3	Y5
286 RAMY	13	1614	1614	1626	N14	W12	.372	15754	12.8	12	-B	3	C		38		Y5
GRP71287	13	1652+4	1657+0	1703	N17	W08	.387	15754	13.1	11	-N				30	.3	F
BIGB	13	1652	1657U	1702	N18	W08	.402	15754	13.1	10	-N	2	P	1657	15		F
RAMY	13	1656	1657	1703	N17	W08	.387	15754	13.1	7	-B	3	C		38		
288 BIGB	13	1705	1730	1737	N17	W09	.393	15754	13.0	32	-N	2	C	1730	15		Y5
289 BIGB	13	1738	1738	1747	N18	W09	.407	15754	13.1	9	-N	2	C	1738	10		Y5
GRP71290	13	1816+2	1818+1	1834	S22	W56	.838	15748	9.6	18	-N				35	.7	F
BIGB	13	1816	1818	1833	S27	W58	.863	15748	9.4	17	-N	1	C	1818	30		F
RAMY	13	1818	1819	1834	S17	W55	.822	15748	9.6	16	-B	3	C		38		
GRP71291	13	1825	1835	1922	N16	W12	.400	15754	12.9	57	-N				70	.8	F
			1910+2														
RAMY	13	1825	1835	1841	N17	W09	.393	15754	13.1	16	-B	3	C		42		F
BIGB	13	1834U	1912	1917U	N16	W12	.400	15754	12.9	430	-N	1	P	1912	60		F
RAMY	13	1902E	1912	19230	N17	W11	.406	15754	13.0	210	-B	3	C		86		F
HOLL	13	1907	1910	1921	N15	W14	.404	15754	12.7	14	-N	2	C		46		
GRP71292	13	1931+0	1933	2013	N16	W10	.385	15754	13.1	42	1N				340	3.7	F
			1959														
BIGB	13	1916	1959	2100U	N15	W11	.378	15754	13.0	1040	-N	3	P	1959	50		F
HOLL	13	1931	1933	2002	N15	W14	.404	15754	12.8	31	1B	2	C		230		F
HUAN	13	1931		2013	N17	W10	.399	15754	13.1	42	1N	2	P	1934	340	3.8	E
RAMY	13	1936E	1936U	19380	N17	W09	.393	15754	13.1	20	1B	3	C		464		F
293 CULG	13	2018	2021	2030	S28	W02	.403	15757	13.7	12	-F		C	2021	40	.4	Y5
GRP71294	13	2045+2	2046+1	2054	S24	E30	.573	15762	16.1	9	-N				90	1.1	E
CULG	13	2045	2046	2054	S24	E29	.561	15762	16.0	9	-B		C	2046	100	1.2	
HOLL	13	2046	2047	2051	S23	E33	.601	15762	16.3	5	-N	3	C		71		
BIGB	13	2046	2047	2054	S24	E30	.573	15762	16.1	8	-N	3	C	2047	120		
HUAN	13	2047	2047	2056	S24	E30	.573	15762	16.1	9	-N	2	C	2047	70	.8	E
295 CULG	13	2057	2059	2111	N15	W11	.378	15754	13.0	14	-F		C	2059	100	1.1	Y5
296 CULG	13	2058	2101	2109	N15	W34	.627	15754	11.3	11	-F	*	C	2101	50	.7	Y5
297 BIGB	13	2134E	2134U	2137	N15	E05	.341	15749	14.3	30	?N	2	P	2134	50		Y5
		IMP.1	NO :	HOLL													
298 BIGB	13	2134E	2134U	2138	N08	W80	.987	15769	7.9	40	1N	2	P	2134	70		Y5
299 CULG	13	2203	2208	2213	S12	W52	.788	15748	10.0	10	-F		C	2208	30	.5	Y5
GRP71300	13	2230	2232	2302	N08	E60	.876	15768	18.4	32	-N						
			2237														
BIGB	13	2230	2232	2237	N08	E60	.876	15768	18.4	7	-N	2	C	2232	50		
BIGB	13	2231	2237	2302	N08	E60	.876	15768	18.4	31	-N	2	C	2237	100		
GRP71301	13	2235+1	2237+1	2308	S18	W58	.851	15748	9.6	33	-N				45	.9	
CULG	13	2235	2238	2310	S18	W60	.867	15748	9.4	35	-N		C	2238	60	1.2	
HOLL	13	2236	2237	2306	S18	W56	.833	15748	9.7	30	-B	3	C		34		FDE
GRP71302	13	2237+0	2242	2312	S22	E22	.465	15762	15.6	35	-F				45	.5	
			2251+5														
CULG	13	2237	2251	2319	S22	E20	.442	15762	15.4	42	-F		C	2251	40	.4	
BIGB	13	2237	2242	2254U	S22	E26	.511	15762	15.9	170	-N	2	C	2242	50		
BIGB	13	2245	2256	2305	S23	E22	.474	15762	15.6	20	-N	2	C	2256	50		
303 HOLL	13	2243	2244	2306	N08	W76	.974	15749	8.2	23	-N	3	C				Y5
304 HOLL	13	2245	2245	2248	N15	W15	.413	15754	12.8	3	-N	3	C		116		F
305 CULG	13	2341	2405	0015	S20	W60	.869	15748	9.5	34	-F		C	2405	40	.9	Y5
GRP71306	14	0058+0	0105+1	0121	S13	W54	.809	15748	10.0	23	-N						E
VORO	14	0058	0105	0117	S14	W54	.809	15748	10.0	19	1F		C	0105	233	4.2	E
CULG	14	0058	0106	0124	S13	W55	.818	15748	9.9	26	-N		C	0106	60	1.1	

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq Deg
					LAT.	MER. DIST											
GRP71307	14	0128+4	0133+0 0140	0151D	S17	W61	.875	15748	9.5	23	-N		60	1.3	E		
CULG	14	0128	0133	0151	S18	W63	.891	15748	9.3	23	-N	C	0133	40	.9		
VORO	14	0132	0133	0151	S18	W63	.891	15748	9.3	19	-N	C	0133	90	E		
VORO	14	0137	0140	0145	S16	W58	.848	15748	9.7	8	-N	C	0140	63	1.1		
VORO	14	0148	0157	0229	S14	W54	.809	15748	10.0	41	1F	C	0157	125	2.1		
GRP71308	14	0139+2	0144+0	0150	N15	W36	.651	15754	11.4	11	-N		70	.9	D		
CULG	14	0139	0144	0151	N15	W36	.651	15754	11.4	12	-N	C	0144	60	.8		
VORO	14	0141	0144	0148	N15	W37	.662	15754	11.3	7	-N	C	0144	81	1.0		
309 VORO	14	0141	0146	0150	S20	E15	.364	15762	15.2	9	-N	C	0146	63	.6	DHK Y5	
310 VORO	14	0152	0152	0201	N16	W20	.476	15754	12.6	9	-N	C	0152	45	.5	E Y5	
311 VORO	14	0157	0158	0203	S26	E15	.364	15762	15.2	6	-N	C	0158	45	.5	DH Y5	
312 VORO	14	0318	0319	0325	S24	E26	.527	15762	16.1	7	-N	C	0319	99	1.1	E Y5	
GRP71313	14	0338+0	0341+0	0346	S21	W11	.337	15757	13.3	8	-F				D		
CULG	14	0338	0341	0347	S21	W11	.337	15757	13.3	9	-F	C	0341	10	.1		
VORO	14	0338	0341	0344	S22	W11	.351	15757	13.3	6	-N	C	0341	63	.6		
314 CULG	14	0508	0515	0528	S18	W65	.905	15748	9.3	20	-N	C	0515	40	.9	Y5	
315 CULG	14	0538	0545	0559	N15	E00	.333	15769	14.2	21	-F	C	0545	40	.4	Y5	
GRP71316	14	0552	0602+3	0632	N16	W16	.436	15754	13.0	40	-F		80	.9	J		
CULG	14	0552	0605	0635	N16	W15	.427	15754	13.1	43	-F	C	0605	60	.8		
ABST	14	0555E	0602	0623	N17	W17	.458	15754	13.0	28D	-N	P	0602	105	1.2	FJ	
ABST	14	0555E	0604	0629	N15	W18	.444	15754	12.9	34D	-N	P	0604	87	1.0	EJ	
317 CULG	14	0558	0606	0618	S24	E24	.504	15762	16.0	20	-F	C	0606	40	.5	Y5	
GRP71318	14	0558+9	0608+1	0620	S21	W12	.346	15757	13.3	22	-N				DJK		
ABST	14	0558	0608	0618	S22	W12	.359	15757	13.3	20	1N	* C	0608	201	2.2	DJK	
CULG	14	0608	0609	0622	S21	W13	.356	15757	13.3	14	-N	* C	0609	80	.9		
GRP71319	14	0651+1	0709 0718+3	0811	N18	W39	.701	15754	11.4	80	-N		90	1.2	JS		
CULG	14	0640	0721U	0805D	N18	W39	.701	15754	11.4	85D	-N	P	0721	80	1.1	JS	
TELV	14	0651	0709	0810	N18	W37	.680	15754	11.5	79	-N	C	0709	98	1.3	F	
ABST	14	0652	0718	0812	N16	W39	.690	15754	11.4	80	-N	C	0718	114	1.6	DJ	
320 ABST	14	0715	0716	0725	N14	W04	.323	15769	14.0	10	-F	C	0716	87	1.0	DJV Y5	
GRP71321	14	0715+1	0717+1	0730	N15	W16	.424	15754	13.1	15	-F		70	.8	DJ		
ABST	14	0715	0717	0727	N16	W16	.436	15754	13.1	12	-N	* C	0717	87	1.0	DJ	
CULG	14	0716	0718	0732	N15	W17	.434	15754	13.0	16	-F	* C	0718	60	.8		
322 ABST	14	0730	0735	0854D	N16	W01	.350	15769	14.2	84D	-F	P	0735	175	1.9	DJ Y5	
323 KANZ	14	0932	0932	0939D	S18	W67	.919	15748	9.4	70	-F	1			Y5		
	14	1018	1030	NO FLARE PATROL													
GRP71324	14	1148+1	1151+4 1204	1205	N17	W19	.477	15754	13.1	17	-N						
HPR	14	1148	1151	1205	N17	W19	.477	15754	13.1	17	-B	C	1151	60	.6	E	
TELV	14	1149	1155	1205	N17	W19	.477	15754	13.1	16	-N	C	1158	122	1.3	F	
CATA	14	1200E	1200	1200D	N17	W20	.487	15754	13.0		-N	1 P	1200	56	1.8		
RAMY	14	1203E	1204U	1210	N14	W23	.490	15754	12.8	7D	-B	2 C		26			
GRP71325	14	1203+9	1240 1252+6	1310	S17	W65	.905	15748	9.6	67	-N						
RAMY	14	1203E	1240	1259D	S14	W61	.873	15748	9.9	56D	-F	3 C		33			
HPR	14	1252	1252	1257	S19	W67	.919	15748	9.5	5	-F	C	1252	10	.2		
RAMY	14	1255	1258	1323	S18	W67	.919	15748	9.5	28	-B	3 C		44			
326 HPR	14	1256	1257	1306	N17	W19	.477	15754	13.1	10	-N	C	1257	80	.8	E Y5	
GRP71327	14	1437+7	1440 1456	1459	N14	W24	.502	15754	12.8	22	-N				E		
HPR	14	1437	1440	1455	N15	W25	.522	15754	12.7	18	-F	C	1440	20	.2	E	
RAMY	14	1444	1456	1502	N14	W24	.502	15754	12.8	18	-B	3 C		46			

98
Misc
Jan 79

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS COND. TYPE	MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH FLARE REGION	CMP DAY				TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.				
					LAT.	MER. DIST													
GRP71328	14	1452+4	1455+2	1509	N14	W05	.327	15769	14.2	17	-F								
HTPR	14	1452	1455	1502	N15	W05	.343	15769	14.2	10	-F		1455	45	.5				
RAMY	14	1456	1457	1515	N14	W06	.332	15769	14.2	19	-N	3	C	64	.3				
329 RAMY	14	1507	1507	1526	S24	W12	.386	15757	13.7	19	-N	3	C			23		Y5	
330 RAMY	14	1542	1557	1616	S24	W13	.394	15757	13.7	34	-N	3	C			53		F Y5	
GRP71331	14	1609+1	1613+1	1630	N16	W43	.734	15754	11.4	21	-N					110	1.6	F	
RAMY	14	1609	1613	1630	N17	W41	.717	15754	11.6	21	-B	3	C			130		F	
HOLL	14	1610	1614	1630	N16	W45	.754	15754	11.3	20	-N	2	C			88			
GRP71332	14	1626+7	1638+0	1700	S18	W68	.925	15748	9.6	34	-B							F	
HOLL	14	1626	1638	1707	S16	W65	.905	15748	9.8	41	-B	*	C			177		F	
HUAN	14	1632E		1636D	S19	W68	.926	15748	9.6	40	-F	*	P	1636		25		D	
RAMY	14	1633	1638	1653	S18	W69	.932	15748	9.5	20	-B	*	C			60		F	
333 RAMY	14	1630	1631	1650	S24	W13	.394	15757	13.7	20	-N	3	C			20		F Y5	
334 HOLL	14	1701	1702	1707	N15	W26	.534	15754	12.8	6	-N	3	C			55		F Y5	
335 RAMY	14	1722	1724	1732	S24	W13	.394	15757	13.7	10	-N	3	C			43		F Y5	
GRP71336	14	2001+3	2005	2011	S20	W69	.932	15748	9.7	10	-F					25		D	
HUAN	14	2001		2007D	S21	W70	.938	15748	9.6	6D	-F	2	P	2005		20		D	
CULG	14	2004	2005	2011	S19	W68	.926	15748	9.7	7	-N		C	2005		30			
	14	2128	2133	NO FLARE PATROL															
337 CULG	14	2133E	2134	2149	N28	W04	.540	15759	14.6	16D	-N		C	2134		70	.8	Y5	
338 CULG	14	2304	2307	2327	N17	W26	.551	15754	13.0	23	-B		C	2307		80	1.0	Y5	
339 CULG	15	0105	010E	0112	S15	W70	.937	15748	9.8	7	-N		C	0106		20		Y5	
340 CULG	15	0130	0137	0159	S16	W70	.937	15748	9.8	29	?N		C	0137		90		FT Y5	
		IMP.1 NO : MANI MITK																	
GRP71341	15	0344+1	0346+5	0401	N16	W28	.566	15754	13.1	17	-F					45	.5	E	
CULG	15	0344	0351	0408	N17	W28	.574	15754	13.1	24	-F		C	0351		40	.5		
VORO	15	0345	0346	0354	N16	W29	.578	15754	13.0	9	-N		C	0346		45	.5	E	
GRP71342	15	0358	0420	0540	S21	W75	.963	15748	9.5	102	1N							FS	
			0457																
CULG	15	0358	0420	0540	S25	W78	.975	15748	9.3	102	1N		C	0420		160		SF	
CULG	15	0456	0457	0529	S18	W73	.953	15748	9.7	33	-F	*	C	0457		30		T	
343 CULG	15	0450	0506	0559	N15	W30	.582	15754	13.0	69	-F		C	0506		70	.9	F Y5	
344 ABST	15	0602E	0602	0656	S14	E90	1.000	15774	22.0	540	?N		P	0602		87		ADK Y5	
		IMP.1 NO : CULG																	
345 ABST	15	0644	0645	0655	S25	W23	.502	15757	13.6	11	-N		C	0645		87	1.0	D Y5	
346 ABST	15	0648	0651	0705	S16	W75	.963	15748	9.7	17	1N		C	0651		174		EJ Y5	
GRP71347	15	0712+4	0725+2	0755	N15	W35	.640	15754	12.7	43	2N					400	5.2	FJ	
			0734																
CULG	15	0712	0734U	0809D	N15	W33	.617	15754	12.8	57D	1N		P	0734		180	2.3	F	
ABST	15	0712	0727	0750	N15	W35	.640	15754	12.7	38	2N		C	0727		436	5.9	FJ	
TELV	15	0716	0725	0755	N15	W35	.640	15754	12.7	39	1N		C	0725		367	4.6		
CATA	15	0740E	0745	0745D	N12	W36	.635	15754	12.6	5D	1N	1	P	0745		168	2.0		
348 ABST	15	0714	0715	0732	S16	W81	.985	15748	9.2	18	?N		C	0715		131		FJK Y5	
		IMP.1 NO : CULG																	
349 CULG	15	0739	0743	0801	S18	W75	.963	15748	9.7	22	-N		C	0743		60		T Y5	
350 MONT	15	0835	0848	0919	N12	W38	.659	15754	12.5	44	-N		C	0848		70		Y5	
351 MONT	15	0839	0846	0854	S16	W80	.982	15748	9.4	15	-N		C	0846		60		E Y5	
352 MONT	15	0903	0906	0917	S19	W79	.979	15748	9.5	14	-N		C	0906		60		E Y5	
GRP71353	15	0923+6	0931+1	0939	S21	W77	.971	15748	9.6	16	-N					70			
MONT	15	0923	0931	0938	S20	W79	.979	15748	9.5	15	-N		C	0931		70			
TELV	15	0929	0932	0940	S22	W75	.963	15748	9.8	11	1N		C	0932		81			

