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Solar-Geophysical Data Number 499, March 1986 Part 2 (Comprehensive Reports). Data for September 1985, and Miscellanea

(U.S.) National Geophysical Data Center
Boulder, CO

Prepared for

National Aeronautics and Space Administration
Washington, DC

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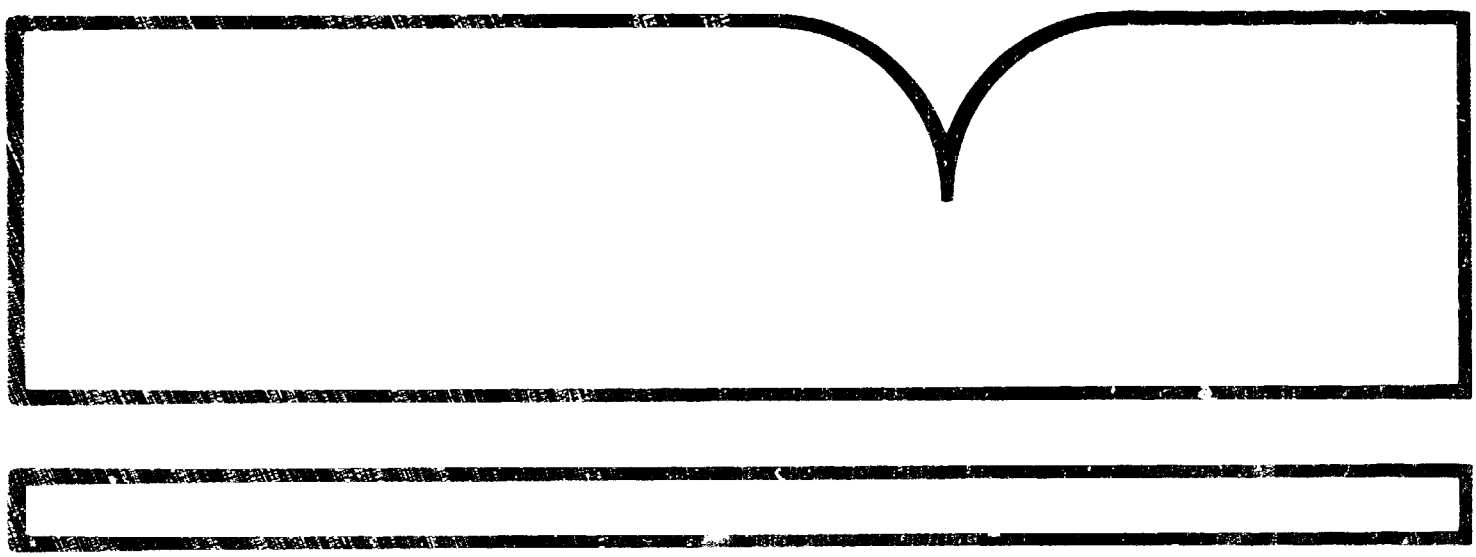

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Data for September 1985, and Miscellanea

Explanation of Data Reports Issued as Number 499 (Supplement) March 1986

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Part II (Comprehensive Reports)

NO. 499 MARCH 1986

DATA FOR
SEPTEMBER 1985

Michael A. Chinnery, Director
NATIONAL GEOPHYSICAL DATA CENTER
BOULDER, COLORADO

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KEYWORDS: *Solar activity.

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C O N T E N T S

PART I (PROMPT REPORTS)

PART II (COMPREHENSIVE REPORTS)

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DETAILED INDEX OF OBSERVATIONS PUBLISHED IN "SOLAR-GEOPHYSICAL DATA"

CODE	KIND OF OBSERVATION	JUL 85	AUG	SEP	OCT	NOV	DEC	JAN 86	FEB
A.	**SOLAR AND INTERPLANETARY PHENOMENA**								
A.1	Sunspot Drawings	493A 24	494A 26	495A 26	496A 28	497A 26	498A 30	499A 34	
A.2aa	Internat. Provisional Sunspot Numbers	492A 9	493A 7	494A 7	495A 7	496A 7	497A 7	498A 7	499A 9
A.2c	American Sunspot Numbers	492A 9	493A 7	494A 7	495A 7	496A 7	497A 7	498A 7	499A 9
A.3a	Mt. Wilson Magnetograms	493A 24	494A 26	495A 26	496A 28	497A 26	498A 30	499A 34	
A.3b	Mt. Wilson Sunspot Magnetic Class	493A 55	494A 57	495A 56	496A 59	497A 57	498A 61	499A 65	
A.3c	Kitt Peak Magnetograms	493A 24	494A 26	495A 26	496A 28	497A 26	498A 30	499A 34	
A.3d	Mean Solar Magnetic Field (Stanford)	492A 25	493A 19	494A 20	495A 21	496A 23	497A 22	498A 24	499A 30
A.3e	Stanford Magnetograms	493A 24	494A 26	495A 26	496A 28	497A 26	498A 30	499A 34	
A.4	H-alpha Filtergrams	493A 24	494A 26	495A 26	496A 28	497A 26	498A 30	499A 34	
A.5	Calcium Plage Photographs/Drawings	Aug 84-Jun 85 in 499A131							
A.5a	Calcium Plage and Sunspot Regions	Sep 83 in 499A124							
A.5b	Daily Calcium Plage Indices	Sep 83 in 499A129							
A.6	H-alpha Synoptic Charts	493A 22	494A 24	495A 24	496A 26	497A 24	498A 26	499A 32	
A.6b	Active Region Carte Synoptique (Pa[illegible])	499B 22	499B 22	499B 22					
A.6c	Stanford Solar Mag Field Synoptic Maps	493A 23	494A 25	495A 25	496A 26	497A 25	498A 27	499A 33	
A.6d	Kitt Peak Solar Mag Field Synoptic Maps	May 85-Jan 86 in 499A 80							
A.6e	Mass Ejections from the Sun	497B 32	498B 19	499B 17					
A.6f	Active Prominences and Filaments	497B 34	498B 20	499B 18					
A.7g	Kitt Peak Helium Synoptic Maps								
A.7h	Coronal Line Emission (Sacramento Peak)	493A 24	494A 26	495A 26	496A 28	497A 26	498A 30	499A 34	
A.8aa	2800 MHz - Solar Flux (Ottawa)	492A 9	493A 7	494A 7	495A 7	496A 7	497A 7	498A 7	499A 9
A.8ac	2900 MHz - Adj. Solar Flux (Ottawa)	492A 9	493A 7	494A 7	495A 7	496A 7	497A 7	498A 7	499A 9
A.8g	Adjusted Daily Solar Fluxes (Sagamore)	492A 9	493A 7	494A 7	495A 7	496A 7	497A 7	498A 7	499A 9
A.10a	Interferometric Chart -169 MHz- Nancay	492A 18	494A 76	494A 14	495A 15	496A 14	498A 78	498A 14	
A.10c	East-West Scans - 21 cm - Fleurs	492A 21	493A 16	494A 17	495A 18	496A 17	497A 16	498A 17	
A.10d	East-West Scans - 43 cm - Fleurs	492A 22	493A 17	494A 18	495A 19	496A 18	497A 17	498A 18	
A.10e	East-West Scans - 10 cm - Ottawa	492A 20	493A 15	494A 16	495A 17	496A 16	497A 15	498A 16	499A 19
A.10f	East-West Scans - 3 cm - Toyokawa	492A 19	493A 14	494A 15	495A 16	496A 15	497A 14	498A 15	499A 18
A.11g	Solar X-ray GOES (raphs/event table)	497B 26	498B 12	499B 12					
A.12e	Solar Particles (MP H & J)	Apr-Dec 83 in 491B 80							
A.13d	Solar Wind from IP Scintillations	Dec 84 in 486A 92							
A.13e	Solar Plasma (IMP H & J)	Jul 84-Mar 85 in 494B158							
A.13f	Solar Wind (Pioneer 12)	Aug 83-Jan 84 in 487A 82							
A.16a	SMM Solar Irradiance	Dec 84 in 490B 18							
A.16b	NIMBUS Solar Irradiance	Nov 78-Oct 84 in 499B 26							
A.17	Interplanetary Mag Field (Pioneer 12)	Dec 84 in 488A 80							
A.17c	Inferred Interplanetary Magnetic Field	494A 77	494A 77	494A 77	494A 77	496A 21	497A 19	498A 21	499A 27
B.	**IONOSPHERIC RADIO PROPAGATION PHENOMENA**								
B.52	Field Strength Graphs - North Atlantic	493A 74	494A 72	495A 68	496A 76	497A 70	498A 74	499A 76	
B.53	Quality Indices on Paths to Germany	493A 76	494A 74	495A 70	496A 75	497A 72	498A 73	499A 76	
C.	**SOLAR FLARE-ASSOCIATED EVENTS**								
C.1a	H-alpha Flares	492A 14	493A 12	494A 12	495A 12	496A 12	497A 12	498A 12	499A 14
C.1ba	H-alpha Flare Groups	497B 4	498B 4	499B 4					
C.1d	Flare Patrol Observations	492A 17	493A 13	494A 13	495A 14	496A 13	497A 13	498A 13	499A 17
C.1d	Flare Patrol Observations	497B 13	498B 7	499B 7					
C.3	Radio Bursts Fixed Freq.	497B 14	498B 9	499B 9					
C.3	Radio Bursts Fixed Freq. Selected	492A 23	493A 18	494A 19	495A 20	496A 19	497A 18	498A 19	499A 20
C.4d	Radio Bursts Spectral (Culgoora)	499A 90	499A 90	499A 90	499A 90	499A 90	499A 90	499A 67	
C.4e	Radio Bursts Spectral (Weissenau)	493A 63	494A 62	495A 58	496A 64	497A 61	498A 65	499A 67	
C.4f	Radio Bursts Spectral (Sagamore Hill)	493A 63	494A 62	495A 58	496A 64	497A 61	498A 65	499A 67	
C.4i	Radio Bursts Spectral (Bleien)	493A 63	494A 62						
C.4k	Radio Bursts Spectral (Learmonth)	493A 63	494A 62	495A 58	496A 64	497A 61	498A 65	499A 67	
C.4l	Radio Bursts Spectral (Palehua)	493A 63	494A 62	495A 58	496A 64	497A 61	498A 65	499A 67	
C.6	Sudden Ionospheric Disturbances	493A 63	494A 61	494A 57	496A 62	497A 60	498A 64	499A 66	
D.	**GEOMAGNETIC & MAGNETOSPHERIC PHENOMENA**								
D.1a	Geomagnetic Indices	493A 70	494A 68	495A 64	496A 71	497A 66	498A 68	499A 72	
D.1ba	27-day Chart of Kp Indices	493A 72	494A 70	495A 66	496A 73	497A 68	498A 70	499A 74	
D.1c	27-day Chart of Dq	498A 71	498A 71	498A 71	498A 71	498A 71	498A 71		
D.1d	Principal Magnetic Storms	493A 73	494A 71	495A 67	496A 74	497A 69	498A 72	499A 75	
D.1f	Sudden Commencement Solar Flare Effects	494A 79	495A 72	496A 80	497A 76	498A 83			
D.1g	Equatorial Indices Dst	494A 78	497A 74	497A 75					
F.	**COSMIC RAYS**								
F.1a	Cosmic Ray Neutron Counts (Deep River)	499A118	499A119	499A120	499A121	499A122	499A123		
F.1b	Cosmic Ray Neutron Counts (Climax)	493A 69	494A 67						
F.1e	Cosmic Ray Neutron Counts (Alert)	499A118	499A119	499A120	499A121	499A122	499A123		
F.1h	Cosmic Ray Neutron Counts (Thule)	493A 69	494A 67	495A 63	496A 67	497A 65	498A 67	499A 71	
F.1i	Cosmic Ray Neutron Counts (Kiel)	493A 69	494A 67	494A 63	496A 67	497A 65	498A 67	499A 71	
F.1j	Cosmic Ray Neutron Counts (Tokyo)	493A 69	494A 67	495A 63	496A 67	497A 65	499A123	499A 71	
F.1l	Cosmic Ray Neutron Counts (Huancayo)	Mar 85 in 491A 85							
F.1m	Cosmic Ray Neutron Counts (Predigtstuhl)	493A 69	494A 67	495A 63	496A 67	497A 65	498A 67	499A 71	
H.	**MISCELLANEOUS**								
H.60	IUWDS Alert Periods	492A 5	493A 4	494A 4	495A 4	496A 4	497A 4	498A 4	499A 5

The entry "493A 24" under Jul 1985, for example, means that the sunspot drawings for Jul 1985 appear in SOLAR-GEOPHYSICAL DATA No. 493, Part I, and that they begin on page 24. "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

