DECEMBER 2005 NUMBER 736 - Part II

Solar-Geophysical Data comprehensive reports

Data for June 2005 and Miscellaneous
Explanation of Data Reports Issued as Number 515 (Supplement) July 1987

NEW DATA:
ACE Solar Wind, Interplanetary Magnetic Field and Particles -- Monthly Plots

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DECEMBER 2005 NUMBER 736 - Part II

Solar-Geophysical Data comprehensive reports

Data for June 2005 and Late Data

International Standard Serial Number: 0038-0911
Library of Congress Catalog Number: 79-640375 //r81

NATIONAL GEOPHYSICAL DATA CENTER
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Boulder, Colorado

Subscription information is on the inside back cover.

SOLAR-GEOPHYSICAL DATA

Number 736
(Issued in Two Parts)

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CONTENTS

PART I (PROMPT REPORTS) Page

PART II (COMPREHENSIVE REPORTS) Page

DETAILED INDEX OF OBSERVATIONS PUBLISHED IN SOLAR-GEOPHYSICAL DATA

CODE	KIND OF OBSERVATION	APR 05	MAY	JUN	JUL	AUG	SEP	OCT	NOV
A.	SOLAR AND INTERPLANETARY								
A.1	Sunspot Drawings	730A 52	731A 44	732A 46	733A 44	734A 41	735A 37	736A 42	
A.2aa	International Sunspot Numbers	729A 23	730A 25	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23
A.2c	American Sunspot Numbers	729A 23	730A 25	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23
A.3a	Mt. Wilson Magnetograms	730A 52	731A 44	732A 46	733A 44	734A 41	735A 37	736A 42	
A.3b	Sunspot Mag Class and Regions	730A 87	731A 81	732A 81	733A 81	734A 78	735A 72	736A 79	
A.3c	Kitt Peak Magnetograms	730A 52	731A 44	732A 46	733A 44	734A 41	735A 37	736A 42	
A.3d	Mean Solar Magnetic Field (Stanford)	729A 31	730A 37	731A 35	732A 37	733A 35	734A 33	735A 31	736A 31
A.3e	Stanford Magnetograms	730A 52	731A 44	732A 46	733A 44	734A 41	735A 37	736A 42	
A.4	H-alpha Filtergrams	730A 52	731A 44	732A 46	733A 44	734A 41	735A 37	736A 42	
A.5d	PhotometricCa IIFaculaeSanFernando	Jan 92-Dec 96-631B 22; 1997-1998 663B 66							
A.6c	Stanford Solar Mag Field SynopticMap	730A 40	731A 38	732A 40	733A 38	734A 38	735A 34	736A 36	
A.6d	Kitt Peak Solar Mag Field SynopticMap	730A 50	731A 43	732A 45	733A 43	734A 40	735A 36	736A 41	
A.6f	Active Prominences and Filaments	734B 18	735B 31	736B 30					
A.6g	Sac Peak Coronal Line Synoptic Maps	730A 44	731A 40	732A 46	733A 40	———	———	736A 38	
A.6h	Photometric White Light SanFernando	Jul-Dec 96 630B 32; 1997-1998 in 663B 51							
A.7h	Coronal Line Emission (Sac Peak)	730A 52	731A 4	732A 46	733A 44	734A 41	735A 37	736A 42	
A.7j	Coronal Hole Daily Maps (NSO/KP)	———	———	———	———	———	———	———	
A.7k	Coronal Index (Slovak Academy)	1939-1996 -644B 28							
A.7m	Coronal Mass Ejections (CSPSW)	734B 23	735B 36	736B 35					
A.8aa	2800 MHz- Solar Flux (Penticton)	729A 23	730A 25	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23
A.8ac	2800 MHz- Adj. Solar Flux (Penticton)	729A 23	730A 25	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23
A.8g	Adjusted Daily Solar Fluxes Sagamore	729A 23	730A 25	731A 24	732A 25	733A 25	734A 23	735A 24	736A 23
A.10g	Nancay Radioheliograph164&327MHz	730A102	731A106	732A104	733A105	734A 96	735A 86	736A 87	
A.10h	Nobeyama Radioheliograph - 17 GHz	730A 82	731A 75	732A 76	733A 75	734A 72	735A 67	736A 73	
A.11g	Solar X-ray GOES (graphs)	734B 12	735B 24	736B 24					
A.11g	Solar X-ray GOES (event table)	729A 27	730A 30	731A 29	732A 30	733A 29	734A 28	735A 27	736A 26
A.11k	Solar UV NOAA-9	May 86-Dec 88 in 566B 84							
A.11l	Solar UV NIMBUS7	Nov 78-Oct 84 in 542B 82							
A.11m	Solar UV SOLSTICE (UARS)	Oct 91-Sep 94 in 607B 46							
A.11o	Solar UV SUSIM (UARS)	Oct 91-Jan 97 in 629B 30							
A.11p	Solar UV Mg II Daily Index	734B 19	735B 32	736B 31					
A.12g	Solar Particles (GOES)	729A 4	730A 4	731A 4	732A 4	733A 4	734A 4	735A 4	736A 4
A.12i	Solar Energetic Particles (ACE)	734B 22	735B 35	736B 34					
A.13g	Solar Plasma (ACE)	734B 21	735B 34	736B 33					
A.16c	ERBS, NOAA-9 & -10 Solar Irradiance	ERBS Oct 84-Jun 00 in 671B 36							
A.16d	UARS Solar Irradiance	Oct 91-May 2001 684B 26 – Complete Mission							
A.16e	VIRGO/SOHO Solar Irradiance	Jan 96-Sep 00 in 678B 46							
A.17c	Inferred Interplanetary Mag Field	1984-1988 data in 542A168; 1989-Jan 94 in 611A118							
A.17d	ACE Interplanetary Mag Field	734B 20	735B 33	736B 32					
C.	SOLAR FLARE-ASSOCIATED EVENT								
C.1a	H-alpha Flares	729A 26	730A 28	731A 27	732A 28	733A 28	734A 26	735A 27	736A 26
C.1ba	H-alpha Flare Groups	734B 4	735B 4	736B 4					
C.1d	Flare Patrol Observations	734B 7	735B 9	736B 9					
C.1h	H-alpha Flare Index (ImpxDur)	Jan 76-Dec 85 in 639B 26; Jan 86-Oct 96 in 635B 24; Jan 96-Dec 98 in 665B 63							
C.3	Radio Bursts Fixed Frequency	734B 9	735B 11	736B 11					
C.3	Radio Bursts Fixed Frequency Select	729A 30	730A 34	731A 33	732A 34	733A 32	734A 31	735A 29	736A 30
C.4	Radio Bursts Spectral	730A 94	731A 91	732A 91	733A 91	734A 88	735A 80	736A 82	
C.6	Sudden Ionospheric Disturbances	730A 93	731A 89	732A 89	733A 89	734A 86	735A 77	736A 81	
D.	GEOMAGNETIC EVENTS								
D.1a	Geomagnetic Indices	730A110	731A114	732A113	733A113	734A104	735A 92	736A 92	
D.1ba	27-day Chart of Kp Indices	730A112	731A116	732A115	733A115	734A106	735A 94	736A 94	
D.1cb	Monthly Mean aa Indices	730A113	731A117	732A116	733A116	734A107	735A 95	736A 95	
D.1d	Principal Magnetic Storms	730A117	731A121	732A120	733A120	734A111	735A 99	736A 99	
D.1f	Sudden Commencements/FlareEffect	730A118	731A122	732A121	733A121	734A112	735A100	736A100	
D.1g	Equatorial Indices Dst	730A115	731A119	732A118	733A118	734A109	735A 97	736A 97	
D.1l	Polar Cap (PC) Index	730A116	731A120	732A119	733A119	734A110	735A 98	736A 98	
F.	COSMIC RAYS								
F.1b	Cosmic Ray Neutron Cts (Climax)	730A104	731A113	732A107	733A107	734A 98	735A 88	736A 88	
F.1h	Cosmic Ray Neutron Cts (Thule)	730A104	731A113	732A107	733A107	734A 98	735A 88	736A 88	
F.1l	Cosmic Ray Neutron Cts (Kiel)	730A104	731A113	732A107	733A107	734A 98	735A 88	736A 88	
F.1n	Cosmic Ray Neutron Cts (Beijing)	730A104	731A113	732A107	733A107	734A 98	735A 88	736A 88	
F.1m	Cosmic Ray Neutron Cts (Haleakala)	730A104	731A113	732A107	733A107	734A 98	735A 88	736A 88	
F.1o	Cosmic Ray Neutron Cts (Moscow)	730A104	731A113	732A107	733A107	734A 98	735A 88	736A 88	
F.1p	Cosmic Ray Neutron Cts (Calgary)	730A104	731A113	732A107	733A107	734A 98	735A 88	736A 88	
H.	MISCELLANEOUS								
H.60	ISES Alert Periods	729A 19	730A 20	731A 19	732A 20	733A 20	734A 19	735A 20	736A 19

The entry "730A 52" under Apr, for example, means that the sunspot drawings for Apr appear in SOLAR-GEOPHYSICAL DATA No. 730 Part I, and that they begin on page 52 "A" denotes Part I and "B", Part II. Blanks indicate data not yet received and dashes mark unavailable data.

CONTENTS

Comprehensive Reports Number 736 Part II

DATA FOR JUNE 2005

Hα SOLAR FLARES

JUNE 2005

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
		01	0133		0316	No Flare Patrol													
		01	0328		0433	No Flare Patrol													
0001	KANZ	01	1045	1046	1056	S18	E46	10772	06	4.9	11	SF		2	E				
0002	HOLL	01	1245	1245	1248	S17	E45	10772	06	4.9	3	SF		3	E		13		F
0003	HOLL	01	1753	1754	1802	S17	E42	10772	06	4.9	9	SF		3	E		13		FH
0004	HOLL	01	1803	1816	1827	S16	E40	10772	06	4.8	24	SF		3	E		26		F
0005	HOLL	01	2213	2216	2224	S16	E38	10772	06	4.8	11	SF		3	E		33		FR
0006	LEAR	02	0154	0156	0200	S17	E34	10772	06	4.7	6	SF		3	E		23		
		02	0705		0721	No Flare Patrol													
		02	1002		1003	No Flare Patrol													
		02	1017		1019	No Flare Patrol													
		02	1021		1025	No Flare Patrol													
		02	1029		1030	No Flare Patrol													
		02	1032		1047	No Flare Patrol													
		02	1132		1136	No Flare Patrol													
		02	1140		1206	No Flare Patrol													
		02	1227		1234	No Flare Patrol													
		02	1251		1252	No Flare Patrol													
		02	1257		1302	No Flare Patrol													
		02	1925		1950	No Flare Patrol													
		02	2010		2014	No Flare Patrol													
		02	2023		2035	No Flare Patrol													
		02	2350		2400	No Flare Patrol													
		03	0003		0026	No Flare Patrol													
0007	LEAR	03	0210	0227	0255	S18	E20	10772	06	4.6	45	SF		3	E		61		FU
		03	0254		0300	No Flare Patrol													
0008	LEAR	03	0407	0410	0445	S18	E21	10772	06	4.8	38	1B		3	E		129		UZ
0009	KANZ	03	1223E	1226U	1238D	S18	E14	10772	06	4.6	15D	SF		2	E				
0010	HOLL	03	2351	2353	2434	S17	E09	10772	06	4.7	43	SN		3	E		64		F
0011	HOLL	04	0037	0040	0050	S18	E08	10772	06	4.6	13	SF		3	E		24		
0012		04	0053	01015	0115	S18	E08	10772	06	4.6	22	SF					60		F
	HOLL	04	0053	0101	0115	S19	E08	10772	06	4.6	22	SF		3	E		51		F
	LEAR	04	0105E	0106	0217D	S17	E08	10772	06	4.6	72D	SF		3	E		69		
		04	0137		0216	No Flare Patrol													
		04	0250		0347	No Flare Patrol													
0013	LEAR	04	0434	0434	0443	S20	E06	10772	06	4.6	9	SF		3	E		12		F
0014	KANZ	04	0641	0647	0651	S18	E03	10772	06	4.5	10	SF		2	E				
		04	1644		2400	No Flare Patrol													
0015	HOLL	04	1654	1655	1704	S17	W01	10772	06	4.6	10	SF		3	E		33		FH
		05	0000		0122	No Flare Patrol													
		05	0201		0203	No Flare Patrol													
0016	LEAR	05	0327	0330	0341	S17	W06	10772	06	4.7	14	SF		3	E		58		
		05	1026		1053	No Flare Patrol													
		05	1108		1120	No Flare Patrol													
		05	1153		1201	No Flare Patrol													
		05	1210		1252	No Flare Patrol													
		06	0230		0253	No Flare Patrol													

JUNE 2005

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
0017	LEAR	06	0332	0335	0424	S16	W21	10772	06	4.5	52	1F		3	E		103		FH
0018	LEAR	06	0410	0426	0446	S05	E65	10776	06	11.0	36	1F		3	E		115		E
		06	0412		0417	No Flare Patrol													
		06	0501		0510	No Flare Patrol													
		06	0538		0541	No Flare Patrol													
		06	0714		0720	No Flare Patrol													
		06	0950		1211	No Flare Patrol													
0019	HOLL	06	1849	1851	1909	S15	W26	10772	06	4.8	20	SF		3	E		24		
0020	LEAR	07	0143	0143	0153	S05	E53	10776	06	11.0	10	SF		3	E		11		
0021	LEAR	07	0151	0151	0200	N11	E46	10775	06	10.5	9	SF		3	E		12		
		07	0249		0312	No Flare Patrol													
		07	0319		0401	No Flare Patrol													
		07	1017		1038	No Flare Patrol													
0022		07	13381	1339	1350	S17	W38	10772	06	4.7	12	SF					52		FH
	HOLL	07	1338	1339	1354	S16	W37	10772	06	4.8	16	SF		3	E		82		FH
	SVTO	07	1339	1339	1346	S18	W38	10772	06	4.7	7	SF		3	E		22		F
0023	LEAR	08	0128	0129	0154	S05	E40	10776	06	11.0	26	SF		3	E		28		
		08	0312		0328	No Flare Patrol													
0024	LEAR	08	0616	0624	0656	S05	E37	10776	06	11.0	40	SF		3	E		42		
0025	KANZ	08	0622	0632	0655	S06	E42	10776	06	11.4	33	SF		2	E				
		08	0718		0721	No Flare Patrol													
		08	0742		0743	No Flare Patrol													
		08	1043		1117	No Flare Patrol													
0026	HOLL	08	2119	2119	2122	S05	E28	10776	06	11.0	3	SF		3	E		16		
0027	LEAR	09	0022	0023	0025	N11	E20	10775	06	10.5	3	SF		3	E		20		F
		09	0204		0256	No Flare Patrol													
0028	LEAR	09	0259	0301	0311	N11	E19	10775	06	10.5	12	SF		3	E		22		
		09	0459		0623	No Flare Patrol													
		09	0639		0652	No Flare Patrol													
		09	0702		0703	No Flare Patrol													
		09	0747		0800	No Flare Patrol													
		09	1054		1109	No Flare Patrol													
0029	HOLL	09	1657	1657	1705	S06	E18	10776	06	11.0	8	SF		3	E		15		F
		09	2304		2325	No Flare Patrol													
0030	LEAR	10	0839	0839	0842	S05	E08	10776	06	10.9	3	SF		3	E		22		
		10	0943		1001	No Flare Patrol													
		10	1055		1105	No Flare Patrol													
		10	1117		1119	No Flare Patrol													
		10	1122		1123	No Flare Patrol													
0031	LEAR	12	0206	0213	0234	N06	W21	10775	06	10.5	28	SF		3	E		24		F
0032	LEAR	12	0224	0232	0254	S05	W15	10776	06	11.0	30	SF		3	E		46		F
0033	LEAR	12	0250	0251	0334	N11	W21	10775	06	10.5	44	SF		3	E		24		F
0034	LEAR	12	0334	0406	0417	N10	W19	10775	06	10.7	43	SF		3	E		37		F
		12	1123		1151	No Flare Patrol													

Hα SOLAR FLARES

JUNE 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP	Mo	Day	Dur (Min)	Imp	Opt	Xray	Obs See	Obs Type	Area Measurement Time (UT)	Area Measurement Apparent (10-6 Disk)	Area Measurement Corr (Sq Deg)	Remarks
		12	1213		1215	No Flare Patrol															
0035	HOLL	12	1603	1605	1614	N09	W32	10775	06	10	3	11	SF			3	E		13		F
0036	HOLL	12	1615	1615	1624	N09	W32	10775	06	10	3	9	SF			3	E		15		F
		13	0120		0332	No Flare Patrol															
		13	0929		0931	No Flare Patrol															
		13	0933		0936	No Flare Patrol															
		13	0938		0939	No Flare Patrol															
		13	0943		0945	No Flare Patrol															
		13	1010		1012	No Flare Patrol															
		13	1118		1122	No Flare Patrol															
		13	1128		1145	No Flare Patrol															
		13	1150		1152	No Flare Patrol															
		13	1202		1210	No Flare Patrol															
0037	LEAR	14	0514	0515	0522	S09	W43	10776	06	11	0	8	SF			3	E		13		FU
0038		14	07012	07108	0814	N09	W46	10775	06	10	8	73	1F						107		UZ
	KANZ	14	0701	0710	0815	N10	W48	10775	06	10	7	74	1F			2	E				
	LEAR	14	0703	0718	0813	N08	W45	10775	06	10	9	70	1F			3	E		107		ZU
0039	HOLL	14	1542	1555	1624	N11	W59	10775	06	10	2	42	SF			3	E		86		FZ
		14	2116		2120	No Flare Patrol															
		14	2223		2229	No Flare Patrol															
		15	1109		1110	No Flare Patrol															
		15	1112		1121	No Flare Patrol															
		15	1131		1134	No Flare Patrol															
		15	1136		1138	No Flare Patrol															
		15	1147		1210	No Flare Patrol															
0040	HOLL	15	1840	1842	1849	S05	W58	10776	06	11	4	9	SF			3	E		20		F
		15	2244		2309	No Flare Patrol															
		15	2327		2336	No Flare Patrol															
		16	0123		0136	No Flare Patrol															
0041	LEAR	16	0158	0200	0211	S06	W63	10776	06	11	4	13	SF			3	E		33		F
		16	0526		0529	No Flare Patrol															
		16	0730		0732	No Flare Patrol															
		16	0737		0740	No Flare Patrol															
		16	0852		1209	No Flare Patrol															
		16	1212		1214	No Flare Patrol															
		16	1217		1309	No Flare Patrol															
		16	1450		1549	No Flare Patrol															
		16	1703		1712	No Flare Patrol															
		16	1719		1729	No Flare Patrol															
0042	HOLL	16	2009	2010U	2016	N09	W87	10775	06	10	3	7	SF			3	E		41		EF
		16	2028		2035	No Flare Patrol															
		16	2043		2056	No Flare Patrol															
		16	2308		2320	No Flare Patrol															
		17	0255		0302	No Flare Patrol															
		17	0407		0413	No Flare Patrol															
		17	0426		0455	No Flare Patrol															
		17	0527		0529	No Flare Patrol															
0043		18	0018	0021	0024	S08	E66	10780	06	23	0	6	SF						32		FR
	HOLL	18	0018	0021	0024	S07	E66	10780	06	22	9	6	SF			3	E		26		
	LEAR	18	0018	0021	0039D	S08	E66	10780	06	23	0	21D	SF			3	E		38		FR
0044	LEAR	18	0158	0159	0202	S07	E66	10780	06	23	0	4	SF			3	E		38		
0045	LEAR	18	0228	0230	0233	S07	E65	10780	06	23	0	5	SF			3	E		28		