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPROVEMENT	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA	CORR AREA	
					LAT.	MER. DIST.											
354 MONT	15	0939	0943	09500	S23	W24	.494	15757	13.6	110	-N	C	0943	60		E	Y5
GRP71355	15	1039+3	1042+3	1106	N15	W33	.617	15754	13.0	27	-F			60	.8	E	
HTPR	15	1039	1042	1101	N16	W33	.623	15754	13.0	22	-F	C	1042	40	.5	E	
TELV	15	1042	1045	1110	N14	W33	.610	15754	13.0	28	-N	C	1045	81	1.0	E	
GRP71356	15	1041>9	1046	1120	S23	W26	.518	15757	13.5	39	-N			45	.5	E	
			1105+0														
MONT	15	1041	1046	1103	S23	W25	.506	15757	13.6	22	-N	C	1046	60		E	
HTPR	15	1102	1105	1120	S23	W29	.953	15757	13.3	18	-F	C	1105	30	.3	E	
CATA	15	1105E	1105	1125	S24	W26	.526	15757	13.5	200	-N	1 P	1105	56	1.8		
357 HTPR	15	1058	1100	1103	S18	W78	.975	15748	9.6	5	-F	C	1100	20			Y5
GRP71358	15	1105+5	1105	1135	S22	W77	.971	15748	9.7	30	1N					E	
CATA	15	1105E	1105	1125	S22	W77	.971	15748	9.7	200	1N	1 P	1105	56	1.6		
TELV	15	1110	1103	1145	S23	W77	.971	15748	9.7	35	1N	C	1103	123		E	
359 RAMY	15	1207	1210	1217	N14	W36	.646	15754	12.8	10	-B	2 C		32		F	Y5
360 RAMY	15	1216	1217	1221	S17	W78	.975	15748	9.7	5	-N	2 C		33			Y5
361 RAMY	15	1227	1230	1243	S24	W27	.537	15757	13.5	16	-B	3 C		37		F	Y5
362 HUAN	15	1306E		14250	S25	W27	.545	15757	13.5	790	-F	1 P	1311	45	.5	E	Y5
363 RAMY	15	1319	1320	1324	S17	W79	.979	15748	9.6	5	-N	3 C		11			Y5
364 RAMY	15	1320	1321	1330	N14	W37	.658	15754	12.8	10	-B	3 C		29			Y5
GRP71365	15	1327+7	1331	1340	S18	W79	.979	15748	9.6	13	1N			90			
			1337+2														
RAMY	15	1327	1340	13420	S17	W79	.979	15748	9.6	150	2B	* V		244		F	
RAMY	15	1327	1340	13420	S17	W79	.979	15748	9.6	150	2B	* V		244		F	
HUAN	15	1329	1337	1337	S19	W87	.997	15748	9.0	8	-F	1 C				E	
HTPR	15	1334	1337	1340	S18	W79	.979	15748	9.6	6	-N	* C	1337	60			
HUAN	15	1335	1339	1340	S18	W81	.985	15748	9.5	5	-N	* C	1339	90			
366 RAMY	15	1332	1335	1343	S22	W02	.302	15762	15.4	11	-N	3 C		29			Y5
GRP71367	15	1347+3	1352+5	1422	N15	W36	.652	15754	12.9	35	-N			120	1.6	E	
HTPR	15	1347	1352	1406	N16	W30	.589	15754	13.3	19	-F	C	1352	40	.5	E	
MCMA	15	1349	1357	1422	N17	W36	.664	15754	12.9	33	-N	C	1357	90	1.2	E	
RAMY	15	1349	1355	13560	N14	W37	.658	15754	12.8	70	1B	3 V		148		F	
RAMY	15	1349	1355	1425	N14	W37	.658	15754	12.8	36	1B	3 C		148		F	
HUAN	15	1350	13530	N16	W35	.646	15754	13.0	30	-N	2 P	1352	130	1.7	E		
368 RAMY	15	1351	1357	1400	S17	W79	.979	15748	9.7	9	-N	3 C		28			Y5
GRP71369	15	1530	1532	1543	S19	W82	.988	15748	9.5	13	1B					F	
RAMY	15	1530	1532	1538	S18	W80	.982	15748	9.6	8	1B	3 C		115		F	
MCMA	15	1537E		15470	S20	W85	.994	15748	9.3	100	-F	P	1537				
370 RAMY	15	1531	1532	1540	N14	W38	.669	15754	12.8	9	-N	3 C		22			Y5
GRP71371	15	1550+9	1553	1652	S21	W00	.283	15762	15.7	62	-B					F	
RAMY	15	1550	1553	1652	S22	W04	.307	15762	15.4	62	-B	3 C		77		F	
HUAN	15	1633		16340	S21	W03	.288	15762	15.9	10	-F	1 P	1633	40	.4		
372 HUAN	15	1620E		16340	N23	W38	.722	15754	12.8	140	-F	1 P					Y5
	15	1825	1845	NO FLARE PATROL													
	15	1936	1959	NO FLARE PATROL													
GRP71373	15	2004+4	2007+3	2055	N16	W37	.669	15754	13.1	51	1N						
CULG	15	2004	20070	20280	N18	W35	.659	15754	13.2	240	1N	P	2007	160	2.2		
RAMY	15	2008	2010	2055	N14	W40	.692	15754	12.8	47	1B	3 C		336		DE	
374 RAMY	15	2026	2026	2030	S17	W83	.990	15748	9.6	4	-B	3 C		18			Y5
	15	2031	2038	NO FLARE PATROL													
375 RAMY	15	2100	2100	2114	S22	W06	.316	15762	15.4	14	-N	3 C		25			Y5
	15	2119	2121	NO FLARE PATROL													
376 CULG	15	2130	2230	2257	S21	W08	.312	15762	15.3	87	-N	C	2230	140	1.5		Y5

100
Misc
Jan 79

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS COND TYPE	MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION				CMP DAY	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.	
					LAT.	MER. DIST											
	15	2135	2213	NO FLARE PATROL													
377 CULG	15	2232	2239	2248	S16	W83	.990	15748	9.7	16	-B	C	2239	20		Y5	
378 CULG	15	2336	2340	2351	S21	W10	.327	15762	15.2	15	-F	C	2340	50	.5	Y5	
379 CULG	16	0119	0123	0131	S15	W86	.996	15748	9.6	12	-N	C	0123	10		Y5	
GRP71380	16	0204+2	0209+2	0220	S20	W11	.321	15762	15.3	16	-F					EJ	
	CULG	16	0204	0211U	0218	S21	W12	.343	15762	15.2	14	-F	C	0211	60	.6	
	VORO	16	0206	0209	0222	S20	W11	.321	15762	15.3	16	-N	C	0209	143	1.5	EJ
GRP71381	16	0226+4	0231+2	0300	N23	E69	.955	15772	21.3	34	1F			110		E	
	CULG	16	0226	0233	0310	N26	E68	.954	15772	21.2	44	1N	C	0233	90		E
	VORO	16	0230	0231	0249	N21	E70	.957	15772	21.4	19	1F	C	0231	125		E
GRP71382	16	0332+2	0335+2	0358	N14	W42	.715	15754	13.0	26	-F					J	
	CULG	16	0332	0337	0408	N15	W42	.719	15754	13.0	36	-F	C	0337	40	.6	
	VORO	16	0334	0335	0347	N14	W43	.726	15754	12.9	13	-N	C	0335	116	1.7	J
383 CULG	16	0413	0418	0430	S25	E05	.357	15762	16.6	17	-F	C	0418	40	.4	Y5	
384 CULG	16	0626E	0631	0721	N15	W45	.751	15754	12.9	550	-N	P	0631	80	1.2	Y5	
385 KAND	16	0705E		0727	S13	W85	.995	15748	9.9	220	?N	C				Y5	
		IMP. 2	NO : MANI	ABST													
GRP71386	16	0724>9	0734+6	0750	S21	W12	.343	15762	15.4	26	-N			130	1.4	EJZ	
	ABST	16	0724	0734	0752	S21	W13	.353	15762	15.3	28	1N	C	0734	262	2.9	EJZ
	CULG	16	0730	0740U	0740D	S21	W12	.343	15762	15.4	100	-N	P	0740	120	1.3	
	KAND	16	0734	0739	0747	S20	W12	.330	15762	15.4	13	-N	C		125	1.4	
GRP71387	16	0732+7	0738+5	0803	N16	W46	.766	15754	12.9	31	2N			350	5.4	EJZ	
	ABST	16	0732	0738	0810	N17	W46	.770	15754	12.9	38	2B	C	0738	436	6.8	EJZ
	CULG	16	0735	0739D	0739D	N17	W45	.760	15754	12.9	40	1N	P	0739	200	3.0	
	MANI	16	0738	0741	0755	N15	W47	.772	15754	12.8	17	1B	3 C		280		
	KAND	16	0739	0743	0755	N16	W46	.766	15754	12.9	16	2N	C		415	6.3	
	MONT	16	0801E	0813	0826	N13	W46	.754	15754	12.9	250	-N	C	0813	70		
388 KAND	16	0739	0751	0817	S13	W85	.995	15748	9.9	38	-N	C				Y5	
389 KAND	16	0822	0903	0915	S13	W85	.995	15748	10.0	53	-N	C				Y5	
GRP71390	16	0848+2	0851+0	0855D	S21	W12	.343	15762	15.5	7	-N					K	
	ISTA	16	0848	0851	0925	S22	W13	.366	15762	15.4	37	-B					K
	MONT	16	0850	0851	0855	S21	W11	.334	15762	15.5	5	-N	C	0851	50		
GRP71391	16	0902+1	0908+1	0915	S20	W11	.321	15762	15.6	13	-N			80	.8	E	
	HPR	16	0902	0909	0915	S19	W12	.318	15762	15.5	13	-N	C	0909	70	.7	E
	MONT	16	0903	0908	0914	S21	W11	.334	15762	15.6	11	-N	C	0908	100		
GRP71392	16	0915+8	0920+8	0935	S20	W13	.340	15762	15.4	20	-N			70	.7	EK	
	ISTA	16	0915	0920	0934	S21	W14	.363	15762	15.3	19	-B					K
	HPR	16	0917	0923	0935	S18	W14	.328	15762	15.3	18	-B	C	0923	70	.7	E
	MONT	16	0918	0920	0938	S21	W11	.334	15762	15.6	20	-N	C	0920	70		E
	KAND	16	0923	0928	0933	S20	W12	.330	15762	15.5	10	-N	C		73	.8	
GRP71393	16	0936>9	0953+1	1032	N17	E61	.899	15772	21.0	56	-N					E	
			1005														
	KAND	16	0936	0954	1037	N19	E61	.903	15772	21.0	61	-N	C		83	1.8	
	ISTA	16	0938	0953	1023	N17	E63	.912	15772	21.1	45	-N					D
	MONT	16	0941	1015	1031	N17	E61	.899	15772	21.0	50	-N	C	1015	60		
	HPR	16	0947	1005	1032	N17	E60	.892	15772	20.9	45	-F	C	1005	50	1.0	E
	ISTA	16	0950	0954	1023	N16	E61	.897	15772	21.0	33	-N					D
394 KAND	16	0944	0948	0958D	S13	W85	.995	15748	10.0	140	-N	C				Y5	
395 KAND	16	1026		1056	S13	W85	.995	15748	10.1	30	-N	C				Y5	
GRP71396	16	1036+5	1038+7	1108	S20	W15	.362	15762	15.3	32	1N			230	2.5	E	
	MONT	16	1036	1039	11150	S20	W15	.362	15762	15.3	390	1N	C	1039	250		
	HPR	16	1037	1039	1110	S19	W15	.350	15762	15.3	33	1B	C	1039	220	2.2	E
	KANZ	16	1038	1038	1057	S21	W14	.363	15762	15.4	19	-B	1				
	ATHN	16	1040E	1045	1055D	S15	W16	.323	15762	15.2	150	-N	1	1045	131	1.3	
	KAND	16	1041	1043	1105	S20	W12	.330	15762	15.5	24	-N	C				
397 KAND	16	1117		1205	S13	W85	.995	15748	10.1	48	-N	C				Y5	

H α SOLAR FLARES
JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPOR-TANCE	OBS		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA		CORR AREA
					LAT.	MER. DIST.											
GRP71398	16	1141+4	1146+2	1209	N19	E61	.903	15772	21.1	28	-F						
HTPR	16	1141	1146	1200	N17	E59	.884	15772	20.9	19	-F	C	1146	60	1.3		
KAND	16	1145	1148	1218	N22	E64	.927	15772	21.3	33	-N	C		50	1.0		
														83	1.9		
GRP71399	16	1222+0	1223+2	1230D	N14	W49	.789	15754	12.8	8	-N			50	.8	F	
KAND	16	1222	1225	1226D	N14	W50	.798	15754	12.8	40	-N	C		42	.7		
RAHY	16	1222E	1223	1230D	N14	W49	.789	15754	12.8	80	-B	3 C		60		F	
400 KAND	16	1226		1226D	S13	W85	.995	15748	10.1		-N	C				Y5	
GRP71401	16	1354+7	1400+4	1408	N20	E60	.898	15772	21.1	14	-N			30	.7	E	
MCMA	16	1354	1400	1408	N21	E63	.919	15772	21.3	14	-N	C	1400	70	1.7	E	
RAHY	16	1400E	1402	1409D	N17	E60	.892	15772	21.1	90	-B	3 C		33			
HTPR	16	1401	1404	1405	N20	E58	.883	15772	20.9	4	-F	C	1404	20	.4		
GRP71402	16	1410	1416+1	1459	N15	W49	.792	15754	12.9	49	-N			110	1.8	H	
MCMA	16	1410	1417	1503D	N17	W50	.808	15754	12.8	53D	-N	C	1417	100	1.7	E	
RAHY	16	1414E	1416	1455	N14	W49	.789	15754	12.9	410	-B	3 C		128		F H	
403 MCMA	16	1536E	1543	1600D	N25	W51	.845	15754	12.8	240	-F	C	1543	20	.4	D Y5	
404 MCMA	16	1554	1555	1558	N21	E71	.962	15772	22.0	4	-B	C	1555	40	1.6	DV Y5	
GRP71405	16	1620+1	1624+1	1631	N15	W51	.811	15754	12.9	11	-N			30	.5		
MCMA	16	1620	1624	1630	N15	W52	.820	15754	12.8	10	-F	C	1624	25	.5	D	
RAHY	16	1621	1625	1632	N15	W51	.811	15754	12.9	11	-B	3 C		28		F	
GRP71406	16	1631+2	1633+3	1646	N11	W42	.703	15773	13.5	15	-N			40	.6		
MCMA	16	1631	1636	1650	N12	W43	.718	15773	13.5	19	-N	C	1636	50	.7	E	
RAHY	16	1633	1633	1641	N11	W41	.691	15773	13.6	8	-N	3 C		29		F	
GRP71407	16	1750	1758	1823	S21	W18	.406	15762	15.4	33	-B			90	1.0		
RAHY	16	1750	1758	1822D	S22	W18	.416	15762	15.4	320	-B	3 C		130		F	
MCMA	16	1803E		1823	S21	W18	.406	15762	15.4	200	-N	P	1803	60	.7	E	
GRP71408	16	1839+4	1843+2	1906	S15	W23	.421	15761	15.1	27	1B			260	2.9	H	
MCMA	16	1839	1845	1915	S15	W23	.421	15761	15.1	36	1B	C	1845	200	2.3	EH	
PALE	16	1843	1843	1857	S15	W23	.421	15761	15.1	14	1B	3 C		330		F	
GRP71409	16	1853+2	1855+1	1906	N16	W50	.805	15754	13.0	13	-B			50	.8		
MCMA	16	1853	1855	1905	N17	W51	.817	15754	13.0	12	-B	C	1855	50	1.0	E	
PALE	16	1855	1856	1907	N15	W50	.802	15754	13.0	12	-B	3 C		64		F	
GRP71410	16	1938	1946	2005	S21	W17	.395	15762	15.5	27	-B						
			1956														
PALE	16	1938	1946	1959	S22	W16	.395	15762	15.6	21	-B	3 C		49		F	
MCMA	16	1948E	1956	2010D	S21	W18	.406	15762	15.5	220	-B	C	1956	70	.8	E	
411 MCMA	16	1958E	2000	2005D	N16	W53	.832	15754	12.9	70	-F	P	2000	60	1.2	E Y5	
412 PALE	16	2102	2102	2112	N15	W54	.838	15754	12.8	10	-N	3 C		31		DE Y5	
	16	2118	2135	NO FLARE PATROL													
GRP71413	16	2140	2157	2324	N20	W54	.852	15754	12.9	104	2N			400	7.4	JUV	
			2246+1														
PALE	16	2140	2157	2211	N15	W55	.847	15754	12.8	31	1B	3 C		154		DE	
CULG	16	2153E	2247	2333D	N24	W55	.872	15754	12.8	1000	2N	C	2247	460	9.2	JUV	
PALE	16	2217	2221	2223	N17	W53	.835	15754	13.0	6	-N	3 C		42			
PALE	16	2224	2246	2310	N17	W53	.835	15754	13.0	46	2B	3 C		340		U F	
PALE	16	2311	2311	2314	N17	W53	.835	15754	13.0	3	-N	3 C		36		DE	
414 CULG	16	2242	2250	2311	S27	W07	.396	15762	16.4	29	-F	C	2250	80	.9	Y5	
415 CULG	16	2259	2305	2328	N20	E58	.883	15772	21.3	29	-N	C	2305	40	.9	Y5	
416 CULG	17	0005	0008	0023	S20	W23	.455	15762	15.3	18	-N	C	0008	90	1.0	Y5	
417 PALE	17	0134	0135	0140	N15	W56	.856	15754	12.9	6	-N	3 C		30		Y5	
418 PALE	17	0233	0234	0236	N15	W57	.864	15754	12.8	3	-N	3 C		21		Y5	
GRP71419	17	0240+1	0243+2	0253	S20	W23	.455	15762	15.4	13	-N			70	.8	E	
CULG	17	0240E	0245	0253	S20	W25	.480	15762	15.2	130	-F	C	0245	70	.8	E	
PALE	17	0241	0244	0247	S22	W18	.415	15762	15.8	6	-N	3 C		72		DE	
MITK	17	0241	0243	0253	S20	W23	.455	15762	15.4	12	-N	C	0243			E	

102
Misc
Jan 79

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH FLARE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA	CORR AREA			
					LAT.	MER. DIST												Mill of Disk	Sq. Deg.
420 ABST	17	0836	0344	0902D	S25	W26	.532	15762	15.4	260	-F	P	0844	44	.5	0	Y5		
GRP71421	17	0901+3	0904+2	0918	N17	W58	.877	15754	13.0	17	1N			120	2.4				
ABST	17	0901	0904	0907D	N17	W58	.877	15754	13.0	60	1N	P	0904	148	3.0	E			
TELV	17	0903	0906	0925	N17	W56	.861	15754	13.2	22	1N	C	0906	123	2.2	D			
MONTE	17	0904	0906	0910	N17	W60	.892	15754	12.9	6	-F	C	0906	50					
422 TELV	17	0921	0927	0936	N11	W49	.780	15773	13.7	15	-N	C	0927	61	.9	F	Y5		
GRP71423	17	0942+3	0944+2	0959	N19	E48	.797	15772	21.0	17	-F			45	.7	E			
HPR	17	0942	0944	1005	N20	E48	.801	15772	21.0	23	-N	C	0944	40	.6				
MONTE	17	0945	0946	0952	N19	E49	.806	15772	21.1	7	-F	C	0946	50		E			
424 HPR	17	1150	1153	1202	S19	W22	.435	15762	15.8	12	-F	C	1153	20	.2		Y5		
	17	1223	1305	NO FLARE PATROL															
	17	1313	1317	NO FLARE PATROL															
425 RAMY	17	1317E	1317U	1320	N15	W63	.910	15754	12.8	30	-N	2 C		14			Y5		
426 RAMY	17	1317E	1318	1327	S15	E51	.779	15774	21.4	100	-N	* C		33			Y5		
427 RAMY	17	1326	1334	1400	N15	W63	.910	15754	12.8	34	-N	2 C		14			Y5		
	17	1411	1421	NO FLARE PATROL															
GRP71428	17	1426+1	1428	1443	S15	E53	.799	15774	21.6	17	-N			30	.5				
HUAN	17	1426E		1446	S15	E56	.829	15774	21.8	200	-N	* P	1429	30	.5	T			
RAMY	17	1427	1428	1440	S15	E51	.779	15774	21.4	13	-B	* C		34					
429 HUAN	17	1427		1431	N18	W64	.921	15754	12.8	4	-F	1 C					Y5		
GRP71430	17	1445+6	1452+1	1500	N14	W66	.928	15754	12.7	15	-N			30					
HUAN	17	1445	1453	1458	N14	W68	.940	15754	12.5	13	-N	1 C	1453	40					
RAMY	17	1451	1452	1501	N15	W64	.916	15754	12.8	10	-N	3 C		22					
431 HUAN	17	1526		1531	S26	E60	.875	0	22.1	5	-F	1 C					Y5		
GRP71432	17	1527+9	1527	1611	N14	W65	.921	15754	12.8	44	-N								
RAMY	17	1527	1527	1618	N15	W64	.916	15754	12.8	51	-B	3 C		14					
HUAN	17	1546		1604	N14	W67	.934	15754	12.6	18	-F	1 C	1550	45					
433 HUAN	17	1528	1529	1532	S25	W24	.510	15762	15.8	4	-N	1 C	1529	60	.7		Y5		
GRP71434	17	1611+6	1617+2	1636	N18	E45	.764	15772	21.0	25	-N			70	1.1	E			
HUAN	17	1611	1619	1630D	N19	E45	.769	15772	21.0	190	-N	2 P	1619	70	1.1	E			
RAMY	17	1617	1617	1636	N17	E46	.770	15772	21.1	19	-B	3 C		69					
GRP71435	17	1832+9	1833	1928	N15	W66	.929	15754	12.8	56	-N								
			1847																
RAMY	17	1832	1833	1848D	N15	W66	.929	15754	12.8	160	-N	3 C		17					
PALE	17	1841	1847	1928	N15	W66	.929	15754	12.8	47	-N	3 C		35		OE			
436 PALE	17	1922	1922	1936	S22	W27	.520	15762	15.8	14	-N	3 C		20		F	Y5		
437 RAMY	17	2003	2010	2038	N15	W67	.935	15754	12.8	35	-B	3 C		19			Y5		
438 PALE	17	2049	2059	2138	N15	W67	.935	15754	12.8	49	1N	3 C		180		OE	Y5		
	17	2217	2230	NO FLARE PATROL															
	17	2300	2320	NO FLARE PATROL															
	17	0750	0805	NO FLARE PATROL															
439 ABST	18	0625	0655	0710	N14	W69	.945	15754	13.1	45	1N	C	0655	105			Y5		
440 ABST	18	0654	0701	0738	S23	W31	.574	15762	16.0	44	-F	C	0701	131	1.7	E	Y5		
GRP71441	18	0835	0835	0853	N14	W72	.960	15754	13.0	18	-B						DJ		
CATA	18	0835	0835	0840	N13	W75	.973	15754	12.7	5	-B	2 C	0835	45	2.2				
ABST	18	0836E	0859	0906D	N15	W70	.952	15754	13.1	300	1N	P	0859	87		DJ			
442 ABST	18	0836E	0839	0906D	S23	E03	.316	15767	18.6	300	?F	P	0839	218	2.4	E	Y5		
		IMP. 1	NO	Y	CATA														
443 CATA	18	0850	0850	0900	S23	W33	.597	15762	15.9	10	-N	2 P	0850	56	1.9		Y5		
444 CATA	18	0915	0915	0920	N12	W75	.972	15754	12.8	5	-B	2 C	0915	28	2.0		Y5		