C O N T E N T S

Comprehensive Reports DATA FOR SEPTEMBER 1985 Number 499 Part II

H - ALPHA S O L A R F L A R E S

SEPTEMBER 1985

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp	Opt	Xray	Sec	Obs Type	Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Area Measurement Corr (Sq Deg)	Remarks
0001	KHAR	02	0958E		1010D	N72	E90		09	19.6	12D	SF				V	0958			DH
		02	1955		2001	No Flare Patrol														
		02	2010		2031	No Flare Patrol														
		02	2103		2113	No Flare Patrol														
		02	2136		2138	No Flare Patrol														
		04	1325		1638	No Flare Patrol														
		04	1711		1759	No Flare Patrol														
		04	1805		1838	No Flare Patrol														
		04	1901		1957	No Flare Patrol														
		05	1401		1631	No Flare Patrol														
		05	1723		1739	No Flare Patrol														
		06	0941		0949	No Flare Patrol														
		06	1850		1909	No Flare Patrol														
0002	CULG	06	2256	2316	2333U	N06	E03	4693A	09	7.2	37U	SF				C		60	.6	CEGL
		08	1456		1505	No Flare Patrol														
		08	1511		1516	No Flare Patrol														
		08	1525		1534	No Flare Patrol														
		08	1543		1544	No Flare Patrol														
		08	2007		2129	No Flare Patrol														
		09	2058		2107	No Flare Patrol														
0003		12	1123	11232	1128	S11	E90	4694	09	19.2	5	SF						45		G
	RAMY	12	1118E		1129	S09	E90	4694	09	19.2	11D	SF			3	C				
	KANZ	12	1123	1123	1128	S11	E90	4694	09	19.2	5	SF			1					G
	CATA	12	1125E	1125	1145D	S13	E90	4694	09	19.3	20D	1F			2	P	1125	45		
0004	KANZ	12	1418	1418U	1426D	S11	E90	4694	09	19.4	8D	SF			1					G
		12	1935		2021	No Flare Patrol														
		12	2026		2100	No Flare Patrol														
		12	2104		2114	No Flare Patrol														
		12	2120		2152	No Flare Patrol														
		12	2156		2219	No Flare Patrol														
0005		13	0735	07364	0745	S12	E80	4694	09	19.3	10	1N	C	1.7				35		T
	CATA	13	0730E	0740	0745D	S11	E78	4694	09	19.2	15D	1B			2	P	0740	55		T
	LEAR	13	0735	0736	0745	S14	E81	4694	09	19.4	10	SF	C	1.7	3	C		14		
0006		13	0833	0839	0844	S14	E78	4694	09	19.2	11	SF						15	.6	
	LEAR	13	0833	0839	0844	S14	E78	4694	09	19.2	11	SF			3	C		11		
	ATHN	13	0835E	0840U	0844	S14	E78	4694	09	19.2	9D	SF			3	V	0840	19	.6	
		13	1449		1555	No Flare Patrol														
		13	1929		2022	No Flare Patrol														
		13	2031		2055	No Flare Patrol														
0007	CATA	14	0920	0920	0925	S13	E65	4694	09	19.3	5	SN			2	C	0920	56		T
		14	1346		1353	No Flare Patrol														
		14	1431		1445	No Flare Patrol														
		14	1449		1503	No Flare Patrol														
		14	1554		1617	No Flare Patrol														
		14	1628		1637	No Flare Patrol														
		14	2034		2043	No Flare Patrol														
0008		15	07295	07364	0753	S11	E54	4694	09	19.4	24	1B	C	4.3				211	2.8	DFHL
	PEKG	15	0729	0740	0745	S10	E54	4694	09	19.4	16	1B				P	0740	189	3.9	D
	ATHN	15	0733	0736U	0746	S10	E53	4694	09	19.3	13	1B			2	V	0736	207	4.0	
	LEAR	15	0733	0736	0757	S11	E53	4694	09	19.3	24	1B	C	4.3	3	C		209		FH
	KANZ	15	0734	0738	0758	S12	E56	4694	09	19.5	24	1N			1					
	WEND	15	0735E		0802	S11	E53	4694	09	19.3	27D	1N	C	4.3		C	0735	240	4.2	
	KHAR	15	0742E		0805D	S13	E55	4694	09	19.5	23D	1N				V	0748			DL
		15	1532		1538	No Flare Patrol														
0009	RAMY	15	1549	1550	1616	S09	E51	4694	09	19.5	27	SF			3	C		38		F

H - ALPHA S O L A R F L A R E S

SEPTEMBER 1985

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp	Xray	See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Area Measurement Corr (Sq Deg)	Remarks
		15	1930		1946	No Flare Patrol													
		15	2001		2028	No Flare Patrol													
0010	CULG	15	2308	2335	2453	S20	W47	4693	09	12.4	105	SN			C		80	1.4	EH
0011	CULG	16	0007	0013	0033	N34	E02		09	16.2	26	SF			C		90	1.0	EG
0012		17	0159	0217	0239	S10	E32	4694	09	19.5	40	SN					30	.4	D
	CULG	17	0156E	0156U	0213	S08	E34	4694	09	19.6	17D	SN			P		40	.5	D
	CULG	17	0159	0217	0305	S11	E29	4694	09	19.3	66	SF			C		20	.3	D
		17	1923		1934	No Flare Patrol													
		17	2012		2053	No Flare Patrol													
		17	2106		2113	No Flare Patrol													
		17	2123		128	No Flare Patrol													
0013	KANZ	18	1256	1256	1256	S12	E09	4694	09	19.2	66	SF		2					
0014		18	1307*	1307*	1319	S10	E00	4694	09	18.5	12	SF					22		
	RAMY	18	1307	1307	1309	S10	E00	4694	09	18.5	2	SF		3	C		20		
	KANZ	18	1307	1307	1310	S10	E00	4694	09	18.5	3	SF		2					
	KANZ	18	1319	1319	1327	S10	E00	4694	09	18.5	8	SF		2					
	RAMY	18	1319	1321	1330	S09	E00	4694	09	18.5	11	SF		3	C		25		
		18	1516		1535	No Flare Patrol													
0015		18	15574	1602	1612	S11	E00	4694	09	18.7	15	SN					50	.5	
	WEND	18	1557	1602	1612	S11	E01	4694	09	18.7	15	SN			C	1602	50	.5	
	RAMY	18	1601		1603D	S11	W00	4694	09	18.7	2D	SF		3	C				
		18	2004		2008	No Flare Patrol													
0016	CULG	18	2109	2117	2145	S09	W12	4694	09	18.0	36	SF			C		80	.8	D
0017	CULG	18	2211	2215	2241	S06	W10	4694	09	18.2	30	SF			C		60	.6	D
0018		19	01366	0150	0202	S11	W08	4694	09	18.5	26	SF					30	.3	D
	CULG	19	0136	0150	0202	S11	W08	4694	09	18.5	26	SF			C		30	.3	D
	CULG	19	0142	0150	0156D	S11	W08	4694	09	18.5	14D	SF			P		30	.3	D
		19	1857		1858	No Flare Patrol													
		19	1928		1950	No Flare Patrol													
		19	1958		2007	No Flare Patrol													
		19	2014		2032	No Flare Patrol													
		19	2048		2057	No Flare Patrol													
		19	2111		2114	No Flare Patrol													
0019	HOLL	19	2139E	2141U	2152	S10	W16	4694	09	18.7	13D	SF		3	C		76		FH
		20	1540		1559	No Flare Patrol													
0020	KHAR	21	0924E	0927U	0930D	S08	W59		09	17.0	6D	SF			V	0927	20	.4	D
0021	KHAR	21	0945E		0950D	S22	E74		09	27.1	5D	SF			V	0945			DL
		21	1450		1533	No Flare Patrol													
		21	1603		1619	No Flare Patrol													
		21	1809		1825	No Flare Patrol													
		21	1857		1901	No Flare Patrol													
		21	1913		2028	No Flare Patrol													
0022	CULG	22	0124E	0125U	0233	S12	W41	4694	09	19.0	69D	SF			P		70	1.0	D
		23	2047		2052	No Flare Patrol													
		23	2151		2155	No Flare Patrol													
		24	1506		1640	No Flare Patrol													
		24	1823		1855	No Flare Patrol													
		24	2048		2055	No Flare Patrol													

H - ALPHA S O L A R F L A R E S

SEPTEMBER 1985

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	CMP Day	Dur (Min)	Imp Opt	Imp Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10^{-6} Disk)	Area Measurement Corr (Sq Deg)	Remarks
		26	0343		0358	No Flare Patrol													
		26	0456		0459	No Flare Patrol													
		27	1233		1235	No Flare Patrol													
		28	1541		1559	No Flare Patrol													
		29	1708		1713	No Flare Patrol													
		29	1722		1735	No Flare Patrol													
		29	1820		1827	No Flare Patrol													
		29	1831		1844	No Flare Patrol													
		30	1717		1727	No Flare Patrol													

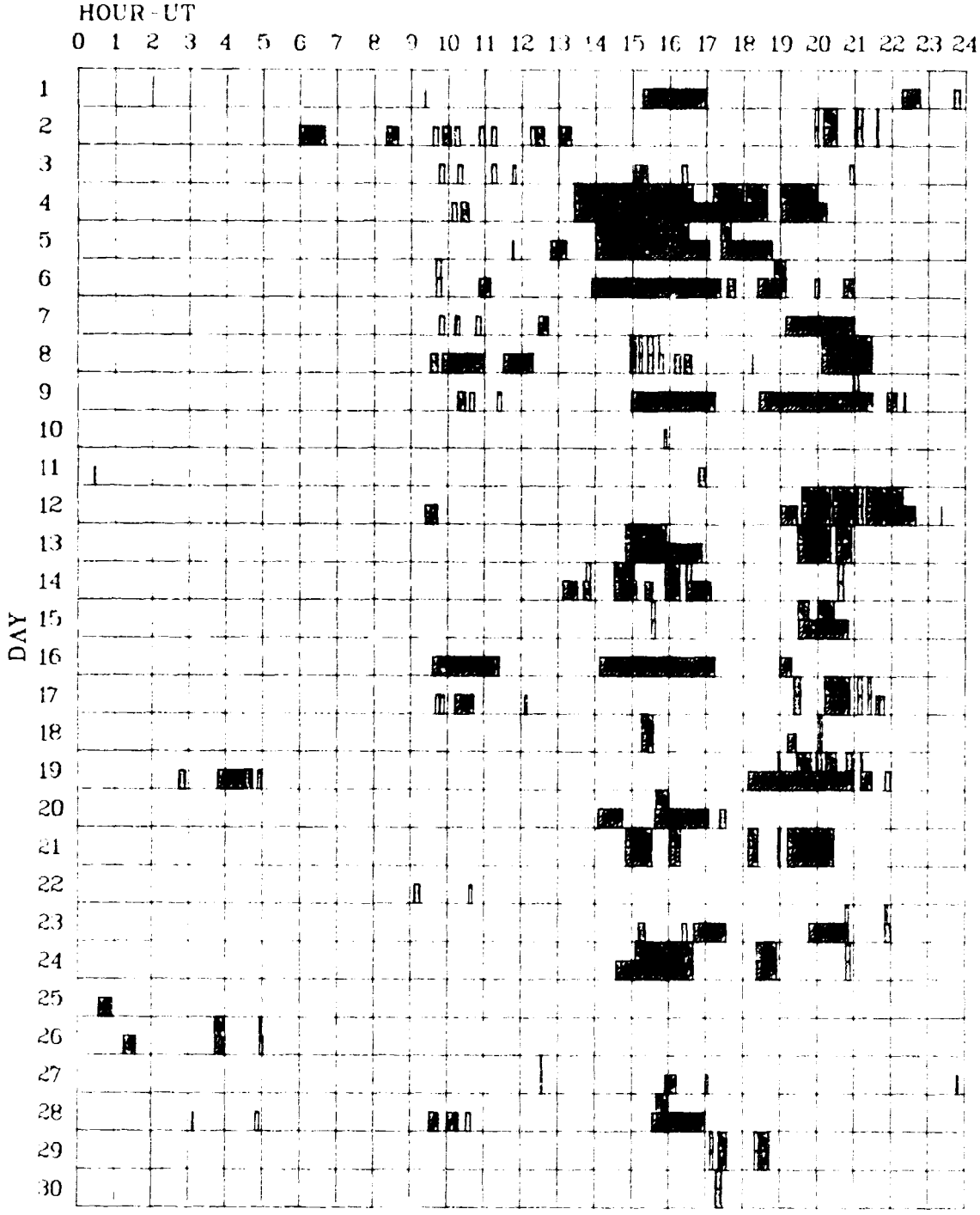
"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by 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 H and K lines of Ca II.
P = Flare shows helium D3 in emission.
Q = Flare shows Balmer continuum in emission.
R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.
S = Brightness follows disappearance of filament in same position.
T = Region active all day.
U = Two bright branches, parallel or converging.
V = Occurrence of an explosive phase: important, expansion within roughly 1 minute that often includes a significant intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide H-alpha line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

SEPTEMBER 1985



Times of no flare patrol, shown here as shaded areas, combine reports from the observatories listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind, that is, of neither visual nor cinematographic; portions of a panel with only the bottom half shaded mark times of strictly visual patrol.

Abastumani	Culgoora	Kharkov	Mitaka	Ramey
Athens	Holloman	Learmonth	Palehua	Tashkent
Bucharest	Istanbul	Lvov	Peking	Voroshilov
Catania	Kanzelhoehe	Manila	Purple Mt.	Wendelstein

NUMBER OF SOLAR FLARES
(From the Grouped Flare Listings)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1966								391	558	432	417	543
1967	796	589	1009	694	771	629	907	911	573	946	775	1109
1968	1037	773	519	460	768	697	573	611	616	772	556	640
1969	581	504	669	655	839	694	489	551	540	643	566	422
1970	466	646	578	688	722	836	954	780	811	797	687	667
1971	598	505	387	546	461	430	713	673	518	375	431	394
1972	384	599	621	361	614	541	404	515	371	408	175	210
1973	221	171	410	453	388	270	232	182	353	201	136	163
1974	127	148	79	364	255	204	360	187	270	366	153	81
1975	68	82	69	19	42	85	196	346	68	38	127	25
1976	69	18	180	60	38	48	6	47	57	23	13	55
1977	54	77	18	76	64	210	140	140	250	252	107	336
1978	274	588	338	526	330	460	533	346	554	499	418	648
1979	926	781	731	731	907	772	750	821	901	1018	888	786
1980	703	689	621	1092	811	956	763	720	924	988	1027	838
1981	578	782	914	915	658	592	893	982	680	836	773	615
1982	631	763	783	480	540	769	696*	753*	616*	545*	565*	743*
1983	332*	220*	337*	346*	609*	561*	427*	395*	289*	298*	88*	152*
1984	353*	461*	366*	440*	492*	185*	151*	161*	95*	36*	92*	69*
1985	104*	29*	38*	118*	126*	113*	177*	48*	22*			

