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**NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE**

Thomas N. Pyke, Jr., Assistant Administrator

OCTOBER 1991 NUMBER 566 - Part I

# **Solar-Geophysical Data prompt reports**

Data for September, August 1991 and Late Data

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**NATIONAL GEOPHYSICAL DATA CENTER**

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Boulder, Colorado

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

NUMBER 566

(Issued in Two Parts)

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The entry "560A 70" under Feb 1991, for example, means that the sunspot drawings for Feb 1991 appear in SOLAR-GEOPHYSICAL DATA No. 560, Part I, and that they begin on page 70. "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

Prompt Reports

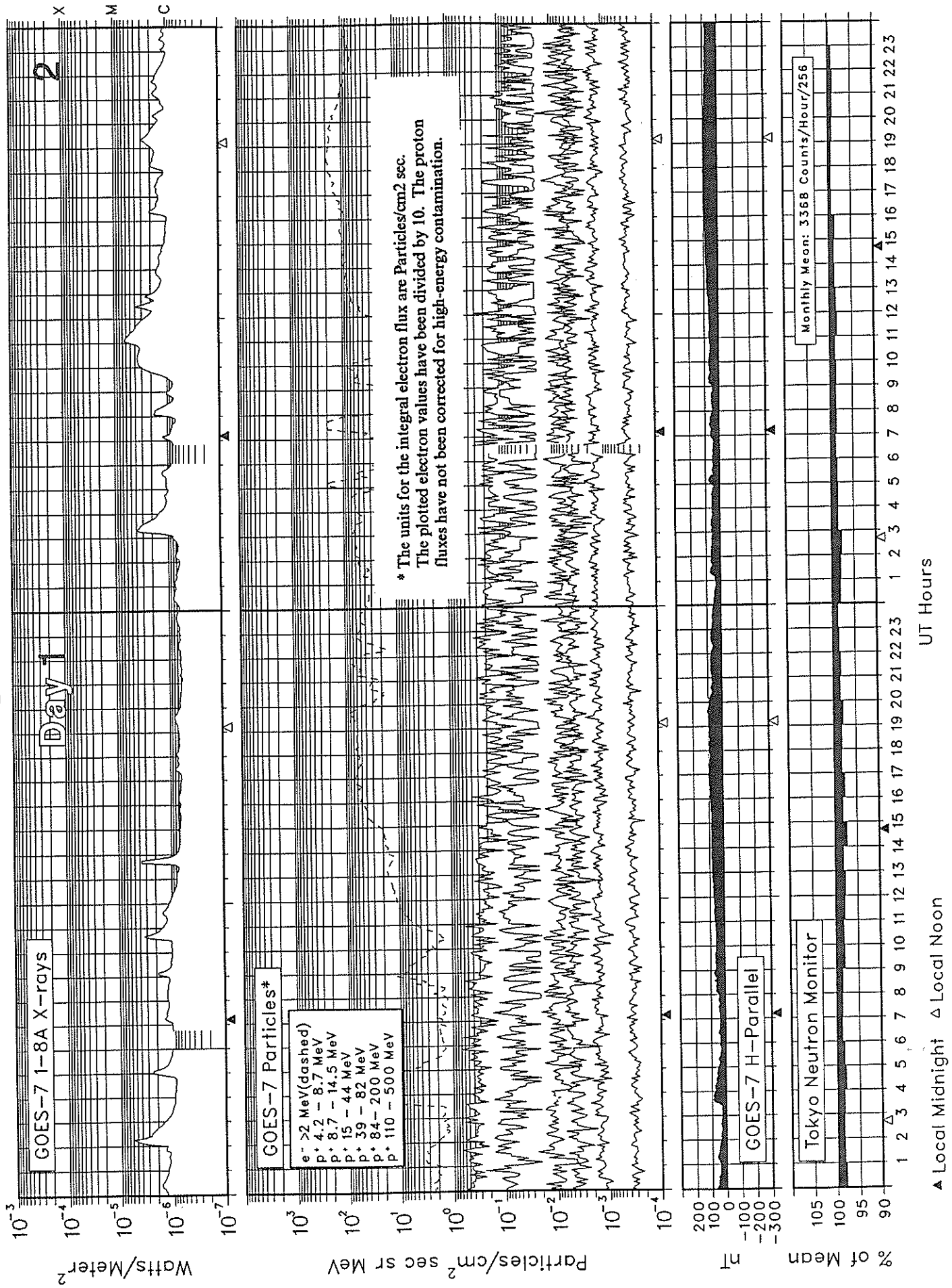
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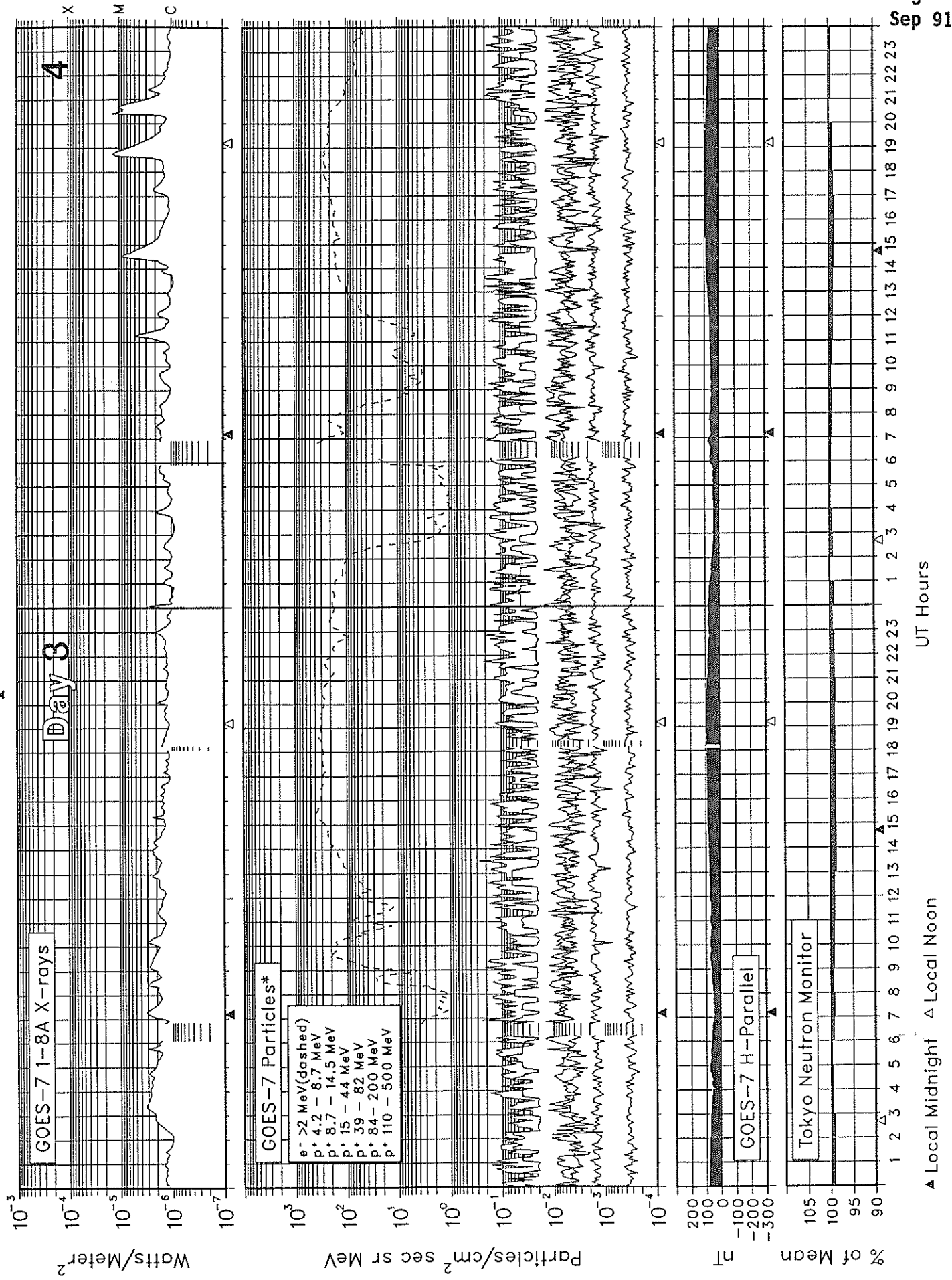
# SOLAR-TERRESTRIAL ENVIRONMENT