H α SOLAR FLARES
JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq Deg	
					LAT.	MER. DIST.												
445	RAMY	18	1215	1215	1219	N15	W75	.974	15754	12.9	4	-N	2	C	18		Y5	
		18	1226	1400	NO FLARE PATROL													
		18	0530	0602	NO FLARE PATROL													
		18	0605	0625	NO FLARE PATROL													
446	RAMY	18	1237	1237	1240	N15	W75	.974	15754	12.9	3	-N	2	C	15		Y5	
447	RAMY	18	1237	1238	1243	S15	E42	.676	15774	21.7	6	-N	*	C	22		Y5	
448	RAMY	18	1245	1249	1256	N15	W76	.977	15754	12.8	11	-B	3	C	45		Y5	
449	RAMY	18	1246	1246	1248	S15	E42	.676	15774	21.7	2	-N	2	C	22		Y5	
450	RAMY	18	1343	1354	1407	S15	E41	.663	15774	21.6	24	-B	3	C	99		Y5	
GRP71451	RAMY	18	1416+0	1418+0	1421	N14	W80	.989	15754	12.6	5	-N			35		D	
	FAMY	18	1416	1418	1422	N15	W76	.977	15754	12.9	6	-B	3	C	35			
	HUAN	18	1416	1418	1420	N14	W85	.998	15754	12.2	4	-F	1	C	1418	25	D	
452	HUAN	18	1422		1424	S15	E42	.676	15774	21.7	2	-F	1	C	1422	20	.2	D
453	RAMY	18	1431	1431	1459	S15	E40	.651	15774	21.6	28	-N	3	C	30		Y5	
454	HUAN	18	1446E		14500	N13	W85	.998	15754	12.2	40	-F	1	P			Y5	
GRP71455		18	1517+8	1527+2	1612	S15	E43	.688	15774	21.9	55	-N			120	1.7	E	
	RAMY	18	1517	1527	1641	S15	E39	.638	15774	21.6	84	-B	3	C	119		F	
	HUAN	18	1519	1529	15470	S15	E43	.688	15774	21.9	280	-N	2	P	1529	115	1.6	E
	MCMA	18	1525	1528	1540	S15	E43	.688	15774	21.9	15	-N		C	1528	50	.7	E
	HUAN	18	1607	1610	1636	S15	E43	.688	15774	21.9	29	-F	1	C	1610	80	1.1	E
456	HUAN	18	1621	1625	1633	N13	W85	.998	15754	12.3	12	-F	1	C	1625	30		Y5
GRP71457		18	1631+3	1635+1	1642	S23	W03	.316	15767	18.5	11	-N			40	.4	D	
	MCMA	18	1631	1635	1640	S23	W03	.316	15767	18.5	9	-F		C	1635	30	.3	D
	HUAN	18	1634	1636	1643	S22	W03	.299	15767	18.5	9	-N	2	C	1636	35	.4	
	RAMY	18	1634	1635	1642	S23	W01	.312	15767	18.6	8	-N	3	C	37			
GRP71458		18	1759+9	1807	1825	S15	E39	.638	15774	21.7	26	-B			45	.6		
	RAMY	18	1759	1813	1822	S15	E38	.625	15774	21.6	23	-B	3	C	52			
	HOLL	18	1805	1807	1821	S15	E39	.638	15774	21.7	16	1N	3	C	189		F	
	PALE	18	1812	1813	1826	S11	E39	.630	15774	21.7	14	-B	3	C	41		DE	
	RAMY	18	1823	1823	1825	S15	E38	.625	15774	21.6	2	-N	*	C	35			
459	MCMA	18	1815E		1820	S23	W03	.316	15767	18.5	50	-F		P	1818	30	.3	D
460	PALE	18	1831	1832	1900	S11	E39	.630	15774	21.7	29	-N	*	C	35		Y5	
461	RAMY	18	1835	1841	1845	S24	W42	.703	15762	15.6	10	-N	3	C	41		Y5	
462	RAMY	18	1851	1851	1857	S23	W03	.316	15767	18.6	6	-F	3	C	31		Y5	
GRP71463		18	1852+2	1855+1	1902	N14	W81	.991	15754	12.7	10	-N						
	HCLL	18	1852	1855	1858	N14	W84	.997	15754	12.5	6	-N	3	C				
	RAMY	18	1854	1856	1905	N15	W79	.987	15754	12.9	11	-N	3	C	30			
464	RAMY	18	1923	1924	1928	N15	W79	.987	15754	12.9	5	-N	3	C			Y5	
GRP71465		18	1943+8	1952+5	2046	S15	E39	.638	15774	21.7	63	-N			40	.5	E	
	HUAN	18	1656E		2025	S15	E40	.651	15774	21.7	2090	-F	*	P	2003	85	1.1	E
	PALE	18	1943	1957	2101	S11	E38	.617	15774	21.7	78	-B	*	C	109		F	
	MCMA	18	1950	1952	20140	S15	E41	.663	15774	21.9	240	-N	*	C	1952	40	.6	E
	RAMY	18	1951	1957	2023	S15	E37	.612	15774	21.6	32	-B	*	C	43			
	RAMY	18	2041	2041	2046	S15	E37	.612	15774	21.6	5	-N	*	C	18			
466	RAMY	18	2001	2002	2007	N15	W80	.989	15754	12.8	6	-N	3	C			Y5	
467	RAMY	18	2012	2025	2042	S23	W04	.319	15767	18.5	30	-N	3	C	68		Y5	
468	RAMY	18	2041	2041	2048	N11	E69	.942	15777	24.0	7	-F	3	C	16		Y5	
469	PALE	18	2107	2107	2117	S11	E38	.617	15774	21.7	10	-N	3	C	21		Y5	

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg				
					LAT.	MER DIST														
470 PALE	18	2116	2117	2118	N09	W73	.962	15773	13.4	2	-N	3	C		22			Y5		
471 CULG	18	2206	2218	2236	N15	W90	1.000	15754	12.2	30	-F		C	2218	30			Y5		
472 CULG	18	2324	2333	2345	S22	W40	.673	15762	16.0	21	-F		C	2333	40	.5		Y5		
GRP71473	19	0017+0	0019+1	0040	S23	W41	.688	15762	15.9	23	-F				50	.7		E		
VORO	19	0017	0019	0031	S24	W41	.692	15762	15.9	14	-N		C	0019	63	.8		E		
CULG	19	0017	0020	0049	S22	W41	.684	15762	15.9	32	-F		C	0020	40	.6				
474 CULG	19	0144E	0144E	0155	S23	W23	.479	15762	17.3	110	-F		P	0144	40	.5		Y5		
GRP71475	19	0152+2	0153+2	0157	N15	W89	1.000	15754	12.4	5	-N							H		
VORO	19	0152	0153	0157	N16	W90	1.000	15754	12.3	5	-N		C	0153	45			DH		
PALE	19	0154	0155	0157	N15	W89	1.000	15754	12.4	3	-B	3	C					F		
GRP71476	19	0226+0	0228+1	0238	N19	E36	.679	15772	21.8	12	-N									
PALE	19	0226	0229	0238	N18	E36	.673	15772	21.8	12	-B	3	C		44			FDE		
VORO	19	0226	0228	0237	N20	E36	.686	15772	21.8	11	-N		C	0228	125	1.7		E		
GRP71477	19	0239+0	0240+0	0248	N13	E74	.969	15777	24.7	9	-F				25			D		
PALE	19	0239	0240	0247	N12	E72	.959	15777	24.5	8	-N	3	C		15			DE		
VORO	19	0239	0240	0248	N14	E77	.980	15777	24.9	9	-F		C	0240	27			0		
478 VORO	19	0306	0306	0312	S14	E38	.623	15774	22.0	6	-N		C	0306	134	1.7		EJ	Y5	
	19	0348	0356																	
	19	0407	0416																	
479 CULG	19	0423	0425	0446	S21	W10	.322	15767	18.4	23	-F		C	0425	20	.2			Y5	
	19	0445	0453																	
480 CULG	19	0458	0459	0508	S23	W55	.829	15762	15.1	10	-N		C	0459	30	.4			Y5	
481 CULG	19	0517	0520	0528	N10	E67	.930	15777	24.2	11	-F		C	0520	20			T	Y5	
482 CULG	19	0700	0704	0715	S20	W51	.786	15762	15.5	15	-F		C	0704	10	.2			Y5	
483 CULG	19	0725	0727	0734	S23	W56	.838	15762	15.1	9	-F		C	0727	20	.3			Y5	
GRP71484	19	0739	0740+1	0754	S13	E34	.566	15774	21.9	15	-N									
CULG	19	0739	0741	0759	S14	E35	.583	15774	21.9	20	-F		C	0741	30	.3				
KANZ	19	0740E	0740	0749	S13	E34	.566	15774	21.9	90	-B	1								
485 CULG	19	0739	0744	0808	S24	W76	.967	15757	13.6	29	-F		C	0744	30				Y5	
486 CULG	19	0803	0808	08290	S20	W52	.796	15762	15.4	260	-N		P	0808	50	.9			Y5	
487 KANZ	19	0819	0823	0826	S13	E34	.566	15774	21.9	7	-F	2							Y5	
488 KANZ	19	1008	1012	1027	S12	E30	.507	15774	21.7	19	-N	2							Y5	
489 KANZ	19	1116	1127	1146	N18	E30	.608	15772	21.7	30	-B	2							Y5	
490 KANZ	19	1135	1139	1150	S21	W58	.852	15762	15.1	15	-N	1							Y5	
GRP71491	19	1217+0	1217+0	1229	N19	E24	.554	15772	21.3	12	-F								E	
KANZ	19	1217	1217	1234	N21	E25	.583	15772	21.4	17	-F	2							E	
RAMY	19	1217	1217	1223	N18	E24	.544	15772	21.3	6	-N	3	C		20					
492 RAMY	19	1257	1258	1308	N11	E60	.881	15777	24.0	11	-N	3	C		15				Y5	
GRP71493	19	1308+3	1308	1337	S12	E51	.776	15778	23.4	29	-F									
			1326																	
RAMY	19	1308	1308	1334	S10	E49	.752	15778	23.2	26	-N	3	C		20					
KANZ	19	1311	1326	1340	S15	E53	.799	15778	23.5	29	-F	1								
GRP71494	19	1338+2	1341+3	1412	S24	W54	.822	15762	15.5	34	-N								E	
RAMY	19	1338	1341	1420	S24	W52	.803	15762	15.7	42	-B	3	C		137				FDE	
HUAN	19	1338		1352	S24	W55	.831	15762	15.4	14	-F	1	C	1346	40	.6			E	
KANZ	19	1340	1344	1412	S21	W54	.816	15762	15.5	32	-N	1							E	
GRP71495	19	1347+1	1351+2	1400	S22	W13	.362	15767	18.6	13	-F									
KANZ	19	1347	1351	1400	S22	W12	.353	15767	18.7	13	-F	1								
RAMY	19	1348	1353	1400	S22	W14	.371	15767	18.5	12	-N	3	C		35					

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk		CORR AREA Sq. Deg.	
					LAT.	MER. DIST.												
496 RAMY	19	1424	1428	1455	S24	H53	.813	15762	15.6	31	-N	3	C		39		Y5	
497 RAMY	19	1551	1553	15560	N11	E58	.865	15777	24.0	50	-B	3	C		20		Y5	
GRP71498	19	1556+7	1557 1604	1615	N18	E20	.504	15772	21.2	19	-N						F	
RAMY	19	1556	1557	1620	N18	E20	.504	15772	21.2	24	-N	3	C		30		F	
HOLL	19	1603	1604	1610	N18	E21	.514	15772	21.2	7	-N	3	V		28			
499 BIGB	19	1832	1833	1845	S19	W60	.867	15762	15.3	13	-N	3	C	1833	60		Y5	
500 PALE	19	1914	1915	1924	S23	W16	.403	15767	18.6	10	-N	3	C		34		Y5	
GRP71501	19	2001+3	2007+1	2014	N11	E61	.889	15777	24.4	13	-N				50	1.1		
BIGB	19	2001	2008	2015	N10	E63	.903	15777	24.6	14	-N	3	C	2008	70			
PALE	19	2004	2007	2012	N12	E60	.883	15777	24.3	8	-N	3	C		36			
GRP71502	19	2105+9	2118+9	2140	S18	E38	.634	15775	22.7	35	-N				30	.4		
CULG	19	2105	2118	2140	S19	E38	.638	15775	22.7	35	-N	*	C	2118	30	.4		
BIGB	19	2110	2129	2140	S29	E38	.685	15775	22.7	30	-N	*	C	2129	70			
HOLL	19	2114E	2122U	2134D	S18	E38	.634	15775	22.7	200	-N	*	C		20		F	
PALE	19	2115	2125	2137	S18	E37	.622	15775	22.7	22	-N	*	C		29		DE	
503 BIGB	19	2108		2142D	N20	W17	.500	15771	18.6	340	-N	3	C	2142	120		Y5	
GRP71504	19	2110+2	2117 2131+5	2214	N18	E20	.504	15772	21.4	64	-N				70	.8		
CULG	19	2110	2131	2142D	N15	E23	.504	15772	21.6	320	-F		C	2131	50	.6		
PALE	19	2111	2136	2214	N18	E19	.494	15772	21.3	63	-B	3	C		94		DE	
HOLL	19	2112	2133	2142D	N19	E20	.515	15772	21.4	300	-N	2	C		80		F	
HOLL	19	2112	2117	2142D	N19	E20	.515	15772	21.4	300	-F	2	C		35		F	
505 BIGB	19	2123	2128	2140	N13	W24	.497	15768	18.1	17	-N	3	C	2128	30		Y5	
506 BIGB	19	2128	2129	2131	S12	E90	1.000	15785	26.6	3	-N	3	C	2129	10		Y5	
507 PALE	19	2222	2226	2228	N18	E19	.494	15772	21.4	6	-N	3	C		32		DE	
508 BIGB	19	2228	2239	2325	S16	E19	.370	15774	21.4	57	-N	2	C	2239	150		Y5	
GRP71509	19	2231+9	2240+6	2336	N18	E19	.494	15772	21.4	65	-N				160	1.8		
PALE	19	2231	2241	2344	N18	E18	.485	15772	21.3	73	1B	*	C		222		FDE	
CULG	19	2232	2240	2336	N18	E19	.494	15772	21.4	64	-N	*	C	2240	160	1.8		
BIGB	19	2240	2246	2313	N13	E23	.485	15772	21.7	33	-N	*	C	2246	60			
510 BIGB	19	2232	2233	2234	S13	E90	1.000	15785	26.7	2	-N	3	C	2233	25		Y5	
GRP71511	19	2232+8	2240+4	2251	N10	E61	.888	15777	24.5	19	-N				80	1.7		
CULG	19	2232	2240	2254	N08	E60	.877	15777	24.4	22	-F		C	2240	80	1.8		
BIGB	19	2237	2244	2248	N10	E61	.888	15777	24.5	11	1N	3	C	2244	120			
PALE	19	2240	2240	2251	N10	E67	.930	15777	25.0	11	-N	3	C		21		DE	
512 CULG	19	2352	2357	0015	N11	W18	.406	15768	18.6	23	-F		C	2356	20	.2	Y5	
GRP71513	19	2357+9	0008+5	0022	S19	W62	.883	15762	15.3	25	-F				35	.8	E	
VORO	20	0007	0008	0015	S20	W62	.883	15762	15.4	8	-N		C	0008	45		E	
CULG	19	2357	2413	0029	S18	W62	.882	15762	15.3	32	-F		C	2413	20	.5		
514 KANZ	20	1055	1059	1107	S22	W26	.505	15767	18.5	12	-F	2					E	
515 KANZ	20	1059	1107	1115	N25	W32	.685	0	18.1	16	-N	2					DG	
	20	1123	1145	NO FLARE PATROL														
516 RAMY	20	1207	1207U	1207D	S22	W70	.937	15762	15.3		-N	2	C		89		Y5	
517 KANZ	20	1210	1220	1257	N17	E06	.388	15772	21.0	47	1B	2					Y5	
	20	1301	1644	NO FLARE PATROL														
518 BIGB	20	1644E	1644U	1650	S14	E90	1.000	15785	27.4	60	1N	1	C	1644	50		Y5	
519 BIGB	20	1712	1716	1723	N14	E52	.819	15777	24.6	11	-N	1	C	1716	15		Y5	
520 BIGB	20	1712	1717	1724	N16	E71	.958	15787	26.0	12	-N	1	C	1717	40		Y5	
521 PALE	20	2036	2037	2042	N15	E05	.352	15772	21.2	6	-N	2	C		22		DE	