JUNE 2005

Grp #	Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
0046	LEAR	18	0239	0241	0246	S08	E65	10780	06	23.0	7	SF		3	E		36		F
0047	LEAR	18	0449	0449	0453	S08	E63	10780	06	22.9	4	SF		3	E		10		
0048	LEAR	18	0825	0829	0835	S05	E61	10780	06	22.9	10	SF		3	E		23		FH
0049	HOLL	18	2307	2308	2310	S05	E54	10780	06	23.0	3	SF		3	E		17		EF
0050	HOLL	18	2309	2311	2319	S17	W30	10779	06	16.7	10	SF		3	E		42		EF
		19	1056		1211	No Flare Patrol													
0051	HOLL	19	1924	1926	1936	S16	W43	10779	06	16.5	12	SF		3	E		29		EF
		20	0208		0338	No Flare Patrol													
		20	1939		1950	No Flare Patrol													
		20	2032		2043	No Flare Patrol													
		20	2047		2321	No Flare Patrol													
		21	0254		0301	No Flare Patrol													
		21	0335		0350	No Flare Patrol													
		21	0708		0728	No Flare Patrol													
		21	0921		0945	No Flare Patrol													
0052	HOLL	21	1802	1803	1821	S05	E15	10780	06	22.9	19	SF		3	E		27		F
		21	1806		1820	No Flare Patrol													
		21	1923		1950	No Flare Patrol													
		21	2015		2040	No Flare Patrol													
		22	0018		0027	No Flare Patrol													
		22	0039		0040	No Flare Patrol													
		22	0111		0119	No Flare Patrol													
		22	0124		0156	No Flare Patrol													
		22	0210		0340	No Flare Patrol													
0053	HOLL	22	1629	1630	1646	S09	E02	10780	06	22.8	17	SF		3	E		53		EF
		23	0209		0340	No Flare Patrol													
		25	0148		0317	No Flare Patrol													
0054		25	0340	0345	0359	S08	W38	10780	06	22.3	19	SF					45		FU
	LEAR	25	0340	0345	0359	S08	W38	10780	06	22.3	19	SF		3	E		55		UF
	SVTO	25	0342E	0342U	0402D	S07	W38	10780	06	22.3	20D	SF		2	E		35		F
		25	1748		1809	No Flare Patrol													
		25	1814		1836	No Flare Patrol													
		25	1842		1919	No Flare Patrol													
		25	2043		2123	No Flare Patrol													
		25	2127		2224	No Flare Patrol													
		25	2251		2305	No Flare Patrol													
		26	2124		2130	No Flare Patrol													
		26	2303		2305	No Flare Patrol													
		27	0208		0349	No Flare Patrol													
0055	HOLL	27	1805	1806	1810	N13	E83	10781	07	4.0	5	SF		3	E		20		
		27	2121		2138	No Flare Patrol													
		27	2333		2337	No Flare Patrol													
		28	0104		0131	No Flare Patrol													
		28	0152		0222	No Flare Patrol													
		28	0245		0342	No Flare Patrol													
		28	0351		0417	No Flare Patrol													
0056	KANZ	28	1020	1024	1025	N11	E68	10781	07	3.5	5	SF		2	E				
		28	2249		2302	No Flare Patrol													
		28	2316		2333	No Flare Patrol													
		29	0005		0049	No Flare Patrol													
		29	0058		0342	No Flare Patrol													
		29	2221		2244	No Flare Patrol													
		30	0211		0354	No Flare Patrol													

Hα SOLAR FLARES

JUNE 2005

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
		30	1020		1023	No Flare Patrol													
		30	1028		1029	No Flare Patrol													
		30	1031		1033	No Flare Patrol													
		30	1037		1038	No Flare Patrol													
		30	1743		1801	No Flare Patrol													
		30	2219		2238	No Flare Patrol													
		30	2245		2400	No Flare Patrol													

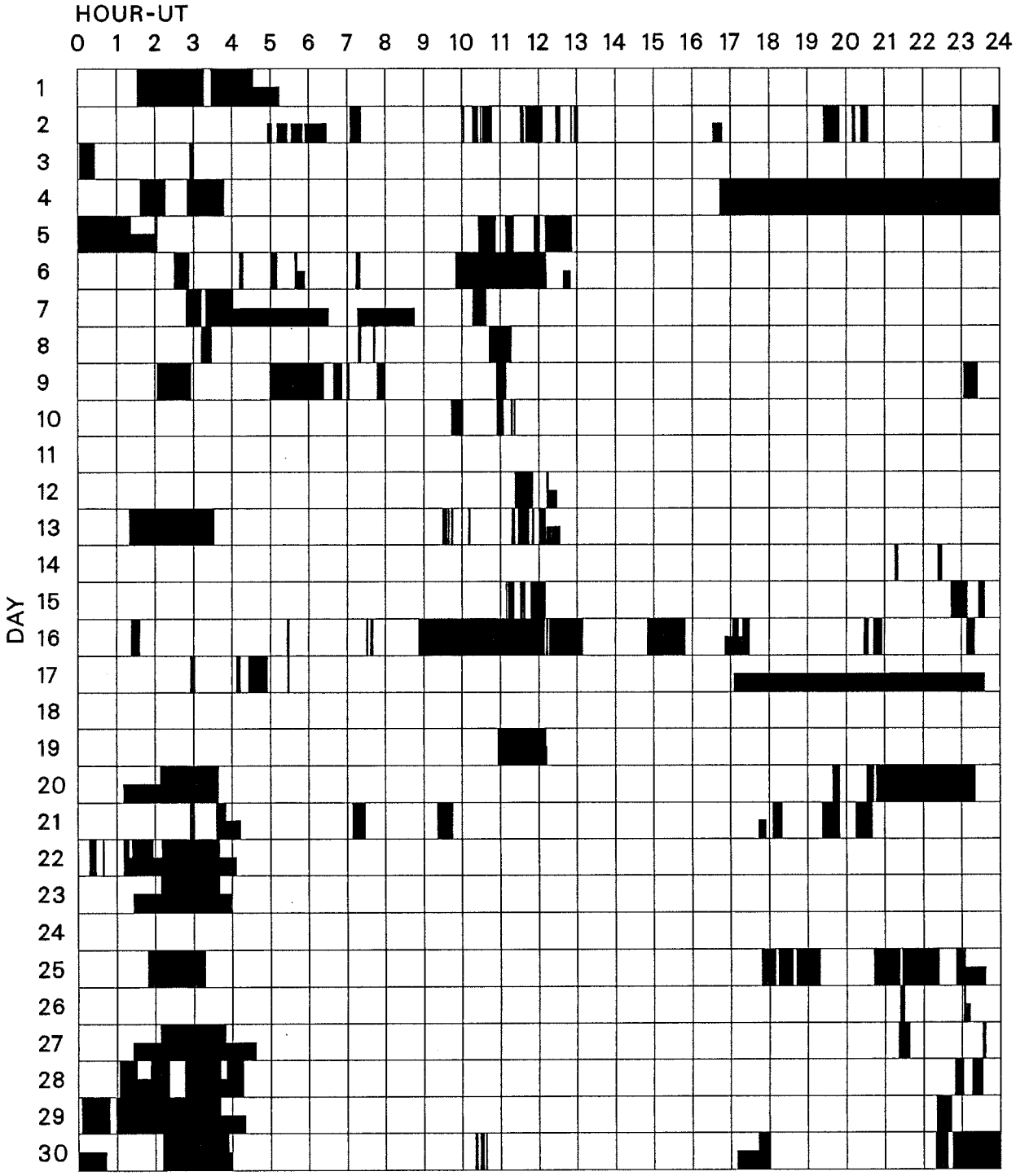
"Remarks"

A = Eruptive prominence whose base is less than 90 degrees 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.

Observation Type: C=Cinematographic, E=Electronic, P=Photographic, V=Visual

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

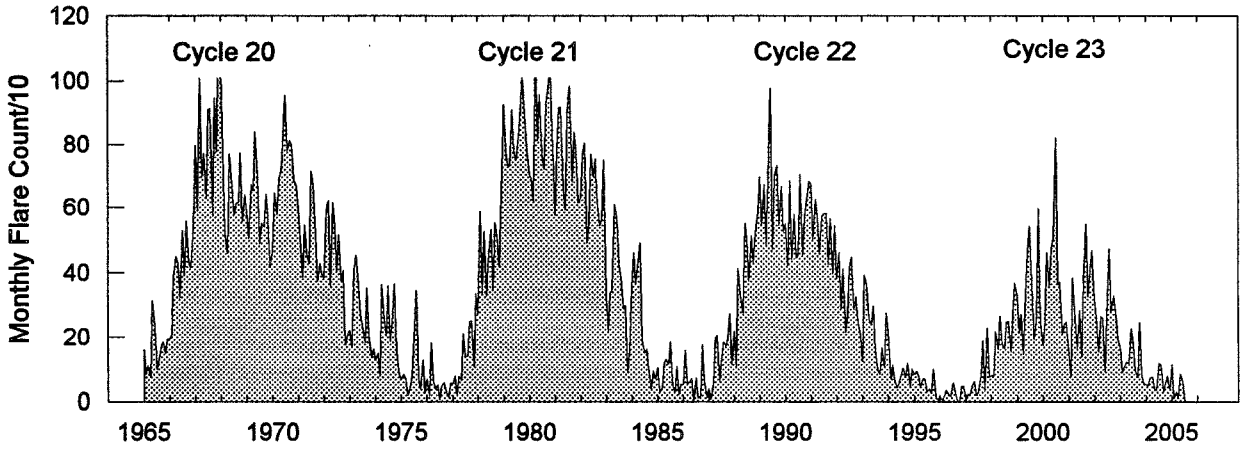
JUNE 2005



Times of no flare patrol, shown here as shaded areas, combine reports from the stations listed below. Portions of a panel completely shaded mark dates and times of no patrol of any kind (neither visual or cinematographic): portions of a panel with only the bottom half shaded mark times of only visual patrol.

Holloman Learmonth San Vito
Kanzelhoehe

Monthly Counts of Grouped Solar Flares
Jan 1965 - Jun 2005



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1965	158	85	110	74	315	231	99	127	173	184	150	193	1899
1966	194	205	390	449	429	323	528	391	558	432	417	543	4859
1967	796	589	1009	694	771	629	907	911	573	946	775	1109	9709
1968	1037	773	519	460	768	697	573	611	616	772	556	640	8022
1969	581	504	669	655	839	694	489	551	540	643	566	422	7153
1970	466	646	578	688	722	836	954	780	811	797	687	667	8632
1971	598	505	387	546	461	430	713	673	518	375	431	394	6031
1972	384	599	621	361	614	541	404	515	371	408	175	210	5203
1973	221	171	410	453	388	270	232	182	353	201	136	163	3180
1974	127	148	79	364	255	204	360	187	270	366	153	81	2594
1975	68	82	69	19	42	85	196	346	68	38	127	25	1165
1976	69	18	180	60	38	48	6	47	57	23	13	55	614
1977	54	77	18	76	64	210	140	140	250	252	107	336	1724
1978	274	588	338	526	330	460	533	346	554	499	418	648	5514
1979	926	781	731	731	907	772	750	821	901	1018	888	786	10012
1980	703	689	621	1092	811	956	763	720	924	988	1027	838	10132
1981	578	782	914	915	658	592	893	982	680	836	773	615	9218
1982	631	766	803	490	553	769	696	753	615	544	564	748	7932
1983	332	220	337	346	609	561	427	389	289	298	88	152	4048
1984	353	461	366	440	492	185	151	161	95	36	92	69	2901
1985	104	29	38	119	129	116	185	53	25	108	19	50	975
1986	51	158	54	56	68	3	71	12	14	174	56	13	730
1987	36	7	52	192	205	61	132	185	172	198	273	114	1627
1988	217	109	413	328	274	551	502	375	513	429	518	587	4816
1989	695	544	672	488	691	977	474	699	733	547	665	526	7711
1990	550	424	684	442	580	445	454	703	449	574	623	682	6610
1991	672	503	625	570	458	574	582	581	425	565	396	544	6495
1992	380	462	287	412	214	271	413	447	287	325	248	206	3952
1993	123	392	357	262	237	296	154	92	82	167	104	275	2541
1994	217	67	111	60	40	56	81	101	72	117	45	99	1066
1995	82	95	77	42	69	66	29	37	23	99	14	6	639
1996	14	3	15	34	21	16	54	31	3	0	44	45	280
1997	8	22	18	43	59	18	26	75	188	31	228	74	790
1998	78	76	216	161	264	177	164	248	249	155	268	367	2423
1999	330	212	271	145	330	466	544	368	192	264	598	243	3963
2000	175	248	462	362	473	505	818	364	372	208	241	246	4474
2001	147	77	383	284	164	282	137	376	549	325	405	468	3597
2002	318	261	155	263	259	91	318	474	280	329	279	196	3223
2003	164	87	112	122	117	226	181	94	73	245	78	53	1552
2004	49	47	71	72	32	33	118	112	30	54	76	34	728
2005	114	10	28	11	82	56							301

The term 'grouped' means observations of the same event by different sites were lumped together and counted as one.

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 2005

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	2804	VORO	1	S	0020.8	0022.4	5.2	4.1			
	2840	PEKG	3	S	0237.0	0241.4	14.0	43.4			
	410	LEAR	8	S	0239.0	0239.0	1.0	140.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0239.0	0239.0	3.0	400.0			QL=4 ST=2 TYP=3
	610	LEAR	4	S/F	0239.0	0239.0	4.0	210.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	0239.0	0240.0	4.0	410.0			QL=4 ST=2 TYP=8
	2804	VORO	4	S/F	0239.9	0240.6	7.2	73.2			
	2800	HIRA	4	S/F	0240.0	0240.0	5.0	55.0			0
	2695	LEAR	8	S	0240.0	0240.0	U	61.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0240.0	0240.0	1.0	190.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0240.0	0240.0	U	180.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0240.0	0240.0	2.0	120.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0240.0	0240.0	U	64.0			QL=4 ST=2 TYP=3
	4995	LEAR	8	S	0241.0	0241.0	U	67.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0241.0	0241.0	1.0	81.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0241.0	0241.0	1.0	66.0			QL=4 ST=2 TYP=3
	410	SVTO	4	S/F	0422.0	0437.0	17.0	36.0			QL=4 ST=2 TYP=3
	245	SVTO	48	C	0435.0	0437.0	6.0	240.0			QL=4 ST=2 TYP=8
	1415	SVTO	8	S	0437.0	0437.0	1.0	35.0			QL=4 ST=2 TYP=3
	900	GORK	46	C	0437.5	0438.2		34.0			
	900	GORK	46	C	0437.5	0437.6	2.0	34.0			
	900	GORK	46	C	0437.5	0437.8		37.0			
	2804	VORO	4	S/F	0437.8	0439.4	2.3	30.5			
	2800	HIRA	4	S/F	0438.0	0439.0	2.0	15.0			0
	2695	SVTO	8	S	0438.0	0438.0	1.0	28.0			QL=4 ST=2 TYP=3
	900	GORK	40	F	0500.4	0500.6	1.5	28.0			
	245	LEAR	8	S	0548.0	0550.0	2.0	470.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0548.0	0550.0	2.0	430.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0551.0	0551.0	U	28.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0606.0	0607.0	1.0	230.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0606.0	0607.0	1.0	34.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0607.0	0607.0	U	100.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0651.0	0651.0	U	75.0			QL=4 ST=2 TYP=3
	2800	HIRA	1	S	0658.0	0702.0	5.0	15.0			0
	245	LEAR	8	S	0658.0	0658.0	U	88.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0658.0	0701.6	5.0	9.3			
	900	GORK	46	C	0658.2	0659.3	4.5	32.0			
	900	GORK	46	C	0658.2	0702.3		70.0			
	610	SVTO	4	S/F	0659.0	0701.0	3.0	150.0			QL=2 ST=2 TYP=3
	33	UPIC	45	C	0659.0	0659.5	1.0				
	245	LEAR	8	S	0700.0	0700.0	U	63.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0700.0	0702.0	2.0	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0700.0	0701.0	2.0	48.0			QL=4 ST=3 TYP=3
	4995	SVTO	8	S	0701.0	0701.0	U	21.0			QL=4 ST=2 TYP=3
	900	GORK	7	C	0827.3	0827.5	0.9	5.4			
	900	GORK	7	C	0827.3	0827.9		4.0			
	245	LEAR	8	S	0832.0	0832.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0832.0	0832.0	U	130.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0836.0	0836.5	1.5				
	9100	GORK	2	S/F	0837.5	0837.9	1.2	11.0			
	900	GORK	7	C	0839.3	0839.5	1.3	8.6			
	900	GORK	7	C	0839.3	0839.7		9.8			
	900	GORK	40	F	0919.3	0921.8	2.7	13.0			
	900	GORK	4	S/F	0937.4	0938.8	2.6	16.0			
	245	SVTO	8	S	0938.0	0938.0	U	62.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0938.0	0938.0	U	28.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0938.0	0939.0	3.0				
	610	SVTO	48	C	0951.0	1045.0	57.0	780.0			QL=2 ST=2 TYP=8
	33	UPIC	46	C	1042.0	1045.0	9.0				
	410	SGMR	8	S	1044.0	1044.0	2.0	140.0			QL=4 ST=2 TYP=3
	610	SGMR	8	S	1044.0	1045.0	2.0	350.0			QL=4 ST=2 TYP=3
	1415	SGMR	8	S	1044.0	1045.0	2.0	120.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1044.0	1045.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1044.0	1046.0	3.0	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1044.0	1045.0	2.0	180.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	1044.0	1045.0	2.0	120.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1044.0	1045.0	2.0	50.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	1044.0	1045.0	2.0	69.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	1044.0	1045.0	2.0	41.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