## September 1991



# SOLAR-TERRESTRIAL ENVIRONMENT

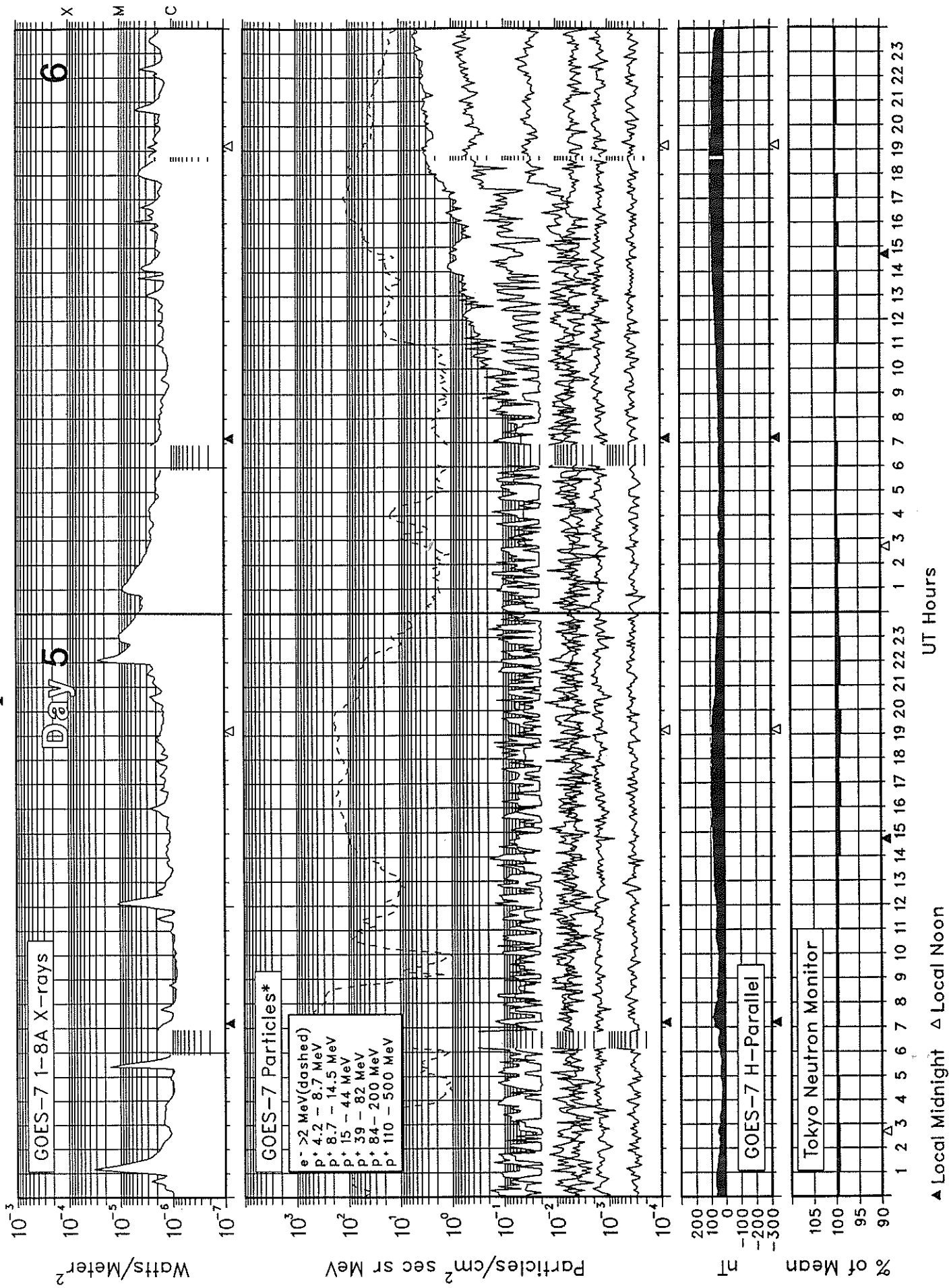