106
Misc
Jan 79

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq. Deg.		
					LAT.	WER. DIST												
522 BIGB	20	2119	2122	2130	N19	E09	.432	15772	21.6	11	-N	1	C	2122	10		Y5	
523 BIGB	20	2137	2139	2147U	S19	E90	1.000	15785	27.7	10D	-N	1	P	2139	30		Y5	
	20	2225	2247	NO FLARE PATROL														
	20	2314	2326	NO FLARE PATROL														
524 BIGB	20	2331	2332	2333	S19	W76	.967	15762	15.3	2	-N	1	C	2332	15		Y5	
525 PALE	21	0210	0211	0214	S26	E35	.635	15779	23.7	4	-N	3	C		23		DE Y5	
526 CULG	21	0343	0358	0429	N12	W40	.686	15768	18.2	46	-N		C	0358	100	1.4	Y5	
527 CULG	21	0421	0423	0429	N11	E41	.693	15777	24.3	8	-N		C	0423	30	.4	T Y5	
528 CULG	21	0550	0559	0618	N11	W43	.716	15768	18.0	28	-F		C	0559	100	1.4	Y5	
529 CULG	21	0602	0605	0614	N11	W14	.363	0	20.2	12	-F		C	0605	20	.2	Y5	
530 CULG	21	0708	0723	0729	N12	E38	.662	15777	24.1	21	-F		C	0723	20	.3	Y5	
531 CULG	21	0714	0723	0734	N18	E03	.396	15772	21.5	20	-F		C	0723	40	.4	F Y5	
532 RAMY	21	1220	1233	1246	N18	E58	.880	15787	25.9	26	-N	3	C		24		Y5	
533 RAMY	21	1225	1226	1231	N12	E37	.650	15777	24.3	6	-N	3	C		19		H Y5	
534 RAMY	21	1235	1237	1300	N17	E03	.380	15772	21.7	25	-B	3	C		58		F Y5	
535 RAMY	21	1241	1244	1247	S26	E30	.580	15779	23.8	6	-N	3	C		20		Y5	
536 RAMY	21	1312	1314	1332	S22	W85	.993	15762	15.2	20	-B	3	C				F Y5	
GRP71537	21	1511+0	1513+1	1530	N17	00	.377	15772	21.6	19	1B				370	4.0		
HTPR	21	1511	1513	1524	N18	E01	.393	15772	21.7	13	1B		C	1513	300	3.0	E	
RAMY	21	1511	1514	1535	N17	W02	.378	15772	21.5	24	1B	3	C		438		F	
538 RAMY	21	1554	1600	1607	N17	W02	.378	15772	21.5	13	-B	3	C		103		F Y5	
539 RAMY	21	1611	1612	1628	N17	W01	.377	15772	21.6	17	-N	3	C		49		F Y5	
540 RAMY	21	1620	1621	1624	N09	E39	.661	15777	24.6	4	-N	3	C		31		Y5	
541 RAMY	21	1731	1731	1739	N17	W04	.382	15772	21.4	8	-N	3	C		43		Y5	
542 RAMY	21	1740	1740	1817	N17	W04	.382	15772	21.4	37	-N	3	C		45		Y5	
543 RAMY	21	1751	1758	1802	N12	E34	.614	15777	24.3	11	-N	3	C		40		Y5	
544 RAMY	21	1813	1814	1821	N18	E54	.848	15787	25.8	8	-N	3	C		22		Y5	
	21	1833	1840	NO FLARE PATROL														
545 RAMY	21	1912	1912	1918	S15	E64	.896	15785	26.6	6	-N	3	C		14		F Y5	
GRP71546	21	2026+2	2027+3	2046	S26	E25	.526	15779	23.7	20	-F				60	.7		
RAMY	21	2026	2027	2055	S26	E25	.526	15779	23.7	29	-N	3	C		68			
CULG	21	2028	2030U	2037	S26	E25	.526	15779	23.7	9	-F		C	2030	60	.7		
547 PALE	21	2110E	2110U	2122	N13	E34	.620	15777	24.4	12D	-N	3	C		78		DE Y5	
	21	2111	2122	NO FLARE PATROL														
	21	0802	0807	NO FLARE PATROL														
	21	0809	1216	NO FLARE PATROL														
548 PALE	21	2136	2137	2212D	N18	W06	.405	15772	21.5	36D	-B	3	C		87		DE Y5	
549 BIGB	21	2148	2149	2151	N15	E30	.586	15777	24.2	3	-N	2	C	2149	40		Y5	
550 BIGB	21	2154	2156	2205	S13	E61	.871	15785	26.5	11	-N	2	C	2156	30		E Y5	
551 CULG	21	2215	2217	2219	S26	E25	.526	15779	23.8	4	-F		C	2217	10	.1	Y5	
GRP71552	21	2251+2	2255+1	2306	S14	E65	.903	15785	26.8	15	-F				40		E	
			2303															
CULG	21	2251	2256	2300	S15	E67	.917	15785	27.0	9	-F		C	2256	30	.8		
BIGB	21	2253	2255	2258	S15	E67	.917	15785	27.0	5	-N	1	C	2255	50			
BIGB	21	2256	2303	2312	S12	E60	.863	15785	26.5	16	-N	3	C	2303	15		E	

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS				
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MC MATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA		CORR AREA			
					LAT.	MER. DIST.												MIN.	MILL. OF DISK	SQ. DEG.
GRP71553	21	2307+4	2315+5	2329	S19	E73	.953	15785	27.4	22	-N			30						
CULG	21	2307	2320	2335	S20	E71	.942	15785	27.3	28	-N	C	2320	20						
BIGB	21	2311	2315	2323	S18	E75	.962	15785	27.6	12	-N	3 C	2315	40						
554 CULG	21	2335	2400U	0126	N17	W08	.399	15772	21.4	111	-N	P	2400	120	1.3	F	Y5			
555 CULG	22	0040	0046	0113	N17	E57	.871	15787	26.3	33	-N	C	0046	40	.6		Y5			
556 PALE	22	0144E	0144U	0157	S35	W12	.527	15783	21.2	130	-N	3 C		43		DE	Y5			
557 CULG	22	0155	0158	0218	N20	W03	.429	15772	21.9	23	-F	C	0158	20	.2		Y5			
558 MITK	22	0519	0527	0539	S18	W90	1.000	15762	15.5	20	1B	C	0527	170		H	Y5			
559 CULG	22	0546E	0559	0611D	N18	E54	.849	15787	26.3	250	-F	C	0559	30	.6		Y5			
560 MITK	22	0611	0614	0621	N20	E53	.847	15787	26.2	10	-F	C	0614			D	Y5			
561 CULG	22	0657E	0703	0739	S15	E58	.846	15785	26.6	420	-F	C	0703	30	.6		Y5			
562 CULG	22	0726	0727	0738	N12	E27	.528	15777	24.3	12	-N	C	0727	40	.5		Y5			
563 CULG	22	0746	0749	0757	N12	E27	.528	15777	24.3	11	-N	C	0749	40	.5		Y5			
564 KANZ	22	0821	0830	0847	N18	E50	.814	15787	26.1	26	-F	1					Y5			
GRP71565	22	0935+5	0937+3	1003	N08	E30	.540	15777	24.6	28	-F						D			
KHAR	22	0935E	0937	0950D	N07	E30	.535	15777	24.6	150	-F	P	0940	45	.5		D			
KANZ	22	0940	0940	1003	N09	E30	.546	15777	24.7	23	-N	2					D			
GRP71566	22	0955+0	1003	1057	S32	E69	.936	15786	27.6	62	1B						EH			
			1017																	
KANZ	22	0955	1003	1056	S30	E69	.935	15786	27.6	61	1B	2					EH			
KHAR	22	0955	1017	1058	S34	E70	.943	15786	27.7	63	2N	P	1013	250			EH			
567 KHAR	22	1045E		1100D	N18	E47	.786	15787	26.0	150	-F	P	1051	65	1.1	E	Y5			
	22	1104	1131	NO FLARE PATROL																
568 RAMY	22	1146	1147	1206	N18	E45	.767	15787	25.9	20	-B	3 C		27			Y5			
569 RAMY	22	1148	1149	1214	N09	E28	.520	15777	24.6	26	-N	3 C		36			Y5			
570 RAMY	22	1213	1220	1245	N18	E44	.757	15787	25.8	32	-B	3 C		60		F	Y5			
571 RAMY	22	1214	1216	1240	S26	E17	.445	15779	23.8	26	-N	3 C		22			Y5			
572 RAMY	22	1229	1232	1236	N09	E27	.507	15777	24.5	7	-B	3 C		24			Y5			
573 RAMY	22	1243	1244	1249	S24	E67	.920	15786	27.6	6	-N	3 C		14			Y5			
GRP71574	22	1248	1254	1310	N10	E25	.488	15777	24.4	22	-N									
			1257																	
RAMY	22	1248	1254	1307	N12	E24	.491	15777	24.3	19	-N	3 C		57						
RAMY	22	1251	1257	1310	N09	E27	.507	15777	24.6	19	-N	3 C		34						
575 RAMY	22	1253	1255	1302	N18	E44	.757	15787	25.8	9	-N	3 C		16			Y5			
576 RAMY	22	1353	1357	1407	S19	E04	.246	15775	22.9	14	-F	3 C		62		F	Y5			
GRP71577	22	1409	1413	1425	N10	E24	.475	15777	24.4	16	-B						F			
			1418																	
RAMY	22	1409	1413	1425	N09	E26	.493	15777	24.5	16	-B	3 C		113			F			
RAMY	22	1417	1418	1423	N12	E23	.479	15777	24.3	6	-B	3 C		108						
578 RAMY	22	1424	1425	1433	N18	E43	.747	15787	25.8	9	-N	3 C		20			Y5			
GRP71579	22	1452	1505	1602	S16	E58	.847	15785	27.0	70	1B			110	2.1					
RAMY	22	1452	1505	1602	S16	E56	.828	15785	26.8	70	-B	3 C		119			F			
MCMA	22	1454E		1527D	S16	E60	.864	15785	27.1	330	1B	C	1504	100	2.1		E			
580 RAMY	22	1508	1512	1518	S24	E66	.913	15786	27.6	10	-N	3 C		16			Y5			
GRP71581	22	1535	1537	1554	N10	E24	.475	15777	24.4	19	-N									
			1539																	
RAMY	22	1535	1539	1551	N12	E23	.479	15777	24.4	16	-N	3 C		43						
RAMY	22	1535	1537	1554	N09	E26	.493	15777	24.6	19	-N	3 C		28						

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg.
					LAT.	MER. DIST.											
582 RAMY	22	1558	1607	1625	N09	E25	.480	15777	24.5	27	-N	3	C	26		Y5	
GRP71583	22	1632+1	1637	1725D	N12	E25	.504	15777	24.6	53	-B					F	
BIGB	22	1632	1644	1804	N14	E27	.544	15777	24.7	92	1N	2	C	1644	220		
RAMY	22	1633	1637	1716	N08	E25	.473	15777	24.6	43	-B	3	C	102		F	
RAMY	22	1634	1637	1725	N12	E22	.467	15777	24.3	51	-B	3	C	37		F	
584 BIGB	22	1753	1812	1840	S16	E64	.896	15785	27.5	47	-N	3	C	1812	60	Y5	
GRP71585	22	1756+0	1757+1	1804	N17	W18	.476	15772	21.4	8	-N			70	.8		
RAMY	22	1756	1757	1805	N17	W17	.467	15772	21.5	9	-B	3	C	88		DE	
BIGB	22	1756	1758	1803	N17	W20	.496	15772	21.2	7	-N	3	C	1758	60		
586 BIGB	22	1816	1819	1824	S24	E80	.981	15788	28.8	8	-N	3	C	1819	30	Y5	
GRP71587	22	1821+1	1823+1	1843	N17	W15	.449	15772	21.6	22	-N			120	1.3		
BIGB	22	1821	1823	1843	N17	W13	.433	15772	21.8	22	-N	3	C	1823	130		
RAMY	22	1822	1824	1843	N17	W17	.467	15772	21.5	21	-B	3	C	117		DE	
GRP71588	22	1823+0	1823+1	1909	S15	E55	.818	15785	26.9	46	1N			130	2.3	K	
BIGB	22	1823	1823	1907	S14	E57	.836	15785	27.0	44	-N	3	C	1823	150	K	
RAMY	22	1823	1824	1910	S16	E54	.809	15785	26.8	47	-B	3	C	115			
589 RAMY	22	1854	1927	1931	N12	E22	.467	15777	24.4	37	-N	3	C	54		Y5	
590 BIGB	22	1924	1926	1928	N21	W24	.577	15772	21.0	4	-N	3	C	1926	10	Y5	
GRP71591	22	1932+0	1932+0	1937	N17	W17	.467	15772	21.5	5	-N			50	.6		
PALE	22	1932	1932	1936	N18	W17	.479	15772	21.5	4	-N	2	C	49			
RAMY	22	1932	1932	1937	N17	W18	.476	15772	21.5	5	-B	3	C	45			
GRP71592	22	2016+0	2018+1	2028	S13	E10	.218	15778	23.6	12	-N					F	
BIGB	22	2016	2018	2035	S14	E11	.241	15778	23.7	19	-N	3	C	2018	100	F	
PALE	22	2016	2019	2020	S12	E10	.208	15778	23.6	4	-N	2	C	20			
593 BIGB	22	2020	2023	2025	N17	W18	.476	15772	21.5	5	-N	3	C	2023	15	Y5	
594 BIGB	22	2022	2024	2034	N10	E26	.501	15777	24.8	12	-N	3	C	2024	100	E	
GRP71595	22	2129+0	2132+1	2140	S13	E10	.218	15778	23.6	11	-F			50	.5		
CULG	22	2129	2133	2134D	S13	E09	.205	15778	23.6	5D	-F		P	2133	60	.6	
BIGB	22	2129	2132	2140	S14	E11	.241	15778	23.7	11	-N	3	C	2132	40		
GRP71596	22	2137+3	2139+2	2144	N19	W14	.467	15772	21.9	7	-N			40	.4		
BIGB	22	2137	2139	2144	N21	W11	.475	15772	22.1	7	-N	3	C	2139	30		
PALE	22	2140	2141	2143	N18	W18	.488	15772	21.6	3	-B	2	C	45		DE	
597 BIGB	22	2146	2155	2215	N20	W12	.467	15772	22.0	29	-N	3	C	2155	10	Y5	
598 BIGB	22	2158	2207	2216	S16	E57	.838	15785	27.2	18	-N	3	C	2207	50	Y5	
599 BIGB	22	2159	2210	2220	N20	E45	.776	15787	26.3	21	-N	3	C	2210	50	Y5	
GRP71600	23	0006+0	0007+1	0020	N08	E20	.406	15777	24.5	14	-B			60	.7		
PALE	23	0006	0007	0013	N08	E20	.406	15777	24.5	7	-B	3	C	62		DE	
CULG	23	0006	0008	0026	N08	E21	.420	15777	24.6	20	-B		C	0008	60	.7	
GRP71601	23	0045+5	0053+4	0106	S25	E45	.736	15786	26.4	21	1F			150	2.3	EGJS	
CULG	23	0033	0038	0133	S27	E45	.743	15786	26.4	60	1N	*	C	0038	260	3.9	SF
VORO	23	0045	0053	0106	S25	E45	.736	15786	26.4	21	1F	*	C	0053	152	2.3	EJG
PALE	23	0047	0054	0059	S25	E59	.864	15786	27.5	12	-N	3	C	27		DE	
MITK	23	0050	0057	0106	S25	E46	.746	15786	26.5	16	1F	*	C	0057	150	2.3	E
602 VORO	23	0038	0049	0114	N15	W24	.519	15772	21.2	36	-N		C	0049	125	1.5	E
GRP71603	23	0049+1	0052+2	0101	N20	W12	.468	15772	22.1	12	-N			50	.6	DL	
VORO	23	0049	0052	0059	N20	W13	.475	15772	22.1	10	-N	*	C	0052	72	.8	DL
CULG	23	0050	0054	0102	N21	W12	.482	15772	22.1	12	-N	*	C	0054	40	.5	T
GRP71604	23	0130+5	0131+5	0141	N18	W18	.489	15772	21.7	11	-N			100	1.1	E	
MITK	23	0130	0132	0142	N18	W21	.518	15772	21.5	12	-N		C	0132		E	
CULG	23	0130	0133	0153	N18	W18	.489	15772	21.7	23	-N		C	0133	100	1.2	
VORO	23	0130	0131	0140	N17	W21	.507	15772	21.5	10	-N		C	0131	143	1.6	E
VORO	23	0131	0134	0138	N20	W13	.475	15772	22.1	7	-N		C	0134	90	1.0	D
CULG	23	0132	0135	0143	N21	W12	.482	15772	22.2	11	-N		C	0135	40	.5	T
PALE	23	0135	0136	0138	N18	W20	.508	15772	21.6	3	-N	3	C	29		DE	

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION	IMPORTANCE	OBS		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	MIN.		COND	TYPE		TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq. Deg.
					LAT.	MER. DIST													
605 CULG	23	0132	0139	0222	S13	E08	.191	15778	23.7	50	-F	C	0139	60	.6	Y5			
GRP71606	23	0144+0	0147+1 0155	0215	N20	W12	.468	15772	22.2	31	-N			90	1.0	H			
CULG	23	0144	0148	0228	N21	W12	.482	15772	22.2	44	-N	* C	0148	60	.7	T			
VORO	23	0144	0147	0152	N20	W13	.475	15772	22.1	8	-N	* C	0147	125	1.4	DH			
VORO	23	0154	0155	0202	N20	W13	.475	15772	22.1	8	-N	* C	0155	63	.7	DH			
607 VORO	23	0329	0331	0333	N20	W14	.482	15772	22.1	4	-N	C	0331	54	.6	E Y5			
608 VORO	23	0348	0351	0400	S27	W52	.809	15767	19.3	120	-N	C	0351	81	1.3	E Y5			
609 CULG	23	0406E	0408	0438	S24	W53	.811	15767	19.2	320	-N	C	0408	30	.5	Y5			
610 CULG	23	0412	0415	0422	N20	W13	.475	15772	22.2	10	-F	C	0415	60	.7	T Y5			
611 MANI	23	0635E	0635U	0643	N19	W16	.484	15772	22.1	80	-N	3 C		50		Y5			
612 MANI	23	0639	0640	0647	N12	E15	.388	15777	24.4	8	-N	3 C		50		Y5			
	23	0655	0709	NO FLARE PATROL															
613 CULG	23	0735	0748	0826	S10	E02	.089	15778	23.5	51	-F	C	0748	10	.1	Y5			
614 CULG	23	0811	0817	0827	N20	E31	.637	15787	25.7	16	-N	C	0817	20	.3	Y5			
615 TELV	23	1240	1244	1310	N17	E12	.427	15777	24.4	30	-N	C	1244	123	1.3	F Y5			
616 TELV	23	1244	1254	1310	S12	E04	.135	15778	23.8	26	-N	C	1254	123	1.2	U Y5			
617 RAMY	23	1537	1540	1557	S23	E63	.892	15788	28.4	20	-N	3 C		21		Y5			
618 RAMY	23	1540	1541	1545	S23	W67	.919	15767	18.6	5	-N	3 C		23		Y5			
619 RAMY	23	1618	1618	1625	S26	E49	.779	15786	27.4	7	-B	3 C		19		Y5			
620 RAMY	23	1645	1646	1656	S12	W02	.122	15778	23.5	11	-N	3 C		30		Y5			
GRP71621	23	1718	1727	1744	S15	E37	.611	15785	26.5	26	-N			45	.6				
BIGB	23	1718	1727	1740	S14	E38	.621	15785	26.6	22	-N	1 C	1727	40					
RAMY	23	1732E	1732U	1748	S16	E36	.600	15785	26.4	160	-N	3 C		46					
622 RAMY	23	1728	1729	1737	N18	E29	.600	15787	25.9	9	-N	3 C		19		Y5			
GRP71623	23	1751+6	1756+3	1812	S15	E37	.611	15785	26.5	21	-B			80	1.0				
RAMY	23	1751	1756	1908	S16	E36	.600	15785	26.4	77	-B	3 C		97					
BIGB	23	1755	1756	1805	S15	E38	.624	15785	26.6	10	-N	2 C	1756	50					
PALE	23	1757	1759	1812	S14	E37	.608	15785	26.5	15	-B	3 C		90		DE			
624 RAMY	23	1806	1806	1815	S26	E48	.769	15786	27.4	9	-N	3 C		46		Y5			
625 RAMY	23	1806	1808	1808	N18	E28	.590	15787	25.9	2	-N	* C		47		Y5			
626 PALE	23	1820	1821	1823	S14	E37	.608	15785	26.5	3	-N	3 C		43		DE Y5			
627 PALE	23	1836	1837	1858	S14	E36	.595	15785	26.5	22	-N	3 C		37		DE Y5			
GRP71628	23	2006+1	2007+1	2017	N19	E24	.558	15787	25.6	11	-N			50	.6				
BIGB	23	2006	2007	2017	N11	E24	.483	15787	25.6	11	-N	3 C	2007	50					
CULG	23	2007	2008	2017	N20	E23	.558	15787	25.6	10	-N	C	2008	120	1.5				
PALE	23	2012E	2012U	2016	N19	E28	.598	15787	25.9	40	-B	3 C		52		DE			
GRP71629	23	2031+1	2033+1	2043	S10	W04	.107	15778	23.6	12	-B			80	.8				
BIGB	23	2031	2034	2043	S10	W04	.107	15778	23.6	12	-N	3 C	2034	70					
CULG	23	2031	2033	2050	S10	W04	.107	15778	23.6	19	-B	C	2033	60	.6				
PALE	23	2032	2034	2043	S12	W03	.128	15778	23.6	11	-B	3 C		115		DE F			
630 BIGB	23	2204	2218	2234	S32	E75	.964	15788	29.5	30	-N	3 C	2218	50		Y5			
631 PALE	23	2212	2212	2216	N12	E05	.309	15777	24.3	4	-N	3 C		53		Y5			
632 PALE	23	2333	2334	2337	S14	E34	.568	15785	26.5	4	-N	3 C		52		Y5			
633 PALE	24	0015	0016	0018	S25	E46	.746	15786	27.5	3	-B	3 C		18		DE Y5			