*Preliminary

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1985

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
01	204	IZMI	5	S	0947.2	0947.3	.3	90.0	45.0		
02	930	BORD	41	F	1010.8	1011.0	.8	33.0	2.0		
	33	UPIC	3		1155.0	1155.2	.5				
	29	UPIC	1		1155.0	1155.2	.6				
	260	ONDR	41	F	1238.0	1238.8	1.0	4.0			
	930	BORD	41	F	1510.2	1510.6	.8	60.0	2.0		
03	930	BORD	41	F	1006.4	1006.4	.5	45.0	2.0		
	260	ONDR	8	S	1008.0	1008.0	.1	10.0			
	930	BORD	8	S	1442.8	1443.3	.6	113.0	2.0		
	930	BORD	41	F	1457.9	1457.9	.4	23.0	2.0		
04	930	BORD	46	C	1007.2	1007.3	4	52.0	3.0		
	930	BORD	46	C	1500.6	1500.8	.6	72.0	3.0		
05	260	ONDR	8	S	0806.5	0806.5	.1	5.0			
	930	BORD	8	S	1008.5	1008.5	.3	72.0	2.0		
	930	BORD	8	S	1203.0	1203.2	.2	11.0	2.0		
	930	BORD	8	S	1456.8	1456.9	.3	53.0	2.0		
	930	BORD	46	C	1459.6	1500.0	.7	82.0	4.0		
06	3100	CRIM	42	SER	0617.3	0617.8	3.0	1.7	0.6		
	3100	CRIM			0617.8	0630.0	30.0	1.7			
	3100	CRIM	24	R	0654.0	0840.0		2.6			
	930	BORD	8	S	1007.1	1007.3	.6	63.0	3.0		
	930	BORD	8	S	1109.0	1109.1	.3	12.0	2.0		
	930	BORD	41	F	1404.6	1406.1	1.5	216.0	2.0		
07	3750	TYKW	5	S	0803.0	0808.1	11.0	12.0	5.0U		RAIN
	3100	CRIM	20	GRF	0813.0	0825.0	42.0	1.5	.5		
	260	ONDR	42	SER	1111.0	1132.0	27.0	7.0			
09	204	IZMI	7	C	0858.0	0858.2	15.0	50.0	25.0		
	930	BORD	8	S	1004.5	1004.8	.7	82.0	2.0		
10	204	IZMI	7	C	1147.0	1150.2	7.0	30.0	15.0		
	260	ONDR	8	S	1148.5	1148.5	.1	6.0			
	930	BORD	46	C	1609.0	1609.8	1.0	24.0	4.0		
11	930	BORD	8	S	1013.0	1013.3	.3	185.0	2.0		
	930	BORD	41	F	1039.7	1039.9	.3	13.0	2.0		
	930	BORD	41	F	1526.4	1526.9	.6	55.0	3.0		
12	3100	CRIM	24	R	1056.5	1058.1		2.5			
	930	BORD	8	S	1310.8	1311.1	.4	22.0	2.0		
	930	BORD	46	C	1507.0	1507.5	.6	42.0	3.0		
	930	BORD	8	S	1548.7	1548.8	.2	16.0	2.0		
	930	BORD	41	F	1626.9	1627.1	.6	19.0	2.0		
13	930	BORD	41	F	0614.0	0615.4	1.5	19.0	2.0		
	930	BORD	8	S	1114.8	1115.0	.4	13.0	2.0		
	33	UPIC	2	S/F	1143.0	1143.2	.4				
	29	UPIC	1	S	1143.2	1143.5	.5				
	930	BORD	46	C	1410.6	1411.1	.7	262.0	4.0		
	930	BORD	42	SER	1514.6	1535.5	21.0	58.0	2.0		
14	204	IZMI	41	F	1106.0	1106.5	.8	110.0			
15	536	ONDR	8	S	0636.0	0636.0	.2	35.0			
	3100	CRIM	3	S	0722.0	0724.8	5.0	8.0	3.0		
	3100	CRIM	29	PBI	0727.0	0727.0	9.0	3.0	1.0		
	3750	TYKW	45	C	0732.0	0734.8	5.0	9.0	3.0		
	2000	TYKW	45	C	0732.0	0734.8	5.0	5.0	2.0		
	1000	TYKW	45	C	0732.0	0734.9	5.0	4.0	1.5		
	950	GORK	46	C	0732.3	0733.8	5.0	3.0			
	950	GORK			0732.3	0734.9		2.0			
	1470	POTS	4	S/F	0732.3	0735.0	4.2U	10.0			
	500	HIRA	46	C	0732.3	0736.1	5.5	39.0	4.0		0
	650	GORK	4	S/F	0732.5	0733.9	6.1	17.0			
	2840	PEKG	3	S	0732.5	0734.7	17.5	9.6	4.2		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1985

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
15	2950	GORK	21	GRF	0732.6	0737.8	17.1	2.1			
	3000	POTS	4	S/F	0733.0	0734.9	4.00	8.0			
	610	LEAR	8	S	0733.5	0733.8	.8	18.0			QL=6 ST=2 TYP=3
	2950	GORK	4	S/F	0733.9	0734.7	2.7	5.6			
	9400	TYKW	45	C	0734.0	0734.7	15.0	8.0	3.0		
	1415	LEAR	8	S	0734.1	0735.0	1.0	17.0			QL=6 ST=2 TYP=3
	9500	POTS	20	GRF	0734.5	0738.0	16.0	9.0			
	9100	GORK	20	GRF	0734.5	0741.5	15.4	6.7			
	2695	LEAR	8	S	0734.6	0734.8	.4	6.0			QL=6 ST=2 TYP=3
	3750	TYKW	29	PBI	0737.0		15.0	3.0	1.5		
	2000	TYKW	29	PBI	0737.0		15.0	2.0	1.0		
	260	ONDR	4	S/F	0737.0	0737.5	1.2	11.0			
	204	IZMI	41	F	0752.2	0753.0	1.2	360.0			
	260	ONDR	41	F	1208.0	1208.5	1.0	14.0			
16	9395	PKG	1	S	0150.0	0150.5	1.5	9.7	4.8		
	930	BORD	8	S	0815.2	0815.5	.6	15.0	2.0		
	930	BORD	8	S	0821.5	0821.7	.6	67.0	2.0		
	930	BORD	8	S	1001.6	1002.1	1.0	360.0	2.0		
	260	ONDR	40	F	1010.5	1014.0	3.5	2.0			
	930	BORD	8	S	1106.2	1106.4	.4	22.0	2.0		
	930	BORD	46	C	1508.8	1509.2	.6	175.0	3.0		
17	245	LEAR	44	NS	2234.0E	0210.6		36.0			QL=6 ST=1 TYP=1
	9395	PEKG	40	F	0147.0	0156.2	18.0	24.9	11.4		
	930	BORD	8	S	1006.6	1006.8	.5	113.0	2.0		
	930	BORD	8	S	1033.6	1033.7	.3	16.0	2.0		
	930	BORD	46	C	1522.4	1522.7	.6	63.0	3.0		
	930	BORD	8	S	1609.6	1609.8	.3	11.0	2.0		
	930	BORD	46	C	1724.8	1725.0	.5	24.0	3.0		
18	260	ONDR	44	NS	0710.0E	1132.5	442.00	190.00			
	500	HIRA	8	S	0308.6	0308.8	.6	3.0			WR
	100	HIRA	8	S	0308.7	0309.0	.7	380.0			0
	200	HIRA	8	S	0308.7	0309.0	.7	72.0			0
	204	IZMI	42	SER	0854.5	0857.0	2.5	80.0			
	930	BORD	8	S	0958.6	0958.7	.3	154.0	2.0		
	204	IZMI	5	S	1007.5	1008.0	1.0	85.0	40.0		
	204	IZMI	42	SER	1102.0	1132.2	53.0	900.0			
	536	ONDR	40	F	1109.0		12.5	4.0			
	930	BORD	8	S	1119.0	1119.3	.4	14.0	2.0		
	930	BORD	46	C	1131.3	1131.8	1.7	11.0	5.0		
	1470	POTS	4	S/F	1131.3	1132.0	2.2	4.0			
	808	ONDR	4	S/F	1132.0		1.5				
	234	POTS	4	S/F	1132.0	1132.4	1.6	580.0	60.0		
	113	POTS	4	S/F	1132.1	1132.5	1.2	110.0	10.0		
	300	POTS	4	S/F	1132.1	1132.6	1.6	1000.0	50.0		
	33	UPIC	45	C	1132.5	1133.2	1.5				
	29	UPIC	45	C	1132.6	1132.9	1.4				
	536	ONDR	40	F	1321.5	1322.5	1.5	5.0			
	30	POTS	4	S/F	1322.2	1322.5	1.5	1100.0	50.0		
	234	POTS	4	S/F	1322.5	1323.1	1.2	275.0	15.0		
	113	POTS	4	S/F	1322.6	1322.9	1.1	28.0	4.0		
	33	UPIC	45	C	1322.7	1323.9	2.5				
	29	UPIC	45	C	1323.1	1324.2	2.1				
19	260	ONDR	44	NS	0639.0E	0841.0	465.00	18.0			
	245	LEAR	43	NS	2233.0	0840.8	689.00	11.0			QL=6 ST=2 TYP=1
	2840	PEKG	1	S	0718.0	0719.0	9.0	3.7	1.2		
	536	ONDR	40	F	1012.0	1012.3	5.5	15.0			
	930	BORD	41	F	1611.0	1611.3	.5	14.0	2.0		
20	930	BORD	8	S	1415.7	1416.2	.6	79.0	2.0		
21	260	ONDR	8	S	0834.3	0834.3	.1	8.0			
	930	BORD	8	S	0937.6	0937.7	.4	24.0	2.0		
	260	ONDR	8	S	1213.0	1213.0	.1	5.0			
22	260	ONDR	8	S	0941.5	0941.5	.5	3.0			
23	930	BORD	8	S	1006.9	1007.0	.3	154.0	2.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

SEPTEMBER 1985

Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10^{-22} W/m^2 Hz)	Flux Density Mean (10^{-22} W/m^2 Hz)	Int	Remarks
24	930	BORD	8	S	1008.6	1008.7	.3	103.0	3.0		
	930	BORD	46	C	1510.0	1510.3	.5	44.0	5.0		
25	204	IZMI	5	S	0624.5	0625.0	1.0	330.0	160.0		
	3000	IZMI	7	C	0734.0	0734.8	6.0	8.0	5.0		
	260	ONDR	40	F	0954.5	0954.5	1.0	4.0			
	930	BORD	41	F	1001.3	1001.5	.6	84.0	4.0		
[	536	ONDR	8	S	1117.0	1117.0	.1	4.0			
[	260	ONDR	8	S	1117.3	1117.5	.2	1.0			
	930	BORD	46	C	1432.8	1433.2	.6	216.0	6.0		
	245	SGMR	47	GB	1544.8	1549.6	5.3	139.0			QL=1 ST=2 TYP=5
	930	BORD	41	F	1622.0	1622.5	.6	103.0	2.0		
26	930	BORD	8	S	0950.8	0951.0	.4	105.0	4.0		
[	260	ONDR	40	F	1133.8	1145.5	11.7	3.0			
[	536	ONDR	40	F	1139.0	1143.5	7.0	3.0			
	930	BORD	46	C	1505.5	1505.7	.4	53.0	4.0		
	930	BORD	41	F	1617.8	1618.1	.6	26.0	3.0		
27	930	BORD	40	F	0930.0	0937.3	16.0	6.0	3.0		
	930	BORD	8	S	1004.6	1004.7	.3	25.0	3.0		
	930	BORD	8	S	1041.6	1041.8	.4	14.0	2.0		
	536	ONDR	40	F	1042.0	1042.6	5.5	22.0			
	260	ONDR	46	C	1046.2	1046.2	1.5	13.0			
	808	ONDR	46	C	1046.5	1046.6	1.0				
	930	BORD	46	C	1106.1	1106.5	.6	250.0	3.0		
	930	BORD	8	S	1223.5	1223.7	.4	11.0	2.0		
	930	BORD	46	C	1406.0	1406.2	.6	730.0	6.0		
	930	BORD	8	S	1504.0	1504.2	.4	11.0	2.0		
	930	BORD	41	F	1603.2	1603.6	.4	70.0	3.0		
28	260	ONDR	8	S	0931.6	0931.6	.1	6.0			
	260	ONDR	8	S	1101.5	1101.5	.1	3.0			
29	260	ONDR	46	C	1038.9	1038.9	2.5	8.0			
30 [	33	UPIC	2	S/F	1246.5	1247.0	.6				
[	29	UPIC	1	S	1247.0	1247.2	.4				

Reports are received routinely from the following observatories:

ATHN = Athens
BERN = Berne
BORD = Bordeaux
CRIM = Crimea
DWIN = Dwingeloo
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = IZMIRAN
KISV = Kislovodsk
KRAK = Krakow
LEAR = Learmonth
MANI = Manila
NAGO = Nagoya
NOBE = Nobeyama
ONDR = Ondrejov
OTTA = Ottawa
PALE = Palehua
PEKG = Peking
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
TORN = Torun
TYKW = Toyokawa
TRST = Trieste
UPIC = Upice

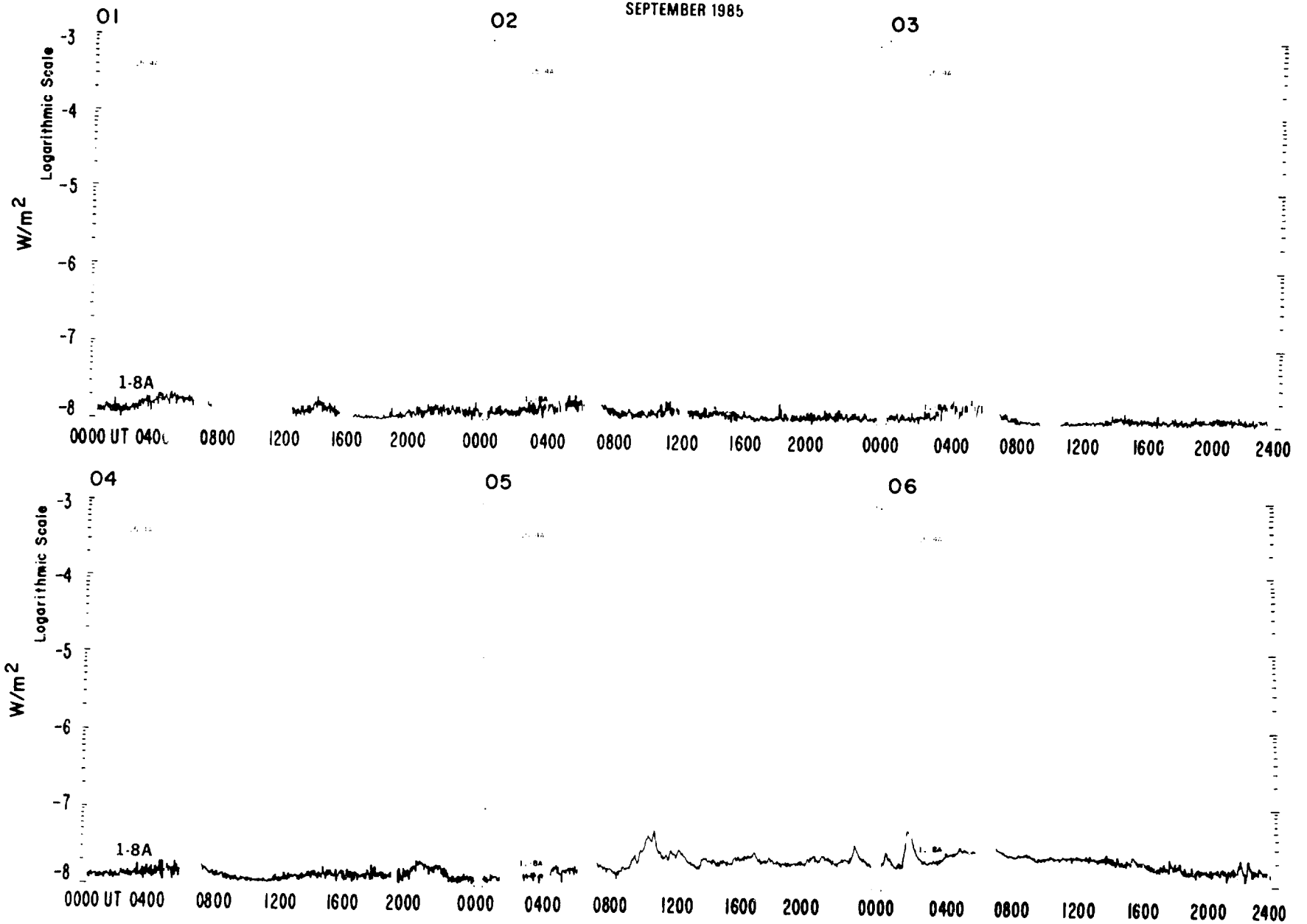
Explanation of Type Code:

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

1A Simple 1A
3A Simple 2A
21A Simple 3A GRF
2A Simple 1AF
4A Simple 2AF
24O Rise only
24OF Rise only F
24P Post Rise
24PF Post Rise F
16A Fall A
26O Fall Only
26F Fall F
27F Rise and Fall F
27AF Rise and Fall AF
31A Post Burst Decrease A
32A Absorption A
46F Complex F

GOES 6 X-RAYS

SEPTEMBER 1985



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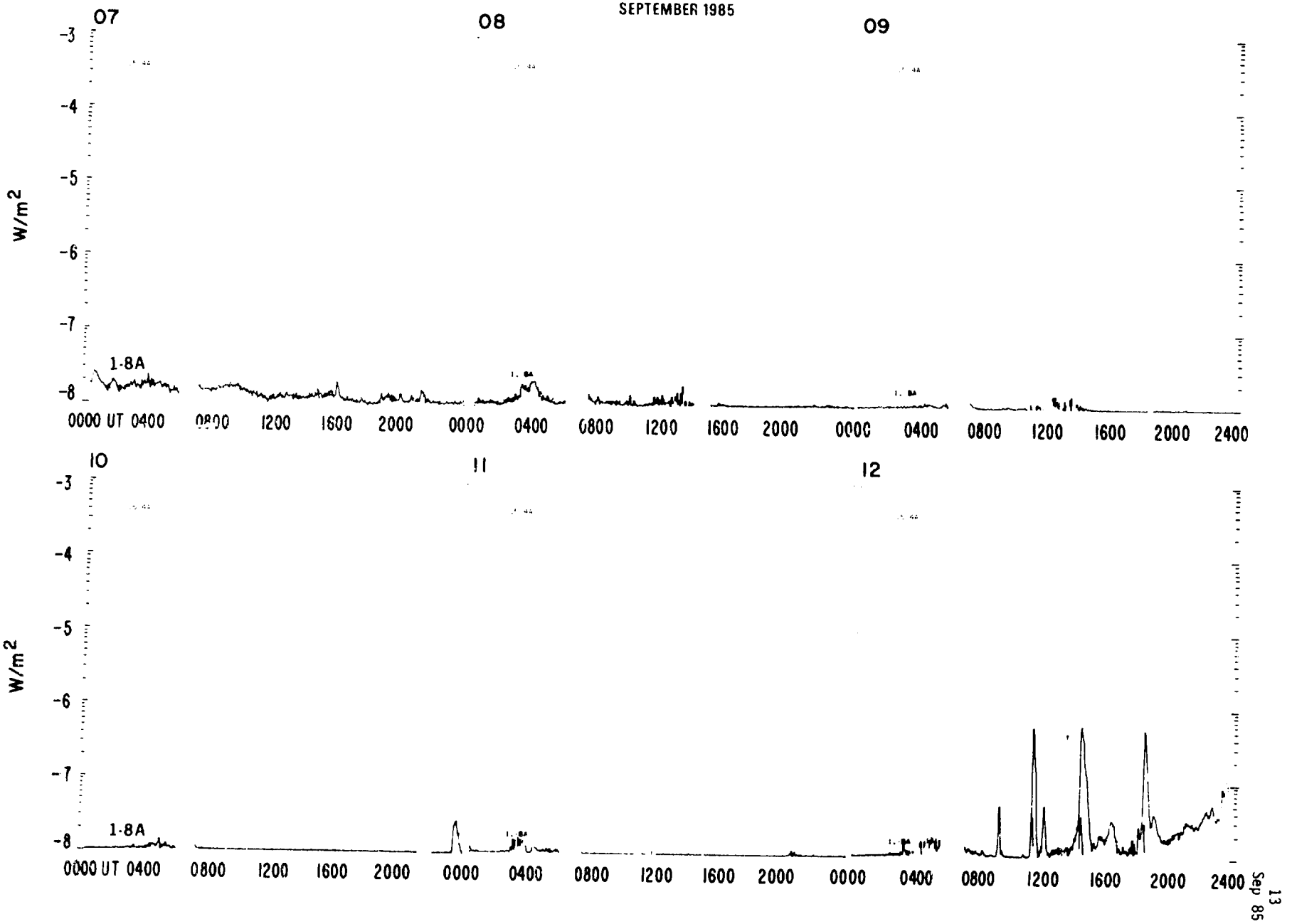
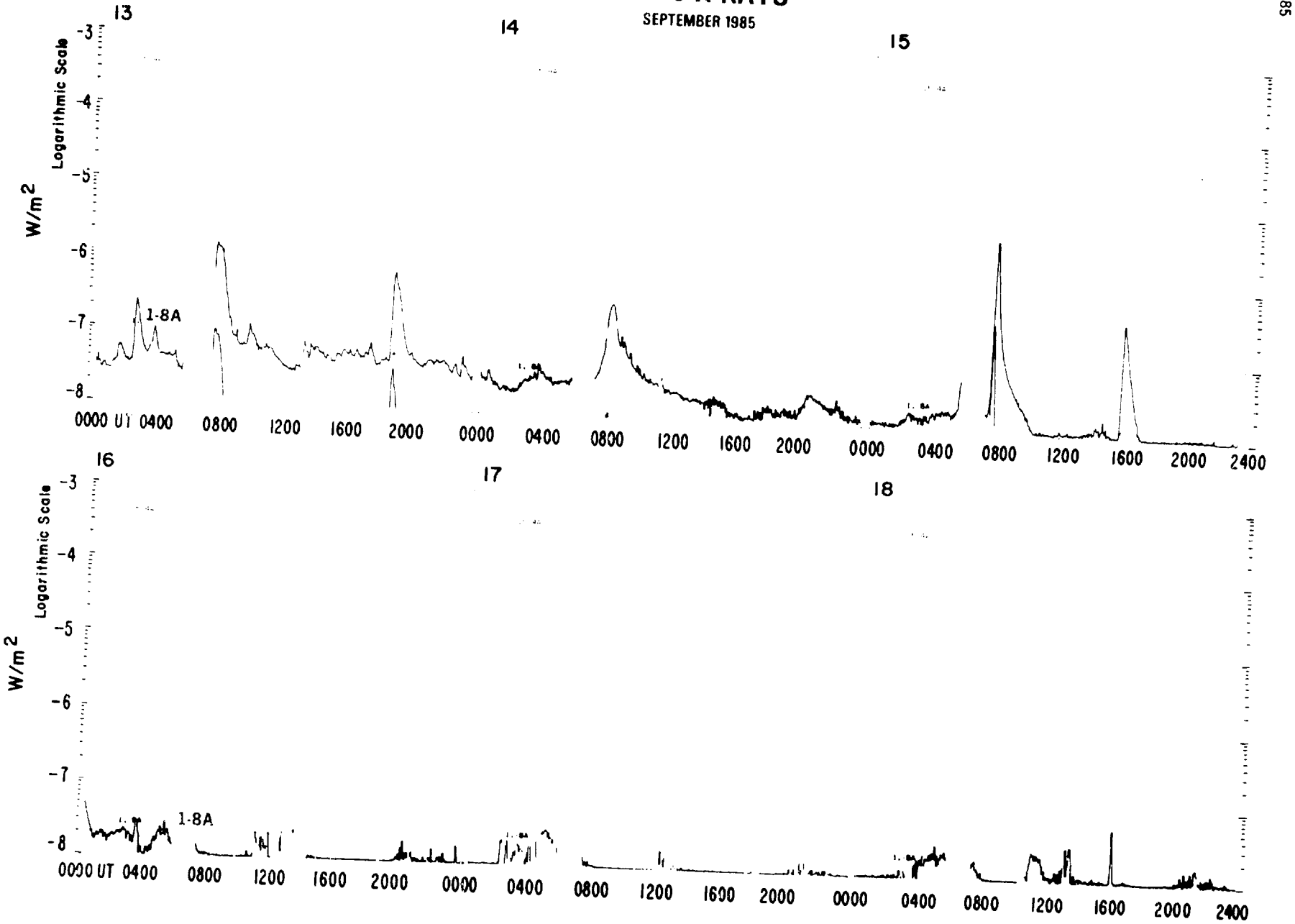
GOES 6 X-RAYS