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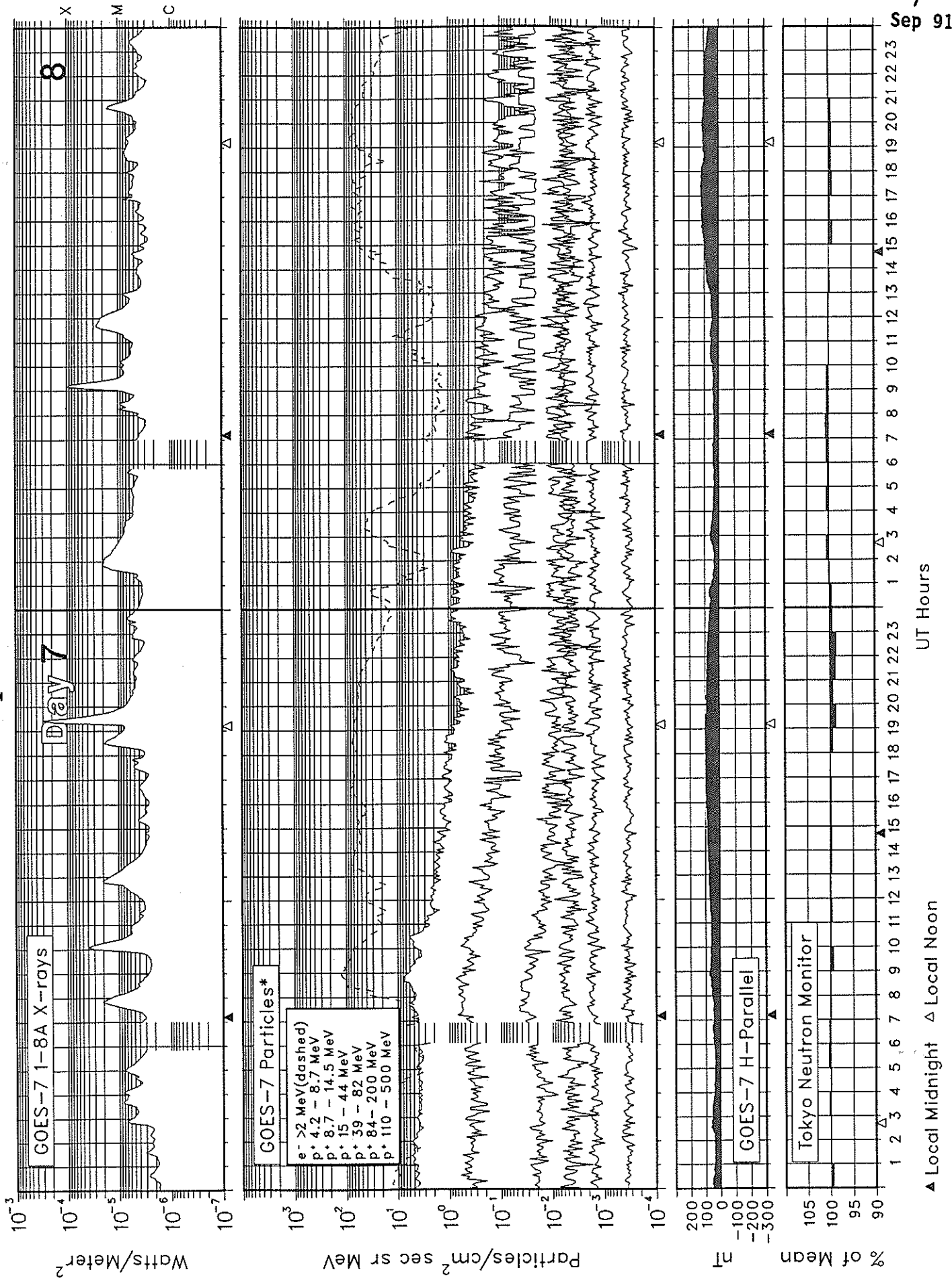
## September 1991