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS				
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS. AREA		CORR AREA			
					LAT.	MER. DIST.												TIME UT	MEAS. AREA	CORR AREA
																		Mill. of Disk	Sq. Deg.	
GRP71634	24	0134+3	0145+3	0208	N11	E08	.313	15777	24.7	34	1B			310	3.2	HL				
VORO	24	0134	0145	0208	N20	E08	.447	15777	24.7	34	1N	C	0145	412	4.4	EH				
CULG	24	0135	0145	01550	N11	E10	.328	15777	24.8	200	1B	P	0145	190	2.0	LF				
MITK	24	0135	0148	0215	N12	E09	.335	15777	24.7	40	1B	C	0148	360	3.9	F				
PALE	24	0137	0148	0206	N12	E03	.303	15777	24.3	29	1B	3 C		258		FDE				
PALE	24	0143	0144	0156	N08	E06	.253	15777	24.5	13	-B	3 C		43						
635 PALE	24	0219	0223	0232	S14	E32	.540	15785	26.5	13	-N	3 C		19		OE Y5				
636 VORO	24	0222	0224	0228	S11	W08	.169	15778	23.5	6	-F	C	0224	27	.2	D Y5				
637 VORO	24	0250	0250	0251	S27	E43	.723	15786	27.3	1	-F	C	0250	45	.6	E Y5				
638 VORO	24	0334	0336	03400	N21	E19	.534	15787	25.6	60	-N	C	0336	90	1.0	D Y5				
GRP71639	24	0416	0418+6	0453	S14	E31	.526	15785	26.5	37	-N									
MITK	24	0416	0418	0443	S14	E31	.526	15785	26.5	27	-N	C	0418			E				
CULG	24	0421E	0424	0503	S15	E32	.543	15785	26.6	420	-N	P	0424	90	1.1	F				
640 CULG	24	0435	0436	0448	N21	E19	.534	15787	25.6	13	-N	C	0436	20	.2	Y5				
641 CATA	24	0735E	0735	07400	N16	W01	.365	15777	24.2	50	1N	2 P	0735	196	2.1	Y5				
GRP71642	24	0815	0815	08310	S13	E29	.494	15785	26.5	16	-B					F				
CATA	24	0815	0815	08250	S13	E28	.479	15785	26.4	100	-B	2 P	0815	168	2.0					
MANI	24	0818E	0818U	08310	S13	E30	.508	15785	26.6	130	-N	3 C		40		F				
643 HTPR	24	0835E		0843	S14	E28	.483	15785	26.5	80	-F	C	0836	30	.3	E Y5				
GRP71644	24	0905+5	0912+3	0933	S10	W11	.205	15778	23.6	28	1B			210	2.2	E				
CATA	24	0905	0915	0935	S10	W11	.205	15778	23.6	30	1B	* C	0915	224	2.4					
HTPR	24	0910	0912	0930	S10	W13	.237	15778	23.4	20	-B	* C	0912	100	1.0	E				
KHAR	24	0914E		09300	S10	W10	.190	15778	23.6	160	1N	* P	0918	210	2.3	BE				
645 ABST	24	0906E	0913	0916D	S14	E30	.512	15785	26.6	100	-N	P	0913	131	1.6	E Y5				
646 HTPR	24	0959	1000	1002	N20	E15	.490	15787	25.5	3	-F	C	1000	30	.3	Y5				
647 HTPR	24	1016	1020	1026	N13	E25	.513	0	26.3	10	-F	C	1020	30	.3	Y5				
	24	1111	1121	NO FLARE PATROL																
648 HTPR	24	1123	1125	1126	N12	E05	.310	15777	24.8	3	-F	C	1125	50	.5	E Y5				
GRP71649	24	1129+2	1131	1157	S15	E26	.459	15785	26.4	28	-F			60	.7	E				
RAMY	24	1129E	1131	1157	S16	E26	.464	15785	26.4	280	-N	2 C		98						
HTPR	24	1131		11420	S15	E27	.473	15785	26.5	110	-F	C	1137	40	.5	E				
650 RAMY	24	1134	1134	1137	N18	E19	.500	15787	25.9	3	-N	2 C		41		Y5				
GRP71651	24	1220+5	1225	12380	S15	E27	.473	15785	26.5	18	1B			340	3.9	E				
HTPR	24	1220		12380	S15	E27	.473	15785	26.5	180	-N	C	1227	180	2.0	E				
CATA	24	1225	1225	12300	S14	E32	.540	15785	26.9	50	1B	2 P	1225	337	3.7					
RAMY	24	1232E	1232U	12360	S16	E26	.464	15785	26.5	40	1B	2 C		418		DE				
652 RAMY	24	1243	1245	1255	S26	E38	.666	15786	27.4	12	-N	2 C		105		Y5				
GRP71653	24	1247E		1315	N13	W01	.316	15777	24.5	28	-B					E				
HTPR	24	1247E		13000	N15	W02	.350	15777	24.4	130	-N	C	1251	110	1.1	E				
RAMY	24	1249E	1249	1315	N12	W01	.299	15777	24.5	260	1B	2 C		254		DE				
GRP71654	24	1519+1	1522+1	1530	N12	W05	.310	15777	24.3	11	-N			35	.4	E				
HTPR	24	1519	1523	1533	N13	W07	.336	15777	24.1	14	-F	C	1523	40	.4	E				
RAMY	24	1520	1522	1527	N12	W03	.303	15777	24.4	7	-B	2 C		29						
	24	1704	1829	NO FLARE PATROL																
	24	0825	0826	NO FLARE PATROL																
655 RAMY	24	1713E	1715U	1728	S26	E34	.622	15786	27.3	150	-B	3 C		89		H Y5				
GRP71656	24	1903+0	1903+2	1917	N12	W06	.315	15777	24.3	14	-N			90	.9					
PALE	24	1903E	1903U	19190	N12	W07	.321	15777	24.3	160	-N	3 C		56		DE				
RAMY	24	1903	1905	1914	N12	W05	.310	15777	24.4	11	-B	3 C		123						
GRP71657	24	1912	1914	1927	S15	E22	.401	15785	26.4	15	1B			230	2.5					
RAMY	24	1912	1914	1928	S16	E22	.408	15785	26.5	16	1B	3 C		314						
PALE	24	1918E	1918U	1926	S14	E23	.410	15785	26.5	80	-B	3 C		155		DE F				

112
Misc
Jan 79

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS			
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCMATH PLAGE REGION			CMP DAY	COND	TYPE	TIME UT	MEAS. AREA Mill of Disk		CORR AREA Sq Deg.		
					LAT.	MER. DIST.													
	25	1328	1330	NO FLARE PATROL															
	25	1340	1417	NO FLARE PATROL															
686 RAMY	25	1340	1340	1400	S14	E12	.252	15785	26.5	20	-N	3	C	20		Y5			
GRP71687	25	1417+0	1418	1458	S26	E24	.512	15786	27.4	41	1B			420	5.0				
HTPR	25	1417E		1455	S26	E26	.533	15786	27.5	380	1B	C	1417	370	4.3	EF			
RAMY	25	1417	1418	1501	S26	E23	.501	15786	27.3	44	1B	3	C	465		F0E			
688 HTPR	25	1439	1442	1450	S14	E12	.252	15785	26.5	11	-F		C	1442	20	.2	E	Y5	
	25	1507	1510	NO FLARE PATROL															
	25	1540	1551	NO FLARE PATROL															
	25	1556	1758	NO FLARE PATROL															
	25	1828	1831	NO FLARE PATROL															
689 BIGB	25	1940	1943	1952	S21	E88	.998	0	1.4	12	?N	3	C	1943	200		D	Y5	
		IMP.2	NO	PALE															
GRP71690	25	2010+2	2021+1	2129	S14	E11	.238	15785	26.7	79	-B			150	1.6	F			
RAMY	25	2010	2022	2129	S14	E09	.213	15785	26.5	79	-B	3	C	178		F			
PALE	25	2012	2021U	2028D	S14	E11	.238	15785	26.7	160	-B	3	C	144		F			
CULG	25	2017E	2021U	2028D	S14	E15	.293	15785	27.0	110	-N		P	2021	140	1.5	B		
691 CULG	25	2121	2123	2130	S27	E18	.462	15786	27.2	9	-N		C	2123	60	.7		Y5	
692 PALE	25	2137	2137	2234	S14	E10	.225	15785	26.7	57	-N	3	C	22			DE	Y5	
	25	2144	2148	NO FLARE PATROL															
693 PALE	25	2251	2301	0020	S14	E22	.395	15785	27.6	89	-B	3	C	80			DE	Y5	
	25	2313	2324	NO FLARE PATROL															
	25	0323	0325	NO FLARE PATROL															
694 PALE	25	2316	2316	2352	S14	E09	.213	15785	26.6	36	-N	3	C	54			DE	Y5	
695 CULG	25	2336	2343	0035	S25	E25	.514	15786	27.9	59	-N		C	2343	130	1.5		Y5	
696 CULG	26	0041	0055	0107	S27	E17	.452	15786	27.3	26	-F		C	0055	50	.6	T	Y5	
GRP71697	26	0319+4	0324+2	0344	S12	E05	.141	15785	26.5	25	-N							E	
			0335+0																
CULG	26	0319	0324	0334	S12	E03	.124	15785	26.4	15	-F		C	0324	30	.3			
VORO	26	0323	0326	0331	S14	E03	.156	15785	26.4	8	-N		C	0326	99	1.0	E		
CULG	26	0332	0335	0348	S12	E08	.177	15785	26.7	16	-N		C	0335	40	.4			
VORO	26	0333	0335	0339	S12	E07	.164	15785	26.7	6	-B		C	0335	99	1.0	E		
698 CULG	26	0334	0336	0351	N19	W62	.912	15772	21.5	17	-N		C	0336	10	.3		Y5	
699 CULG	26	0426	0434	0515	N22	E01	.463	15787	26.3	49	-N		C	0434	30	.3		Y5	
700 CULG	26	0525	0534	0550	S27	E18	.461	15786	27.6	25	-F		C	0534	20	.2	T	Y5	
701 CULG	26	0533	0537	0605	S26	W29	.565	15779	24.1	32	-N		C	0537	60	.8	L	Y5	
GRP71702	26	0551	0554	0604D	S13	E04	.147	15785	26.5	13	-B							EJ	
CULG	26	0551	0554	0604	S13	E03	.139	15785	26.5	13	-B		C	0554	80	.8			
ABST	26	0553E	0616	0636D	S13	E05	.155	15785	26.6	43D	1N		P	0616	262	2.7	EJ		
GRP71703	26	0830+5	0834+5	0844	N21	W10	.474	15787	25.6	14	-F							E	
ABST	26	0830E	0834	0845	N22	W11	.494	15787	25.5	15D	-F		P	0834	87	1.0		D	
KANZ	26	0835	0839	0843	N20	W10	.460	15787	25.6	8	1F	2							
GRP71704	26	0850+4	0854	0943	S27	W31	.595	15779	24.0	53	-N							D	
			0901+1																
ABST	26	0850	0854	0900D	S27	W31	.595	15779	24.0	10D	-F		P	0854	157	2.0		D	
MONT	26	0853	0902	0926D	S27	W32	.605	15779	24.0	33D	-N		C	0902	110				
KANZ	26	0854	0901	0943	S26	W31	.588	15779	24.0	49	-N	2							
705 KANZ	26	0947	1005	1042	S14	E05	.170	15785	26.8	55	?N	2						F	Y5
		IMP.1	NO	CATA															
706 KANZ	26	1015	1018	1035	S27	W32	.605	15779	24.0	2D	-F	1						T	Y5

H α SOLAR FLARES

JANUARY 1979

OBSERV- ATORY	OBSERVED UT				LOCATION					DURA- TION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS AREA Mill of Disk	CORR AREA Sq Deg	
					LAT.	MER. DIST											
GRP71707	26	1143+1	1144+0	1156	S14	W01	.148	15785	26.4	13	-B						
			1151														
RAMY	26	1143	1144	1156	S14	W01	.148	15785	26.4	13	-B	3	C		99		
RAMY	26	1143	1151	1156	S14	W01	.148	15785	26.4	13	-N	3	C		24		
KANZ	26	1144	1144	1156	S14	W01	.148	15785	26.4	12	-B	1					
708 KANZ	26	1203	1203	1217	S30	E15	.473	15786	27.6	14	-N	2					D Y5
709 RAMY	26	1424	1424	1428	N18	W09	.425	15787	25.9	4	-N	3	C		24		Y5
710 RAMY	26	1429	1444	1517	S14	W02	.151	15785	26.5	48	-N	3	C		72		Y5
711 RAMY	26	1431	1433	1435	N18	W09	.425	15787	25.9	4	-N	3	C		33		Y5
GRP71712	26	1752	1754+1	1806	N19	W08	.435	15787	26.1	14	-N				35	.4	F
BIGB	26	1752	1754	1600	N20	W05	.439	15787	26.4	8	-N	3	C	1754	20		
RAMY	26	1754E	1755	1612	N18	W11	.437	15787	25.9	180	-N	3	C		51		F
713 BIGB	26	1842	1843	1844	S28	E09	.407	15786	27.5	2	-N	1	C	1843	50		Y5
714 BIGB	26	1921	1923	1924	S15	W70	.935	15774	21.6	3	-N	1	C	1923	30		Y5
GRP71715	26	2025+0	2032	2210	S14	W03	.156	15785	26.6	105	-N						
			2047														
BIGB	26	2025	2047U	2114	S16	W04	.194	15785	26.6	49	1N	1	C	2047	260		
PALE	26	2025	2032	2220	S14	W03	.156	15785	26.6	115	-B	3	C		156		DE
CULG	26	2052E	2052	2136	S14	W05	.170	15785	26.5	440	-N		P	2052	100	1.0	
BIGB	26	2126	2152	2235	S13	W03	.139	15785	26.7	69	-N	*	P	2152	50		
CULG	26	2135	2205	2329	S13	W02	.134	15785	26.7	114	-N	*	C	2205	130	1.3	F
716 CULG	26	2104	2106	2111	S27	E07	.382	15786	27.4	7	-N		C	2106	30	.3	Y5
717 CULG	26	2105	2107	2117	N15	W32	.613	15777	24.9	12	-F		C	2107	20	.3	Y5
718 CULG	26	2234	2240	2248	S26	E06	.362	15786	27.4	14	-F		C	2240	60	.7	Y5
719 CULG	26	2316	2336	2345	S12	W11	.219	15785	26.1	29	-N	*	C	2336	20	.2	Y5
720 CULG	27	0012	0020	0044	N20	W10	.461	15787	26.3	32	-N		C	0020	80	.9	Y5
GRP71721	27	0028+1	0031+1	0041	S28	W51	.801	15784	23.2	13	-F						D
CULG	27	0028	0032	0044	S28	W51	.801	15784	23.2	16	-F		C	0032	30	.5	
VORO	27	0029	0031	0037	S28	W52	.810	15784	23.1	8	-N		C	0031	90	1.5	D
722 CULG	27	0153	0214	02180	N21	W11	.481	15787	26.3	250	-N		C	0214	40	.5	Y5
723 CULG	27	0330	0333	0343	S09	W50	.762	15778	23.4	13	-F		C	0333	30	.5	Y5
724 CULG	27	0356	0359	0413	S13	W14	.270	15785	26.1	17	-N		C	0359	20	.2	Y5
725 CULG	27	0452	0456	0529	N20	W12	.473	15787	26.3	37	-N		C	0456	40	.5	Y5
726 CULG	27	0520E	0520U	0526	S13	W16	.299	15785	26.0	60	-N		P	0520	60	.6	C Y5
727 MITK	27	0606E	0607	0608	S27	E03	.367	15786	27.5	20	-N		C	0607			D Y5
728 CULG	27	0630	0631	0644	S13	W16	.299	15785	26.1	14	-F		C	0631	40	.4	Y5
729 CULG	27	0715	0722	0748	N22	W14	.513	15787	26.3	33	-N		C	0722	50	.6	T Y5
730 CULG	27	0720	0739	0805	S20	E00	.248	15785	27.3	45	-N		C	0739	110	1.1	F Y5
731 CULG	27	0741	0745	0806	S28	E10	.412	15786	28.1	25	-N		C	0745	60	.7	Y5
732 CULG	27	0757	0806	0813	S13	W15	.284	15785	26.2	16	-N		C	0806	20	.2	Y5
GRP71733	27	0830	0834+1	0850D	N18	W16	.476	15787	26.2	20	-B				130	1.5	FU
CATA	27	0830	0834	0835D	N18	W16	.476	15787	26.2	50	-B	2	P	0834	168	2.1	
HANI	27	0833E	0835	0850D	N19	W16	.488	15787	26.2	170	-B	3	V		100		F U
	27	1418	1450	NO FLARE PATROL													
GRP71734	27	1554+4	1558+0	1603	S14	W16	.306	15785	26.5	9	-B				45	.5	F
RAMY	27	1554	1558	1559D	S14	W18	.335	15785	26.3	50	-B	3	C		50		F
HOLL	27	1558	1558	1603	S15	W15	.300	15785	26.5	5	-B	2	C		36		
735 HOLL	27	1716	1716	1719	S27	W48	.770	15777	24.1	3	-N	3	C		24		Y5