SEPTEMBER 1985



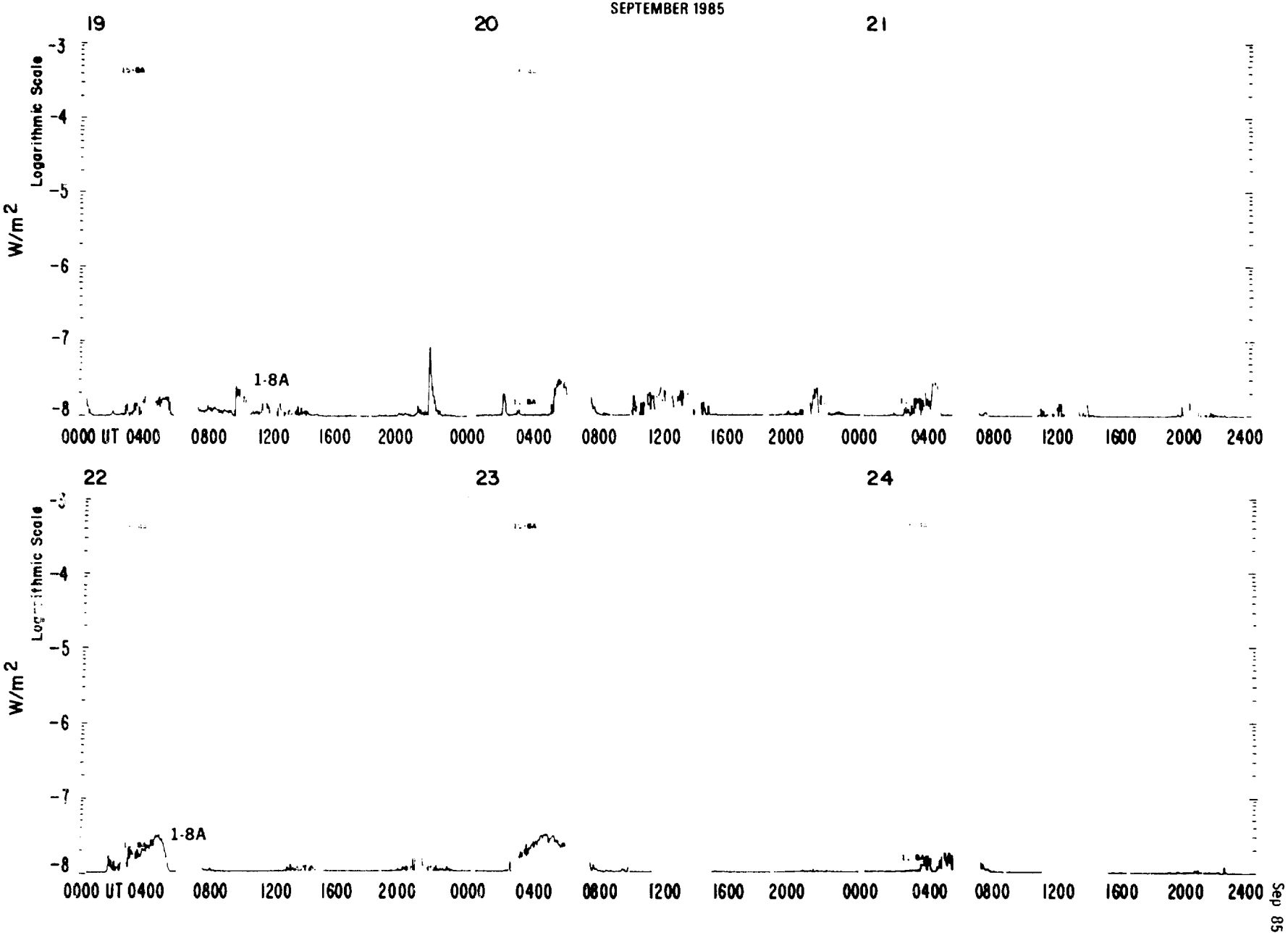
GOES 6 X-RAYS

SEPTEMBER 1985



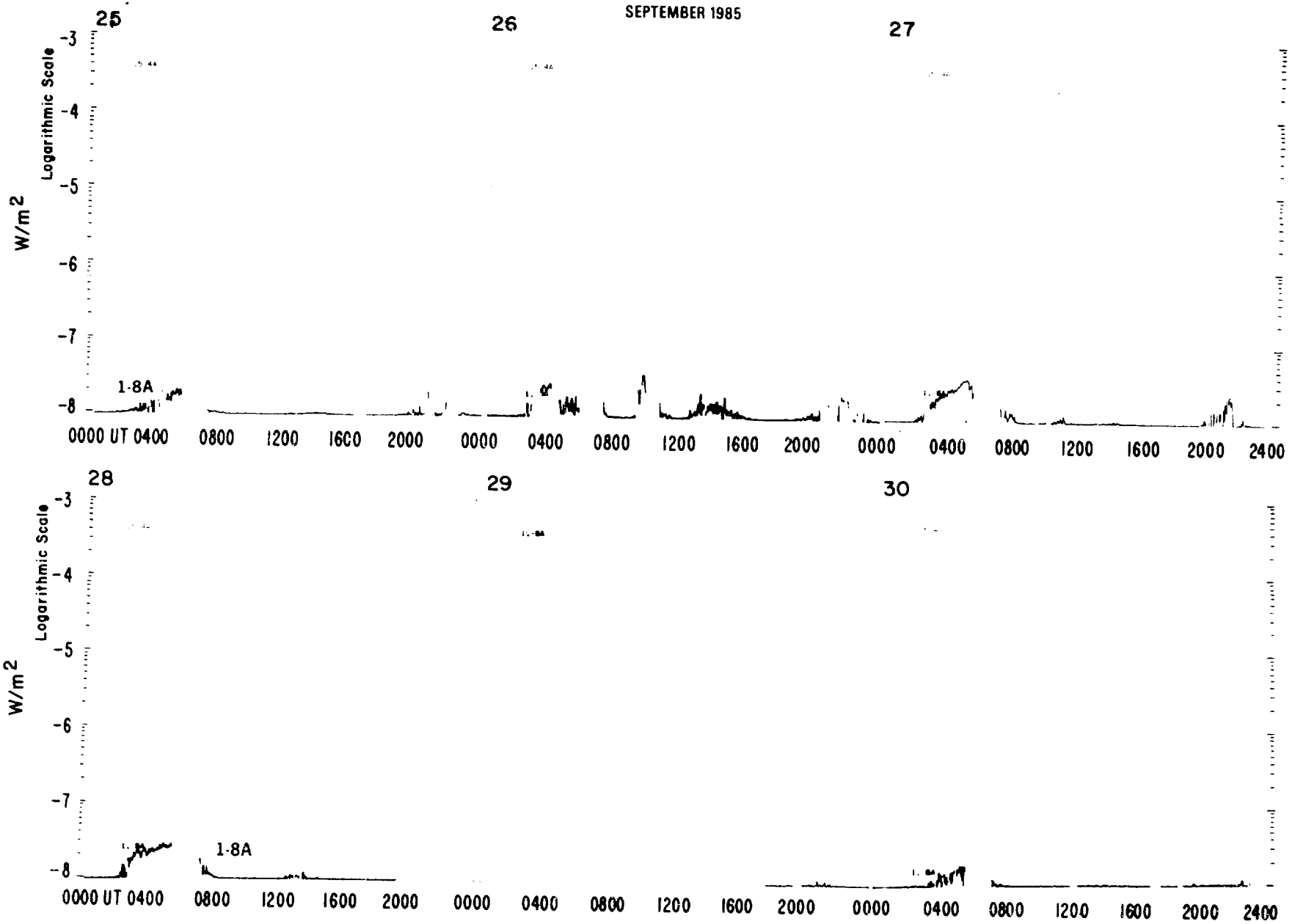
GOES 6 X-RAYS

SEPTEMBER 1985



GOES 6 X-RAYS

SEPTEMBER 1985



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GOES S O L A R X-RAY F L A R E S

Preliminary Listing

SEPTEMBER 1985

Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	Imp	Opt	Xray
12	1118E		1129	S09	E90			SF	B6.1
12	1414	1430	1441						B6.2
12	1735	1738	1740						C1.2
12	1821	1833	1839						B5.7
12	2318	2348	2355						B1.2
13	0226	0236	0248						B2.6
13	0735	0736	0745	S14	E81	4694		SF	C1.7
13	0943	0947	0952						B1.3
13	1838	1855	1912						B7.8
14	0742	0803	0819						B3.3
15	0733	0736	0757	S11	E53	4694		1B	C4.3
15	1549	1550	1616	S09	E51	4694		SF	B3.6
15	2318	2339	0005						B1.1

MASS EJECTIONS FROM THE SUN

SEPTEMBER 1985

Sta	Day	Observed UT Start	Max	End	Location RA°	R/R_o	Freq or Wavelength	Kind of Event
KHAR	Sep 02	0959	E 0959	U 1010	D 018	1.00	H-alpha	S
KAHR	Sep 09	0709	E	0713	D 044	1.00	H-alpha	S

QUALIFIERS ON START, MAX AND END TIMES
- D = event ended after tabulated time
- E = event began before the tabulated time
- U = uncertain time

REPORTING STATIONS
- KHAR = Kharkov

TYPE OF EVENT
- A = eruptive active region prominence
- CB = coronal cloud bubble
- D = coronal depletions
- E = coronal enhancement
- EL = coronal expanding loop
- II = Type II radio burst
- IVm = moving Type IV radio burst
- Q = eruptive quiescent prominence
- R = coronal ray or streamer
- S = flare-surge if there is a known flare association
- SP = flare-spray if there is a known flare association
- * = movement may be caused by ionospheric refraction

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1985

Type	Day	Observed UT Start	End	Lat	CMD	Imp	Type	Sta	Remarks
ADF	Sep 01	0500	1110	N02	W38		V	ATHN	
APR	Sep 01	0500	1110	N14	E90		V	ATHN	
APR	Sep 01	0500	1110	N18	E90		V	ATHN	
BSL	Sep 01	0740	0805	N85	W90	1-	C	CATA	
BSL	Sep 01	1045	1045D	N76	W90	1-	C	CATA	
BSL	Sep 01	1045	1045D	S41	W90	1-	C	CATA	
BSL	Sep 02	0720	0730	N83	E90	1-	C	CATA	
BSL	Sep 02	0755	0800	N75	E90	1-	C	CATA	
BSL	Sep 02	1000	1010D	N67	E90	1-	C	CATA	
AFS	Sep 03	0635	1330	N32	W16		V	ATHN	
BSL	Sep 03	0800	0810	S87	W90	1-	C	CATA	
BSL	Sep 03	1010E	1015D	S82	E90	1-	C	CATA	
SDF	Sep 03	1145E	0635D	N31	E35	1	C	CATA	
BSL	Sep 04	0755	0805	S39	W90	1-	C	CATA	
BSL	Sep 04	0920	0925	N08	W90	1-	C	CATA	
BSL	Sep 04	0925	0930	N53	E90	1-	C	CATA	
BSL	Sep 04	1015E	1020D	N43	E90	1-	C	CATA	
BSL	Sep 04	1015E	1020D	N68	E90	1-	C	CATA	
BSL	Sep 04	1015E	1020D	S75	E90	1-	C	CATA	
BSL	Sep 04	1015E	1020D	S18	E90	1-	C	CATA	
BSL	Sep 04	1020	1020D	S33	W90	1-	C	CATA	
BSL	Sep 04	1125	1130	N78	E90	1-	C	CATA	
BSL	Sep 05	0835E	0910	S16	E90	1	C	CATA	
BSL	Sep 05	1105	1115	S12	W90	1-	C	CATA	
BSL	Sep 05	1140	1145D	S71	W90	1-	C	CATA	
APR	Sep 06	0544	1330	N15	W90		V	ATHN	
EPL	Sep 06	0645E	0800	N15	W90	1	C	CATA	
APR	Sep 06	0711	1330	S15	E90		V	ATHN	
BSL	Sep 06	0815	0825	S62	E90	1-	C	CATA	
BSL	Sep 06	1040	1050D	N03	E90	1-	C	CATA	
SDF	Sep 06	1145E	0630D	S01	E07	1	C	CATA	
SDF	Sep 06	1145E	0630D	S20	E07	1	C	CATA	
ADF	Sep 06	2256	0126	S03	W05	2	C	CULG	Portion disappears.
APR	Sep 07	0730	1330	N08	W90		V	ATHN	
ASR	Sep 07	0801	1330	N42	W90		V	ATHN	
BSL	Sep 07	0840	0845	N11	W90	1-	C	CATA	
BSL	Sep 07	0845	0915	N04	W90	1-	C	CATA	
BSL	Sep 07	1125	1140	S62	W90	1-	C	CATA	
ADF	Sep 07	2058E	0706D	N21	E02	1	C	CULG	Segment of 35 degrees faint filament.
BSL	Sep 08	1035E	1035D	N07	W90	1-	C	CATA	
ADF	Sep 09	0600	1300	N21	W17		V	ATHN	
APR	Sep 09	0745	1300	S13	W90		V	ATHN	
BSL	Sep 09	0915E	0915D	N43	W90	1-	C	CATA	
ADF	Sep 10	0730	1300	S23	E26		V	ATHN	
BSL	Sep 11	1010E	1030	S64	E90	1-	C	CATA	
ADF	Sep 11	1153	1243	S22	E13		V	ATHN	
APR	Sep 11	1205	1243	S29	E90		V	ATHN	
ASR	Sep 12	0630	0736	S12	E90		V	ATHN	
BSL	Sep 12	0705	0715	S64	W90	1-	C	CATA	
BSL	Sep 12	0930E	0930D	N81	W90	1-	C	CATA	
BSL	Sep 12	0945E	0950	N81	W90	1	C	CATA	
BSL	Sep 12	0950	1005	S11	E90	1-	C	CATA	
BSL	Sep 12	1015	1020	S11	E90	1-	C	CATA	
BSL	Sep 12	1125	1145D	S13	E90	1	C	CATA	

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1985

Type	Day	Observed UT Start	End	Lat CMD	Imp	Type	Sta	Remarks
ASR	Sep 13	0615	0628	S15 E90		V	ATHN	
BSL	Sep 13	0730E	0755	S12 E90	1-	C	CATA	
ASR	Sep 13	0740	1330	S15 E90		V	ATHN	
BSL	Sep 13	0830	0835	S67 E90	1-	C	CATA	
BSL	Sep 13	0950	1015	N89 W90	1-	C	CATA	
BSL	Sep 13	1010	1020	N65 W90	1-	C	CATA	
BSL	Sep 13	1015	1030	S77 E90	1-	C	CATA	
BSL	Sep 14	0655	0700	N70 W90	1-	C	CATA	
APR	Sep 14	0740	1345	N25 W90		V	ATHN	
APR	Sep 14	0740	1345	S43 W90		V	ATHN	
BSL	Sep 14	0835	0845	S34 E90	1-	C	CATA	
BSL	Sep 14	0930	0930D	N54 W90	1-	C	CATA	
BSL	Sep 14	1015	1025	S35 E90	1-	C	CATA	
BSL	Sep 14	1020	1025	S64 E90	1-	C	CATA	
BSL	Sep 14	1100	1105D	N85 E90	1-	C	CATA	
APR	Sep 15	0500	1340	N22 W90		V	ATHN	
APR	Sep 15	0500	1430	N27 W90		V	ATHN	
APR	Sep 15	0715	1430	N20 E90		V	ATHN	
DSD	Sep 15	0740	0820	S11 E54		V	ATHN	
BSL	Sep 15	0925	0935	N20 E90	1-	C	CATA	
ASR	Sep 15	1310	1318	S06 E90		V	ATHN	
EPL	Sep 15	1340	1430	N22 W90		V	ATHN	
ADF	Sep 15	2200E	0019	S29 W50	2	C	CULG	
ADF	Sep 16	0610	1400	S10 E40		V	ATHN	
ADF	Sep 16	2200E	0019	S29 W50	2	C	CULG	
APR	Sep 18	0740	1400	N04 E90		V	ATHN	
DSD	Sep 18	0740	1400	S11 E02		V	ATHN	
APR	Sep 18	0740	1400	N19 W90		V	ATHN	
APR	Sep 18	1000	1400	S25 E90		V	ATHN	
DSD	Sep 19	0545	1345	S11 W08		V	ATHN	
APR	Sep 19	0600	1345	N30 E90		V	ATHN	
APR	Sep 19	0600	1345	S21 W90		V	ATHN	
APR	Sep 19	0600	1345	S04 E90		V	ATHN	
BSL	Sep 20	1015	1030	S11 E90	1-	C	CATA	
APR	Sep 21	0720	1330	S28 E90		V	ATHN	
BSL	Sep 21	1100E	1100D	N31 E90	1-	C	CATA	
BSL	Sep 22	0815	0820	N72 W90	1-	C	CATA	
BSL	Sep 22	0815	0820D	S03 E90	1-	C	CATA	
BSL	Sep 22	0820	0820D	N87 W90	1-	C	CATA	
ADF	Sep 23	0715	1300	N10 E25		V	ATHN	
BSL	Sep 23	0815E	0320	S02 W90	1-	C	CATA	
BSL	Sep 23	0955	1005D	83N W90	1-	C	CATA	
ADF	Sep 24	0151E	2400D*	S23 E48	1	C	CULG	32 degrees maximum extent.
APR	Sep 24	0722	1330	S29 W90		V	ATHN	
BSL	Sep 25	0710	0715	S55 E90	1-	C	CATA	
BSL	Sep 25	0900	0905	N59 E90	1-	C	CATA	
BSL	Sep 25	1015	1020	N77 E90	1-	C	CATA	
BSL	Sep 25	1015	1020	N79 E90	1-	C	CATA	
BSL	Sep 26	0735	0740	N66 W90	1-	C	CATA	
DSD	Sep 26	1005E	1120	N01 W24	1-	C	CATA	
BSL	Sep 26	1015	1025	N12 W90	1-	C	CATA	
BSL	Sep 26	1025	1030	N77 W90	1-	C	CATA	
BSL	Sep 26	1105	1110	N87 W90	1-	C	CATA	
BSL	Sep 26	1105	1110	N50 W90	1-	C	CATA	
BSL	Sep 26	1115	1120	N60 E90	1-	C	CATA	

*End time refers to September 30.

ACTIVE PROMINENCES AND FILAMENTS

SEPTEMBER 1985

Type	Day	Observed UT Start	End	Lat CMD	Int	Type	Sta	Remarks
BSL	Sep 27	0840	0845D	S51 E90	1-	C	CATA	
BSL	Sep 27	0855E	0910	S52 E90	1-	C	CATA	
BSL	Sep 28	0715	0725D	N73 W90	1	C	CATA	
BSL	Sep 28	0720	0725D	N54 W90	1-	C	CATA	
BSL	Sep 28	0955E	1000D	S41 E90	1-	C	CATA	
BSL	Sep 28	0955E	1000D	S53 E90	1-	C	CATA	
BSL	Sep 29	0720E	0755	S38 E90	1-	C	CATA	
BSL	Sep 29	0910	0935	S42 E90	1-	C	CATA	
BSL	Sep 29	1005	1020	N23 W90	1-	C	CATA	
BSL	Sep 29	1020	1035	S65 E90	1-	C	CATA	
SDF	Sep 29	1235E	0700D	S19 E11	1	C	CATA	
ADF	Sep 29	2022E	2400D*	N09 E50	1	C	CULG	55 degrees faint filament.
APR	Sep 30	0645	1430	N03 W90		V	ATHN	
APR	Sep 30	0645	1430	S30 W90		V	ATHN	
ADF	Sep 30	0645	1430	N34 W30		V	ATHN	
ADF	Sep 30	0645	1430	N19 W65		V	ATHN	
BSL	Sep 30	0905E	0915	S50 W90	1-	C	CATA	
BSL	Sep 30	1035E	1045	S78 E90	1-	C	CATA	
BSL	Sep 30	1035E	1045	N56 W90	1-	C	CATA	
APR	Sep 30	1350	1430	N38 E90		V	ATHN	

*End time refers to September 30.