JUNE 2005

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	245	SVTO	4	S/F	1044.0	1046.0	3.0	170.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1045.0	1045.0	U	36.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1045.0	1045.0	U	30.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1452.0	1452.0	U	60.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1452.0	1452.0	U	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1605.0	1605.0	U	93.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1605.0	1605.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1613.0	1613.0	1.0	69.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1613.0	1613.0	1.0	77.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1722.0	1722.0	1.0	1200.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	1722.0	1723.0	1.0	95.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1722.0	1722.0	U	550.0			QL=2 ST=2 TYP=6
	2800	PENT	8	S	1749.0	1752.0	5.7	17.0			
	4995	SGMR	8	S	1752.0	1752.0	1.0	58.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1752.0	1752.0	1.0	69.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1752.0	1752.0	1.0	55.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	1752.0	1753.0	3.0	54.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	1753.0	1753.0	U	60.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1753.0	1753.8	1.0				
	245	SGMR	49	GB	2206.0	2209.0	8.0	1100.0			QL=4 ST=2 TYP=6
	245	PALE	49	GB	2207.0	2209.0	8.0	1200.0			QL=4 ST=2 TYP=6
	410	SGMR	48	C	2207.0	2208.0	7.0	410.0			QL=4 ST=2 TYP=8
	2800	HIRA	7	C	2207.0	2210.0	12.0	100.0			0
	410	PALE	48	C	2207.0	2209.0	16.0	720.0			QL=4 ST=2 TYP=8
	610	SGMR	48	C	2208.0	2213.0	6.0	100.0			QL=4 ST=2 TYP=8
	8800	PALE	48	C	2209.0	2215.0	9.0	300.0			QL=4 ST=2 TYP=8
	2695	SGMR	48	C	2209.0	2210.0	6.0	130.0			QL=4 ST=2 TYP=8
	4995	SGMR	48	C	2209.0	2214.0	7.0	290.0			QL=4 ST=2 TYP=8
	8800	SGMR	48	C	2209.0	2210.0	7.0	210.0			QL=4 ST=2 TYP=8
	15400	SGMR	48	C	2209.0	2210.0	6.0	210.0			QL=4 ST=2 TYP=8
	1415	SGMR	4	S/F	2209.0	2210.0	5.0	230.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2209.0	2210.0	111.0	130.0			QL=4 ST=1 TYP=3
	610	PALE	48	C	2210.0	2210.0	5.0	130.0			QL=4 ST=2 TYP=8
	2695	PALE	48	C	2210.0	2211.0	6.0	120.0			QL=4 ST=2 TYP=8
	4995	PALE	48	C	2210.0	2215.0	7.0	250.0			QL=4 ST=2 TYP=8
	15400	PALE	48	C	2210.0	2211.0	7.0	190.0			QL=4 ST=2 TYP=8
	1415	PALE	8	S	2210.0	2211.0	1.0	200.0			QL=4 ST=2 TYP=3
	2804	VORO	4	S/F	2213.9	2215.0	5.5	61.0			
	2840	PEKG	45	C	2216.0E	2216.0	15.0D	67.7			
	245	LEAR	8	S	2330.0	2330.0	U	59.0			QL=4 ST=2 TYP=3
02	127	TORN	43	NS	0927.0		333.0		5.0		V=1
	610	LEAR	49	GB	0153.0	0153.0	1.0	840.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0153.0	0154.0	1.0	86.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0153.0	0154.0	1.0	140.0			QL=4 ST=2 TYP=3
	610	PALE	49	GB	0154.0	0154.0	1.0	880.0			QL=4 ST=2 TYP=6
	245	PALE	8	S	0154.0	0154.0	U	95.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0154.0	0154.0	1.0	180.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0604.0	0604.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0604.0	0604.0	U	61.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0604.0	0605.0	2.0				
	33	UPIC	42	SER	0925.0	1050.5	172.0				
	127	TORN	4	S/F	1032.7	1033.2	1.3	280.0	80.0		
	127	TORN	4	S/F	1049.1	1050.0	0.9	160.0	40.0		
	245	SVTO	8	S	1312.0	1312.0	U	53.0			QL=4 ST=2 TYP=3
03	127	TORN	43	NS	0800.0	1213.0	360.0	40.0	11.0		V=1
	235	CUBA	44	NS	1340.0E		280.0D		23.0		
	2804	VORO	42	SER	0208.2	0219.2	11.0	24.0			
	2804	VORO	42	SER	0208.2	0214.5	6.3	5.4			
	2804	VORO	42	SER	0208.2	0210.6	3.7	5.4			
	2800	HIRA	40	F	0209.0	0219.0	12.0	10.0			0
	245	LEAR	8	S	0305.0	0305.0	1.0	83.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0305.0	0306.0	1.0	98.0			QL=4 ST=2 TYP=3
	2840	PEKG	45	C	0402.0	0409.6	27.0	227.4			
	9100	GORK	46	C	0405.0	0410.4U		360.0U			
	9100	GORK	46	C	0405.0	0409.8	7.0	350.0			
	2800	HIRA	4	S/F	0407.0	0410.0	9.0	215.0			0
	900	GORK	46	C	0407.4	0411.0		185.0			

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 2005

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
03	900	GORK	46	C	0407.4	0409.4	8.6	27.0			
	900	GORK	46	C	0407.4	0409.9		225.0			
	245	PALE	49	GB	0408.0	0410.0	4.0	5700.0			QL=4 ST=2 TYP=6
	410	PALE	49	GB	0409.0	0410.0	3.0	1800.0			QL=4 ST=2 TYP=6
	610	PALE	49	GB	0409.0	0410.0	3.0	540.0			QL=4 ST=2 TYP=6
	1415	PALE	8	S	0409.0	0409.0	2.0	290.0			QL=4 ST=2 TYP=3
	2695	PALE	8	S	0409.0	0409.0	2.0	150.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	0409.0	0410.0	2.0	260.0			QL=4 ST=2 TYP=3
	8800	PALE	8	S	0409.0	0410.0	2.0	440.0			QL=4 ST=2 TYP=3
	15400	PALE	8	S	0409.0	0410.0	2.0	310.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0409.0	0409.0	2.0	340.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	0409.0	0409.0	2.0	190.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	0409.0	0410.0	2.0	190.0			QL=4 ST=2 TYP=3
	8800	SVTO	8	S	0409.0	0410.0	2.0	270.0			QL=4 ST=2 TYP=3
	15400	SVTO	8	S	0409.0	0410.0	2.0	260.0			QL=4 ST=2 TYP=3
	410	PALE	49	GB	0409.0	0410.0	1191.0	1800.0			QL=4 ST=1 TYP=6
	610	PALE	49	GB	0409.0	0410.0	1191.0	540.0			QL=4 ST=1 TYP=6
	1415	PALE	4	S/F	0409.0	0409.0	1191.0	290.0			QL=4 ST=1 TYP=3
	4995	PALE	4	S/F	0409.0	0410.0	1191.0	260.0			QL=4 ST=1 TYP=3
	8800	PALE	4	S/F	0409.0	0410.0	1191.0	440.0			QL=4 ST=1 TYP=3
	15400	PALE	4	S/F	0409.0	0410.0	1191.0	310.0			QL=4 ST=1 TYP=3
	1415	SVTO	4	S/F	0409.0	0409.0	1191.0	340.0			QL=4 ST=1 TYP=3
	2695	SVTO	4	S/F	0409.0	0409.0	1191.0	100.0			QL=4 ST=1 TYP=3
	4995	SVTO	4	S/F	0409.0	0409.0	1191.0	120.0			QL=4 ST=1 TYP=3
	8800	SVTO	4	S/F	0409.0	0409.0	1191.0	130.0			QL=4 ST=1 TYP=3
	15400	SVTO	4	S/F	0409.0	0409.0	1191.0	70.0			QL=4 ST=1 TYP=3
	245	LEAR	49	GB	0410.0	0410.0	2.0	2400.0			QL=2 ST=2 TYP=6
	410	LEAR	49	GB	0410.0	0410.0	1.0	850.0			QL=2 ST=2 TYP=6
	610	LEAR	8	S	0410.0	0410.0	1.0	160.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0410.0	0410.0	U	73.0			QL=2 ST=2 TYP=3
	1415	LEAR	8	S	0410.0	0410.0	U	73.0			QL=4 ST=2 TYP=3
	2695	LEAR	8	S	0410.0	0410.0	U	85.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0410.0	0410.0	U	120.0			QL=2 ST=2 TYP=3
	4995	LEAR	8	S	0410.0	0410.0	U	120.0			QL=4 ST=2 TYP=3
	15400	LEAR	8	S	0410.0	0410.0	U	91.0			QL=2 ST=2 TYP=3
	15400	LEAR	8	S	0410.0	0410.0	U	91.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	0410.0	0411.0	2.0				
	410	LEAR	49	GB	0410.0	0410.0	1190.0	850.0			QL=4 ST=1 TYP=6
	610	LEAR	4	S/F	0410.0	0410.0	1190.0	160.0			QL=4 ST=1 TYP=3
	2695	LEAR	4	S/F	0410.0	0410.0	1190.0	85.0			QL=4 ST=1 TYP=3
	9100	GORK	29	PBI	0412.0	0412.0	21.0	34.0			
	245	LEAR	8	S	0717.0	0717.0	U	84.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0717.0	0717.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0829.0	0831.0	2.0	83.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0831.0	0831.0	U	68.0			QL=4 ST=2 TYP=3
	127	TORN	27	RF	0902.0		23.0		35.0		
	245	SVTO	8	S	0956.0	0956.0	U	66.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1146.0	1150.0	4.0	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1148.0	1150.0	2.0	120.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1201.0	1220.0	42.0	190.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1205.0	1218.0	33.0	150.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1206.0	1221.3	21.0				
	1415	SGMR	8	S	1210.0	1210.0	U	93.0			QL=4 ST=3 TYP=3
	1415	SVTO	8	S	1210.0	1210.0	1.0	90.0			QL=4 ST=2 TYP=3
	1415	SGMR	4	S/F	1210.0	1210.0	12.0	93.0			QL=4 ST=2 TYP=3
	8800	SGMR	20	GRF	1214.0	1221.0	20.0	100.0			QL=4 ST=2 TYP=2
	2695	SGMR	4	S/F	1214.0	1218.0	24.0	150.0			QL=4 ST=3 TYP=3
	4995	SGMR	4	S/F	1214.0	1220.0	29.0	190.0			QL=4 ST=3 TYP=3
	2695	SVTO	4	S/F	1214.0	1218.0	23.0	150.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1214.0	1217.0	706.0	58.0			QL=4 ST=1 TYP=3
	8800	SGMR	4	S/F	1214.0	1220.0	706.0	98.0			QL=4 ST=1 TYP=3
	4995	SVTO	4	S/F	1215.0	1220.0	24.0	170.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1217.0	1222.0	6.0	52.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1217.0	1221.0	17.0	100.0			QL=4 ST=3 TYP=3
	15400	SGMR	4	S/F	1217.0	1217.0	703.0	22.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1217.0	1221.0	703.0	49.0			QL=4 ST=1 TYP=3
	1415	SVTO	4	S/F	1218.0	1228.0	18.0	48.0			QL=4 ST=2 TYP=3
	8800	SVTO	4	S/F	1218.0	1221.0	18.0	83.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1218.0	1224.0	18.0	65.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 2005

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
03	15400	SGMR	4	S/F	1221.0	1222.0	3.0	52.0			QL=4 ST=3 TYP=3
	1415	SGMR	8	S	1227.0	1227.0	1.0	51.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1340.0	1340.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1341.0	1341.0	U	58.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1341.0	1341.0	U	100.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1352.0	1353.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1353.0	1353.0	U	92.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1426.0	1426.0	U	180.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1426.0	1426.0	U	210.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1513.0	1513.0	U	80.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1513.0	1513.0	U	91.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	2218.0	2218.0	4.0	220.0			QL=4 ST=2 TYP=8
	2800	PENT	8	S	2347.0	2351.0	11.3	20.0			
	2840	PEKG	3	S	2347.0	2351.6	14.0	25.8			
	245	LEAR	8	S	2348.0	2348.0	U	53.0			QL=4 ST=2 TYP=3
	2800	HIRA	3	S	2349.0	2352.0	6.0	25.0			0
	2804	VORO	4	S/F	2349.0	2352.4	6.1	24.5			
	410	LEAR	8	S	2350.0	2350.0	1.0	68.0			QL=4 ST=2 TYP=3
	410	PALE	48	C	2350.0	2351.0	5.0	160.0			QL=4 ST=2 TYP=8
	245	LEAR	8	S	2351.0	2351.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2351.0	2351.0	U	120.0			QL=4 ST=2 TYP=3
	2804	VORO	29	PBI	2355.1	2359.0	150.0	9.0			
04	127	TORN	43	NS	1028.0		188.0		5.0		V=1,ATM.STORM
	235	CUBA	44	NS	1330.0E		480.0D		24.0		
	9100	GORK	21	GRF	0610.8	0644.8	53.4	13.0			
	2840	PEKG	1	S	0639.0	0641.0	4.0	7.7			
	9100	GORK	4	S/F	0640.2	0641.0	1.6	20.0			
	900	GORK	41	F	0640.3	0641.0		15.0			
	900	GORK	41	F	0640.3	0640.6	1.0	3.2			
	127	TORN	7	C	1025.2	1025.5	1.0	110.0	40.0		
	245	SGMR	8	S	1238.0	1238.0	U	54.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1315.0	1315.0	U	120.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1315.0	1315.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1709.0	1709.0	U	63.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1709.0	1709.0	U	61.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1947.0	1948.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1948.0	1948.0	U	120.0			QL=4 ST=2 TYP=3
05	127	TORN	44	NS	0630.0E		510.0D		20.0		V=1,ATM.STORM
	235	CUBA	44	NS	1320.0E		490.0D		24.0		
	245	SGMR	43	NS	1932.0	2111.0	193.0	300.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2014.0	2029.0	446.0	260.0			QL=4 ST=2 TYP=1
	2800	HIRA	8	S	0328.0	0328.0	1.0	30.0			0
	245	LEAR	8	S	0511.0	0511.0	U	74.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0511.0	0511.0	U	50.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0516.0	0516.0	U	72.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0517.0	0517.0	U	50.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1109.0	1109.0	1.0	87.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1209.0	1209.0	U	89.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1717.0	1717.0	U	55.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1738.0	1739.0	1.0	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1738.0	1739.0	1.0	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1811.0	1811.0	U	67.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1811.0	1811.0	U	67.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1921.0	1921.0	U	62.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1921.0	1921.0	U	64.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1925.0	1925.0	2.0	270.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	1925.0	1925.0	2.0	250.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1932.0	1934.0	4.0	160.0			QL=4 ST=2 TYP=8
	245	PALE	8	S	1939.0	1940.0	1.0	95.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	2038.0E	2042.0U	4.0D	460.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	2123.0E	2123.0U	1.0D	450.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2219.0E	2219.0U	U	110.0			QL=4 ST=2 TYP=3
06	245	LEAR	43	NS	0248.0	0300.0	12.0	260.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0432.0	0547.0	75.0	63.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0437.0	0437.0	42.0	69.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0730.0E		410.0D		6.0		V=1

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 2005

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
06	245	SGMR	43	NS	0930.0	1204.0	285.0	170.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	0930.0	1117.0U	870.0	110.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	0930.0	1204.0U	870.0	170.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	1131.0	1132.0	42.0	89.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1320.0E		465.0D		29.0		
	245	SGMR	43	NS	2248.0	2308.0	70.0	94.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2315.0	0023.0	110.0	170.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2316.0	0330.0	311.0	100.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0234.0	0234.0	U	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0248.0	0248.0	U	81.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0254.0	0254.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0409.0	0409.0	U	640.0			QL=4 ST=2 TYP=6
	410	LEAR	8	S	0409.0	0409.0	U	230.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0409.0	0409.0	U	78.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	0409.0	0409.0	U	680.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	0409.0	0409.0	U	360.0			QL=4 ST=2 TYP=3
	610	PALE	8	S	0409.0	0409.0	U	77.0			QL=4 ST=2 TYP=3
	245	LEAR	48	C	0546.0	0552.0	7.0	220.0			QL=4 ST=2 TYP=8
	410	LEAR	8	S	0549.0	0549.0	U	70.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0552.0	0552.0	1.0	210.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0554.0	0554.0	U	68.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0556.0	0557.0	1.0	100.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0557.0	0557.0	U	92.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0622.0	0622.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0627.0	0627.0	U	100.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0627.0	0627.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0627.0	0627.0	1.0	110.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0627.0	0627.0	U	69.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0708.0	0708.0	U	95.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0708.0	0708.0	U	100.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0715.0	0715.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0716.0	0716.0	U	74.0			QL=2 ST=2 TYP=3
	245	SVTO	4	S/F	0727.0	0727.0	4.0	57.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0734.0	0734.0	2.0	85.0			QL=4 ST=2 TYP=3
	610	SVTO	48	C	0734.0	0734.0	4.0	210.0			QL=2 ST=2 TYP=8
	245	SVTO	8	S	0734.0	0734.0	2.0	100.0			QL=2 ST=2 TYP=3
	245	LEAR	8	S	0744.0	0744.0	U	170.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0744.0	0744.0	U	190.0			QL=2 ST=2 TYP=3
	127	TORN	4	S/F	0848.8	0850.7	3.3	600.0	120.0		
	245	LEAR	8	S	0850.0	0851.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0850.0	0851.0	1.0	170.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0928.0	0928.0	U	290.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	0946.0	0946.0	1.0	190.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1020.0	1020.0	U	57.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1117.0	1117.0	U	96.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1120.0	1120.0	2.0	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1204.0	1204.0	U	180.0			QL=2 ST=2 TYP=3
	127	TORN	7	C	1205.1	1205.4	1.3	190.0	60.0		
	245	SVTO	8	S	1254.0	1254.0	U	53.0			QL=2 ST=2 TYP=3
	410	SGMR	8	S	1300.0	1300.0	U	51.0			QL=4 ST=3 TYP=3
	410	SGMR	4	S/F	1300.0	1300.0	660.0	51.0			QL=4 ST=3 TYP=3
	245	SVTO	8	S	1345.0	1346.0	2.0	99.0			QL=2 ST=2 TYP=3
	245	SVTO	8	S	1525.0	1525.0	U	190.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1541.0	1541.0	U	130.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1555.0	1555.0	U	51.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1713.0	1713.0	U	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1713.0	1713.0	U	160.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1713.0	1713.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	PALE	49	GB	1734.0	1735.0	1.0	2400.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	1735.0	1735.0	U	140.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1825.0	1825.0	U	290.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1825.0	1825.0	U	280.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1836.0	1836.0	1.0	460.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1836.0	1836.0	1.0	430.0			QL=4 ST=2 TYP=3
	2800	PENT	8	S	1849.0	1849.0	3.7	25.0			
	245	PALE	8	S	1856.0	1856.0	U	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1924.0	1924.0	U	72.0			QL=4 ST=2 TYP=3
	245	PALE	4	S/F	1945.0	1946.0	3.0	490.0			QL=4 ST=2 TYP=3
	410	PALE	4	S/F	1945.0	1946.0	3.0	350.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

JUNE 2005

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
06	410	SGMR	8	S	1945.0	1946.0	1.0	200.0			QL=4 ST=2 TYP=3
	245	SGMR	4	S/F	1945.0	1946.0	3.0	480.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1955.0	1956.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1955.0	1956.0	2.0	130.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2021.0	2021.0	U	56.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2114.0	2114.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2114.0	2114.0	1.0	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2114.0	2114.0	1.0	170.0			QL=4 ST=3 TYP=3
	245	PALE	8	S	2118.0	2118.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2118.0	2118.0	U	78.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	2210.0	2216.0	8.0	1100.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	2211.0	2216.0	6.0	1200.0			QL=4 ST=2 TYP=8
	410	PALE	8	S	2215.0	2216.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2229.0	2229.0	U	96.0			QL=4 ST=2 TYP=3
07	245	SGMR	43	NS	0930.0	1802.0	530.0	97.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	0930.0	1356.0U	870.0	87.0			QL=4 ST=1 TYP=1
	127	TORN	43	NS	0938.0		322.0		3.0		V=1
	235	CUBA	44	NS	1320.0E		410.0D		61.0		
	245	SVTO	43	NS	1327.0	1427.0	97.0	81.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1702.0	1720.0	272.0	430.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1702.0	1702.0	418.0	52.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1702.0	1720.0	418.0	430.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1702.0	1724.0	418.0	81.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1702.0	1802.0	418.0	140.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	1702.0	1858.0	418.0	150.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	2211.0	0119.0	303.0	480.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2259.0	2325.0	61.0	67.0			QL=4 ST=1 TYP=1
	410	LEAR	43	NS	2326.0	2326.0	34.0	59.0			QL=4 ST=1 TYP=1
	245	LEAR	8	S	0056.0	0056.0	U	360.0			QL=4 ST=2 TYP=3
	245	LEAR	49	GB	0118.0	0118.0	1.0	500.0			QL=4 ST=2 TYP=6
	245	LEAR	8	S	0122.0	0123.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1030.0	1030.0	U	52.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	1033.0	1033.5	1.0				
	245	SGMR	8	S	1042.0	1043.0	1.0	260.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1042.0	1042.0	U	100.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1042.0	1043.0	1.0	330.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	1042.0	1042.0	1.0	340.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1042.5	1043.0	2.5				UNCERTN
	245	SVTO	8	S	1217.0	1217.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1249.0	1249.0	U	78.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1257.0	1257.0	U	54.0			QL=4 ST=2 TYP=3
	2695	SGMR	8	S	1338.0	1338.0	1.0	67.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1338.0	1338.0	1.0	52.0			QL=4 ST=2 TYP=3
	2695	SVTO	8	S	1338.0	1338.0	1.0	59.0			QL=4 ST=2 TYP=3
	4995	SVTO	8	S	1338.0	1338.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	49	GB	1544.0	1544.0	1.0	740.0			QL=4 ST=2 TYP=6
	410	SGMR	8	S	1544.0	1545.0	1.0	270.0			QL=4 ST=2 TYP=3
	245	SVTO	49	GB	1544.0	1544.0	1.0	710.0			QL=4 ST=2 TYP=6
	410	SVTO	8	S	1544.0	1545.0	1.0	390.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1544.0	1545.0	2.0				
	245	SVTO	8	S	1626.0	1626.0	U	83.0			QL=2 ST=2 TYP=3
	15400	PALE	8	S	1911.0	1911.0	U	52.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1911.0	1911.0	U	28.0			QL=4 ST=2 TYP=3
	8800	SGMR	8	S	1911.0	1911.0	U	64.0			QL=4 ST=2 TYP=3
	15400	SGMR	8	S	1911.0	1911.0	U	51.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2228.0	2228.0	U	63.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2259.0	2300.0	2.0	390.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	2259.0	2259.0	U	52.0			QL=4 ST=2 TYP=3
08	245	SVTO	43	NS	0436.0	0450.0	93.0	140.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0436.0	0446.0	1164.0	76.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0436.0	0450.0	1164.0	140.0			QL=4 ST=1 TYP=1
	127	TORN	43	NS	0840.0		380.0		35.0		V=2
	245	SGMR	43	NS	1138.0	1840.0	516.0	140.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2118.0	2118.0	88.0	54.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2259.0	2340.0	118.0	70.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2259.0	0027.0	342.0	630.0			QL=4 ST=2 TYP=1
	410	LEAR	43	NS	2326.0	2326.0	46.0	59.0			QL=4 ST=2 TYP=1