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mm. of Disk	CORR AREA Sq Deg			
					LAT.	MER. DIST.													
736	HOLL	27	1716	1716	1722	N12	W46	.755	15779	24.3	6	-N	3	C		48		F	Y5
737	RAMY	27	1719	1721	1734	N18	W24	.551	15787	25.9	15	-N	3	C		19			Y5
738	HOLL	27	1740	1741	1744	N07	W45	.727	15777	24.4	4	-N	3	C		30			Y5
GRP71739		27	1759+0	1759+1	1805	N18	W24	.551	15787	25.9	6	-N				30	.4	F	
	RAMY	27	1759	1759	1804	N18	W24	.551	15787	25.9	5	-N	3	C		21			
	HOLL	27	1759	1800	1805	N18	W24	.551	15787	25.9	6	-N	3	C		36		F	
GRP71740		27	1819+2	1822+3	1831	N07	W43	.704	15777	24.5	12	-N				45	.6	F	
	RAMY	27	1819	1825	1831	N08	W42	.695	15777	24.6	12	-N	3	C		45		F	
	HOLL	27	1821	1822	1831	N07	W45	.727	15777	24.4	10	-N	3	C		36		F	
GRP71741		27	1835+3	1840+6	1908	N18	W24	.551	15787	26.0	33	-B				80	.9	F	
	HOLL	27	1835	1840	1858	N18	W24	.551	15787	26.0	23	-B	3	C		71		F	
	RAMY	27	1838	1846	1912	N18	W25	.562	15787	25.9	34	-B	3	C		91		F	
	HOLL	27	1859	1859	1903	N18	W24	.551	15787	26.0	4	-N	3	C		68		F	
742	HOLL	27	1839	1845	1855	S27	W49	.780	15779	24.1	16	-N	3	C		26		F	Y5
GRP71743		27	1844+0	1845+0	1849	S14	W17	.321	15785	26.5	5	-N				30	.3		
	RAMY	27	1844	1845	1848	S14	W18	.335	15785	26.4	4	-N	3	C		27			
	HOLL	27	1844	1845	1849	S15	W17	.328	15785	26.5	5	-N	3	C		31			
GRP71744		27	1848+1	1849+0	1905	N12	W47	.765	15777	24.3	17	-B				60	.9		
	HOLL	27	1848	1849	1905	N12	W47	.765	15777	24.3	17	-B	3	C		62		FDE	
	RAMY	27	1849	1849	1912	N12	W44	.733	15777	24.5	23	-B	3	C		59		DE	
	PALE	27	1856E	1856U	1900	N11	W48	.773	15777	24.2	40	-B	2	C		38		DE	
GRP71745		27	1923+0	1923+0	1930	N07	W44	.716	15777	24.5	7	-N				40	.6		
	RAMY	27	1923	1923	1932	N08	W43	.707	15777	24.6	9	-N	3	C		25			
	HOLL	27	1923	1923	1927	N07	W46	.739	15777	24.4	4	-N	3	C		49			
746	CULG	27	2005E	2047U	0137	S30	E35	.656	0	30.5	332D	?F	P		2047	350	4.7	S	Y5
	IMP.1	NO	HOLL	PALE	RAMY														
GRP71747		27	2033>9	2037	2100	N09	W46	.745	15777	24.4	27	-N							E
	RAMY	27	2033	2037	2102	N08	W44	.719	15777	24.6	29	-N	3	C		51			
	PALE	27	2044	2045	2054	N11	W49	.783	15777	24.2	10	-N	3	C		22		DE	
	PALE	27	2055	2055	2057	N11	W49	.783	15777	24.2	2	-N	3	C		22		DE	
748	PALE	27	2109	2112	2140	N11	W49	.783	15777	24.2	31	-N	3	C		43			Y5
GRP71749		27	2158+1	2159+1	2222	N10	W50	.790	15777	24.2	24	-B				70	1.1		
	PALE	27	2158	2159	2231	N11	W50	.793	15777	24.2	33	-B	3	C		84		DE	
	CULG	27	2158	2159	2214	N10	W50	.790	15777	24.2	16	-N		C	2159	60	1.0		
	HOLL	27	2159	2200	2222	N07	W47	.750	15777	24.4	23	-B	3	C		98			
	HOLL	27	2205	2205	2215	N12	W49	.786	15777	24.2	10	-B	3	C		48			
GRP71750		27	2228>9	2240+4	2330	N20	W26	.591	15787	26.0	62	-B							U
	CULG	27	2228	2244	2353	N20	W25	.581	15787	26.1	85	-N		C	2244	150	1.9		
	HOLL	27	2230	2240	2330	N18	W27	.582	15787	25.9	60	1B	3	C		313		U F	
	PALE	27	2239	2243	2251	N20	W26	.591	15787	26.0	12	-B	3	C		87		FDE	
751	CULG	27	2352	2411	0026	N24	W55	.876	0	23.9	34	-F		C	2411	40	.7		Y5
752	CULG	28	0134	0136	0150	S13	W25	.434	15785	26.2	16	-F		C	0136	10	.1		Y5
GRP71753		28	0208	0220	0302	N17	W55	.856	15777	24.0	54	-N							F
	CULG	28	0208	0230	0302	N15	W55	.851	15777	24.0	54	-N		C	0230	100	1.9		
	CULG	28	0215	0220	0243	N20	W55	.865	15777	24.0	28	-F		C	0220	30	.6	F	
754	CULG	28	0317	0322	0329	S23	W59	.860	15779	23.7	12	-N		C	0322	40	.8		Y5
755	CULG	28	0337	0350	0411	N13	W55	.846	15777	24.0	34	-N		C	0350	40	.8		Y5
756	CULG	28	0418	0432	0443	S13	W24	.419	15785	26.4	25	-F		C	0432	20	.2		Y5
757	CULG	28	0453	0507	0536	N12	W52	.816	15777	24.3	43	-N		C	0507	50	1.0		Y5
758	CULG	28	0556	0557	0605	S25	W59	.862	15779	23.8	9	-F		C	0557	10	.2		Y5

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS.		MEASUREMENTS			REMARKS	
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION			CMP. DAY	COND.	TYPE	TIME UT	MEAS AREA Mill of Disk		CORR AREA Sq Deg
					LAT.	NER. DIST											
759 CULG	28	0605	0633	0650	N13	W55	.846	15777	24.1	45	-N	C	0633	50	1.0	Y5	
760 CULG	28	0614	0616	0619	S12	W28	.475	15785	26.2	5	-N	C	0616	10	.1	Y5	
GRP71761	28	0621	0624	0656	S23	E09	.331	15788	28.9	35	-F						
			0645														
CULG	28	0621	0624	0641	S21	E06	.282	15788	28.7	20	-F	C	0624	10	.1		
CULG	28	0637	0645	0656	S25	E12	.382	15788	29.2	19	-F	* C	0645	30	.3		
762 CULG	28	0622	0626	0634	S13	W29	.492	15785	26.1	12	-F	C	0626	40	.5	Y5	
763 CULG	28	0704	0716	0736	N24	W26	.630	15787	26.3	32	-F	C	0716	30	.4	Y5	
764 CULG	28	0732	0733	0740	S27	W55	.833	15779	24.2	8	-N	C	0733	40	.8	Y5	
GRP71765	28	0818+2	0819	0827	N13	W57	.863	15777	24.1	9	-F					0	
CULG	28	0818	0819	0829D	N19	W57	.877	15777	24.1	110	-N	C	0819	40	.8	0	
ISTA	28	0820	0825	0825	N08	W58	.861	15777	24.0	5	-F					0	
	28	0835	0837	NO FLARE PATROL													
	28	0902	0905	NO FLARE PATROL													
766 CATA	28	0915	0920	0935D	N07	W57	.851	15777	24.1	200	1B	2 P	0920	140	2.0	Y5	
	28	0935	0950	NO FLARE PATROL													
767 RAMY	28	1234	1243	1256	N08	W53	.815	15777	24.5	22	-N	3 C		21		Y5	
768 RAMY	28	1250	1252	1257	S14	W32	.538	15785	26.1	7	-B	3 C		69		H Y5	
769 RAMY	28	1304	1309	1405	N12	W55	.843	15777	24.4	61	-B	3 C		110		F Y5	
GRP71770	28	1411	1414	1456	N09	W56	.845	15777	24.4	45	-B						
			1429														
RAMY	28	1411	1414	1443	N12	W55	.843	15777	24.5	32	-B	2 C		101			
RAMY	28	1427	1429	1456	N08	W57	.852	15777	24.3	29	-N	* C		419			
RAMY	28	1427	1442	1456	N08	W57	.852	15777	24.3	29	-B	* C		97			
771 RAMY	28	1420	1422	1428	N07	E75	.970	15802	3.2	8	-N	2 C				Y5	
772 RAMY	28	1504	1506	1508	N07	E74	.966	15802	3.2	4	-F	2 C				Y5	
773 RAMY	28	1544	1545	1548	N09	E76	.975	15802	3.4	4	-F	2 C				Y5	
GRP71774	28	1733E	1734	1802	S14	W29	.496	15785	26.6	29	-B			50	.6		
RAMY	28	1733E	1734U	1735D	S14	W30	.510	15785	26.5	2D	-B	2 C		42			
HOLL	28	1737E	1737U	1802	S15	W29	.499	15785	26.6	25D	-B	3 C		73			
775 HOLL	28	1801	1811	1839	N07	W58	.859	15777	24.4	38	-N	3 C		55		F Y5	
776 HOLL	28	1804	1804	1835	S15	W29	.499	15785	26.6	31	-B	3 C		44		F Y5	
777 HOLL	28	1905	1905	1912	S27	W61	.880	15779	24.2	7	-N	3 C		14		F Y5	
778 HOLL	28	1906	1906	1917	S15	W29	.499	15785	26.6	11	-N	3 C		20		F Y5	
779 RAMY	28	1949	1949	1953	N07	E72	.956	15802	3.2	4	-N	2 C		10		Y5	
780 RAMY	28	2002	2006	2011	N08	W57	.852	15777	24.6	9	-B	2 C		35		Y5	
781 CULG	28	2238	2240	2247	S10	W79	.979	15778	23.0	9	-F	C	2240	20		Y5	
782 CULG	29	0036	0048	0127	S23	W16	.393	15786	27.8	51	-N	C	0048	120	1.3	Y5	
783 CULG	29	0119	0123	0132	S32	E30	.621	15794	31.3	13	-F	C	0123	20	.3	Y5	
784 PALE	29	0204	0208	0219	S18	E37	.617	15792	31.9	15	1B	3 V		219		U F Y5	
785 CULG	29	0509	0513	0600	S25	W18	.436	15786	27.9	51	-N	C	0513	60	.7	F Y5	
786 CULG	29	0607	0609	0629	N12	W77	.980	15777	23.5	22	-N	C	0609	20		K Y5	
787 CULG	29	0620	0631	0645	S13	W33	.549	15785	26.8	25	-F	C	0631	50	.6	Y5	
788 CULG	29	0655	0658	0707	S27	W70	.937	15779	24.0	12	-F	C	0658	30		Y5	

Ha SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IMPORTANCE	OBS		MEASUREMENTS			REMARKS
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	McMATH PLAGE REGION	CMP DAY			COND	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR AREA Sq Deg	
					LAT.	MER. DIST.											
GRP71789	29	0719+5	0725+5	0756	N10	E80	.988	15802	7.3	37	1F			100		DJ	
ABST	29	0719	0725	0802D	N11	E80	.989	15802	4.3	43D	1N	P	0725	87		DJ	
CULG	29	0724	0730	0749	N10	E80	.988	15802	4.3	25	1F	C	0730	120			
GRP71790	29	0807+3	0812+5	0826	N19	W43	.756	15787	26.1	19	-F					F	
ABST	29	0807	0812	0828D	N19	W44	.765	15787	26.0	21D	1F	P	0812	148	2.3	F	
CULG	29	0810	0817	0823	N20	W43	.761	15787	26.1	13	-F	C	0817	50	.8		
GRP71791	29	0826+5	0831+4	0838	S15	W40	.647	15785	26.4	12	-F					EU	
ABST	29	0826E	0831	0838	S15	W41	.660	15785	26.3	12D	-F	P	0831	140	1.9	E	
HTPR	29	0829	0831	0838	S14	W40	.645	15785	26.4	9	-F	C	0831	20	.3	E	
TELV	29	0831	0835	0855	S17	W38	.627	15785	26.5	24	-N	C	0835	82	1.0	U	
792	ABST	29	0833	0836	0842	N10	W81	.991	15777	23.3	9	? F	C	0836	87		E Y5
			IMP.1 NO : HTPR														
GRP71793	29	0835+9	0849+4	0856	N10	E68	.937	15802	6.5	21	1F					D	
ABST	29	0835	0849	0856	N10	E68	.937	15802	3.5	21	1N	C	0849	105		O	
ABST	29	0846	0859	0859D	N09	E75	.971	15802	4.0	13D	1F	P	0859	105		O	
HTPR	29	0850	0853	0856	N10	E65	.918	15802	3.2	6	-F	C	0853	30	.7		
794	HTPR	29	1027	1054	1100	S13	E90	1.000	15804	5.2	33	-F	C	1054	10		Y5
795	RAMY	29	1141	1145	1154	N18	W65	.930	15777	24.6	13	-N	2 C		80		Y5
GRP71796	29	1147+3	1148+2	1153	S14	W44	.695	15785	26.2	6	-B			50	.7		
HTPR	29	1147	1148	1153	S14	W44	.695	15785	26.2	6	-N	C	1148	30	.4		
RAMY	29	1148	1149	1153	S14	W40	.645	15785	26.5	5	-B	3 C		50			
CATA	29	1150	1150	1155	S15	W44	.697	15785	26.2	5	-B	2 C	1150	67	2.1		
797	CATA	29	1155	1200	1205	S12	E90	1.000	15804	5.2	10	-F	2 C	1200	28	1.3	Y5
798	RAMY	29	1201	1201	1216	N18	W65	.930	15777	24.6	15	-N	3 C		13		Y5
GRP71799	29	1200+5	1202+3	1214	S15	W41	.660	15785	26.4	14	-N			70	.9	EU	
TELV	29	1200	1203	1220	S18	W40	.655	15785	26.5	20	-N	* C	1203	82	1.0	U	
HTPR	29	1201	1202	1212	S14	W42	.671	15785	26.4	11	-F	* C	1202	30	.4	E	
RAMY	29	1202	1205	1215	S14	W40	.645	15785	26.5	13	-B	* C		59			
CATA	29	1205	1205	1210	S17	W42	.676	15785	26.4	5	-B	* C	1205	84	2.4		
800	RAMY	29	1216	1217	1234	N18	W48	.799	15787	25.9	18	-N	3 C		33		Y5
801	RAMY	29	1218	1228	1240	N18	W65	.930	15777	24.6	22	-N	3 C		53		Y5
GRP71802	29	1219+6	1222+3	1232	S12	E90	1.000	15804	8.3	13	-N						
HTPR	29	1219	1222	1229	S13	E90	1.000	15804	5.3	10	-F	C	1224	10			
CATA	29	1225	1225	1235	S12	E90	1.000	15804	5.3	10	1N	2 C	1225	45	1.6		
803	RAMY	29	1227	1229	1231	N07	E62	.892	15802	3.2	4	-N	3 C		16		Y5
804	RAMY	29	1323	1324	1349	N18	W66	.935	15777	24.6	26	-B	3 C		18		Y5
805	RAMY	29	1338	1338	1343	N08	W66	.922	15777	24.6	5	-N	2 C		23		Y5
806	RAMY	29	1437	1437	1438	N18	W66	.935	15777	24.7	1	-N	2 C		16		Y5
GRP71807	29	1520+2	1523+1	1531	N08	E68	.935	15802	6.7	11	-N			25			
HTPR	29	1520	1524	1530	N09	E70	.947	15802	3.9	10	-N	C	1524	20	.5		
RAMY	29	1522	1523	1532	N08	E66	.922	15802	3.6	10	-B	2 C		25			
808	RAMY	29	1602	1604	1617	S14	E83	.990	15804	4.9	15	-B	3 C				Y5
809	RAMY	29	1617	1621	1626	S26	W75	.961	15779	24.1	9	-N	3 C		21		Y5
810	RAMY	29	1734	1736	1751	N14	W84	.997	15777	23.4	17	-N	3 C		39		Y5
811	BIGB	29	1734	1738	1746	S10	W85	.995	15778	23.4	12	? N	1 C	1738	60		A Y5
			IMP.1 NO : RAMY														
812	RAMY	29	1740	1740	1744	N08	E64	.909	15802	3.5	4	-N	3 C		14		Y5
813	BIGB	29	1801	1803	1805	N14	E90	1.000	0	5.5	4	? N	1 C	1803	60		Y5
			IMP.1 NO : RAMY														
814	RAMY	29	1810	1811	1829	S26	W30	.574	15786	27.5	19	-N	3 C		55		Y5
815	CULG	29	2020E	2020E	2049	N25	W71	.968	0	24.5	29D	-F	P	2020	60		Y5

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION				DURATION MIN.	IMPOR- TANCE	OBS		MEASUREMENTS			REMARKS			
	DATE	START	MAX PHASE	END	APPROX		CENTRAL DISTANCE	MCNATH PLAGE REGION			CMP DAY	COND.	TYPE	TIME UT	MEAS AREA		CORR AREA		
					LAT.	MER. DIST.												Mill of Disk	Sq Deg.
816	RAMY	29	2035	2049	2107	N22	E66	.941	15796	3.8	32	-N	3	C		49		Y5	
817	BIGB	29	2054	2055	2059	N05	E69	.938	15802	4.0	5	-N	1	C	2055	10		Y5	
818	CULG	29	2101	2107	2115	S26	W75	.961	15779	24.3	14	-F		C	2107	20		Y5	
819	RAMY	29	2129	2134	2145	N22	E65	.936	15796	3.8	16	-F	3	C				Y5	
820	RAMY	29	2137	2139	2144	N08	W71	.952	15777	24.6	7	-N	3	C				Y5	
821	CULG	29	2138	2139	2153	S24	W25	.502	15786	28.0	15	-N		C	2139	60	.7	Y5	
822	CULG	29	2144	2148	2158	N11	E73	.964	15802	4.4	14	-F		C	2148	80		Y5	
GRP71823		30	0017+2	0022+1	0036D	S26	W28	.551	15786	27.9	19	-N				120	1.5		
	CULG	30	0017	0023	0210	S25	W28	.544	15786	27.9	113	-N		C	0023	130	1.6		
	PALE	30	0019	0022	0036	S27	W29	.570	15786	27.8	17	-B	3	C		108		DE F	
824	CULG	30	0208	0217	0224	S12	W90	1.000	15778	23.3	16	-N		C	0217	10		Y5	
825	CULG	30	0209	0213	0220	N23	W80	.993	0	24.1	11	-F		C	0213	20		Y5	
826	CULG	30	0259	0305	0321	N18	W88	1.000	15777	23.5	22	-N		C	0305	20		Y5	
GRP71827		30	1005+4	1005	1020	S13	E76	.966	15804	8.1	15	-F							
	CATA	30	1005	1005	1010	S12	E76	.967	15804	5.1	5	-N	2	C	1005	28	1.6		
	KANZ	30	1009	1017	1029	S14	E77	.970	15804	5.2	20	-F	2						
828	ATHN	30	1012E	1015	1040	S26	W32	.596	15786	28.0	28D	-N	1		1015	196	2.2	Y5	
GRP71829		30	1100>9	1100	1155	S26	W34	.618	15786	27.9	55	1N				280	3.6	EU	
	CATA	30	1100	1100	1155	S27	W34	.624	15786	27.9	55	1B	2	C	1100	252	2.4		
	TELV	30	1105	1113	1215	S27	W33	.613	15786	28.0	70	1N		C	1113	325	4.0	U	
	KANZ	30	1110	1117	1148	S25	W34	.612	15786	27.9	38	1N	2						
	HTPR	30	1113E		1124D	S25	W35	.624	15786	27.8	11D	1N		C	1113	230	2.8	E	
830	KANZ	30	1205	1230	1245	S25	E85	.993	15800	5.9	40	-N	2					Y5	
		30	1317	1347														NO FLARE PATROL	
		30	1408	1419														NO FLARE PATROL	
831	RAMY	30	1425	1429	1434	N08	E53	.816	15802	3.6	9	-B	3	C		26		Y5	
832	MCMA	30	1503E		1511	N15	W90	1.000	15777	23.9	8D	?N		C	1503			Y5	
	IMP.1		NO	RAMY	HTPR														
833	MCMA	30	1504	1506	1510	S13	E77	.971	15804	5.4	6	-N		C	1506	25	1.2	D Y5	
GRP71834		30	1530+0	1530+0	1552	S26	W37	.651	15786	27.9	22	-N				60	.8	E	
	HOLL	30	1530	1530	1551	S27	W35	.635	15786	28.0	21	-N	3	C		53			
	MCMA	30	1530E	1530	1553	S25	W40	.679	15786	27.6	23D	-N		C	1530	80	1.2	E	
835	RAMY	30	1914	1914	1918	N08	E50	.785	15802	3.6	4	-N	3	C		27		Y5	
GRP71836		30	2054+1	2056+0	2104	N09	E50	.788	15802	6.6	10	-B				50	.8		
	HOLL	30	2054	2056	2105	N10	E52	.811	15802	3.8	11	-B	3	C		59			
	RAMY	30	2055	2056	2102	N08	E49	.775	15802	3.5	7	-B	3	C		36			
GRP71837		30	2059+1	2100+1	2105	N22	E51	.840	15796	6.7	6	-N				15	.3		
	HOLL	30	2059	2101	2105	N22	E51	.840	15796	3.7	6	-N	3	C		19			
	RAMY	30	2100	2100	2105	N22	E52	.848	15796	3.8	5	-N	3	C		14			
838	RAMY	30	2106	2107	2113	S14	E68	.922	15804	5.0	7	-N	3	C		24		Y5	
839	CULG	30	2110E	2110	2117D	N06	E54	.821	15802	3.9	7D	-N		P	2110	40	.7	Y5	
840	RAMY	30	2126	2139	2140	N22	E52	.848	15796	3.8	14	-N	3	C		19		Y5	
841	HOLL	30	2149	2149	2204	N22	E51	.840	15796	3.7	15	-N	3	C		15		Y5	
842	PALE	31	0301	0319	0323D	S28	W43	.723	15786	27.9	22D	-N	3	C		55		FDE Y5	
GRP71843		31	0735>9	0804	0807	S10	E67	.916	15804	8.3	32	-F						D	
	ISTA	31	0735		0805	S07	E67	.917	15804	5.3	30	-F						D	
	KAND	31	0804	0804	0809	S13	E67	.916	15804	5.4	5	-F		C		31	1.1		