BSL = Bright surge at limb.
ADF = Active dark filament.
AFS = Active filament system.
APR = Active prominence region at limb.
ASR = Active surge region.
DSD = Dark surge on disk.
EPL = Eruptive prominence at limb.
SDF = Sudden disappearance of filament.

ATHN = Athens
BJCA = Bucharest
CATA = Catania
CULG = Culgoora
KODA = Kodaikanal
MANI = Manila
WEND = Wendelstein

For more detail and information about Remarks, see SGD Supplement.

C O N T E N T S

Comprehensive Reports MISCELLANEOUS DATA Number 499 Part II

CARTE SYNOPTIQUE

ACTIVE REGIONS
CARRINGTON ROTATION 1764

(7 JULY to 3 AUGUST 1985)

Region No.	Coordinates Lat.	Long.	Imp	Age at CMP (Days)	Spotless Region	Region No. in Rotation 1763	Activity at West Limb
1	2°N	332	3	0			decreasing
2	5°S	332	1	>6	x		dispersed
3	3°S	316	1	>6	x		dispersed
4	42°N	284	1	+4	x		disappeared
5	5°N	205	1	+6	x		disappeared
6	14°S	161	2	>6			decreasing
7	7°S	135	1	-5	x		stable
8	7°S	135	1	>6	x		dispersed
9	3°N	119	1	0	x		disappeared
10	15°S	100	1	>6	x		dispersed
11	7°N	61	1	0	x		disappeared
12	8°S	34	1	>6	x		decreasing
13	15°S	25	1	>6	x		dispersed
14	7°N	15	2	+4			decreasing
15	7°N	15	4	>6			decreasing
16	9°S	15	1	>6	x		decreasing
17	10°N	6	1	>6	x		dispersed
18	4°S	1	3	>6			decreasing
[illegible]	20°S	1		>6	x		decreasing

CARRINGTON ROTATION 1765

(3 AUGUST to 30 AUGUST 1985)

Region No.	Coordinates Lat.	Long.	Imp	Age at CMP (Days)	Spotless Region	Region No. in Rotation 1764	Activity at West Limb
1	0	231	2	+4			disappeared
2	10°N	221	1	>6	x		dispersed
3	19°S	186	2	-1			stable
4	12°S	177	1	-1	x		dispersed
5	9°S	42	1	>6	x		dispersed
6	7°N	23	1	>6	x		decreasing
7	18°S	4	1	>6	x		stable

CARRINGTON ROTATION 1766

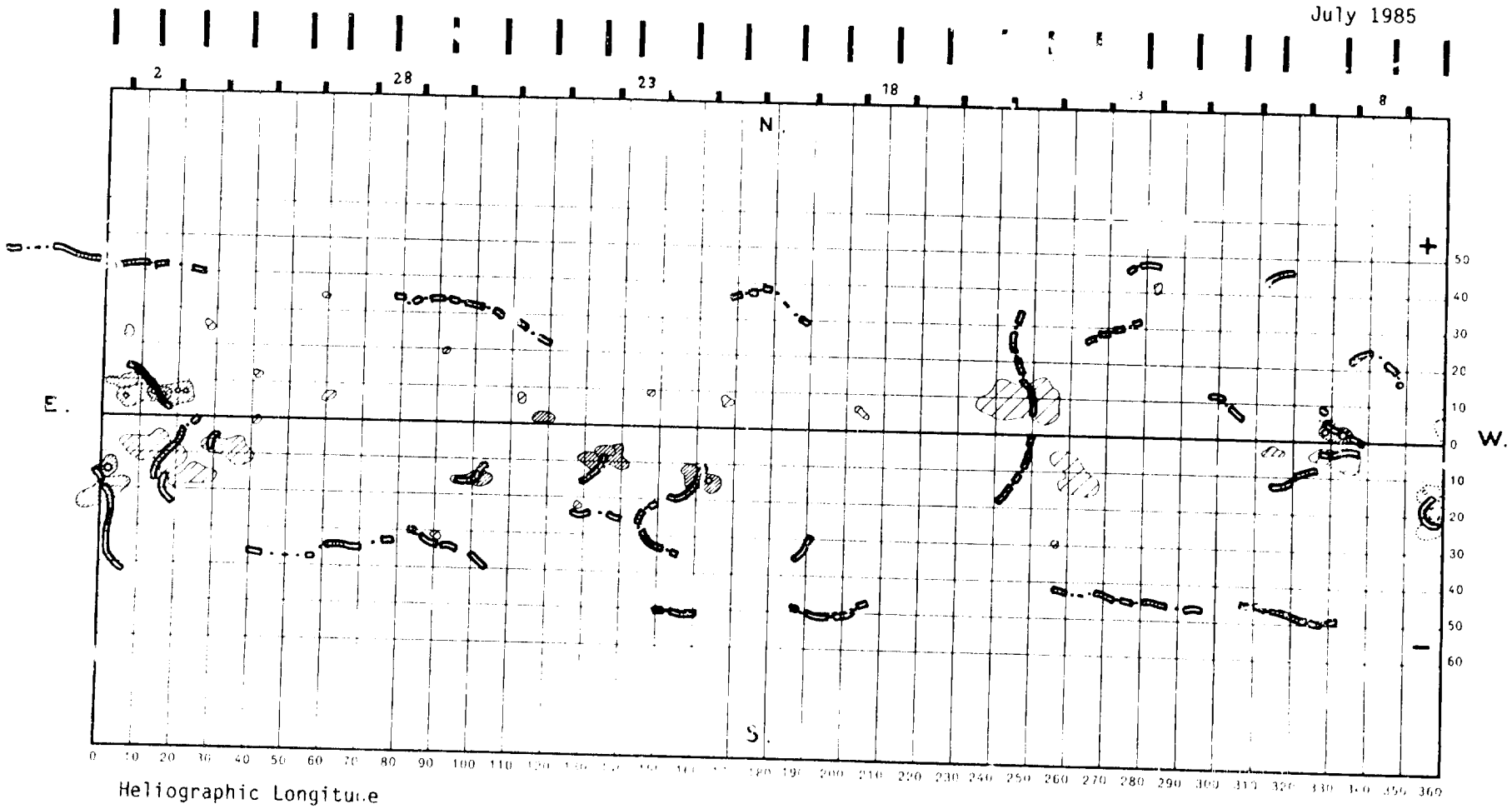
(30 AUGUST to 26 SEPTEMBER 1985)

Region No.	Coordinates Lat.	Long.	Imp	Age at CMP (Days)	Spotless Region	Region No. in Rotation 1765	Activity at West Limb
1	25°S	353	1	>6	x		dispersed
2	5°N	350	1	+4	x		disappeared
3	1°N	288	1	+5	x		decreasing
4	18°S	181	1	>6	x		decreasing
5	10°S	107	2	>6			decreasing
6	10°S	97	1	>6	x		dispersed
7	20°S	3	1	>6	x		dispersed

CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1764
(July 7 to August 3, 1985)

Meudon Observatory



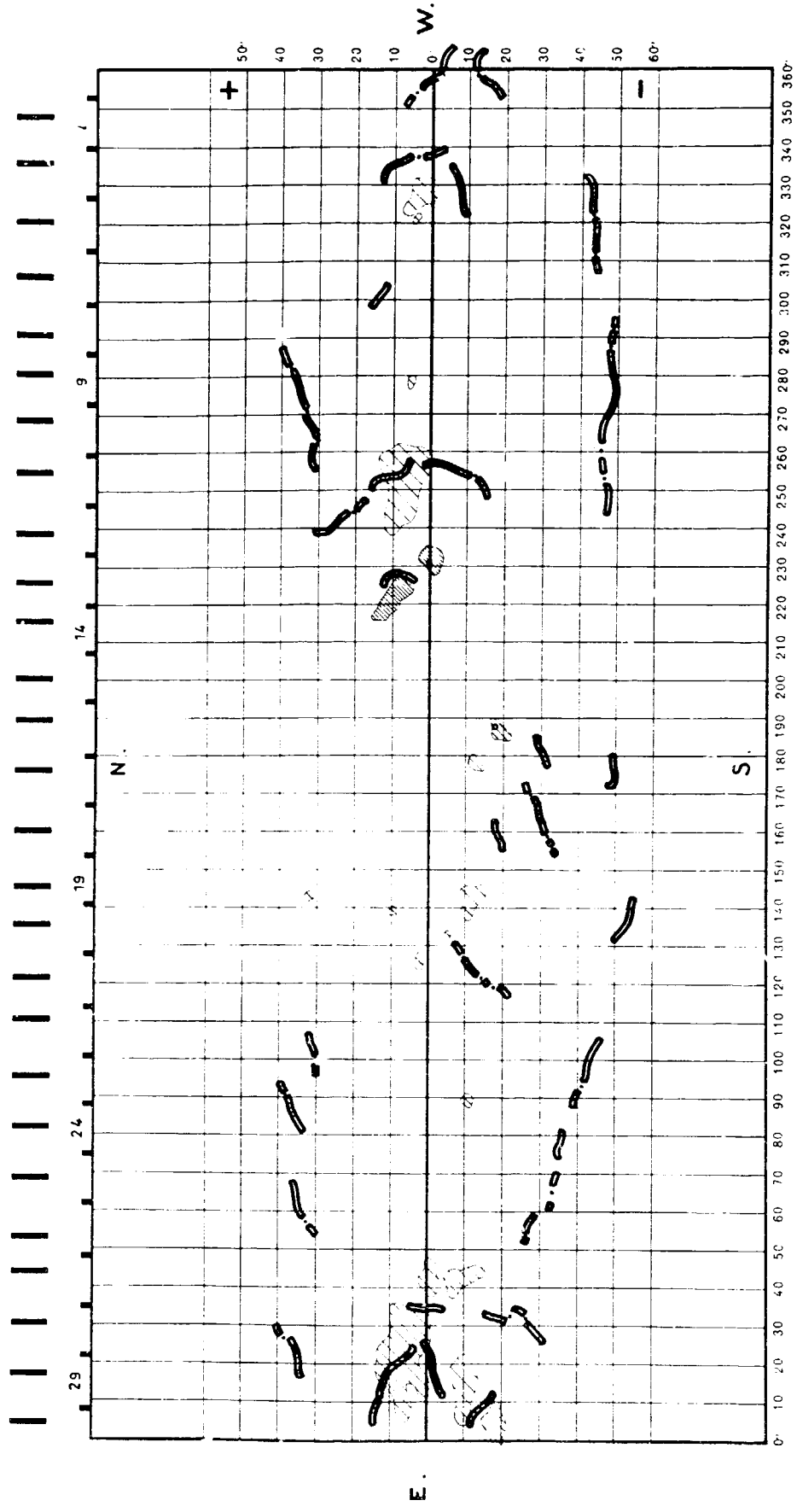
23
Misc
Jul 85

CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1765
(August 3 to August 30, 1985)

August 1985

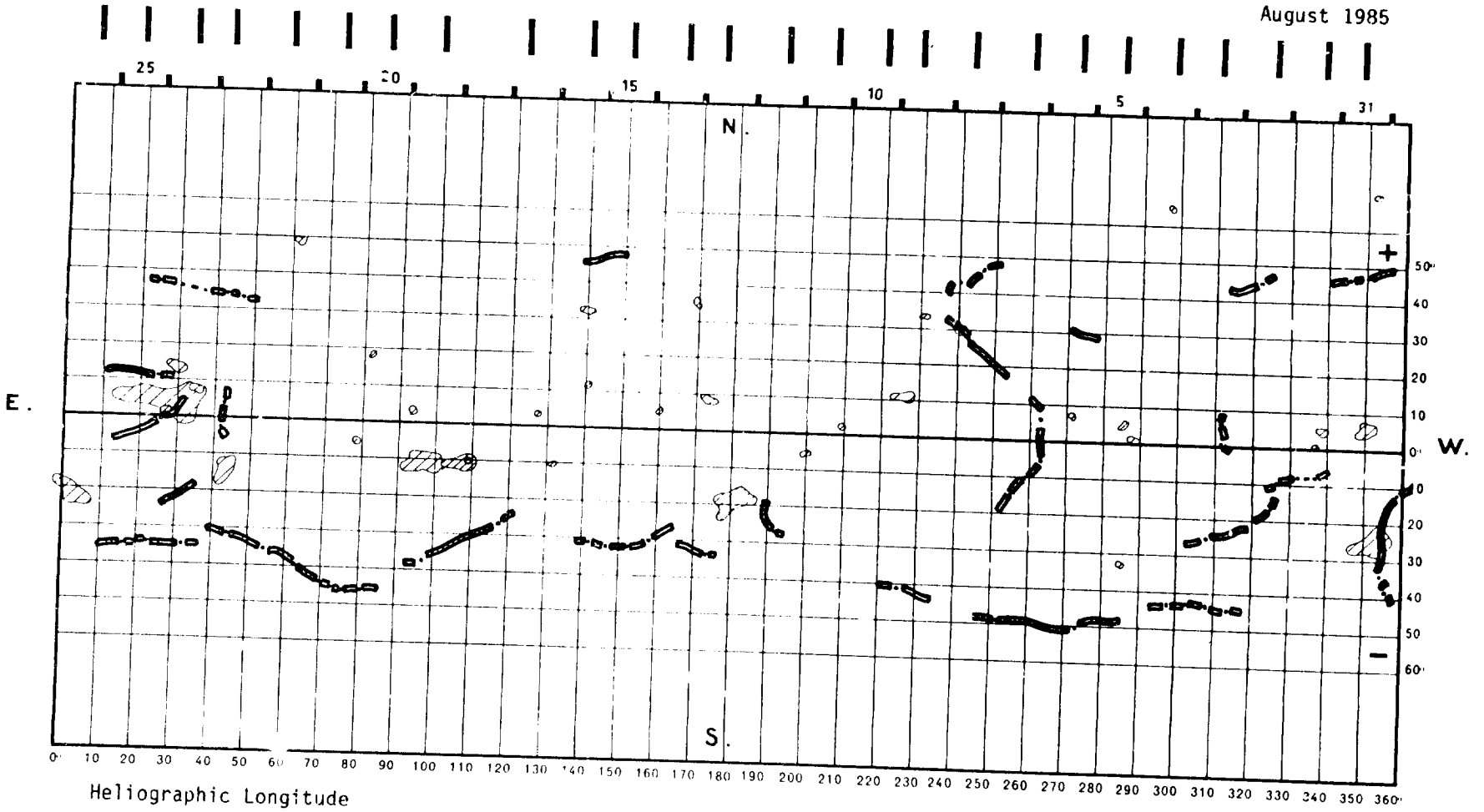
Meudon Observatory



CARTE SYNOPTIQUE

CARRINGTON ROTATION NUMBER 1766
(August 30 to September 26, 1985)

Meudon Observatory



25
Misc
Sep 85

1978 SOLAR IRRADIANCE (Daily Mean)*
NIMBUS 7 CHANNEL 10C
The Eppley Laboratory, Inc.

Units: Watts/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01												---
02												1371.4
03												1371.2
04												1371.5
05												---
06												1371.8
07												1371.4
08												1371.6
09												---
10												1369.8
11												1369.7
12												1369.9
13												---
14												1370.2
15												1371.0
16											1370.7	1371.6
17											1371.5	1371.6
18											1371.4	1371.2
19											---	1370.9
20											1371.2	1371.3
21											1371.1	---
22											1371.1	1371.0
23											1371.3	1371.5
24											1371.1	1371.9
25											1371.4	---
26											1371.7	1371.9
27											---	1371.6
28											1371.3	1372.0
29											1371.3	---
30											1371.6	1370.9
31												1370.7

*Daily averages are cosine-corrected for any off-axis positioning of the sun in the telescope aperture. All values are normalized to 1 astronomical unit.