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

JUNE 2005

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
08	245	LEAR	43 NS	2327.0	0449.0	409.0	110.0			QL=4 ST=2 TYP=1
	245	LEAR	43 NS	2327.0	0449.0	409.0	110.0			QL=4 ST=3 TYP=1
	410	LEAR	8 S	0142.0	0142.0	U	54.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0449.0	0449.0	U	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0736.0	0736.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0809.0	0809.0	U	56.0			QL=4 ST=2 TYP=3
	127	TORN	47 GB	0833.4	0834.7	2.2	550.0	270.0		
	245	LEAR	8 S	0839.0	0839.0	U	75.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0842.0	0843.0	1.0	97.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0914.0	0914.0	U	56.0			QL=4 ST=2 TYP=3
	245	LEAR	48 C	0927.0	0929.0	2.0	140.0			QL=4 ST=2 TYP=8
	245	SGMR	8 S	1056.0	1056.0	U	56.0			QL=4 ST=2 TYP=3
	127	TORN	4 S/F	1306.2	1306.3	1.0	270.0	50.0		
	245	SGMR	8 S	1333.0E	1333.0U	U	83.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1415.0E	1415.0U	1.0D	96.0			QL=4 ST=2 TYP=3
	127	TORN	5 S	1435.7	1436.5	1.8	19000.0D	1000.0D		UNCERTAIN
	245	PALE	8 S	1700.0	1700.0	U	67.0			QL=4 ST=2 TYP=3
	245	SGMR	49 GB	1941.0E	1941.0U	U	640.0			QL=4 ST=2 TYP=6
	245	SGMR	8 S	2103.0	2103.0	U	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2115.0	2115.0	U	58.0			QL=4 ST=2 TYP=3
09	245	SVTO	43 NS	0618.0	0705.0	138.0	210.0			QL=4 ST=2 TYP=1
	127	TORN	44 NS	0630.0E		510.0D		100.0		V=2
	245	SGMR	43 NS	0929.0	1208.0	799.0	210.0			QL=4 ST=2 TYP=1
	245	SGMR	43 NS	0929.0	1015.0	871.0	65.0			QL=4 ST=1 TYP=1
	245	SVTO	43 NS	0937.0	1015.0	38.0	110.0			QL=4 ST=2 TYP=1
	245	SVTO	43 NS	1107.0	1406.0	371.0	300.0			QL=4 ST=2 TYP=1
	410	SGMR	43 NS	1222.0	1237.0	698.0	85.0			QL=4 ST=1 TYP=1
	410	SGMR	43 NS	1222.0	1439.0	698.0	85.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	1225.0	1239.0	102.0	94.0			QL=4 ST=2 TYP=1
	235	CUBA	44 NS	1320.0E		340.0D		121.0		
	410	SGMR	43 NS	1554.0	1956.0	307.0	76.0			QL=4 ST=2 TYP=1
	410	SVTO	43 NS	1556.0	1633.0	68.0	95.0			QL=4 ST=2 TYP=1
	245	PALE	43 NS	1636.0	1637.0	444.0	98.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1636.0	1857.0	444.0	150.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1636.0	2000.0	444.0	170.0			QL=4 ST=1 TYP=1
	245	PALE	43 NS	1636.0	2225.0	739.0	320.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	1937.0	2001.0	213.0	72.0			QL=4 ST=2 TYP=1
	410	PALE	43 NS	1937.0	2001.0	263.0	72.0			QL=4 ST=1 TYP=1
	245	LEAR	43 NS	2316.0	0019.0	544.0	220.0			QL=4 ST=2 TYP=1
	245	LEAR	8 S	0214.0	0214.0	U	88.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0457.0	0457.0	U	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0532.0	0533.0	2.0	85.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0532.0	0532.0	U	64.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0545.0	0545.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0546.0	0546.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0558.0	0559.0	1.0	61.0			QL=4 ST=2 TYP=3
	245	SVTO	4 S/F	0608.0	0608.0	5.0	62.0			QL=4 ST=3 TYP=3
	410	SVTO	8 S	0611.0	0611.0	2.0	150.0			QL=4 ST=3 TYP=3
	410	LEAR	8 S	0613.0	0613.0	U	110.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0617.0	0617.0	U	58.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0618.0	0618.0	U	62.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0638.0	0638.0	U	61.0			QL=4 ST=2 TYP=3
	245	LEAR	8 S	0701.0	0701.0	U	100.0			QL=4 ST=2 TYP=3
	410	SVTO	8 S	0717.0	0718.0	2.0	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8 S	0718.0	0719.0	1.0	140.0			QL=2 ST=2 TYP=3
	245	SGMR	8 S	1129.0	1129.0	U	300.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1151.0	1151.0	1.0	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1742.0	1742.0	1.0	280.0			QL=4 ST=2 TYP=3
	410	SGMR	8 S	1742.0	1742.0	U	71.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	1742.0E	1742.0U	1.0D	280.0			QL=4 ST=3 TYP=3
	410	SGMR	8 S	1742.0E	1742.0U	U	71.0			QL=4 ST=3 TYP=3
	245	SGMR	8 S	2000.0E	2000.0U	U	170.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2114.0E	2114.0U	U	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2130.0E	2130.0U	U	160.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2138.0E	2138.0U	U	180.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2213.0	2213.0	U	220.0			QL=4 ST=2 TYP=3
	245	SGMR	8 S	2213.0E	2213.0U	U	220.0			QL=4 ST=2 TYP=3
	245	PALE	8 S	2221.0	2222.0	1.0	280.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 2005

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
09	245	SGMR	8	S	2221.0E	2221.0U	U	260.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2224.0E	2224.0U	U	310.0			QL=4 ST=2 TYP=3
10	245	LEAR	43	NS	0323.0	0617.0	366.0	170.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0323.0	0524.0	1237.0	140.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0323.0	0617.0	1237.0	170.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0434.0	0652.0	513.0	210.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0434.0	0617.0U	1166.0	170.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0434.0	0652.0U	1166.0	210.0			QL=4 ST=1 TYP=1
	127	TORN	44	NS	0630.0E		510.0D		130.0		V=2
	245	SGMR	43	NS	0929.0	1245.0	521.0	170.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	0929.0	1132.0	871.0	120.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	0929.0	1245.0	871.0	170.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	0929.0	1047.0U	871.0	52.0			QL=4 ST=1 TYP=1
	235	CUBA	44	NS	1315.0E		485.0D		61.0		
	2800	HIRA	1	S	0306.0	0308.0	3.0	10.0			0
	2804	VORO	46	C	0306.4	0308.0	3.1	8.6			
	410	SVTO	4	S/F	0611.0	0614.0	4.0	94.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0659.0	0659.0	1.0	89.0			QL=2 ST=2 TYP=3
	410	SVTO	8	S	0838.0	0839.0	1.0	57.0			QL=2 ST=2 TYP=3
	2950	GORK	2	S/F	0845.1	0845.5	4.5	5.2			
	245	SGMR	8	S	1332.0	1333.0	1.0	370.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1922.0	1922.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1930.0	1930.0	U	190.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1930.0	1930.0	U	27.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1931.0	1931.0	U	230.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2150.0	2150.0	U	77.0			QL=4 ST=2 TYP=3
	245	SGMR	48	C	2212.0	2216.0	5.0	230.0			QL=4 ST=2 TYP=8
	245	PALE	48	C	2214.0	2218.0	8.0	260.0			QL=4 ST=2 TYP=8
	15400	SGMR	8	S	2215.0	2215.0	1.0	23.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	2216.0	2216.0	U	21.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2220.0	2220.0	U	100.0			QL=4 ST=2 TYP=3
11	245	LEAR	43	NS	0347.0	0403.0	135.0	140.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0428.0	0515.0U	204.0	110.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0428.0	0451.0U	1172.0	81.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0428.0	0515.0U	1172.0	110.0			QL=4 ST=1 TYP=1
	127	TORN	44	NS	0630.0E		510.0D		15.0		V=2
	235	CUBA	44	NS	1423.0E		427.0D		24.0		
	245	PALE	43	NS	2227.0	2228.0	155.0	85.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	2317.0	2349.0	57.0	150.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0146.0	0146.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0224.0	0224.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0231.0	0231.0	4.0	60.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0304.0	0304.0	U	58.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0304.0	0304.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0319.0	0319.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0322.0	0322.0	U	95.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0325.0	0325.0	U	66.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0358.0	0358.0	U	80.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0720.0	0720.0	U	58.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0744.0	0744.0	2.0	63.0			QL=4 ST=2 TYP=3
	245	LEAR	4	S/F	0748.0	0750.0	3.0	87.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1101.0	1101.0	U	53.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1106.0	1106.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2152.0	2152.0	U	58.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2156.0	2156.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2201.0	2201.0	U	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2346.0	2346.0	U	59.0			QL=4 ST=2 TYP=3
12	127	TORN	44	NS	0630.0E		510.0D		45.0		V=2
	245	SVTO	43	NS	0644.0	0714.0	165.0	150.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0657.0	0714.0	152.0	150.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1406.0E		226.0D		32.0		
	245	SGMR	43	NS	2101.0	2123.0	25.0	330.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	2117.0	2119.0	9.0	79.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2118.0	1400.0	50.0	280.0			QL=4 ST=2 TYP=1
	245	LEAR	8	S	0025.0	0025.0	U	56.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0117.0	0117.0	U	65.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 2005

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
12	245	LEAR	4	S/F	0206.0	0209.0	4.0	77.0			QL=4 ST=2 TYP=3
	1415	PALE	8	S	0231.0	0231.0	U	81.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0240.0	0240.0	U	86.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0240.0	0240.0	1.0	95.0			QL=4 ST=2 TYP=3
	1415	LEAR	4	S/F	0250.0	0251.0	13.0	100.0			QL=4 ST=2 TYP=3
	610	LEAR	8	S	0257.0	0257.0	2.0	55.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0259.0	0259.0	1.0	57.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0308.0	0313.7	12.0	10.6			
	245	LEAR	8	S	0524.0	0524.0	U	96.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0524.0	0524.0	U	91.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0644.0	0644.0	U	52.0			QL=4 ST=2 TYP=3
	410	LEAR	8	S	0706.0	0706.0	U	54.0			QL=4 ST=2 TYP=3
	2840	PEKG	1	S	0815.0	0817.2	4.0	9.0			
	410	LEAR	8	S	0816.0	0817.0	1.0	250.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0817.0	0817.0	U	210.0			QL=2 ST=2 TYP=3
	33	UPIC	41	F	1020.0	1022.0	46.0				
	245	SGMR	8	S	1053.0	1053.0	U	51.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1924.0	1924.0	U	60.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	2056.0	2056.0	6.0	110.0			QL=4 ST=2 TYP=8
	245	SGMR	8	S	2056.0	2056.0	1.0	92.0			QL=4 ST=2 TYP=3
13	245	LEAR	43	NS	0203.0	0212.0	9.0	65.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0630.0E		510.0D		6.0		V=1
	245	LEAR	8	S	0001.0	0001.0	U	55.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0032.0	0032.0	U	52.0			QL=4 ST=2 TYP=3
	2800	PENT	8	S	0055.0	0059.0	5.7	13.0			
	245	LEAR	8	S	0147.0	0147.0	U	59.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0156.0	0156.0	U	85.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1308.0	1310.0	2.5				UNCERTN
14	127	TORN	43	NS	0654.0		366.0D		9.0		V=1
	245	SVTO	43	NS	1122.0	1255.0	100.0	220.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1254.0	1254.0	45.0	170.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1325.0E		375.0D		21.0		
	245	SGMR	43	NS	2012.0	2037.0	104.0	140.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	2019.0	2037.0	176.0	170.0			QL=4 ST=2 TYP=1
	410	PALE	43	NS	2028.0	2028.0	47.0	65.0			QL=4 ST=2 TYP=1
	2800	HIRA	4	S/F	0057.0	0059.0	3.0	15.0			0
	2804	VORO	4	S/F	0057.5	0058.9	3.2	23.9			
	245	LEAR	8	S	0058.0	0058.0	1.0	100.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0059.0	0059.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0418.0	0418.0	U	78.0			QL=4 ST=2 TYP=3
	2840	PEKG	3	S	0507.0	0513.2	10.0	22.3			
	900	GORK	40	F	0511.4	0514.3	3.3	7.7			
	2950	GORK	4	S/F	0511.6	0513.4	4.2	11.0			
	2804	VORO	4	S/F	0511.7	0513.8	3.3	10.7			
	9100	GORK	4	S/F	0511.8	0513.5	3.5	16.0			
	2800	HIRA	1	S	0512.0	0514.0	3.0	10.0			0
	245	LEAR	8	S	0512.0	0512.0	U	53.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0512.0	0512.0	U	55.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0513.0	0513.5	1.0				
	900	GORK	21	GRF	0645.0	0730.3	166.6	13.0			
	900	GORK	40	F	0645.5	0653.1	17.0	39.0			
	2950	GORK	21	GRF	0648.0	0725.5	201.0	24.0			
	245	LEAR	8	S	0654.0	0654.0	2.0	51.0			QL=4 ST=2 TYP=3
	2800	HIRA	20	GRF	0654.0	0721.0	87.0	30.0			0
	410	LEAR	8	S	0657.0	0657.0	U	51.0			QL=4 ST=2 TYP=3
	900	GORK	46	C	0704.5	0708.5	17.3	39.0			
	900	GORK	46	C	0704.5	0717.6		22.0			
	900	GORK	46	C	0704.5	0720.6		9.8			
	33	UPIC	40	F	0710.0	0711.0	62.0				
	1415	LEAR	8	S	0715.0	0715.0	U	60.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	0715.0	0715.0	3.0	51.0			QL=4 ST=2 TYP=3
	2950	GORK	41	F	0719.6	0721.2		12.0			
	2950	GORK	41	F	0719.6	0720.6	1.8	11.0			
	1415	LEAR	8	S	0721.0	0721.0	U	63.0			QL=4 ST=2 TYP=3
	1415	SVTO	8	S	0721.0	0721.0	U	60.0			QL=4 ST=2 TYP=3
	2950	GORK	2	S/F	0730.0	0730.5	0.8	8.4			
	410	LEAR	8	S	0751.0	0751.0	U	83.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

JUNE 2005

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
14	410	SVTO	8	S	0751.0	0751.0	U	95.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0907.0	0907.0	U	65.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0907.0	0907.0	U	66.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1042.0	1042.0	U	61.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1118.0	1119.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1119.0	1119.0	U	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1139.0	1139.0	U	74.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1213.0	1213.0	U	57.0			QL=4 ST=2 TYP=3
	2800	PENT	8	S	1521.0	1544.0	39.6U	138.0			
	9500	CUBA	20	GRF	1537.0	1549.0	12.0	45.0	23.0		
	2695	SGMR	4	S/F	1541.0	1544.0	12.0	150.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	1541.0	1544.0	499.0	150.0			QL=4 ST=1 TYP=3
	1415	SGMR	4	S/F	1543.0	1544.0	9.0	37.0			QL=4 ST=2 TYP=3
	4995	SVTO	4	S/F	1543.0	1544.0	9.0	130.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1543.0	1544.0	12.0	170.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	1543.0	1544.0	11.0	86.0			QL=4 ST=2 TYP=3
	15400	SGMR	4	S/F	1543.0	1544.0	10.0	81.0			QL=4 ST=2 TYP=3
	1415	SVTO	4	S/F	1543.0	1544.0	10.0	41.0			QL=4 ST=2 TYP=3
	2695	SVTO	4	S/F	1543.0	1544.0	10.0	150.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1543.0	1544.0	17.0	39.0			QL=4 ST=2 TYP=3
	4995	SGMR	4	S/F	1543.0	1544.0	497.0	170.0			QL=4 ST=1 TYP=3
	8800	SGMR	4	S/F	1543.0	1544.0	497.0	86.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	1543.0	1544.0	497.0	81.0			QL=4 ST=1 TYP=3
	2695	SVTO	4	S/F	1543.0	1544.0	497.0	150.0			QL=4 ST=1 TYP=3
	4995	SVTO	4	S/F	1543.0	1544.0	497.0	130.0			QL=4 ST=1 TYP=3
	8800	SVTO	4	S/F	1544.0	1544.0	3.0	60.0			QL=4 ST=2 TYP=3
	15400	SVTO	4	S/F	1544.0	1544.0	6.0	39.0			QL=4 ST=3 TYP=3
	8800	SVTO	4	S/F	1544.0	1544.0	496.0	60.0			QL=4 ST=1 TYP=3
	245	PALE	8	S	1931.0	1932.0	1.0	89.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1931.0	1931.0	U	82.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1935.0	1936.0	1.0	60.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1935.0	1935.0	U	57.0			QL=4 ST=2 TYP=3
	245	PALE	48	C	1941.0	1945.0	5.0	89.0			QL=4 ST=2 TYP=8
	245	SGMR	4	S/F	1941.0	1944.0	4.0	79.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1946.0	1946.0	U	65.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1947.0	1947.0	U	57.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1950.0	1950.0	U	68.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1957.0	1957.0	1.0	390.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2004.0	2004.0	U	64.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2007.0	2007.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2007.0	2007.0	U	61.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2230.0	2230.0	U	66.0			QL=4 ST=2 TYP=3
15	245	PALE	43	NS	0053.0	0152.0	223.0	220.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	0053.0	0140.0	1387.0	100.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0225.0	0239.0	36.0	160.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0225.0	0226.0	1295.0	85.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0225.0	0239.0	1295.0	110.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0225.0	0239.0	1295.0	160.0			QL=4 ST=1 TYP=1
	127	TORN	43	NS	0902.0		148.0		4.0		V=1
	2804	VORO	2	S/F	0341.4	0341.9	2.0	2.8			
	245	SVTO	8	S	0940.0	0940.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1543.0	1543.0	U	110.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1543.0	1543.0	U	91.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1557.0	1557.0	U	66.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1716.0	1718.0	2.0	94.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1716.0	1718.0	2.0	87.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1717.0	1718.0	2.0	100.0			QL=4 ST=2 TYP=3
16	127	TORN	44	NS	0630.0E		510.0D		50.0		V=1
	245	SVTO	43	NS	0858.0	0901.0	40.0	85.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1223.0	1237.0	14.0	54.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1310.0E		450.0D		54.0		
	245	SVTO	43	NS	1320.0	1403.0	43.0	65.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1355.0	1355.0	45.0	55.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1528.0	1533.0	28.0	81.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	1933.0	2218.0	165.0	98.0			QL=4 ST=2 TYP=1
	410	SGMR	43	NS	2141.0	2210.0	29.0	64.0			QL=4 ST=2 TYP=1
	2950	GORK	21	GRF	0803.7	0948.3	110.3D	8.5			