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION	IMPORTANCE	OBS.		MEASUREMENTS			REMARKS		
	DATE	START	MAX. PHASE	END	APPROX		CENTRAL DISTANCE	MATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA	CORR AREA			
					LAT.	MER. DIST.												Mill. of Disk	Sq. Deg.
844	ISTA	31	0800		0812	N10	W90	1.000	15777	24.6	12	-F					A	Y5	
845	KANZ	31	0817	0817	0822	S16	E65	.902	15804	5.2	5	-F	2					Y5	
846	ISTA	31	0840		0850	N21	W73	.972	15787	25.9	10	-F					D	Y5	
847	KAND	31	0854	0908	0918	N11	W90	1.000	15777	24.6	24	-N		C				Y5	
848	ISTA	31	0912		0927	N07	E48	.762	15802	4.0	15	-F					D	Y5	
GRP71849		31	0929+0	0932+1	0939	S13	E64	.894	15804	8.2	10	-N							
	KANZ	31	0929	0932	0939	S14	E65	.901	15804	5.3	10	-N	2						
	HTPR	31	0929	0933	0938	S13	E64	.894	15804	5.2	9	-N		C	0933	40	.8		
GRP71850		31	1040+1	1045+1	1056	N22	W76	.983	15787	25.7	16	-F						A	
	KAND	31	1040	1045	1058	N22	W77	.986	15787	25.7	18	-F		C				A	
	KANZ	31	1041	1046	1054	N23	W75	.980	15787	25.8	13	-F	1						
GRP71851		31	1114+2	1115+1	1119	S13	E61	.870	15804	8.0	5	-F				40	.8		
	KAND	31	1114	1116	1120	S14	E60	.862	15804	5.0	6	-F		C		35	.8		
	HTPR	31	1114	1115	1119	S13	E62	.878	15804	5.1	5	-F		C	1115	20	.4		
	GATA	31	1115E	1115	1115D	S13	E69	.929	15804	5.6		-B	2	P	1115	56	2.0		
	KANZ	31	1116	1116	1116	S14	E58	.844	15804	4.8		-F	1						
GRP71852		31	1236+3	1239	1307	N07	E43	.705	15802	6.7	31	-F							
				1247															
	KANZ	31	1236	1247	1301	N06	E42	.689	15802	3.7	25	-F	2						
	HTPR	31	1239	1239	1255	N08	E43	.708	15802	3.8	16	-F		C	1239	20	.3		
	HTPR	31	1243	1256	1313	N10	E45	.738	15802	3.9	30	-F		C	1256	20	.3		
853	KANZ	31	1353	1359	1407	N06	E25	.464	0	2.5	14	-N	2				DG	Y5	
GRP71854		31	1444+0	1446+6	1530D	S25	W49	.772	15786	27.9	46	-B						K	
				1507															
	KANZ	31	1444	1452	1456D	S25	W49	.772	15786	27.9	120	-B	1						
	HTPR	31	1444	1446	1530	S27	W49	.778	15786	27.9	46	-N		C	1446	30	.6	EFK	
	RAMY	31	1444	1507	1606	S25	W51	.792	15786	27.8	82	1B	3	C		322		FDE	
		31	1601	1617	NO FLARE PATROL														
855	RAMY	31	1614	1618	1642	S25	W51	.792	15786	27.9	28	-B	3	C		104		F	Y5
856	CULG	31	2048	2132	0200	S33	E12	.489	15798	1.8	312	?N		C	2132	330	3.8	SI	Y5
			IMP.1	NO	HOLL	PALE													
857	CULG	31	2050	2107U	2208	S14	E60	.862	15804	5.4	78	?F		C	2107	100	2.1		Y5
			IMP.1	NO	HOLL	PALE													
		31	2238	2243	NO FLARE PATROL														

Peking H α Solar Flares for January 1979 (Received too late for Inclusion in Group Reports)

PEKG	01	0450E	0450	0455	S42	W80	.984		25.2	50	SF	P	0450	13				D
PEKG	04	0601E	0601	0605	S13	W07	.198		3.7	40	SN	C	0601	63	32.0			D
PEKG	09	0200	0208	0215	N17	E51	.812		12.9	15	SN	C	0208	105	89.0			D
PEKG	09	0340	0400	0515	N09	W12	.296		8.3	95	1B	C	0400	336	76.0			EF
PEKG	09	0605	0606	0609	N20	E50	.812		13.0	4	SN	P	0606	109	92.0			D
PEKG	10	0145E	0145	0146D	N09	W25	.466		8.2	10	1N	P	0145	420	38.0			FE
PEKG	10	0724	0725	0731	N15	E35	.632		12.9	7	1N	C	0725	252	65.0			E
PEKG	13	0230	0236	0245	N14	W01	.291		13.0	15	SF	C	0236	126	66.0			E
PEKG	13	0305	0309	0317	S17	W48	.757		9.5	12	SF	C	0309	84	63.0			D
PEKG	13	0311	0315	0320	N13	W02	.276		13.0	9	1N	C	0315	252	33.0			E
PEKG	14	0540	0543	0550	N15	W01	.306		14.2	10	SN	C	0543	84	45.0			E
PEKG	14	0601	0603	0610	N15	W17	.415		13.0	9	SN	C	0603	84	47.0			E
PEKG	15	0348E	0348	0356	N16	W30	.574		12.9	80	SN	P	0348	84	52.0			E
PEKG	15	0522	0527	0536	N15	W32	.592		12.8	14	SN	C	0527	42	27.0			E
PEKG	15	0714	0726	0746	N15	W33	.604		12.8	32	2B	C	0726	547	48.0			F
PEKG	15	0737	0742	0742D	S21	W74	.962		9.8	50	SN	P	0742	84				D

Editor's Note: Peking Observatory data, though received too late for complete data processing, are included here as a supplemental list to the grouped flare data. These Peking data present additional valuable information on solar flare occurrences.

H α SOLAR FLARES

JANUARY 1979

OBSERVATORY	OBSERVED UT				LOCATION					DURATION MIN.	IM POR- TANCE	OBS.		MEASUREMENTS			REMARKS
	DAY	START	MAX. PHASE	END	APPROX.		CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP. DAY			COND.	TYPE	TIME UT	MEAS. AREA Mill. of Disk	CORR. AREA Sq. Deg.	
					LAT.	MER. DIST.											
PEKG	18	0042E	0050	0105	S15	E50	.776		21.8	230	SF	P	0050	84	67.0	D	
PEKG	18	0042E	0050	0110	N13	H70	.946		12.8	280	1N	P	0050	252		E	
PEKG	18	0055E	0055	0100D	N19	E49	.795		21.7	50	SF	P	0055	105	86.0		
PEKG	18	0210	0215	0230	N14	H71	.952		12.8	20	1N	P	0215	126		E	
PEKG	18	0250	0255	0310	N15	H70	.948		12.9	20	SF	P	0255	50			
PEKG	18	0425E	0425	0435	N14	H73	.962		12.7	100	2N	C	0425	252		E	
PEKG	18	0653	0654	0700	N12	H74	.965		12.7	7	SN	C	0654	84		D	
PEKG	19	0230E	0230	0240	N19	E35	.648		21.7	100	SF	C	0230	126	85.0	E	
PEKG	19	0240E	0240	0250	N14	E74	.966		24.7	100	SF	C	0240	50		D	
PEKG	19	0425E	0430	0440	S23	H09	.383		18.5	150	1N	C	0430	378	01.0	F	
PEKG	21	0120E	0120	0130	S27	E37	.687		23.8	100	SF	P	0120	84	56.0	E	
PEKG	21	0425E	0425	0430	N11	E41	.679		24.3	50	SF	P	0425	42	29.0	D	
PEKG	23	0135	0150	0156	N20	H14	.434		22.0	21	SN	P	0150	105	60.0	D	
PEKG	23	0410	0415	0420	N20	H15	.443		22.0	10	SF	P	0415	84	48.0		
PEKG	23	0443E	0443	0445	N12	E14	.335		24.2	20	SF	C	0443	42	23.0	D	
PEKG	23	0630	0636	0640	N21	H16	.464		22.1	10	SN	C	0636	168	97.0	E	
PEKG	23	0637	0642	0652	N11	E14	.324		24.3	15	2B	C	0642	547	95.0	FU	
PEKG	23	0656	0659	0710	N13	E12	.325		24.2	14	SN	C	0659	168	90.0	EF	
PEKG	23	0705	0718	0725D	N21	E40	.710		26.3	200	SF	C	0718	84	61.0	F	
PEKG	24	0140	0149	0205	N11	E10	.277		24.8	25	2N	C	0149	547	90.0	I	
PEKG	24	0335D	0339	0342	N21	E19	.489		25.6	70	SF	C	0339	42	25.0	D	
PEKG	24	0740E	0740	0750	N12	H01	.237		24.2	100	SN	P	0740	168	88.0		
PEKG	25	0140	0145	0210	S28	H23	.565		23.3	30	SF	P	0145	84	49.0	E	
PEKG	25	0420	0430	0430D	S15	E20	.405		26.7	100	SN	P	0430	63	34.0	E	
PEKG	25	0504	0509	0515	S29	H25	.593		23.3	11	SF	P	0509	42	25.0	D	

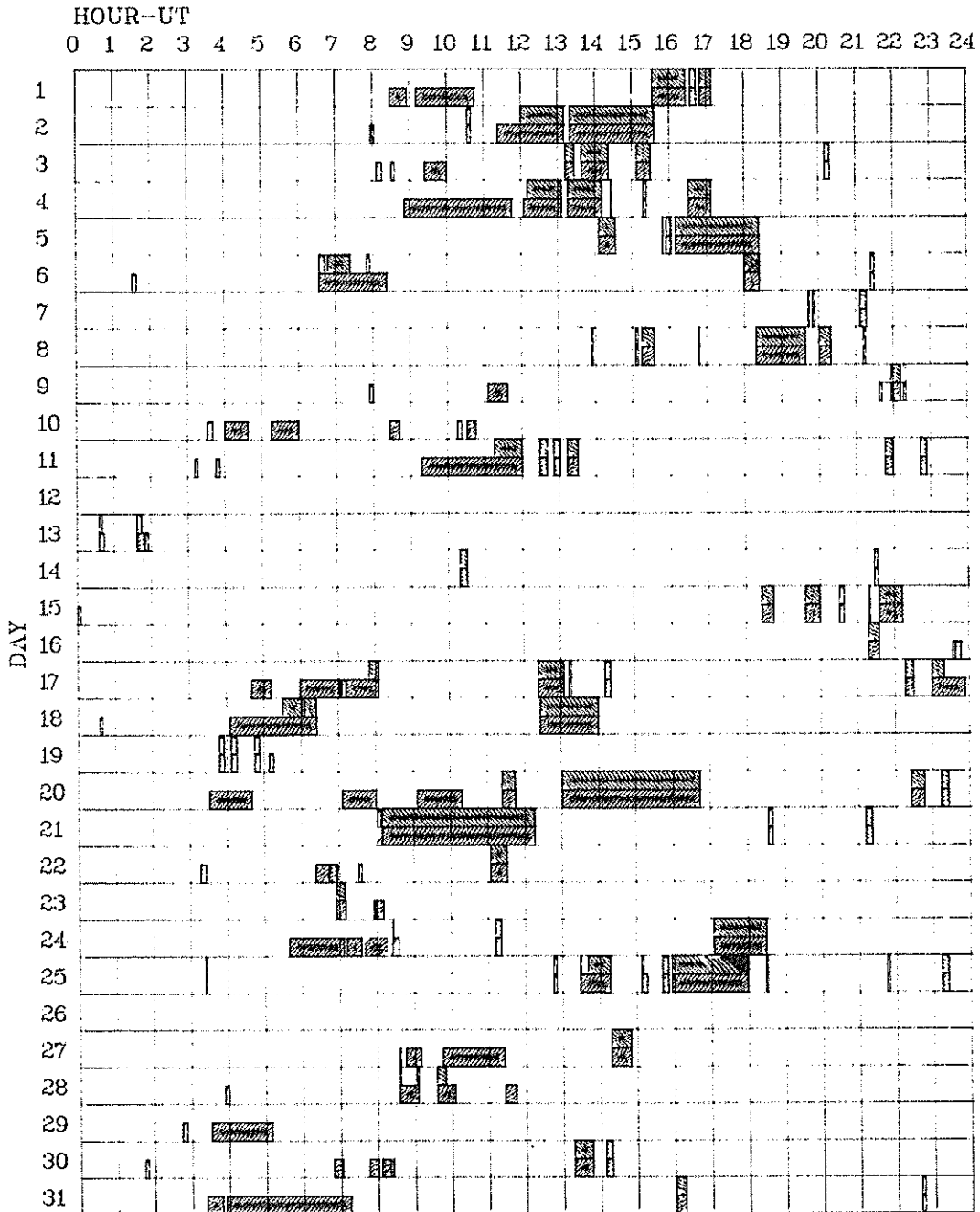
- A = Eruptive prominence whose base is less than 90° from central meridian.
- B = Probably the end of a more important flare.
- C = Invisible 10 minutes before.
- D = Brilliant point.
- E = Two or more brilliant points.
- F = Several eruptive centers.
- G = No visible spots in the neighborhood.
- H = 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.

JANUARY 1979			DAILY FLARE INDICES			Includes all Flares		
Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.	Date	Flare Index	HR. OBS.
790101	89.67	22.6	790112	183.30	24.0	790123	114.65	23.8
790102	93.13	20.5	790113	234.16	23.8	790124	314.20	22.4
790103	126.46	22.5	790114	116.24	23.7	790125	241.70	20.7
790104	48.74	21.4	790115	193.72	22.5	790126	90.79	24.0
790105	115.67	21.2	790116	295.29	23.7	790127	94.76	23.5
790106	35.10	22.6	790117	49.32	22.3	790128	68.45	23.7
790107	78.53	23.7	790118	69.90	21.6	790129	99.24	24.0
790108	132.56	21.8	790119	109.91	23.6	790130	71.10	23.3
790109	135.16	23.6	790120	82.01	19.4	790131	19.66	23.7
790110	94.59	24.0	790121	190.00	19.5			
790111	163.02	22.2	790122	144.45	23.6			

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE JANUARY 1979



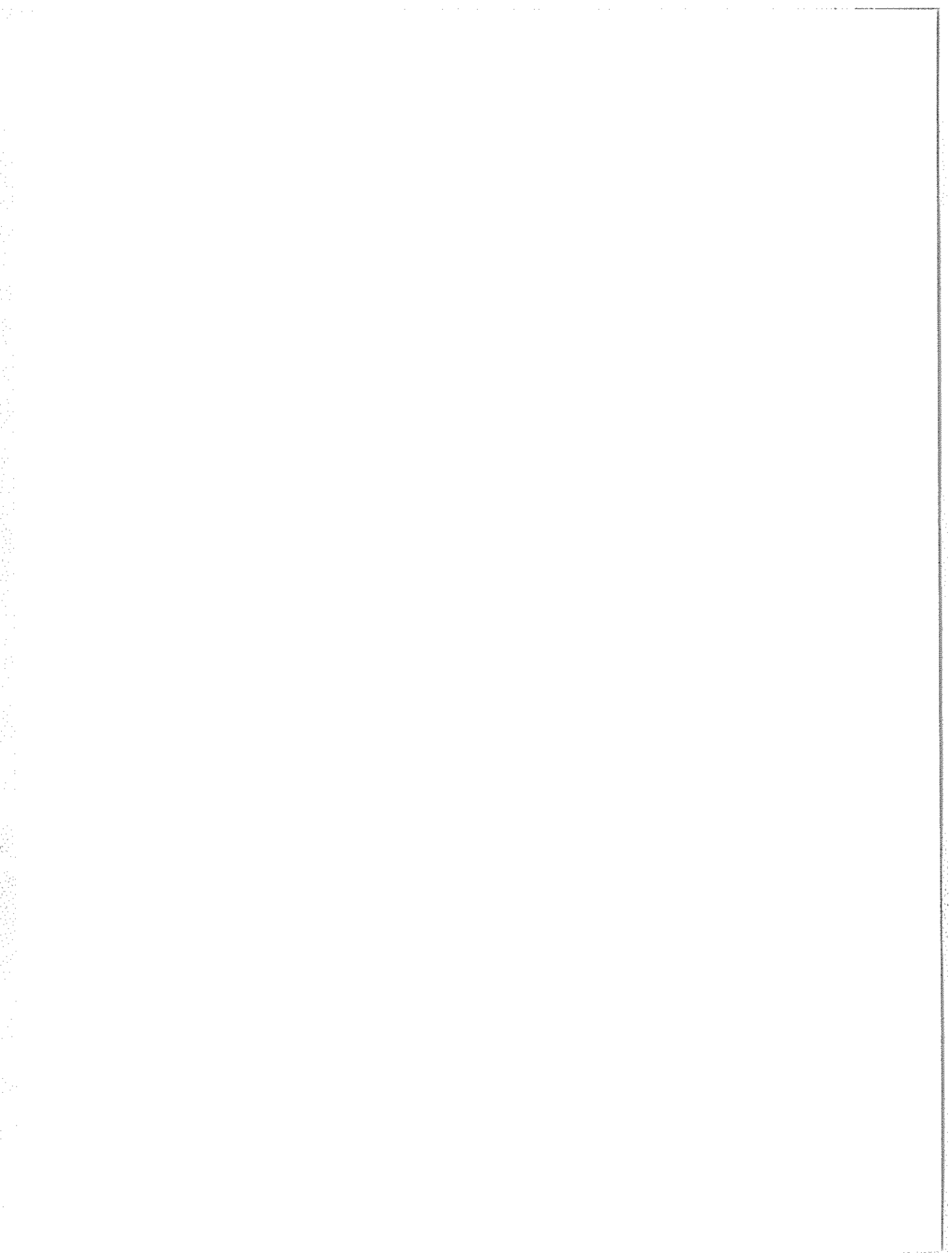
Observatories Included in total patrol:

Abastumani	Haute Provence	Kanzelhohe	McMath-Hulbert	Tashkent
Athenes	Herstmonceux	Kharkov	Mitaka	Tel Aviv
Big Bear	Holloman	Kodaikanal	Monte Mario	Tehran
Bucharest	Huancayo	Locarno	Palehua	Upice
Catania	Istanboul	Lvov	Peking	Voroshilov
Culgoora	Kandilli	Manila	Ramey	Wendelstein
				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).