Irradiance observations published in SOLAR-GEOPHYSICAL DATA, No. 485, Part II, differ from the above measurements by at most a few tenths of a watt per square meter because the earlier data were not cosine-corrected and because some daily means included either values from questionable orbits or fewer observations.

1979 SOLAR IRRADIANCE (Daily Mean)*
NIMBUS 7 CHANNEL 10C
The Eppley Laboratory, Inc.

Units: $Watts/m^2$

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	1370.7	---	1372.3	1371.6	1370.8	1371.4	---	1371.5	1370.4	---	1371.2	1371.4
02	---	1372.0	1372.5	---	---	1371.1	1371.4	---	1369.8	1371.3	---	1371.2
03	1370.6	---	---	1371.4	1371.6	---	1371.0	1372.4	---	1371.1	1370.9	1371.2
04	1371.7	1371.6	1372.2	---	1371.5	1370.6	1371.3	1371.6	1368.9	1371.4	1370.6	---
05	1372.1	---	1372.5	1371.6	1372.0	1370.4	---	1372.0	1368.5	---	1371.0	1371.4
06	---	1371.9	1372.6	---	---	1370.6	1371.6	---	1368.6	1370.6	---	---
07	1371.8	---	---	1372.3	1372.0	---	1371.2	1371.8	1370.7	1370.1	1369.8	1372.1
08	1371.6	1372.1	1371.9	---	1371.8	1370.9	1371.7	1371.5	1370.7	1370.3	1368.9	---
09	1371.7	1372.3	1372.0	1371.9	1371.9	1370.9	1371.8	1371.7	1371.6	---	1369.2	1372.2
10	---	1372.1	1372.4	1371.7	---	1370.4	1371.8	1371.4	1371.6	1370.7	---	1372.2
11	1371.5	---	---	1371.8	1371.4	---	1371.6	1371.0	---	1370.4	1369.6	1371.6
12	1371.6	1371.8	1372.5	---	---	1370.7	1371.8	1370.7	1371.4	1370.6	1369.5	---
13	1371.8	1372.4	1373.0	1371.4	1371.4	1370.5	---	1370.8	1371.0	---	1370.0	1372.0
14	---	1372.4	1372.9	1371.3	1371.4	1370.6	1371.9	---	1371.1	1371.8	---	1371.5
15	1371.3	---	---	1371.5	1371.7	---	1371.4	1370.3	---	1371.5	1370.9	1371.7
16	1371.6	1371.5	1372.3	1371.3	---	1371.1	1371.6	1369.6	1371.7	1371.4	1371.0	---
17	---	1371.0	1372.3	1371.5	1372.1	1370.8	---	1369.6	1371.3	---	1371.3	1371.8
18	---	1370.5	1372.4	1371.6	---	1371.3	1371.4	---	1371.6	1370.7	---	---
19	1371.6	---	---	1371.9	1372.3	---	1371.3	1368.9	---	1370.7	1371.2	1371.2
20	1371.2	1370.4	1371.9	---	1372.1	1371.3	1371.3	1368.7	1371.0	1370.9	1370.9	---
21	1370.9	1371.0	1371.9	1371.8	1372.2	1371.3	---	1368.7	1370.5	---	1371.1	1370.8
22	---	1371.6	1372.1	1371.8	---	1371.6	1371.3	1368.2	1370.9	1371.5	---	1370.5
23	1370.5	---	---	1371.7	1372.2	---	1371.2	1368.7	---	1371.2	1370.9	1370.8
24	---	1371.9	1371.8	---	1372.0	1371.6	1371.6	1369.6	1371.2	1372.0	1370.5	---
25	1371.2	---	1371.9	1371.5	1372.3	1371.5	1371.6	1369.2	1370.9	---	1371.0	1371.5
26	---	1372.0	1372.1	1371.2	---	1371.9	1371.4	---	1371.2	1371.5	---	1371.6
27	1371.3	---	---	1371.2	1371.7	1372.1	1371.4	1369.1	---	1370.9	1371.5	1371.3
28	---	1371.9	1372.1	1371.1	1371.6	1371.8	1371.7	1369.2	1370.3	1371.2	1371.4	---
29	1372.3		1372.2	1371.2	1372.0	1371.7	---	1371.4	1369.6	---	1371.4	1371.3
30	---		1372.2	---	1371.9	1371.9	1371.4	---	1370.6	1371.2	---	1371.1
31	1372.8		---		---		1371.4	1371.1		1370.7		1371.6

*Daily averages are cosine-corrected for any off-axis positioning of the sun in the telescope aperture. All values are normalized to 1 astronomical unit.

Irradiance observations published in SOLAR-GEOPHYSICAL DATA, No. 485, Part II, differ from the above measurements by at most a few tenths of a watt per square meter because the earlier data were not cosine-corrected and because some daily means included either values from questionable orbits or fewer observations.

1980 SOLAR IRRADIANCE (Daily Mean)*
NIMBUS 7 CHANNEL 10C
The Eppley Laboratory, Inc.

Units: Watts/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	---	1371.1	---	1371.4	1370.9	---	1371.4	1371.3	---	1371.4	1370.6	1370.7
02	1372.1	---	1371.7	---	1370.4	1371.0	1371.6	1371.3	1369.6	1371.5	1370.2	---
03	1371.7	1370.3	1371.6	1371.5	1370.5	1370.8	---	1371.6	1369.4	1372.2	1369.9	1371.3
04	1372.0	1370.3	1371.8	---	---	1371.0	1370.7	---	1369.7	1371.4	---	1371.0
05	---	1370.7	---	1370.4	1371.0	---	1370.7	1371.2	---	1371.2	1369.4	1371.4
06	1372.2	---	1371.6	---	1371.0	1371.1	1370.8	1371.0	1370.5	1371.6	1369.1	---
07	1371.8	1370.7	1371.6	1369.3	1371.3	1371.0	1370.8	1370.9	1370.7	---	1369.1	1372.1
08	1371.9	1370.5	1371.4	1368.7	---	1371.5	1370.8	---	1371.7	1371.4	---	1372.0
09	---	1370.8	---	1369.2	1371.6	1371.9	1370.6	1371.0	---	1370.7	1369.1	1372.1
10	1371.8	---	1371.6	---	1371.4	1371.4	1370.7	1370.9	1371.8	1370.4	1369.0	---
11	1371.4	1371.0	1371.5	1369.5	1371.2	1371.3	---	1371.0	1371.6	---	1369.2	1371.8
12	1371.9	1371.0	1371.6	1369.6	---	1371.7	1370.6	---	1371.4	1369.9	---	1370.8
13	---	1371.3	1371.7	1370.1	1371.1	---	1370.2	1371.1	---	1369.8	1369.8	1370.7
14	1372.6	---	1371.5	---	1370.9	1371.6	1370.3	1371.3	1371.0	1370.8	1370.1	---
15	1371.4	1371.3	1371.4	1370.8	1371.5	1371.4	---	1371.9	1371.0	---	1370.6	1370.3
16	1371.5	1370.9	1371.7	1370.9	---	1371.3	1370.7	---	1371.4	1371.9	---	1370.1
17	---	1371.2	---	1371.5	1371.4	---	1370.4	1371.4	---	1371.6	1371.1	1370.6
18	1371.4	---	1371.7	---	1371.4	1371.7	1370.5	1371.3	1371.6	1371.5	1370.7	---
19	1371.4	1371.7	1371.5	1371.7	1371.5	1371.6	---	1371.4	1371.2	---	1370.7	1371.1
20	1371.5	1371.5	1371.6	1371.4	---	1371.9	1370.4	---	1371.1	1370.7	---	1371.2
21	---	1371.4	---	1371.3	1371.1	---	1370.6	1371.2	---	1370.2	1370.8	1371.9
22	1371.5	---	1371.5	---	1370.6	1371.2	1370.7	1371.0	1370.9	1370.2	1370.9	---
23	1371.0	1370.9	1371.4	1370.8	1370.3	---	---	1371.0	1370.7	---	1371.1	1371.9
24	1371.1	1370.8	1371.7	1370.6	---	---	1371.3	---	1371.0	1370.9	---	1371.5
25	---	1371.1	---	1370.9	1369.8	---	1371.4	1371.2	---	1371.1	1371.5	1371.8
26	1371.6	---	1371.9	---	1369.5	1371.4	1371.4	1370.8	1371.4	1371.5	1371.2	---
27	1371.6	1371.6	1371.6	1371.3	1370.0	1371.5	---	1370.8	1371.2	---	1371.5	1371.9
28	1371.9	1371.7	1371.6	1371.1	1370.0	1371.7	1371.0	---	1371.3	1371.2	---	1371.5
29	---	1371.7	---	1371.4	1370.6	---	1370.8	1370.4	---	---	1371.0	1371.7
30	1371.8		1371.2	---	1370.6	1371.2	1370.7	1369.7	1371.6	---	1370.5	---
31	1371.5		1371.0		---		---	1369.4		---		1372.6

*Daily averages are cosine-corrected for any off-axis positioning of the sun in the telescope aperture. All values are normalized to 1 astronomical unit.

Irradiance observations published in SOLAR-GEOPHYSICAL DATA, No. 485, Part II, differ from the above measurements by at most a few tenths of a watt per square meter because the earlier data were not cosine-corrected and because some daily means included either values from questionable orbits or fewer observations.

1981 SOLAR IRRADIANCE (Daily Mean)*
NIMBUS 7 CHANNEL 10C
The Eppley Laboratory, Inc.

Units: Watts/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	1372.9	1371.0	1369.9	---	1371.2	1370.9	1370.3	1370.7	1371.2	1371.5	1370.5	---
02	1373.4	1370.4	1370.0	1371.8	1371.3	1371.0	1370.5	1370.9	1371.1	---	1370.2	1371.3
03	---	1370.4	1370.4	1371.4	---	1371.1	1370.6	---	1371.2	1371.6	---	1371.4
04	1372.5	---	---	1371.4	1371.0	1371.5	1370.8	1370.7	---	1371.1	1370.1	1371.8
05	1371.2	1371.1	1371.1	1371.7	1370.9	1371.4	1370.6	1370.5	1370.8	1371.0	1370.3	---
06	1371.2	1370.9	1370.5	1370.9	1370.6	1371.1	---	1370.5	1370.2	---	1370.8	1371.2
07	---	1370.9	1370.8	1370.5	---	1371.4	1370.6	---	1370.2	1371.1	---	1370.2
08	1371.0	---	---	1370.6	1370.8	---	1370.7	1369.7	---	1371.1	1371.1	1369.7
09	1371.1	1370.8	1370.6	---	1371.1	1371.5	1370.9	1369.6	1371.0	1371.3	1370.9	---
10	1371.3	1370.4	1370.5	1370.5	1370.9	1371.4	---	1369.9	1370.7	---	1370.8	1369.8
11	1371.9	1370.7	1371.0	1370.2	---	1371.4	1370.5	1370.3	1370.5	1370.3	---	1370.2
12	1371.8	---	---	1370.5	1370.7	---	1370.4	1370.7	---	1369.7	1370.4	1370.1
13	1371.2	1371.3	1371.1	---	1370.4	1370.7	1370.4	1370.9	1370.9	1369.2	1370.3	---
14	1371.6	1370.6	1371.1	1370.1	1370.6	1370.7	---	1371.9	1370.7	---	1370.7	1370.8
15	---	1370.6	1371.4	1370.1	---	1370.6	1370.3	---	1371.1	1369.2	---	1370.8
16	1371.6	---	---	1370.1	1370.2	1370.6	1370.4	1371.0	---	1368.7	1371.2	1370.8
17	1371.3	1370.4	1371.6	---	1370.3	1370.7	1370.4	1370.7	1371.4	1368.7	1370.9	---
18	1371.6	1370.1	1371.3	1370.2	1370.4	1370.9	---	1370.6	1371.0	---	1371.0	1370.9
19	---	1370.6	1371.4	1370.4	---	1371.3	1370.5	---	1371.2	1369.6	---	1370.6
20	1372.0	---	---	1370.8	1371.0	---	1369.9	1370.8	---	1369.6	1370.9	1370.9
21	1371.6	1370.9	1370.6	1370.8	1371.6	1371.2	1369.3	1370.8	1371.3	1370.3	1370.6	---
22	1371.7	1370.2	1370.4	1370.7	1371.7	1371.0	---	1371.1	1371.8	1370.6	1370.9	1371.2
23	---	1370.3	1370.8	1370.4	---	1371.0	1368.3	---	1371.9	1371.3	---	1370.9
24	1371.6	---	---	1371.1	1371.2	---	1367.9	1371.7	1372.4	1371.3	1371.1	1371.4
25	1371.4	1370.2	1371.1	---	1371.2	1370.5	1367.8	1371.5	1371.7	1371.2	1371.1	---
26	1371.5	1370.1	1370.8	1371.1	1371.1	1370.6	---	1371.1	1371.4	---	1371.3	1371.0
27	---	1370.0	1371.1	1371.0	---	1370.3	1368.1	1370.7	1371.4	1371.4	---	1370.5
28	1371.6	---	---	1371.0	1371.0	---	1368.4	1370.9	---	1371.6	1370.3	1370.9
29	1371.5		1371.3	---	1370.9	1370.4	1369.0	1370.7	1371.5	1371.8	1370.1	---
30	---		1371.1	1371.1	1371.2	1370.3	1369.6	1370.9	1371.3	---	1370.4	1371.6
31	---		1371.6		---		1369.8	---		1371.0		---

*Daily averages are cosine-corrected for any off-axis positioning of the sun in the telescope aperture. All values are normalized to 1 astronomical unit.