SOLAR RADIO EMISSION
Outstanding Occurrences

JUNE 2005

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
16	900	GORK	21	GRF	0805.5	0851.7	108.5D	9.8			
	2950	GORK	46	C	0811.1	0819.0		4.2			
	2950	GORK	46	C	0811.1	0812.4	11.5	3.2			
	900	GORK	40	F	0813.1	0820.6U	19.1	210.0U			
	9100	GORK	20	GRF	0842.3	0906.0	71.7D	10.0			
	2950	GORK	5	S	0858.5	0901.0	5.2	3.2			
	245	LEAR	8	S	0900.0	0900.0	U	65.0			QL=4 ST=2 TYP=3
	33	UPIC	45	C	0900.5	0901.0	1.0				
	245	LEAR	8	S	0906.0	0906.0	U	51.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0910.0	0910.0	U	52.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1015.0	1015.0	U	51.0			QL=2 ST=2 TYP=3
	245	SGMR	8	S	1320.0E	1320.0	U	59.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1352.0	1352.0	U	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1532.0	1532.0	U	79.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1552.0	1552.0	U	58.0			QL=4 ST=3 TYP=3
	245	PALE	4	S/F	1739.0	1744.0	6.0	64.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1753.0	1753.0	U	53.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1839.0	1839.0	U	79.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	1840.0	1840.0	U	81.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1902.0	1902.0	U	63.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1930.0	1930.0	U	53.0			QL=4 ST=2 TYP=3
	2695	SGMR	4	S/F	2006.0	2010.0	59.0	160.0			QL=4 ST=3 TYP=3
	4995	SGMR	4	S/F	2006.0	2010.0	76.0	400.0			QL=4 ST=3 TYP=3
	2695	SGMR	4	S/F	2006.0	2010.0	234.0	160.0			QL=4 ST=1 TYP=3
	2695	SGMR	4	S/F	2006.0	2010.0	234.0	160.0			QL=4 ST=3 TYP=3
	4995	SGMR	4	S/F	2006.0	2010.0	234.0	400.0			QL=4 ST=1 TYP=3
	4995	SGMR	4	S/F	2006.0	2010.0	234.0	400.0			QL=4 ST=3 TYP=3
	1415	SGMR	4	S/F	2007.0	2010.0	6.0	91.0			QL=4 ST=3 TYP=3
	4995	PALE	4	S/F	2007.0	2010.0	21.0	410.0			QL=4 ST=2 TYP=3
	8800	SGMR	4	S/F	2007.0	2010.0	57.0	210.0			QL=4 ST=3 TYP=3
	4995	PALE	4	S/F	2007.0	2010.0	233.0	410.0			QL=4 ST=1 TYP=3
	1415	SGMR	4	S/F	2007.0	2009.0	233.0	43.0			QL=4 ST=1 TYP=3
	1415	SGMR	4	S/F	2007.0	2010.0	233.0	91.0			QL=4 ST=1 TYP=3
	1415	SGMR	4	S/F	2007.0	2010.0	233.0	91.0			QL=4 ST=3 TYP=3
	8800	SGMR	4	S/F	2007.0	2010.0	233.0	210.0			QL=4 ST=1 TYP=3
	8800	SGMR	4	S/F	2007.0	2010.0	233.0	210.0			QL=4 ST=3 TYP=3
	2695	PALE	4	S/F	2008.0	2011.0	8.0	170.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2008.0	2012.0	4.0	64.0			QL=4 ST=2 TYP=3
	610	SGMR	4	S/F	2008.0	2012.0	4.0	64.0			QL=4 ST=3 TYP=3
	15400	SGMR	4	S/F	2008.0	2010.0	6.0	77.0			QL=4 ST=3 TYP=3
	8800	PALE	4	S/F	2008.0	2010.0	17.0	240.0			QL=4 ST=2 TYP=3
	2695	PALE	4	S/F	2008.0	2011.0	232.0	170.0			QL=4 ST=1 TYP=3
	8800	PALE	4	S/F	2008.0	2010.0	232.0	240.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	2008.0	2010.0	232.0	77.0			QL=4 ST=1 TYP=3
	15400	SGMR	4	S/F	2008.0	2010.0	232.0	77.0			QL=4 ST=3 TYP=3
	15400	PALE	4	S/F	2010.0	2011.0	4.0	110.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2010.0	2011.0	2.0	58.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	2010.0	2011.0	2.0	58.0			QL=4 ST=3 TYP=3
	410	SGMR	4	S/F	2010.0	2015.0	5.0	73.0			QL=4 ST=3 TYP=3
	15400	PALE	4	S/F	2010.0	2011.0	230.0	110.0			QL=4 ST=1 TYP=3
17	245	LEAR	43	NS	0120.0	0555.0	276.0	110.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0120.0	0555.0	1360.0	110.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0121.0	0120.0	10.0	54.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0121.0	0211.0	50.0	160.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0549.0	0556.0	7.0	110.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	0549.0	0552.0	1091.0	77.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0549.0	0554.0	1091.0	99.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	0549.0	0556.0	1091.0	110.0			QL=4 ST=1 TYP=1
	127	TORN	44	NS	0630.0E		510.0D		50.0		V-2
	245	SGMR	43	NS	0929.0	1233.0U	871.0	57.0			QL=4 ST=1 TYP=1
	245	SVTO	43	NS	1232.0	1232.0	19.0	74.0			QL=4 ST=2 TYP=1
	245	PALE	43	NS	1933.0	0030.0	298.0	240.0			QL=4 ST=2 TYP=1
	245	SGMR	43	NS	2105.0	2106.0	1239.0	60.0			QL=4 ST=2 TYP=1
	245	PALE	49	GB	0419.0	0421.0	2.0	860.0			QL=2 ST=2 TYP=6
	2950	GORK	5	S	0549.0	0550.5	2.7	4.1			
	900	GORK	40	F	0550.5	0550.6	0.8	12.0			
	245	SGMR	8	S	1233.0	1233.0	U	57.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	1424.0	1424.0	U	310.0			QL=4 ST=2 TYP=3

S O L A R R A D I O E M I S S I O N
Outstanding Occurrences

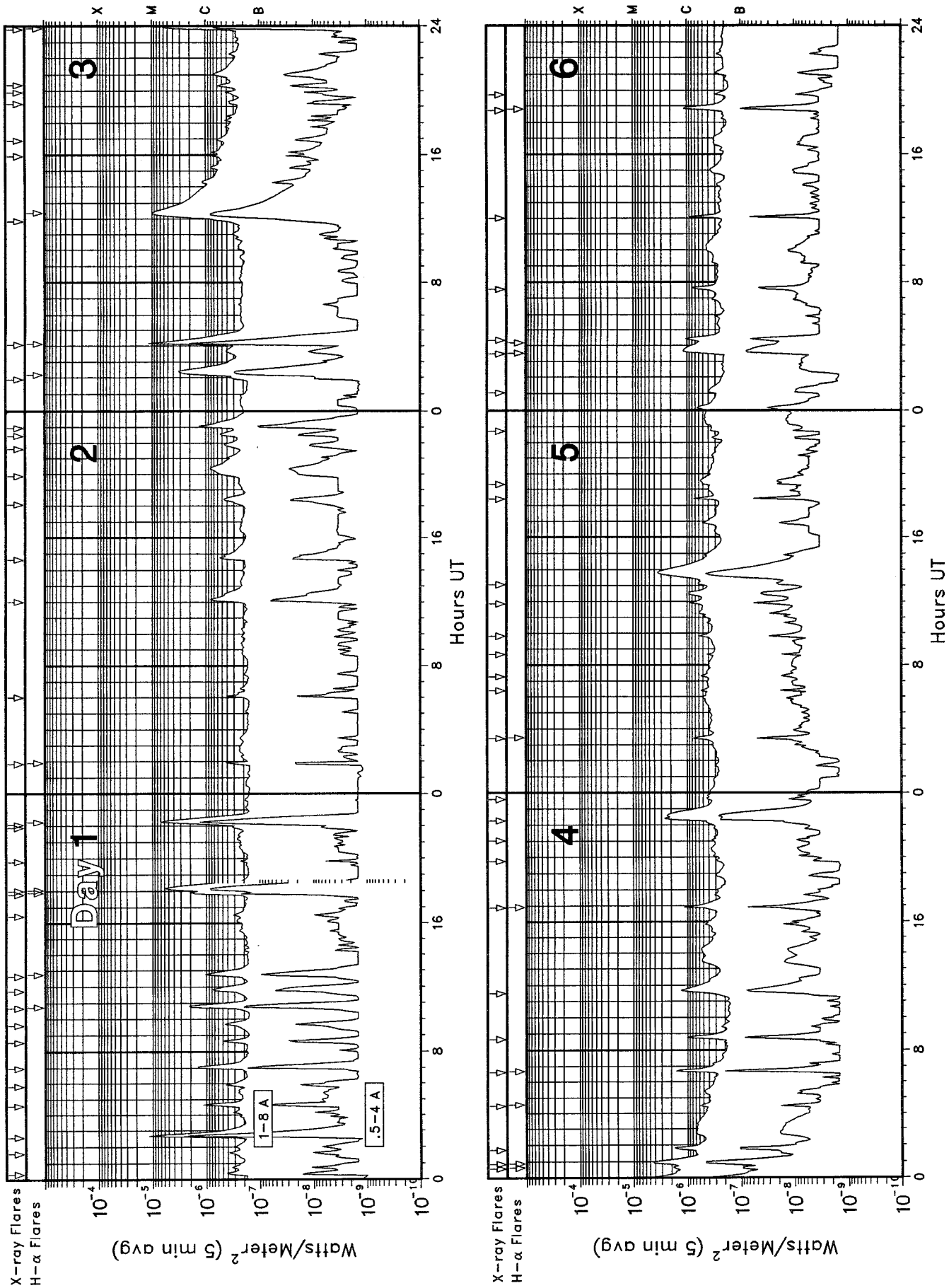
JUNE 2005

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
17	245	SGMR	8	S	1646.0	1646.0	U	470.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2052.0	2052.0	1.0	57.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2052.0	2052.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2058.0	2059.0	1.0	72.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2106.0	2106.0	1.0	64.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	2359.0	2359.0	U	66.0			QL=4 ST=2 TYP=3
18	127	TORN	44	NS	0630.0E		510.0D		60.0		V=2
	245	SGMR	43	NS	1135.0	1209.0	172.0	120.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1209.0	1306.0	77.0	110.0			QL=4 ST=2 TYP=1
	235	CUBA	44	NS	1310.0E		400.0D		47.0		
	245	PALE	8	S	0000.0	0000.0	U	59.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0019.0	0019.0	U	360.0			QL=4 ST=2 TYP=3
	2840	PEKG	5	S	0023.0	0025.0	8.0	17.7			
	245	LEAR	49	GB	0024.0	0024.0	1.0	580.0			QL=4 ST=2 TYP=6
	2804	VORO	2	S/F	0024.4	0025.0	1.4	13.6			
	2800	HIRA	1	S	0025.0	0025.0	1.0	15.0			0
	245	PALE	49	GB	0025.0	0025.0	U	620.0			QL=4 ST=2 TYP=6
	410	PALE	8	S	0025.0	0025.0	U	190.0			QL=4 ST=2 TYP=3
	2804	VORO	29	PBI	0025.7	0029.8	35.0	5.5			
	245	LEAR	8	S	0319.0	0320.0	1.0	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0320.0	0320.0	1.0	100.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	0343.0	0343.0	U	190.0			QL=4 ST=2 TYP=3
	900	GORK	41	F	0447.7	0450.0		6.1			
	900	GORK	41	F	0447.7	0447.8	4.3	11.0			
	2800	HIRA	8	S	0450.0	0450.0	1.0	10.0			0
	2950	GORK	7	C	0450.0	0450.1	0.2	6.1			
	2950	GORK	7	C	0450.0	0450.2		9.1			
	610	LEAR	8	S	0649.0	0649.0	U	110.0			QL=4 ST=2 TYP=3
	610	SVTO	8	S	0649.0	0649.0	1.0	100.0			QL=4 ST=2 TYP=3
	33	UPIC	42	SER	0819.0	0857.5	290.0				
	2950	GORK	7	C	0823.3	0824.0	3.3	9.4			
	2950	GORK	7	C	0823.3	0825.6		3.1			
	245	SVTO	8	S	0827.0	0828.0	1.0	52.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0920.0	0920.0	U	66.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0923.0	0923.0	U	100.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1118.0	1118.0	1.0	55.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	1118.0	1118.0	1.0	78.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1645.0	1645.0	U	77.0			QL=4 ST=3 TYP=3
	33	UPIC	45	C	1650.0	1650.2	1.0				
	245	SGMR	8	S	2157.0	2157.0	U	53.0			QL=4 ST=3 TYP=3
	245	SGMR	8	S	2207.0	2207.0	U	58.0			QL=4 ST=3 TYP=3
	2800	HIRA	1	S	2232.0	2232.0	1.0	15.0			WL
	2840	PEKG	1	S	2307.0	2309.8	5.0	7.9			
	2800	HIRA	1	S	2308.0	2310.0	5.0	10.0			0
	2800	PENT	8	S	2308.0	2309.0	44.6	8.0			
	245	LEAR	8	S	2359.0	2359.0	U	66.0			QL=4 ST=2 TYP=3
19	245	LEAR	43	NS	0048.0	0101.0	232.0	140.0			QL=4 ST=2 TYP=1
	245	LEAR	43	NS	0048.0	0054.0	1392.0	84.0			QL=4 ST=1 TYP=1
	245	LEAR	43	NS	0048.0	0101.0	1392.0	150.0			QL=4 ST=1 TYP=1
	245	PALE	43	NS	0100.0	0101.0	34.0	130.0			QL=4 ST=2 TYP=1
	127	TORN	44	NS	0630.0E		510.0D		50.0		V=2
	245	SVTO	43	NS	1353.0	1355.0	44.0	94.0			QL=4 ST=2 TYP=1
	245	SVTO	43	NS	1353.0	1355.0	607.0	94.0			QL=4 ST=1 TYP=1
	245	SGMR	43	NS	1411.0	1412.0	26.0	110.0			QL=4 ST=3 TYP=1
	245	SGMR	43	NS	1411.0	1412.0	71.0	110.0			QL=4 ST=2 TYP=1
	245	PALE	4	S/F	0052.0	0055.0	3.0	65.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	0247.0	0247.0	U	81.0			QL=4 ST=2 TYP=3
	2950	GORK	7	C	0704.0	0704.3	2.0	7.2			
	2950	GORK	7	C	0704.0	0704.6		4.1			
	2840	PEKG	1	S	0708.0	0710.6	7.0	6.7			
	33	UPIC	45	C	1233.5	1234.0	1.0				
	245	SGMR	8	S	1247.0	1247.0	U	52.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1353.0	1353.0	2.0	77.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1358.0	1358.0	1.0	74.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1406.0	1406.0	U	56.0			QL=4 ST=2 TYP=3
	4995	PALE	8	S	1924.0	1925.0	1.0	63.0			QL=4 ST=2 TYP=3
	4995	SGMR	8	S	1924.0	1924.0	U	53.0			QL=4 ST=2 TYP=3