REGIONAL FLARE INDEX
INCLUDES ALL FLARES
DECEMBER 1978

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
15684	S31	78/12/02.1	78/11/27	78/12/10	51.25	3.66	25
15687	S18	78/12/02.8	78/11/29	78/12/11	362.49	27.88	69
15689	S19	78/12/06.9	78/12/07	78/12/12	48.19	8.03	8
15691	N21	78/12/07.1	78/12/03	78/12/13	45.65	4.15	13
15694	S23	78/12/08.5	78/12/03	78/12/15	668.04	51.39	96
15699	N23	78/12/11.5	78/12/12	78/12/15	4.24	1.06	2
15696	S24	78/12/11.7	78/12/06	78/12/18	111.12	8.55	16
15700	N16	78/12/12.7	78/12/06	78/12/18	257.01	19.77	66
15697	S19	78/12/13.2	78/12/06	78/12/20	1532.44	102.16	122
15702	N23	78/12/14.6	78/12/13	78/12/13	5.28	5.28	1
15717	N19	78/12/15.2	78/12/17	78/12/21	11.83	2.37	5
15704	N21	78/12/16.3	78/12/16	78/12/22	119.53	17.08	41
15707	S22	78/12/17.5	78/12/14	78/12/21	25.04	3.13	8
15709	S21	78/12/18.9	78/12/15	78/12/23	62.31	6.92	19
15727	N16	78/12/19.4	78/12/23	78/12/24	3.44	1.72	4
15710	N24	78/12/19.8	78/12/17	78/12/17	1.90	1.90	1
15718	N24	78/12/20.2	78/12/22	78/12/22	8.72	8.72	3
15711	N23	78/12/21.3	78/12/19	78/12/19	3.38	3.38	1
15712	N16	78/12/22.1	78/12/19	78/12/23	53.76	10.75	11
15714	S29	78/12/22.2	78/12/28	78/12/28	1.84	1.84	2
15738	S22	78/12/24.3	78/12/27	78/12/29	6.30	2.10	8
15722	N18	78/12/25.0	78/12/24	78/12/24	11.17	11.17	2
15723	N12	78/12/25.7	78/12/21	78/12/25	24.11	4.82	7
15735	S28	78/12/26.5	78/12/28	78/12/28	3.53	3.53	1
15725	S14	78/12/28.0	78/12/24	78/12/24	2.02	2.02	1
15726	N11	78/12/29.1	78/12/23	79/01/02	122.99	11.18	31
15731	N28	78/12/29.5	78/12/22	78/12/23	2.54	1.27	3
15730	N36	78/12/29.5	78/12/28	78/12/28	3.58	3.58	1
15751	N16	78/12/29.6	79/01/01	79/01/05	8.08	1.62	7
15729	S19	78/12/30.0	78/12/28	78/12/29	10.88	5.44	2
15732	N18	78/12/30.0	78/12/28	78/12/28	9.39	9.39	2
15733	S19	78/12/30.6	78/12/23	79/01/08	496.80	29.22	58
15734	S25	78/12/31.2	78/12/24	79/01/05	40.38	3.11	15

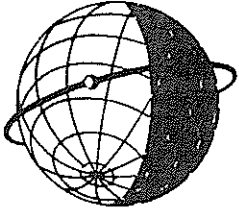


UAG Series of Reports

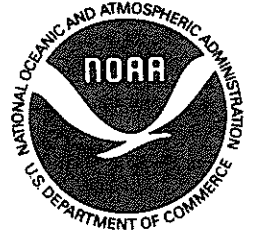
UAG Reports are issued on an irregular basis, with 6 to 12 reports being issued each year. Subscriptions may be ordered through the National Geophysical and Solar-Terrestrial Data Center, Environmental Data and Information Service, NOAA, Boulder, CO 80303, USA. The annual subscription price is \$25.20 (\$17.30 additional for foreign mailing). In years when the single price copies are less than \$25.20, arrangements will be made to extend the subscription duration. Single issues are also available at the prices shown below. Some of the issues are now out of print and are available only on microfiche. Orders must include check or money order payable in U.S. currency to the Department of Commerce, NOAA/NGSDC. \$2.00 handling charge per order.

- UAG-1 "IQSY Night Airglow Data", price \$1.75.
- UAG-2 "A Reevaluation of Solar Flares, 1964-1966", price 30 cents.
- UAG-3 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-41 MHz, 6 July 1966 through 8 September 1968", microfiche only, price 45 cents.
- UAG-4 "Abbreviated Calendar Record 1966-1967", price \$1.25.
- UAG-5 "Data on Solar Event of May 23, 1967 and its Geophysical Effects", price 65 cents.
- UAG-6 "International Geophysical Calendars 1957-1969", price 30 cents.
- UAG-7 "Observations of the Solar Electron Corona: February 1964-January 1968", price 15 cents.
- UAG-8 "Data on Solar-Geophysical Activity October 24-November 6, 1968", price (includes Parts 1 & 2) \$1.75.
- UAG-9 "Data on Cosmic Ray Event of November 18, 1968 and Associated Phenomena", price 55 cents.
- UAG-10 "Atlas of Ionograms", price \$1.50.
- UAG-11 "Catalogue of Data on Solar-Terrestrial Physics" (now obsolete).
- UAG-12 "Solar-Geophysical Activity Associated with the Major Geomagnetic Storm of March 8, 1970", price (includes Parts 1-3) \$3.00.
- UAG-13 "Data on the Solar Proton Event of November 2, 1969 through the Geomagnetic Storm of November 8-10, 1969, price 50 cents.
- UAG-14 "An Experimental, Comprehensive Flare Index and Its Derivation for 'Major' Flares, 1955-1969", price 30 cents.
- UAG-15 "Catalogue of Data on Solar-Terrestrial Physics" (now obsolete).
- UAG-16 "Temporal Development of the Geographical Distribution of Auroral Absorption for 30 Substorm Events in each of IQSY (1964-65) and IASY (1969)", price 70 cents.
- UAG-17 "Ionospheric Drift Velocity Measurements at Jicamarca, Peru (July 1967-March 1970)", microfiche only, price 45 cents.
- UAG-18 "A Study of Polar Cap and Auroral Zone Magnetic Variations", price 20 cents.
- UAG-19 "Reevaluation of Solar Flares 1967", price 15 cents.
- UAG-20 "Catalogue of Data on Solar-Terrestrial Physics" (now obsolete).
- UAG-21 "Preliminary Compilation of Data for Retrospective World Interval July 26 - August 14, 1972", price 70 cents.
- UAG-22 "Auroral Electrojet Magnetic Activity Indices (AE) for 1970", price 75 cents.
- UAG-23 "U.R.S.I. Handbook of Ionogram Interpretation and Reduction, Second Edition, November 1972", edited by W. R. Piggott and K. Rawer, NGSDC/EDS/NOAA, November 1972, 324 pages, price \$1.75.
- UAG-23A "U.R.S.I. Handbook of Ionogram Interpretation and Reduction, Second Edition, November 1972", Revision of Chapters 1-4, edited by W. R. Piggott and K. Rawer, NGSDC/EDS/NOAA, July 1978, 135 pages, price \$2.14.
- UAG-24 "Data on Solar-Geophysical Activity Associated with the Major Ground Level Cosmic Ray Events of 24 January and 1 September 1971", price (includes Parts 1 and 2) \$2.00.
- UAG-25 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-41 MHz, 9 September 1968 through 9 December 1971", price 35 cents.
- UAG-26 "Data Compilation for the Magnetospherically Quiet Periods February 19-23 and November 29 - December 3, 1970", price 70 cents.
- UAG-27 "High Speed Streams in the Solar Wind", price 15 cents.
- UAG-28 "Collected Data Reports on August 1972 Solar-Terrestrial Events", price (includes Parts 1-3) \$4.50.
- UAG-29 "Auroral Electrojet Magnetic Activity Indices AE (11) for 1968", price 75 cents.
- UAG-30 "Catalogue of Data on Solar-Terrestrial Physics", price \$1.75.
- UAG-31 "Auroral Electrojet Magnetic Activity Indices AE (11) for 1969", price 75 cents.
- UAG-32 "Synoptic Radio Maps of the Sun at 3.3 mm for the Years 1967-1969", price 35 cents.
- UAG-33 "Auroral Electrojet Magnetic Activity Indices AE (10) for 1967", price 75 cents.
- UAG-34 "Absorption Data for the IGY/IGC and IQSY", price \$2.00.
- UAG-35 "Catalogue of Digital Geomagnetic Variation Data at World Data Center A for Solar-Terrestrial Physics", price 20 cents.
- UAG-36 "An Atlas of Extreme Ultraviolet Flashes of Solar Flares Observed Via Sudden Frequency Deviations During the ATM-SKYLAB Missions", price 55 cents.
- UAG-37 "Auroral Electrojet Magnetic Activity Indices AE (10) for 1966", price 75 cents.
- UAG-38 "Master Station List for Solar-Terrestrial Physics Data at WDC-A for Solar-Terrestrial Physics", price \$1.60.
- UAG-39 "Auroral Electrojet Magnetic Activity Indices AE (11) for 1971", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, February 1975, 144 pages, price \$2.05.
- UAG-40 "H-Alpha Synoptic Charts of Solar Activity For the Period of Skylab Observations, May, 1973-March, 1974", by Patrick S. McIntosh, NOAA Environmental Research Laboratories, February 1975, 32 pages, price 56 cents.
- UAG-41 "H-Alpha Synoptic Charts of Solar Activity During the First Year of Solar Cycle 20, October, 1964 - August, 1965", by Patrick S. McIntosh, NOAA Environmental Research Laboratories, and Jerome T. Nolte, American Science and Engineering, Cambridge, Massachusetts, March 1975, 25 pages, price 48 cents.
- UAG-42 "Observations of Jupiter's Sporadic Radio Emission in the Range 7.6-80 MHz 10 December 1971 through 21 March 1975", by James W. Warwick, George A. Dulk, and Anthony C. Riddle, Department of Astro-Geophysics, University of Colorado, Boulder, Colorado 80302, April 1975, 49 pages, price \$1.15.
- UAG-43 "Catalog of Observation Times of Ground-Based Skylab-Coordinated Solar Observing Programs", compiled by Helen E. Coffey, World Data Center A for Solar-Terrestrial Physics, May 1975, 159 pages, price \$3.00.
- UAG-44 "Synoptic Maps of Solar 9.1 cm Microwave Emission from June 1962 to August 1973", by Werner Graf and Ronald N. Bracewell, Radio Astronomy Institute, Stanford University, Stanford, California 94305, May 1975, 183 pages, price \$2.55.
- UAG-45 "Auroral Electrojet Magnetic Activity Indices AE (11) for 1972", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, May 1975, 144 pages, price \$2.10.
- UAG-46 "Interplanetary Magnetic Field Data 1963-1974", by Joseph H. King, National Space Science Data Center, NASA Goddard Space Flight Center, Greenbelt, Maryland 20771, June 1975, 382 pages, price \$2.95.
- UAG-47 "Auroral Electrojet Magnetic Activity Indices AE (11) for 1973", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, June 1975, 144 pages, price \$2.10.

- UAG-48A "Synoptic Observations of the Solar Corona during Carrington Rotations 1580-1596 (11 October 1971 - 15 January 1973)", [Reissue with quality images] by R. A. Howard, M. J. Koomen, D. J. Michels, R. Tousey, C. R. Detwiler, D. E. Roberts, R. T. Seal and J. D. Whitney, E. O. Hulbert Center for Space Research, NRL, Washington, D. C. 20375 and R. T. and S. F. Hansen, C. J. Garcia and E. Yasukawa, High Altitude Observatory, NCAR, Boulder, Colorado 80303, February 1976, 200 pages, price \$4.27.
- UAG-49 "Catalog of Standard Geomagnetic Variation Data", prepared by Environmental Data Service, NOAA, Boulder, Colorado, August 1975, 125 pages, price \$1.85.
- UAG-50 "High-Latitude Supplement to the URSI Handbook on Ionogram Interpretation and Reduction", by W. R. Piggott, British Antarctic Survey, c/o SRC, Appleton Laboratory, Ditton Park, Slough, England, October 1975, 292 pages, price \$4.00.
- UAG-51 "Synoptic Maps of Solar Coronal Hole Boundaries Derived from He II 304Å Spectroheliograms from the Manned Skylab Missions", by J. D. Bohlin and D. M. Rubenstein, E. O. Hulbert Center for Space Research, Naval Research Laboratory, Washington, D. C. 20375 U.S.A., November 1975, 30 pages, price 54 cents.
- UAG-52 "Experimental Comprehensive Solar Flare Indices for Certain Flares, 1970-1974", compiled by Helen W. Dodson and E. Ruth Hedeman, McMath-Hulbert Observatory, The University of Michigan, 895 Lake Angelus Road North, Pontiac, Michigan 48055 U.S.A., November 1975, 27 pages, price 60 cents.
- UAG-53 "Description and Catalog of Ionospheric F-Region Data, Jicamarca Radar Observatory (November 1966 - April 1969)", by W. L. Clark and T. E. Van Zandt, Aeronomy Laboratory, NOAA, Boulder, Colorado 80302 and J. P. McClure, University of Texas at Dallas, Dallas, Texas 75230, April 1976, 10 pages, price 33 cents.
- UAG-54 "Catalog of Ionosphere Vertical Soundings Data", prepared by Environmental Data Service, NOAA, Boulder, Colorado 80302, April 1976, 130 pages, price \$2.10.
- UAG-55 "Equivalent Ionospheric Current Representations by a New Method, Illustrated for 8-9 November 1969 Magnetic Disturbances", by Y. Kamide, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, Colorado 80302 and Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701, H. W. Kroehl, Data Studies Division, NOAA/EDS/NGSDC, Boulder, Colorado 80302, M. Kanamitsu, Advanced Study Program, National Center for Atmospheric Research, Boulder, Colorado 80303, J. H. Allen, Data Studies Division, NOAA/EDS/NGSDC, Boulder, Colorado 80302, and S.-I. Akasofu, Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701, April 1976, 91 pages, price \$1.60.
- UAG-56 "Iso-intensity Contours of Ground Magnetic H Perturbations for the December 16-18, 1971 Geomagnetic Storm", by Y. Kamide, Cooperative Institute for Research in Environmental Sciences, University of Colorado, Boulder, Colorado 80302 and Geophysical Institute, University of Alaska, Fairbanks, Alaska 99701 (currently Guest worker at Data Studies Division, NOAA/EDS/NGSDC, Boulder, Colorado 80302), April 1976, 37 pages, price \$1.39.
- UAG-57 "Manual on Ionospheric Absorption Measurements", edited by K. Rawer, Institut für Physikalische Weltraumforschung, Freiburg, G.F.R., June 1976, 202 pages, price \$4.27.
- UAG-58 "ATS6 Radio Beacon Electron Content Measurements at Boulder, July 1974 - May 1975", by R. B. Fritz, Space Environment Laboratory (currently with Wave Propagation Laboratory), NOAA, Boulder, Colorado 80302 USA, September 1976, 61 pages, price \$1.04.
- UAG-59 "Auroral Electrojet Magnetic Activity Indices AE(11) for 1974", by Joe Haskell Allen, Carl C. Abston and Leslie D. Morris, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, December 1976, 144 pages, price \$2.16.
- UAG-60 "Geomagnetic Data for January 1976 (AE(7) Indices and Stacked Magnetograms)" by J. H. Allen, C. C. Abston and L. D. Morris, NGSDC/EDS/NOAA, July 1977, 57 pages, price \$1.07.
- UAG-61 "Collected Data Reports for STIP Interval II 20 March - 5 May 1976", edited by Helen E. Coffey and John A. McKinnon, National Geophysical and Solar-Terrestrial Data Center, Environmental Data Service, August 1977, 313 pages, price \$2.95.
- UAG-62 "Geomagnetic Data For February 1976 (AE(7) Indices and Stacked Magnetograms)" by J. H. Allen, C. C. Abston and L. D. Morris, NGSDC/EDS/NOAA, September 1977, 55 pages, price \$1.11.
- UAG-63 "Geomagnetic Data for March 1976 (AE(7) Indices and Stacked Magnetograms)" by J. H. Allen, C. C. Abston and L. D. Morris, NGSDC/EDS/NOAA, September 1977, 57 pages, price \$1.11.
- UAG-64 "Geomagnetic Data for April 1976 (AE(8) Indices and Stacked Magnetograms)" by J. H. Allen, C. C. Abston and L. D. Morris, NGSDC/EDS/NOAA, February 1978, 55 pages, price \$1.00.
- UAG-65 "The Information Explosion and Its Consequences for Data Acquisition, Documentation, and Processing" by G. K. Hartmann, Max-Planck-Institut für Aeronomie, D-3411 Katlenburg-Lindau 3, GFR, May 1978, 36 pages, price 75 cents.
- UAG-66 "Synoptic Radio Maps of the Sun at 3.3mm 1970-1973" by Earle B. Mayfield, Space Science Lab., and Fred I. Shimabukuro Electronics Res. Lab., The Ivan A. Getting Laboratories, The Aerospace Corp., El Segundo, California 90245, May 1978, 30 pages, price 75 cents.
- UAG-67 "Ionospheric D-Region Profile Data Base, A Collection of Computer-Accessible Experimental Profiles of the D and Lower E Regions", by L. F. McNamara, Ionospheric Prediction Service, Sydney, Australia, August 1978, 30 pages, price 88 cents.
- UAG-68 "A Comparative Study of Methods of Electron Density Profile Analysis", by L. F. McNamara, Ionospheric Prediction Service, Sydney, Australia, September 1978, 56 pages, price \$1.41.
- UAG-69 "Selected Disturbed D-Region Electron Density Profiles. Their relation to the undisturbed D region", by L. F. McNamara, Ionospheric Prediction Service, Sydney, Australia, October 1978, 50 pages, price \$1.29.
- UAG-70 "Annotated Atlas of H_x Synoptic Charts for Solar Cycle 20 (1964-1974) Carrington Solar Rotations 1487-1616", by Patrick S. McIntosh, Space Environment Laboratory, ERL/NOAA, February 1979, 327 pages, price \$3.50.
- UAG-71 "Magnetic Potential Plots Over the Northern Hemisphere for 26-28 March 1976", by A.D. Richmond, SEL/ERL/NOAA, H.W. Kroehl, NGSDC/EDIS/NOAA, M.A. Henning, Lockheed Missiles and Space Co., Aurora, CO, and Y. Kamide, Kyoto Sangyo Univ., Kyoto, Japan, April 1979, 115 pages, price \$1.50.
- UAG-72 "Energy Release in Solar Flares, Proceedings of the Workshop on Energy Release in Flares, 26 February-1 March 1979, Cambridge, Massachusetts, U.S.A.", edited by David M. Rust, American Science and Engineering, Inc., Cambridge, MA and A. Gordon Emslie, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, July 1979, 68 pages, price \$1.50.



WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS



The ICSU Panel on WDCs has recommended that it would be appropriate courtesy to acknowledge in publications that data were obtained from the originating station or investigator through the intermediary of the WDCs. The following statement is suggested:

"Data used in this study were provided by WDC-A for Solar-Terrestrial Physics, NOAA E/GC2, 325 Broadway, Boulder Colorado 80303, USA."