Irradiance observations published in SOLAR-GEOPHYSICAL DATA, No. 485, Part II, differ from the above measurements by at most a few tenths of a watt per square meter because the earlier data were not cosine-corrected and because some daily means included either values from questionable orbits or fewer observations.

1982 SOLAR IRRADIANCE (Daily Mean)*
NIMBUS 7 CHANNEL 10C
The Eppley Laboratory, Inc.

Units: Watts/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	1371.9	1368.6	1369.8	1371.2	1371.1	1371.2	1371.3	1370.5	1371.1	---	1371.8	1370.9
02	---	1369.3	1369.9	1371.3	---	1371.2	1370.9	---	1371.3	1370.9	---	1370.6
03	1371.6	---	---	1371.6	1371.2	1371.6	1370.8	1370.3	---	1371.1	1371.6	1370.3
04	1371.1	1370.7	1370.3	---	1370.9	1370.8	1371.0	1370.9	1371.4	1371.7	1371.2	---
05	1371.5	1370.6	1370.4	1371.1	1371.1	1370.5	---	1370.9	1371.1	---	1371.3	1369.8
06	---	1370.7	1370.7	1371.0	1371.1	1370.2	1370.9	---	1371.5	1371.6	---	1369.9
07	1371.6	---	---	1371.3	1370.7	---	1370.9	1370.7	---	1371.1	1371.0	1370.2
08	1371.1	1369.5	1371.3	1371.5	1370.8	1370.0	1371.1	1371.0	1371.4	1371.3	1370.9	---
09	1371.4	1368.9	1371.0	1371.3	1371.0	1369.6	---	1371.0	1371.3	---	1371.2	1370.2
10	---	1368.9	1371.1	1370.9	---	1369.6	1370.5	---	1371.4	1371.0	---	1369.7
11	1371.3	---	---	1370.4	1371.0	---	1369.7	1371.1	---	1370.8	1370.6	1369.8
12	1371.0	1369.6	1371.4	---	1371.1	1369.8	1369.5	---	1370.9	1370.9	1370.1	---
13	1370.7	1369.2	1371.0	1370.5	1371.2	1369.4	---	1371.2	1370.5	---	1369.8	1369.4
14	---	1370.0	1370.6	1370.0	---	1369.4	1368.7	---	1370.6	1370.8	---	1369.4
15	1370.4	---	---	1370.5	1371.0	---	1368.8	1370.8	---	1370.5	1369.7	1370.0
16	1369.9	1370.3	1369.4	---	1370.5	1368.	1369.0	1370.6	1370.9	1370.8	1369.6	---
17	1370.5	1369.7	1368.8	1370.6	1370.0	1368.6	---	1370.5	1370.6	---	1370.1	1371.0
18	---	1369.8	1368.9	1370.2	---	1368.7	1369.9	---	1370.5	1370.9	---	1371.2
19	1370.8	---	---	1370.5	1370.9	---	1370.7	1370.6	---	1370.7	1370.1	1371.7
20	1370.7	1370.1	1369.9	---	1370.4	1368.7	1371.3	1370.6	1370.4	1370.8	1369.8	---
21	1370.8	1370.3	1370.0	1370.4	1370.2	1369.4	---	1370.5	1370.4	---	1369.5	1371.9
22	---	1370.9	1370.6	1370.2	---	1369.7	1371.3	---	1370.7	1370.7	---	1371.5
23	1370.9	---	---	1370.0	1370.4	---	1371.1	1369.8	---	1370.6	1370.2	1371.9
24	1370.7	1371.4	1370.0	---	1370.5	1370.6	1371.0	1369.4	1371.8	1370.7	1370.4	---
25	1371.1	1371.0	1369.8	1369.8	1371.0	1371.0	---	1369.5	1371.6	---	1370.9	1372.0
26	1371.3	1371.2	1369.9	1369.9	---	1371.5	1370.9	---	1371.5	1370.0	---	1371.3
27	1371.3	---	---	1370.7	1370.8	---	---	1369.3	---	1370.0	1371.3	1371.2
28	1370.3	1370.4	1370.0	---	1370.5	1371.5	1370.5	1369.4	1370.6	1370.9	1371.0	---
29	1369.8		1370.1	1371.4	1370.9	1371.2	---	1369.9	1369.9	---	1371.1	---
30	---		1370.2	1371.2	---	1371.2	1370.6	---	1370.6	1371.4	---	1371.4
31	1369.1		---		1371.2		1370.3	1371.2		---		1371.3

*Daily averages are cosine-corrected for any off-axis positioning of the sun in the telescope aperture. All values are normalized to 1 astronomical unit.

Irradiance observations published in SOLAR-GEOPHYSICAL DATA, No. 485, Part II, differ from the above measurements by at most a few tenths of a watt per square meter because the earlier data were not cosine-corrected and because some daily means included either values from questionable orbits or fewer observations.

1983 SOLAR IRRADIANCE (Daily Mean)*
NIMBUS 7 CHANNEL 10C
The Eppley Laboratory, Inc.

Units: Watts/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	---	1370.3	1371.0	1371.1	---	1371.0	1370.1	---	1370.4	1370.1	1370.0	1370.5
02	1371.1	---	---	1371.1	1371.1	---	1370.2	1369.9	---	1370.1	1370.2	1370.5
03	1370.6	1370.8	1370.9	---	1370.8	1370.3	1370.4	1369.7	1370.4	1370.3	1370.1	1370.4
04	1370.9	1370.2	1370.2	1371.1	1371.0	1370.3	---	1369.8	1370.4	1370.5	1370.4	1370.6
05	---	1370.4	1370.5	1370.8	---	1369.9	1370.5	---	1371.0	1370.3	1370.1	1370.4
06	1371.2	---	---	1371.0	1370.7	1369.1	1370.4	1370.2	---	1370.0	1370.2	1370.6
07	1371.0	1370.3	1370.8	---	1370.7	1369.0	1370.3	1370.3	1370.7	1369.9	1370.3	1370.4
08	1371.2	1370.5	1370.6	1370.6	1371.0	1369.3	---	1370.2	1370.4	1369.9	1370.7	1370.6
09	---	1370.9	1371.0	1370.5	---	1369.6	1370.0	---	1370.9	1369.9	1370.5	1370.5
10	1371.4	---	---	1370.5	1370.2	---	1370.2	1369.6	---	1369.7	1370.6	1370.6
11	1371.1	1371.3	1370.7	---	1369.6	1370.0	1370.2	1369.4	1370.8	1370.0	1370.6	1370.6
12	1370.9	1371.0	1370.5	1371.2	1369.6	1370.2	---	1370.4	1370.6	1370.4	1370.7	1370.8
13	---	1371.1	1370.8	1370.7	1369.9	1370.5	1370.5	---	1370.9	1370.7	1370.6	1370.2
14	1371.3	---	---	1371.0	1370.4	---	1370.2	1370.6	1370.7	1370.4	1370.3	1370.6
15	1370.8	1370.6	1370.7	1371.3	1370.6	1371.0	1370.5	1370.7	1370.7	1370.1	1370.3	1370.4
16	1370.8	1370.2	1370.1	1371.0	1371.0	1371.0	---	1370.8	1370.3	1370.1	1370.0	1370.5
17	---	1370.6	1370.4	1370.7	---	1371.0	1370.7	---	1370.5	1370.3	1370.2	1370.2
18	1370.4	---	1371.0	1370.7	1371.1	---	1370.8	1370.9	1370.2	1370.1	1370.2	1370.6
19	1370.2	1370.5	1370.4	---	1371.2	1371.0	1370.8	1370.8	1370.4	1370.3	1370.4	1370.4
20	1370.0	1370.2	1370.1	1371.0	1371.1	1370.9	1371.3	1370.9	1369.9	1370.5	1370.5	1370.7
21	---	1370.7	1370.5	1370.6	---	1371.1	1370.8	---	1370.5	1371.1	1370.4	1370.6
22	1370.6	---	---	1370.9	1371.0	1371.2	1370.5	1370.5	1370.7	1370.9	1370.3	1370.4
23	1370.5	1370.9	1371.4	---	1371.3	1370.1	1370.7	1370.8	1370.7	1371.0	1370.4	1370.1
24	1371.2	1370.6	1371.1	1370.8	1371.4	1370.2	---	1370.9	1370.3	1370.6	1370.8	1370.3
25	---	1370.9	1371.4	1370.7	---	1370.4	1370.6	---	1370.3	1370.5	1370.7	1370.2
26	1370.9	---	---	1370.7	1371.9	---	1370.5	1370.5	1370.5	1370.4	1370.9	1370.5
27	1370.5	1371.1	1371.5	---	1371.8	1370.6	1370.7	1370.3	1370.3	1370.5	1370.6	1370.4
28	1370.8	1370.7	1371.1	1370.6	1371.9	1370.6	---	1370.6	1370.1	1370.4	1370.8	1370.6
29	---		1371.4	1370.4	---	1370.5	1370.4	---	1370.2	1370.3	1370.9	1370.4
30	1370.5		---	1370.7	1371.3	---	1369.9	1370.5	1370.1	1370.2	1371.1	1370.6
31	1369.9		1371.4		1370.9		1370.1	1370.5		1370.4		1369.9

*Daily averages are cosine-corrected for any off-axis positioning of the sun in the telescope aperture. All values are normalized to 1 astronomical unit.

Irradiance observations published in SOLAR-GEOPHYSICAL DATA, No. 485, Part II, differ from the above measurements by at most a few tenths of a watt per square meter because the earlier data were not cosine-corrected and because some daily means included either values from questionable orbits or fewer observations.

1984 SOLAR IRRADIANCE (Daily Mean)*
NIMBUS 7 CHANNEL 10C
The Eppley Laboratory, Inc.

Units: Watts/m^2

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
01	1370.2	1368.9	1370.3	1368.9	1368.3	1370.2	1370.5	1370.8	1369.9	1370.5		
02	1370.1	1370.1	1370.0	1369.1	1369.3	1370.0	---	1371.1	1370.0	---		
03	1370.5	1370.2	1370.3	1369.3	---	1370.3	1370.8	1371.0	1370.1	1370.2		
04	1370.5	1370.7	1370.0	1369.7	1370.2	---	1370.6	1370.9	---	1370.3		
05	1370.7	1370.4	1370.4	1369.6	1369.9	1370.5	1370.9	1370.7	1369.9	1370.7		
06	1370.5	1370.3	1369.9	1370.0	1370.0	1370.4	---	1370.9	1369.6	---		
07	1370.8	1369.5	1370.2	1369.9	---	1370.6	1370.9	---	1371.2	1370.9		
08	1370.7	1369.6	1369.8	1370.1	1369.5	---	1371.0	1370.5	---	1370.6		
09	1370.3	1369.1	1370.0	1369.8	1369.0	1370.9	1371.2	1370.5	1370.8	1370.4		
10	1370.2	1369.2	1369.8	1370.1	1368.9	1370.7	---	1370.7	1370.6	---		
11	1370.4	1369.2	1370.2	1369.8	---	1371.1	1371.2	---	1370.7	---		
12	1370.0	1369.7	1369.8	1370.1	1369.1	---	1370.4	1370.7	1370.5	1370.1		
13	1370.1	1369.7	1370.1	1369.8	1368.9	1371.2	1370.6	1370.7	1370.1	1370.7		
14	1369.8	1370.4	1369.7	1370.0	1369.5	1370.8	---	1370.8	1369.9	---		
15	1370.3	1370.4	1370.2	1369.7	---	1370.8	1370.0	---	1369.9	1370.4		
16	1370.2	1370.7	1370.3	1369.8	1370.6	---	1370.2	1370.6	---	1370.4		
17	1369.9	1370.4	1370.5	---	1370.5	1370.9	1370.3	1370.4	1370.3	1370.2		
18	1369.7	1370.8	1370.4	1369.8	1370.7	1370.6	---	1370.5	1370.3	---		
19	1370.2	1370.2	1370.6	1369.8	---	1370.8	1370.4	---	1370.1	1370.0		
20	1370.1	1370.5	1370.4	1370.2	1370.7	---	1370.1	1370.5	---	1370.1		
21	1370.3	1369.8	1370.6	---	1370.4	1370.5	1370.3	1370.5	1370.4	1370.1		
22	1370.1	1369.8	1370.1	1370.3	1370.5	1370.1	---	1370.5	1370.4	---		
23	1370.4	1369.4	1370.3	1369.6	---	1370.4	1370.0	---	1370.3	1370.8		
24	1369.9	1369.8	1370.0	1369.0	1370.1	---	1369.8	1369.7	---	1370.6		
25	1369.7	1369.6	1370.4	---	1370.1	1370.2	1369.8	1369.7	1370.2	1370.6		
26	1368.2	1370.1	1370.1	1367.7	1370.5	1370.1	---	1369.8	1370.1	---		
27	1367.6	1370.2	1370.3	1367.1	---	1370.1	1370.0	---	1370.1	1370.3		
28	1367.3	1370.3	1369.9	1367.3	1371.1	---	1369.8	1370.4	---	1370.3		
29	1367.3	1370.0	1369.6	---	1370.7	1370.5	1370.1	1370.0	1370.6	1370.3		
30	1367.5		1369.2	1368.0	1370.7	1370.3	---	1370.2	1370.6	1370.2		
31	1368.4		1369.1		---		1371.1	---		1370.1		

*Daily averages are cosine-corrected for any off-axis positioning of the sun in the telescope aperture. All values are normalized to 1 astronomical unit.

Irradiance observations published in SOLAR-GEOPHYSICAL DATA, No. 485, Part II, differ from the above measurements by at most a few tenths of a watt per square meter because the earlier data were not cosine-corrected and because some daily means included either values from questionable orbits or fewer observations.

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