SOLAR RADIO EMISSION
Outstanding Occurrences

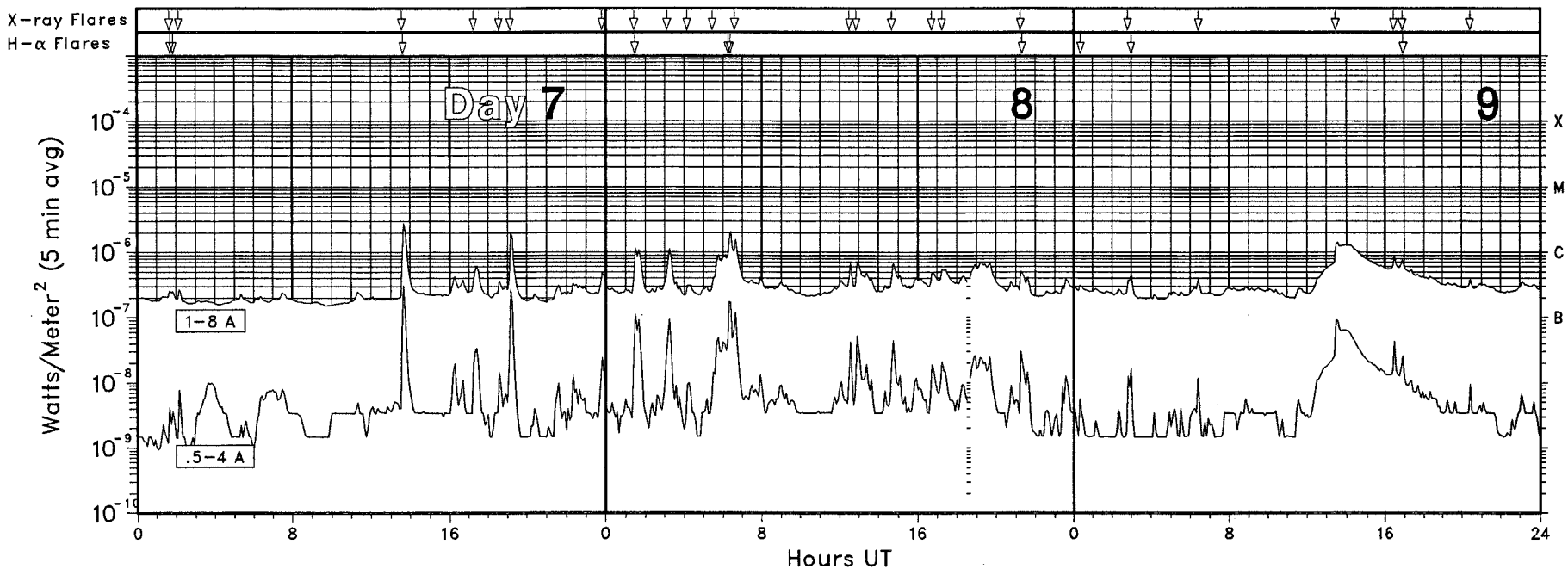
JUNE 2005

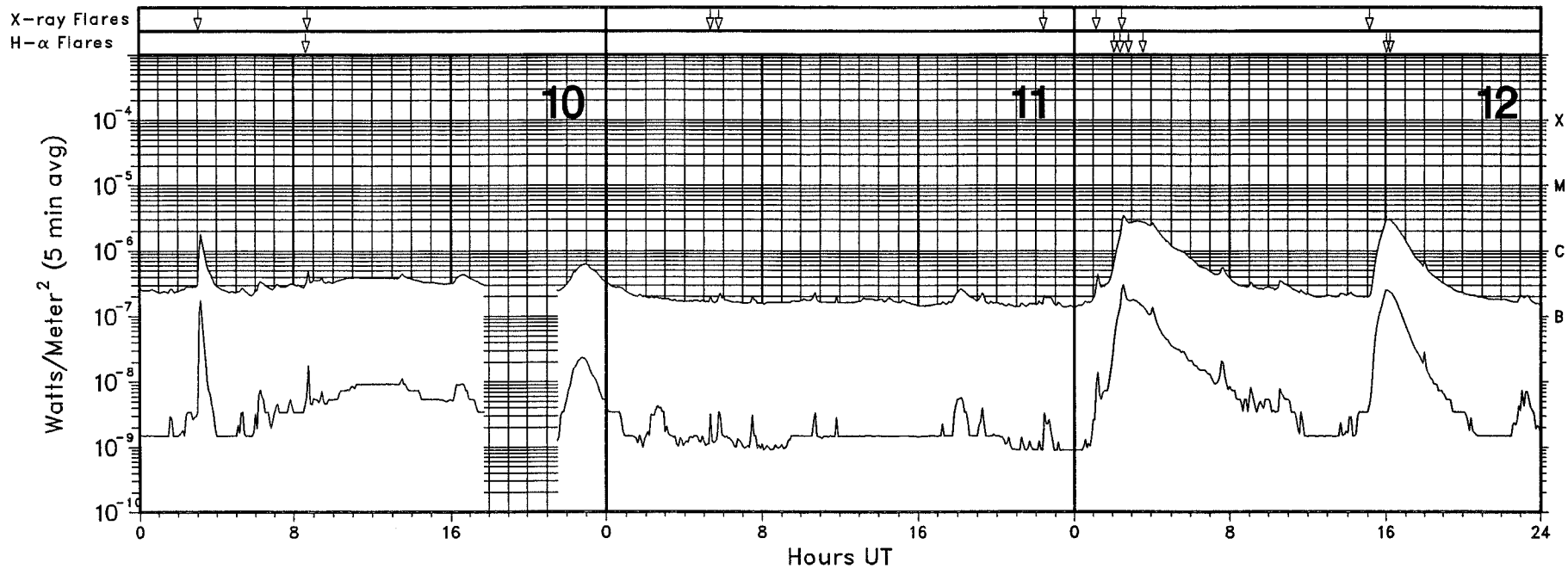
Day	Freq	Sta	Type		Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Flux Density Mean (10 -22 W/m 2 Hz)	Int	Remarks
19	245	PALE	8	S	2051.0	2051.0	U	66.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2051.0	2051.0	U	67.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2239.0	2240.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	2239.0	2239.0	U	100.0			QL=4 ST=2 TYP=3
20	127	TORN	44	NS	0630.0E		510.0D		18.0		V=2
	245	PALE	8	S	0237.0	0237.0	1.0	73.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0334.0	0334.0	U	63.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0457.0	0458.0	2.0	200.0			QL=4 ST=2 TYP=3
	245	SVTO	4	S/F	0457.0	0458.0	3.0	180.0			QL=4 ST=2 TYP=3
	2950	GORK	7	C	0458.6	0500.5		2.8			
	2950	GORK	7	C	0458.6	0458.7	2.2	6.5			
	245	LEAR	8	S	0609.0	0609.0	U	220.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0610.0	0610.0	U	210.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0632.0	0632.0	1.0	430.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0632.0	0632.0	1.0	410.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0656.0	0656.0	U	140.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0656.0	0656.0	U	140.0			QL=4 ST=2 TYP=3
	410	SVTO	8	S	0656.0	0656.0	U	50.0			QL=4 ST=2 TYP=3
	245	LEAR	8	S	0808.0	0808.0	1.0	150.0			QL=4 ST=2 TYP=3
	245	SVTO	8	S	0808.0	0809.0	1.0	150.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1215.0	1217.0	3.0				
	245	SVTO	8	S	1329.0	1330.0	1.0	62.0			QL=4 ST=2 TYP=3
	2800	HIRA	1	S	2238.0	2240.0	5.0	10.0			0
21	2840	PEKG	20	GRF	0040.0	0054.2	25.0	39.1			
	245	SGMR	8	S	1801.0	1802.0	2.0	210.0			QL=4 ST=2 TYP=3
	33	UPIC	46	C	1801.0	1802.0	3.0				
	245	PALE	8	S	1802.0	1802.0	1.0	270.0			QL=4 ST=2 TYP=3
	410	SGMR	8	S	1802.0	1802.0	U	35.0			QL=4 ST=2 TYP=3
	410	PALE	8	S	1803.0	1803.0	U	120.0			QL=4 ST=2 TYP=3
	245	PALE	8	S	2146.0	2146.0	U	62.0			QL=4 ST=2 TYP=3
	2804	VORO	45	C	2238.4	2240.2	5.0	8.1			
22	127	TORN	43	NS	1100.0		240.0		4.0		V=1
	8800	SGMR	8	S	1215.0	1215.0	U	190.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1439.0	1440.0	1.0	110.0			QL=4 ST=2 TYP=3
	245	SGMR	8	S	1506.0	1506.0	U	140.0			QL=4 ST=2 TYP=3
23	33	UPIC	42	SER	1329.5	1342.5	16.5				
25	33	UPIC	45	C	0737.0	0738.0	2.5				
27	2840	PEKG	1	S	0237.0	0240.0	7.0	6.8			
	127	TORN	42	SER	0910.0	0913.8	10.0	60.0			
28	245	PALE	8	S	1720.0	1721.0	1.0	89.0			QL=4 ST=2 TYP=3
29	235	CUBA	44	NS	1310.0E		410.0D		14.0		
	2840	PEKG	1	S	0935.0	0938.8	8.0	8.2			
30	235	CUBA	44	NS	1306.0E		504.0D		13.0		
	245	SVTO	8	S	1543.0	1544.0	1.0	91.0			QL=4 ST=2 TYP=3


GOES X-RAY DETECTOR
June 2005
X-ray Flares
H-α Flares
Watts/Meter² (5 min avg)
1-8 A
.5-4 A
Day 1
2
3
4
5
6
X
M
C
B
Hours UT

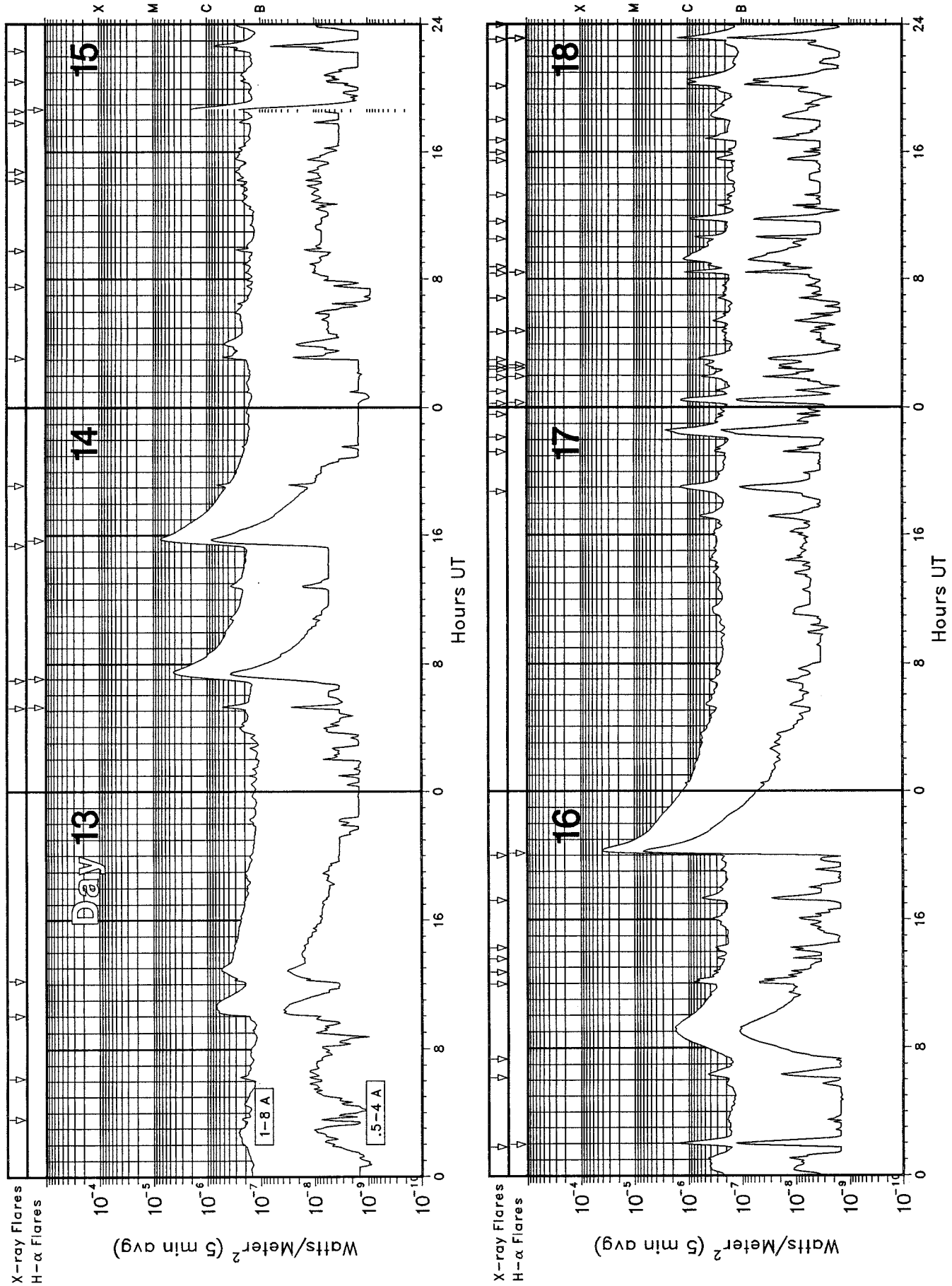
GOES X-RAY DETECTOR

June 2005



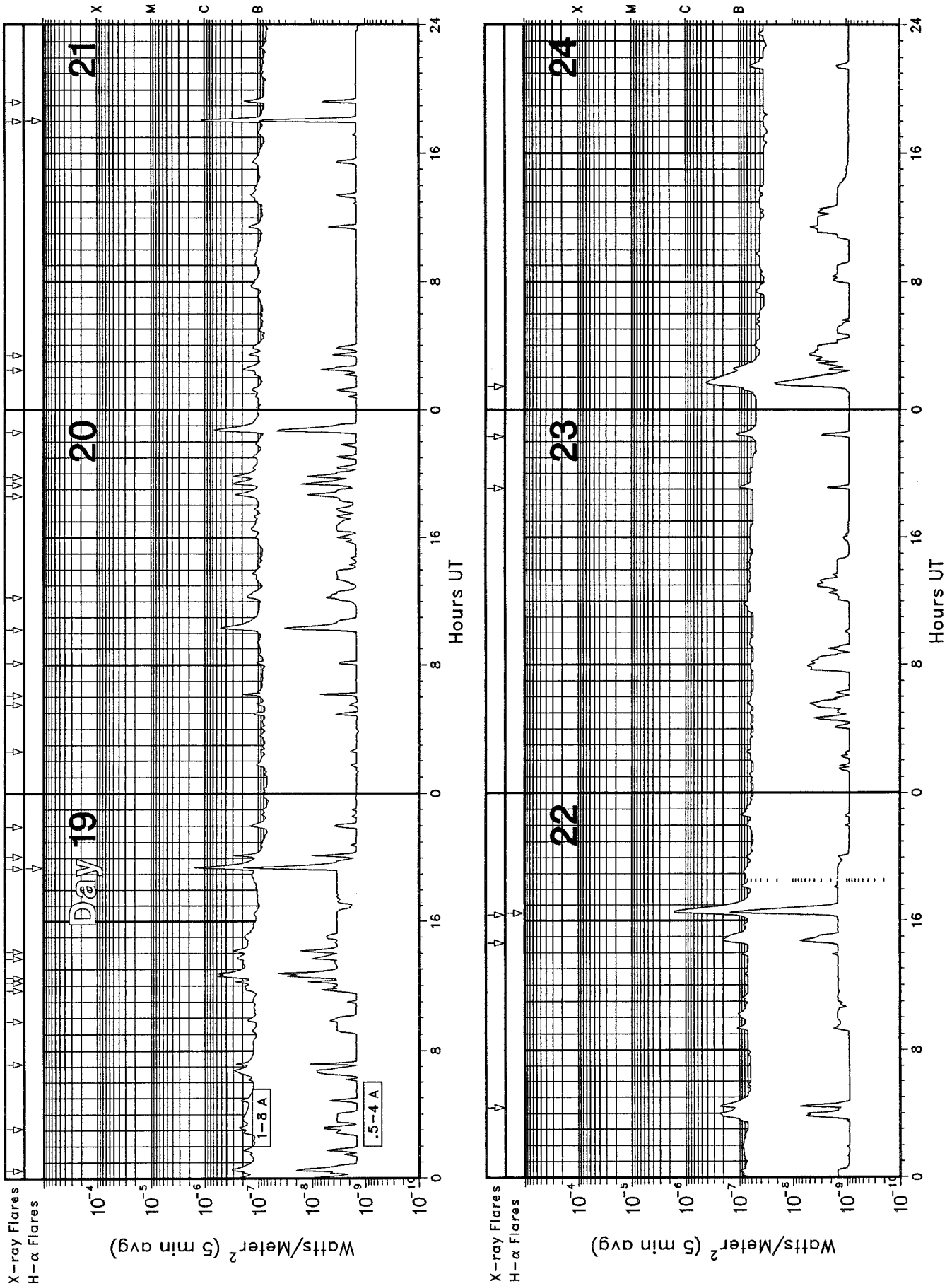


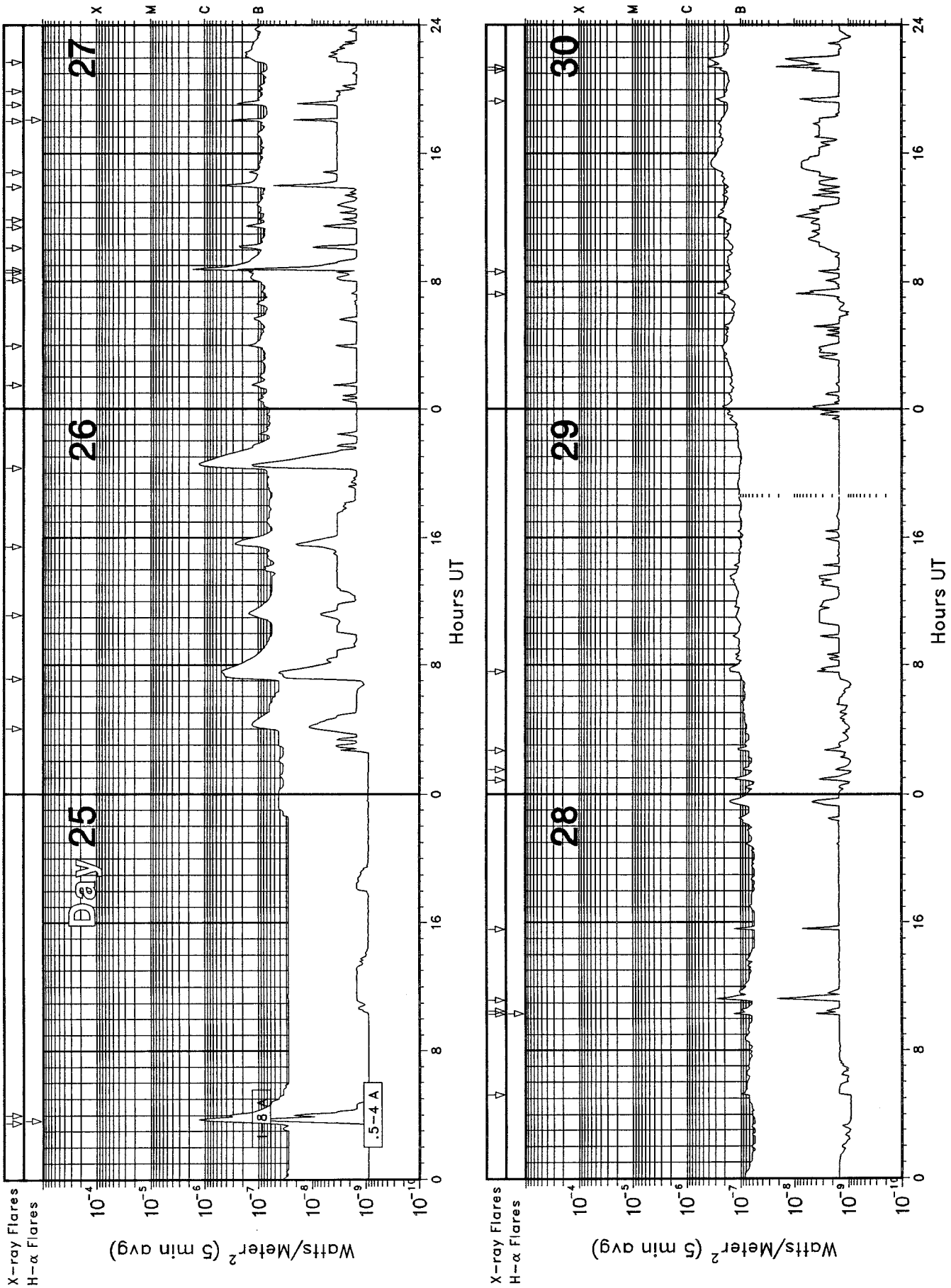
25 Jun 05


GOES X-RAY DETECTOR
June 2005
Day 13
14
15
16
17
18
X
M
C
B
1–8 A
.5–4 A
X-ray Flares
H-α Flares
Watts/Meter² (5 min avg)
Hours UT
0
8
16
24
10⁻⁴
10⁻⁵
10⁻⁶
10⁻⁷
10⁻⁸
10⁻⁹
10⁻¹⁰

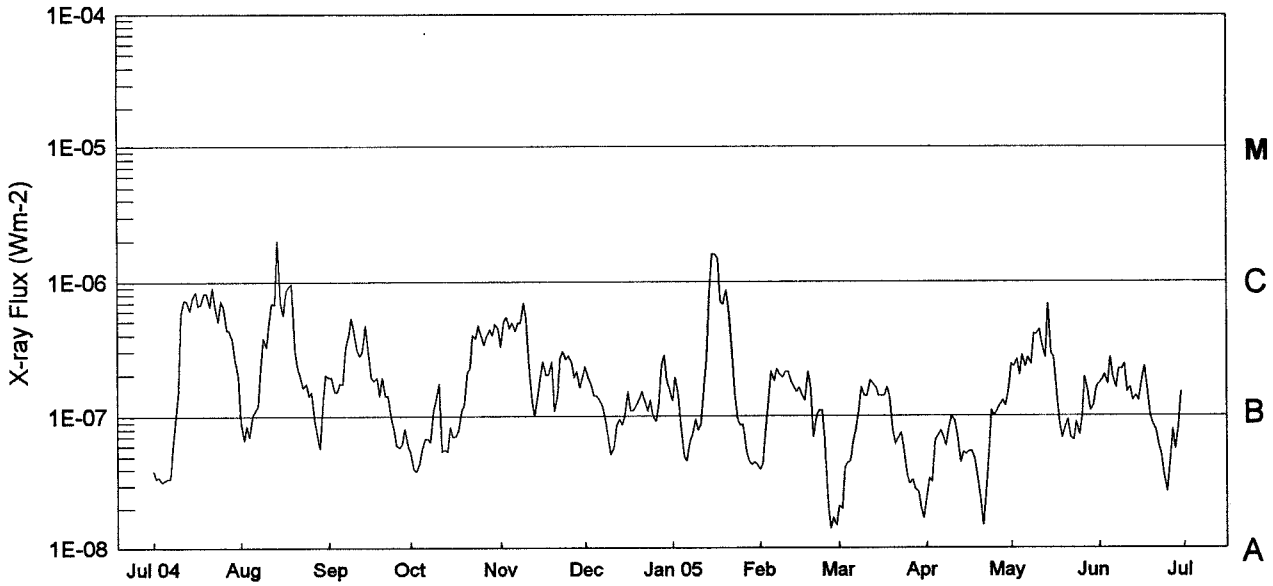
GOES X-RAY DETECTOR

June 2005




GOES X-RAY DETECTOR
June 2005
Day 25
26
27
28
29
30
X
M
C
B
.5–4 A
1–8 A
X-ray Flares
H–α Flares
Watts/Meter² (5 min avg)
Hours UT
0
8
16
24

Preliminary GOES Satellite Daily X-Ray Background
Jul 2004 - Jun 2005



Day	Jul 04	Aug	Sep	Oct	Nov	Dec	Jan 05	Feb	Mar	Apr	May	Jun
1	A3.9	A9.1	B1.9	A4.0	B3.3	B2.3	B1.3	A4.0	A2.1	A2.5	B2.4	B1.7
2	A3.4	A6.6	B1.9	A3.9	B5.1	B1.9	B1.9	A4.5	A2.0	A3.4	B2.3	B1.8
3	A3.5	A8.5	B1.5	A4.5	B5.4	B1.7	B1.4	A7.6	A4.1	A3.2	B2.6	B2.0
4	A3.2	A7.0	B1.5	A5.7	B4.5	B1.4	A8.3	B1.3	A4.5	A6.6	B2.0	B1.7
5	A3.3	B1.0	B1.7	A6.8	B4.9	B1.4	A5.0	B2.1	A4.7	A7.1	B2.8	B2.7
6	A3.4	B1.1	B1.7	A6.8	B4.3	B1.3	A4.7	B1.8	A6.4	A7.8	B2.3	B1.9
7	A3.4	B1.2	B3.2	A6.4	B4.9	B1.2	A6.5	B2.2	A7.8	A6.9	B2.7	B1.6
8	A5.9	B2.3	B4.0	B1.1	B4.9	A9.2	A7.3	B2.0	B1.1	A6.1	B2.4	B2.2
9	B1.0	B3.8	B5.3	B1.3	B7.0	A6.8	A9.5	B1.9	B1.6	A8.5	B4.1	B2.2
10	B1.5	B3.3	B4.3	B1.7	B5.2	A5.2	A7.9	B2.1	B1.4	B1.0	B4.1	B2.4
11	B5.7	B4.9	B3.1	A5.5	B2.1	A5.8	A8.6	B2.1	B1.4	A9.2	B4.4	B1.5
12	B7.3	B6.9	B2.8	A5.6	B1.3	A8.5	B1.6	B1.8	B1.8	A6.9	B3.4	B1.6
13	B7.2	B6.8	B3.0	A5.5	B1.0	A9.5	B2.6	B1.6	B1.7	A4.6	B2.7	B1.3
14	B6.1	C2.0	B4.7	A8.3	B1.4	A8.7	B7.3	B1.5	B1.6	A5.4	B6.8	B1.4
15	B7.5	B7.0	B3.2	A7.0	B1.9	B1.0	C1.6	B1.6	B1.4	A5.3	B2.9	B1.3
16	B8.4	B5.6	B1.9	A7.1	B2.5	B1.5	C1.6	B1.4	B1.4	A5.5	B2.7	B1.8
17	B6.7	B8.7	B1.8	A7.9	B2.0	B1.1	C1.5	B1.3	B1.4	A5.5	B1.4	B2.3
18	B6.8	B9.2	B1.9	B1.1	B2.0	B1.1	B7.1	B2.1	B1.6	A4.8	A8.8	B1.5
19	B8.2	B9.7	B1.4	B1.2	B2.5	B1.2	B6.8	B1.6	B1.4	A3.5	A6.9	B1.0
20	B8.2	B3.2	B1.9	B2.1	B1.1	B1.3	B8.7	A7.0	A7.7	A2.5	A8.4	A8.8
21	B6.5	B2.3	B1.4	B2.2	B1.4	B1.5	B6.2	A9.9	A6.2	A1.5	A9.4	A7.8
22	B9.1	B1.9	B1.4	B4.0	B2.7	B1.3	B3.0	B1.1	A6.9	A2.6	A6.9	A6.1
23	B6.2	B1.6	A9.8	B3.8	B3.0	B1.1	B1.5	B1.1	A7.5	A5.5	A6.6	A5.3
24	B5.0	B1.7	A8.1	B4.7	B2.6	B1.3	A9.3	A6.4	A5.8	B1.1	A9.1	A3.4
25	B7.2	B1.4	A6.1	B3.9	B2.8	B1.0	A8.6	A2.1	A3.7	B1.0	A7.3	A2.7
26	B6.6	B1.5	A5.9	B3.4	B2.5	A9.2	A8.7	A1.4	A3.1	B1.1	A9.9	A4.8
27	B4.4	B1.0	A6.2	B3.9	B1.9	B1.2	A5.6	A1.7	A3.3	B1.2	B1.9	A8.0
28	B4.3	A7.1	A8.1	B4.4	B2.1	B2.4	A4.7	A1.5	A2.8	B1.3	B1.5	A5.7
29	B3.7	A5.8	A6.1	B4.0	B1.6	B2.8	A4.4		A2.7	B1.2	B1.1	A8.6
30	B2.6	B1.3	A5.4	B4.8	B1.9	B1.8	A4.6		A2.0	B1.6	B1.2	B1.5
31	B2.0	B2.0		B4.5		B1.5	A4.4		A1.7		B1.6	

Levels below B1.0 are unreliable.

ACTIVE PROMINENCES AND FILAMENTS

JUNE 2005

Day	Event Type	Start (UT)	End (UT)	Lat	CMD	CMP Mo	CMP Day	Imp	Extent	Blue Shift (.1 A)	Red Shift (.1 A)	Obs Type	Sta	NOAA/ USAF Reg#	Remarks
03	LPS	1332E	1928	N15	E90	06	10.4			8	8	E	HOLL		
07	DSF	0201U	1212U	N24	E22	06	8.8	3	34	0	0	E	HOLL		
07	DSF	0851U	0949U	N33	E38	06	10.4	2	52	0	0	E	SVTO		
08	DSF	0127U	1243U	S09	W54	06	4.0		12	0	0	E	HOLL		
09	EPL	2009	2138	N44	E90	06	17.3	3		6	7	E	HOLL		
18	DSF	0130U	1240U	S27	E10	06	18.8		09	0	0	E	HOLL		
24	DSF	1711U	0348U	S16	W23	06	23.0		08	0	0	E	SVTO	0780	
25	DSF	0028U	1347U	N33	W53	06	20.8		21	0	0	E	HOLL		
25	DSF	0028U	1347U	S26	E47	06	28.7		35	0	0	E	HOLL		
25	DSF	0335U	0349U	S09	W32	06	22.7	3	05	9	9	E	LEAR	0780	Flare Associated
25	DSF	0914U	2341U	S06	E27	06	27.4		19	0	0	E	LEAR		
25	DSF	0924	1402	S10	E31	06	27.7	2	09	0	0	E	SVTO		

ADF = Active Dark Filament
AFS = Arch Filament System
APR = Active Prominence
ASR = Active Surge Region
BSD = Bright Surge on Disk
BSL = Bright Surge on Limb
CAP = CAP Prominence (Tandberg-Hanssen)
CRN = Coronal Rain
DSD = Dark Surge on Disk
DSF = Disappearing Solar Filament
EPL = Eruptive Prominence on Limb
LPS = Loops
MDP = Mound Prominence
SDF/DSF = Sudden Disappearing Filament
SPY = Spray
SSB = Solar Sector Boundary

For SOLAR SECTOR BOUNDARY REPORTS, the latitude field contains the Carrington longitude of the point where a neutral line crosses the solar equator. The comments field may contain the Carrington longitude and central meridian distance of two more intersection points.

The EXTENT field for limb events is the radial extent above the limb in hundredths of solar radius. For disk events this field contains the heliographic extent in whole degrees.

The remark "Bright Emission 1/3" indicates that bright emission was observed 1/3 of time.
The remark "Normal Emission 1/3" indicates that normal emission was observed 1/3 of time.

Observation Type: C= Cinematographic, E= Electronic, P= Photographic, V= Visual.

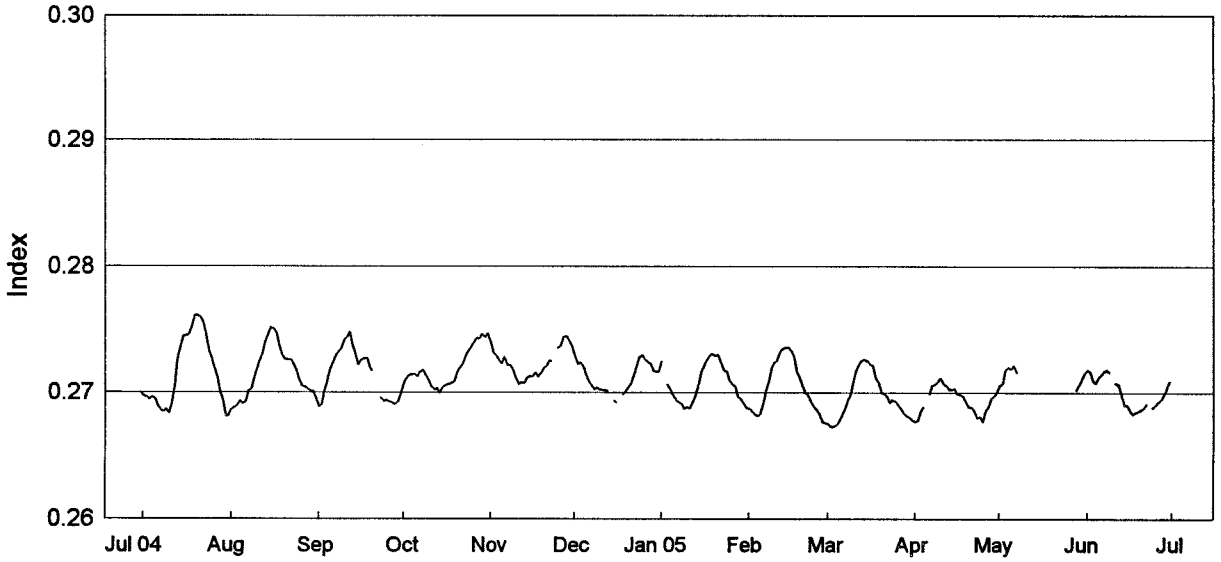
ABST = Abastumani
ATHN = Athens
BUCA = Bucharest
CATA = Catania
HOLL = Holloman
KHAR = Kharkov
LEAR = Learmonth
PALE = Palehua
RAMY = Ramey
SVTO = San Vito
VORO = Voroshilov
VALA = Valasske Mezirici
WROC = Wroclaw

NOTE: The U.S. Air Force solar observing sites (HOLL, LEAR, RAMY, AND SVTO) have changed operational requirements and will only report the following: BSL, EPL, LPS, SPY, and DSF's.

NOAA Solar Ultraviolet (UV) MgII Core-to-Wing Index

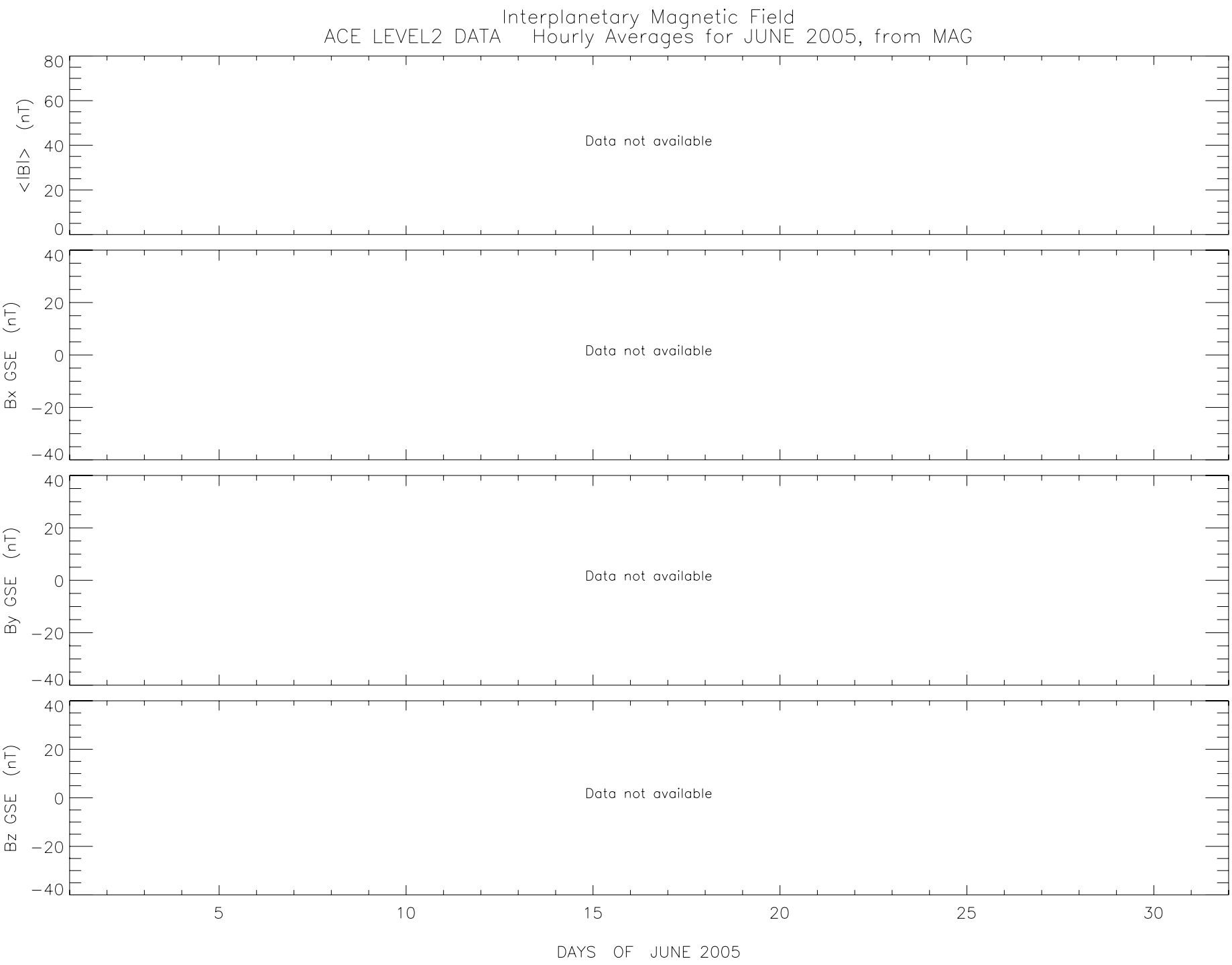
Jul 2004 - Jun 2005

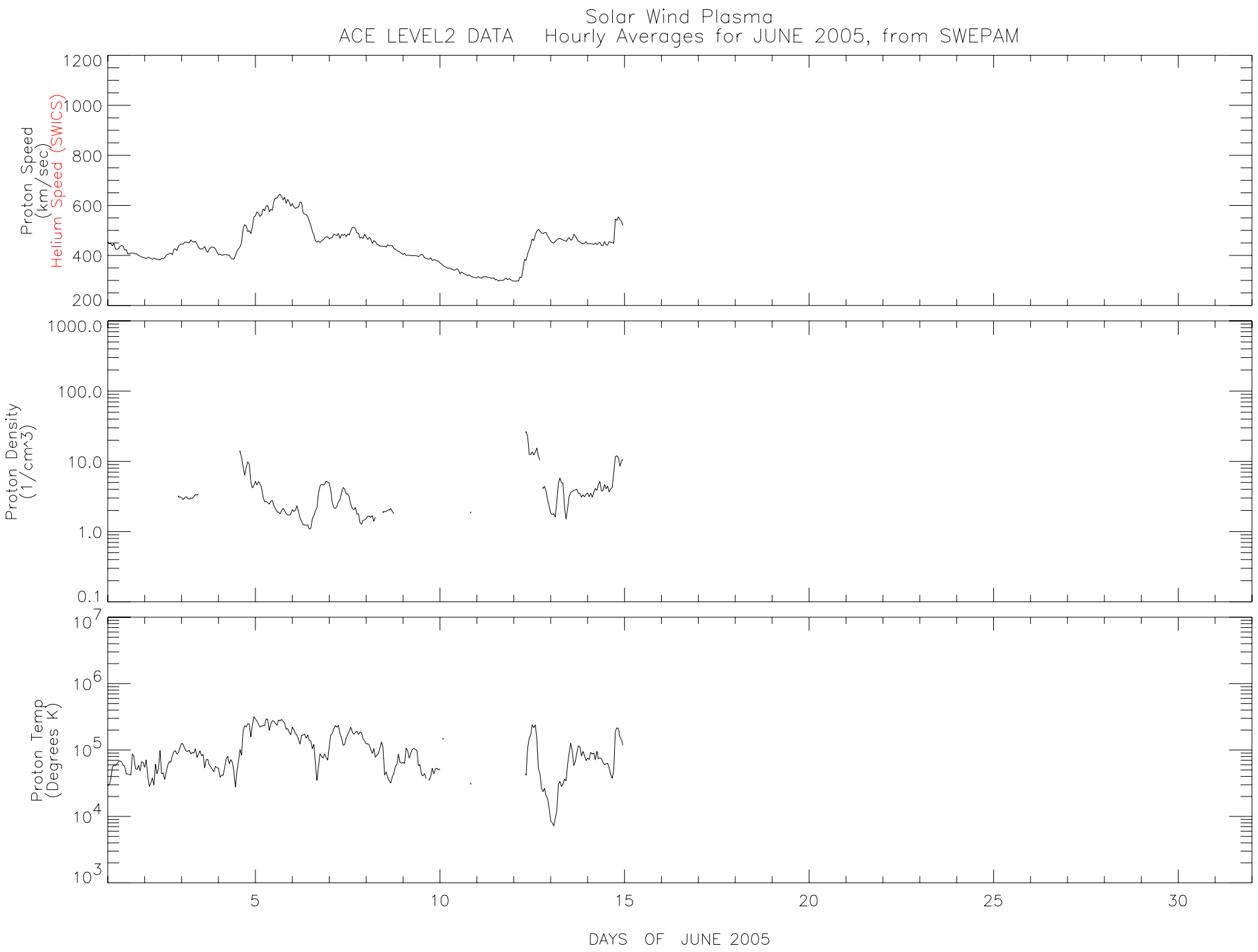
Version 9.1

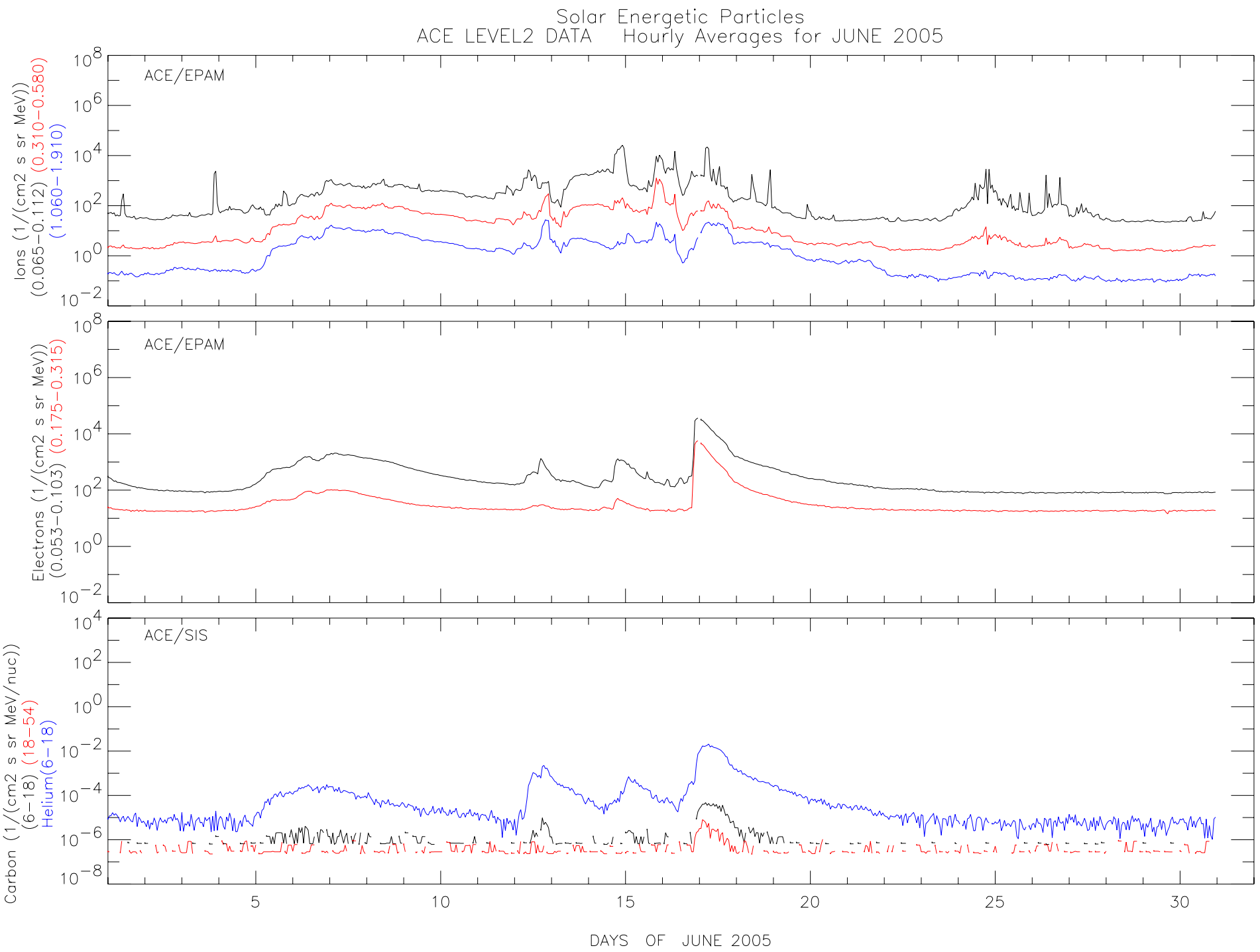


Day	Jul 04	Aug	Sep	Oct	Nov	Dec	Jan 05	Feb	Mar	Apr	May	Jun
1	0.2697	0.2686	0.2689	0.2707	0.2739	0.2729	0.2724	0.2687	0.2675	0.2677	0.2706	0.2718
2	0.2697	0.2688	0.2690	0.2711	0.2731	0.2723	—	0.2685	0.2673	0.2678	0.2707	0.2716
3	0.2695	0.2689	0.2701	0.2713	0.2729	0.2724	0.2707	0.2683	0.2673	0.2685	0.2718	0.2710
4	0.2696	0.2693	0.2709	0.2715	0.2725	0.2720	0.2702	0.2682	0.2674	0.2689	0.2720	0.2708
5	0.2695	0.2691	0.2717	0.2714	0.2722	0.2714	0.2697	0.2683	0.2677	—	0.2719	0.2712
6	0.2689	0.2692	0.2724	0.2712	0.2728	0.2709	0.2694	0.2691	0.2681	0.2699	0.2721	0.2715
7	0.2686	0.2701	0.2728	0.2717	0.2721	0.2705	0.2693	0.2701	0.2687	0.2706	0.2715	0.2717
8	0.2684	0.2703	0.2732	0.2718	0.2721	0.2702	0.2691	0.2709	0.2693	0.2706	—	0.2718
9	0.2686	0.2711	0.2735	0.2713	0.2717	0.2704	0.2687	0.2719	0.2698	0.2709	—	0.2716
10	0.2683	0.2718	0.2742	0.2709	0.2712	0.2702	0.2689	0.2724	0.2708	0.2712	—	—
11	0.2690	0.2724	0.2743	0.2704	0.2707	0.2702	0.2687	0.2725	0.2718	0.2708	—	0.2708
12	0.2706	0.2730	0.2748	0.2702	0.2708	0.2702	0.2692	0.2732	0.2722	0.2706	—	0.2707
13	0.2726	0.2739	0.2737	0.2703	0.2708	0.2701	0.2698	0.2734	0.2725	0.2703	—	0.2699
14	0.2736	0.2746	0.2729	0.2700	0.2712	—	0.2707	0.2736	0.2726	0.2703	—	0.2690
15	0.2745	0.2752	0.2721	0.2705	0.2713	0.2693	0.2716	0.2736	0.2725	0.2703	—	0.2690
16	0.2745	0.2750	0.2725	0.2706	0.2712	0.2692	0.2722	0.2732	0.2723	0.2700	—	0.2686
17	0.2746	0.2747	0.2727	0.2707	0.2715	—	0.2726	0.2728	0.2721	0.2699	—	0.2683
18	0.2752	0.2737	0.2726	0.2708	0.2712	0.2698	0.2728	0.2717	0.2712	0.2697	—	0.2685
19	0.2761	0.2728	0.2719	0.2709	0.2716	0.2700	0.2731	0.2712	0.2708	0.2692	—	0.2685
20	0.2761	0.2726	0.2717	0.2715	0.2719	0.2704	0.2729	0.2706	0.2701	0.2689	—	0.2687
21	0.2760	0.2726	—	0.2719	0.2721	0.2707	0.2729	0.2701	0.2699	0.2689	—	0.2688
22	0.2756	0.2726	—	0.2722	0.2725	0.2714	0.2723	0.2698	0.2697	0.2685	—	0.2691
23	0.2747	0.2722	0.2695	0.2727	0.2724	0.2720	0.2718	0.2693	0.2692	0.2680	—	—
24	0.2733	0.2717	0.2693	0.2732	—	0.2727	0.2716	0.2689	0.2694	0.2681	—	0.2688
25	0.2727	0.2710	0.2694	0.2736	0.2735	0.2729	0.2710	0.2686	0.2693	0.2677	—	0.2690
26	0.2719	0.2706	0.2692	0.2739	0.2737	0.2726	0.2707	0.2684	0.2690	0.2685	—	0.2692
27	0.2712	0.2705	0.2692	0.2743	0.2744	0.2724	0.2705	0.2677	0.2687	0.2689	—	0.2694
28	0.2701	0.2704	0.2690	0.2743	0.2745	0.2723	0.2697	0.2676	0.2684	0.2695	0.2702	0.2698
29	0.2692	0.2702	0.2693	0.2746	0.2741	0.2717	0.2695		0.2682	0.2697	0.2706	0.2702
30	0.2681	0.2701	0.2699	0.2744	0.2736	0.2716	0.2691		0.2680	0.2700	0.2710	0.2709
31	0.2681	0.2694		0.2747		0.2716	0.2689		0.2678		0.2715	
Mean	0.2716	0.2715	0.2715	0.2719	0.2723	0.2723	0.2707	0.2707	0.2697	0.2694	0.2712	0.2700

Data at: http://www.sec.noaa.gov/ftpmenu/sbuv.html


Interplanetary Magnetic Field
ACE LEVEL2 DATA Hourly Averages for JUNE 2005, from MAG
<|B|> (nT)
Data not available
Bx GSE (nT)
Data not available
By GSE (nT)
Data not available
Bz GSE (nT)
Data not available
80
60
40
20
0
40
20
0
−20
−40
5
10
15
20
25
30
DAYS OF JUNE 2005


Solar Wind Plasma
ACE LEVEL2 DATA Hourly Averages for JUNE 2005, from SWEPAM
Proton Speed (km/sec)
Helium Speed (SWICS)
1200
1000
800
600
400
200
Proton Density (1/cm^3)
1000.0
100.0
10.0
1.0
0.1
Proton Temp (Degrees K)
10^7
10^6
10^5
10^4
10^3
5
10
15
20
25
30
DAYS OF JUNE 2005


Solar Energetic Particles
ACE LEVEL2 DATA Hourly Averages for JUNE 2005
ACE/EPAM
Ions (1/(cm2 s sr MeV))
(0.065–0.112) (0.310–0.580)
(1.060–1.910)
ACE/EPAM
Electrons (1/(cm2 s sr MeV))
(0.053–0.103) (0.175–0.315)
ACE/SIS
Carbon (1/(cm2 s sr MeV/nuc))
(6–18) (18–54)
Helium(6–18)
DAYS OF JUNE 2005

SOLAR CORONAL MASS EJECTIONS (CMEs)
FROM SOHO/LASCO

http://cdaw.gsfc.nasa.gov/

Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA

JUNE 2005

First C2 Appearance		Central Position	Width Angular	Linear Fit	----2nd order speed-----			Accel	Measurement Position	Remarks
Date	Time UT	Angle degree	Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s^2	Angle degree	
2005/06/01	03:32:11	96	123	453	506	408	396	-4.5*	105	Partial Halo
2005/06/01	10:32:09	84	83	263	123	408	553	15.3*	85	
2005/06/01	11:32:09	105	81	360	324	397	385	1.8	99	
2005/06/02	00:32:10	84	71	275	228	320	432	6.4	83	
2005/06/02	02:32:10	87	48	229	185	274	580	12.4*	99	3 points/Only C2
2005/06/02	13:32:10	273	4	385	403	366	216	-4.8*	275	Only 3 points
2005/06/02	13:32:10	100	68	256	181	325	495	9.3	115	
2005/06/02	14:32:10	264	86	188	0	486	497	11.8*	259	
2005/06/02	19:32:09	115	38	223	204	240	350	3.3*	119	Only C2
2005/06/03	01:32:09	112	12	285	269	299	311	1.1*	109	
2005/06/03	03:32:09	126	128	247	222	272	308	1.9*	148	Partial Halo
2005/06/03	11:32:09	76	30	----	----	----	----	-------	77	1 point/Only C2
2005/06/03	12:32:10	Halo	360	1679	1848	1503	1576	-45.3*	72	
2005/06/03	19:32:09	57	37	567	495	643	614	5.7	76	
2005/06/04	01:32:08	173	76	273	300	245	80	-3.6*	158	
2005/06/04	10:32:10	166	33	129	----	----	----	-------	165	Only C2
2005/06/04	10:32:10	69	41	286	151	422	948	37.6*	71	3 points/Only C2
2005/06/04	14:32:10	259	89	342	445	233	249	-5.8	263	
2005/06/04	18:32:09	261	82	160	156	164	172	0.2*	267	
2005/06/05	00:32:41	101	37	558	450	665	640	12.0	102	Only C3
2005/06/05	01:32:08	59	24	165	93	240	418	6.9*	59	
2005/06/05	06:32:10	84	19	477	567	386	0	-24.0*	83	Only 3 points
2005/06/05	12:32:10	76	18	584	732	428	0	-40.4*	78	
2005/06/05	14:32:05	111	54	422	391	454	443	1.9	114	
2005/06/05	17:32:08	229	54	272	142	404	818	27.6*	230	Only C2
2005/06/06	05:06:05	97	47	252	289	213	0	-8.7*	96	Only C2
2005/06/06	19:48:16	172	41	187	----	----	----	-------	173	3 points, Only C2
2005/06/07	02:00:05	64	14	483	343	624	1289	64.0*	64	Only C2
2005/06/07	02:24:05	84	27	554	535	575	604	3.2*	85	
2005/06/07	10:24:05	65	77	345	147	585	514	10.0	68	
2005/06/08	02:00:05	50	7	544	310	782	1980	163.3*	54	Only C2
2005/06/08	07:48:05	224	>195	179	73	296	384	5.9*	291	Partial Halo
2005/06/08	11:48:05	61	17	351	----	----	----	-------	62	
2005/06/08	17:48:05	63	11	282	179	395	534	10.4*	60	
2005/06/09	02:24:06	236	53	841	951	719	699	-17.5	236	
2005/06/09	05:12:06	298	38	502	534	470	0	-21.3*	292	Only C2
2005/06/09	06:12:05	142	84	190	----	----	----	-------	134	Only C2
2005/06/09	14:36:05	57	45	356	----	----	----	-------	52	Only C2
2005/06/09	14:36:05	260	125	377	----	----	----	-------	267	Partial Halo
2005/06/09	17:00:06	70	94	461	----	----	----	-------	67	
2005/06/10	09:00:06	232	28	234	125	349	371	5.1*	232	
2005/06/10	19:36:07	238	31	482	552	396	446	-4.6*	231	
2005/06/11	16:36:05	244	22	338	----	----	----	-------	246	
2005/06/11	22:00:05	113	34	170	164	176	274	2.0*	115	Only C2
2005/06/12	01:12:06	110	29	100	----	----	----	-------	113	
2005/06/12	02:36:05	277	>156	590	607	571	575	-1.6	275	Partial Halo

SOLAR CORONAL MASS EJECTIONS (CMEs)
FROM SOHO/LASCO
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Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA
JUNE 2005

First C2 Appearance		Central Position	Width Angular	Linear Fit	----2nd order speed-----			Accel	Measurement Position	Remarks
Date	Time UT	Angle degree	Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s^2	Angle degree	
2005/06/12	09:00:05	115	29	187	----	----	----	-------	110	Only C2
2005/06/12	16:00:06	276	108	641	733	537	568	-8.9	288	
2005/06/12	23:24:06	279	39	326	----	----	----	-------	279	
2005/06/13	03:24:05	297	27	583	519	644	958	27.0*	296	
2005/06/13	13:00:05	287	51	526	560	486	496	-2.8	292	
2005/06/13	19:00:05	106	71	410	516	295	153	-9.9	101	
2005/06/14	07:24:05	Halo	360	791	879	692	734	-9.7	265	
2005/06/14	13:24:05	241	33	486	426	549	746	15.4*	244	
2005/06/14	16:00:05	289	73	----	----	----	----	-------	300	1 point, Only C2
2005/06/15	02:00:05	248	17	387	----	----	----	-------	246	2 points, Only C2
2005/06/16	08:36:05	277	54	702	740	661	670	-4.0	286	
2005/06/16	13:36:05	271	85	424	547	297	0	-67.0*	273	
2005/06/18	18:21:46	75	55	648	620	676	658	2.6	76	Only C3
2005/06/18	18:48:05	239	20	438	448	428	425	-0.9*	240	
2005/06/18	20:12:06	81	55	505	582	418	436	-6.4*	77	
2005/06/18	23:24:05	86	52	639	656	622	619	-1.9	78	
2005/06/19	00:48:06	79	39	401	428	372	340	-2.8	74	
2005/06/19	02:36:05	103	87	324	16	620	547	12.2*	98	
2005/06/19	09:36:06	285	25	388	----	----	----	-------	283	
2005/06/19	12:00:05	273	61	637	611	667	658	2.5	287	
2005/06/19	13:12:05	84	35	416	485	345	0	-12.9*	93	
2005/06/19	20:48:05	89	29	390	283	488	968	35.6*	88	Only C2
2005/06/19	23:24:06	115	29	389	----	----	----	-------	113	
2005/06/20	03:36:05	278	103	614	473	779	706	11.3	274	
2005/06/20	11:12:05	264	25	339	316	365	372	1.6*	269	
2005/06/21	05:12:05	272	63	469	496	441	367	-4.7*	288	
2005/06/21	16:48:05	302	62	238	----	----	----	-------	310	Only C2
2005/06/22	01:36:05	283	21	157	----	----	----	-------	285	Only C2
2005/06/22	05:36:07	270	78	358	----	----	----	-------	254	
2005/06/22	17:24:05	274	26	290	----	----	----	-------	275	
2005/06/23	07:36:06	264	14	435	----	----	----	-------	265	
2005/06/24	19:53:17	331	22	564	----	----	----	-------	325	3 points, Only C2
2005/06/24	20:54:26	78	89	249	268	227	195	-1.5	78	
2005/06/25	01:01:21	300	28	240	265	216	144	-2.6*	287	
2005/06/25	06:54:05	61	28	287	254	322	528	9.0*	64	
2005/06/25	08:06:05	Halo	360	852	793	910	914	8.9*	127	
2005/06/25	10:34:01	70	96	201	165	243	235	1.2*	70	
2005/06/26	07:54:05	Halo	360	454	673	205	0	-21.7*	94	
2005/06/26	14:30:05	76	14	506	571	442	322	-9.4*	80	
2005/06/26	17:06:05	70	26	238	239	237	230	-0.2*	71	
2005/06/27	05:30:05	76	75	554	536	574	565	1.3	86	
2005/06/27	12:54:06	346	104	112	0	214	258	2.7*	345	

SOLAR CORONAL MASS EJECTIONS (CMEs)
FROM SOHO/LASCO

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Center for Solar Physics and Space Weather (CSPSW) – The Catholic University of America/NRL/NASA

JUNE 2005

First C2 Appearance		Central Position	Width Angular	Linear Fit	----2nd order speed-----			Accel	Measurement Position	Remarks
Date	Time UT	Angle degree	Width degree	Speed km/s	Initial km/s	Final km/s	20R km/s	m/s^2	Angle degree	
2005/06/28	07:31:45	109	23	268	314	223	0	-18.1*	113	Only C2
2005/06/28	17:06:05	Halo	360	1303	1660	934	1138	-63.1	133	
2005/06/28	20:06:05	97	68	519	453	587	613	7.0*	70	
2005/06/28	23:30:05	289	58	220	61	397	339	4.6*	301	
2005/06/29	07:31:46	83	49	347	368	324	336	-1.0*	76	
2005/06/29	17:30:05	305	23	282	----	----	----	-------	305	Only C2
2005/06/29	22:30:05	294	34	377	----	----	----	-------	296	
2005/06/30	01:54:05	79	18	226	200	255	377	4.3*	78	
2005/06/30	03:30:05	278	12	447	----	----	----	-------	283	
2005/06/30	08:30:05	209	6	360	287	441	1346	71.6*	212	3 points, Only C2
2005/06/30	12:06:05	242	16	282	----	----	----	-------	246	
2005/06/30	15:30:05	77	45	476	463	491	487	0.9	84	
2005/06/30	15:30:05	166	84	231	201	262	303	2.2*	177	

If you use data from this catalog, please acknowledge as follows:
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CME heights are measured at the fastest segment of the leading edge
PA= Postion Angle measured from Solar North in degrees (Counter clockwise)
ONLINE -- Click on date to view java script movies
ONLINE -- Click on time to see height-time digital files
ONLINE -- Click on speed to view height-time plot
Numbers in 2nd order fit columns correspond to the speed at the last height of measurement and at a distance of 20 solar radii.