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Sep 91



# SOLAR-TERRESTRIAL ENVIRONMENT

## September 1991

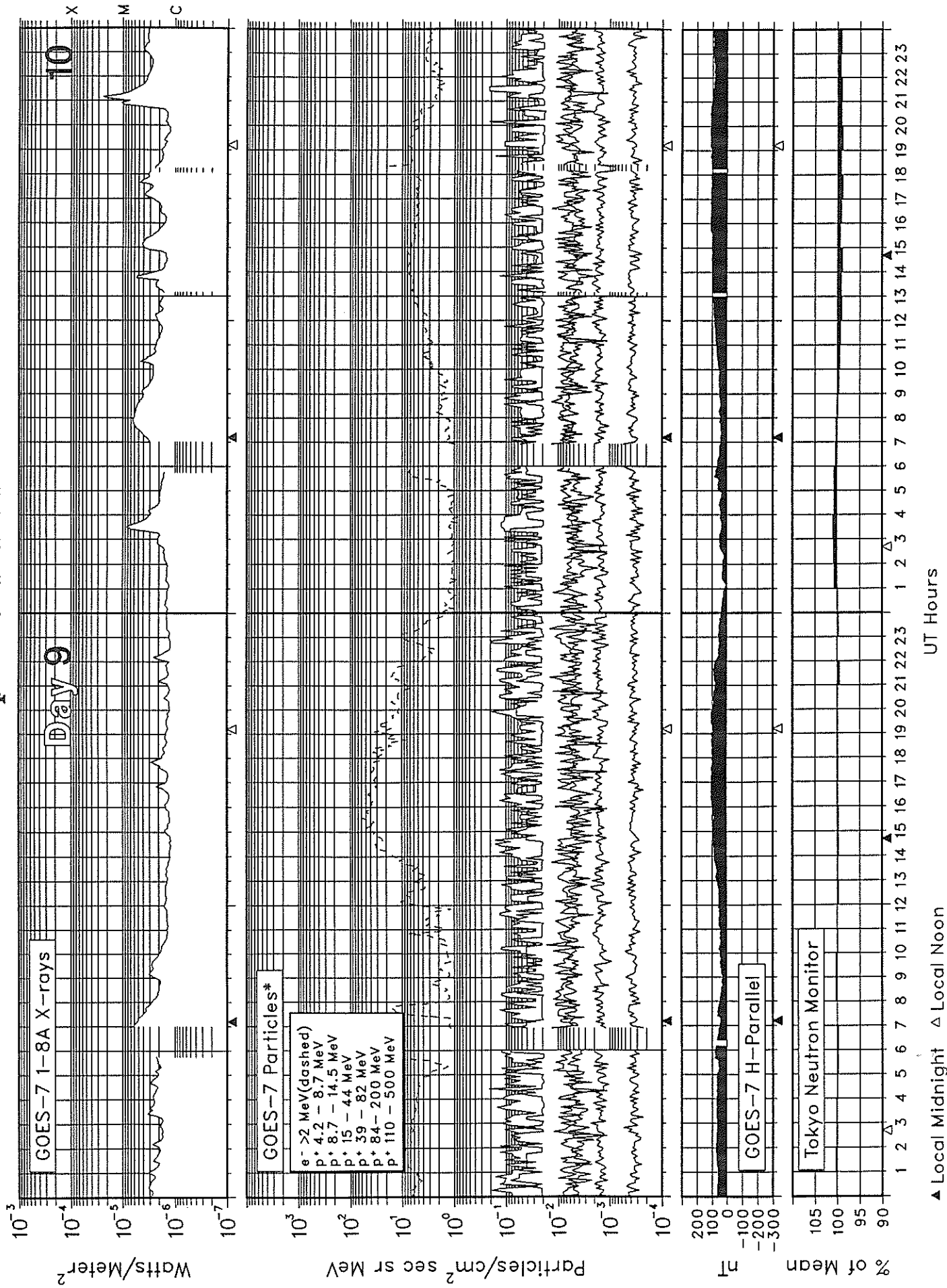




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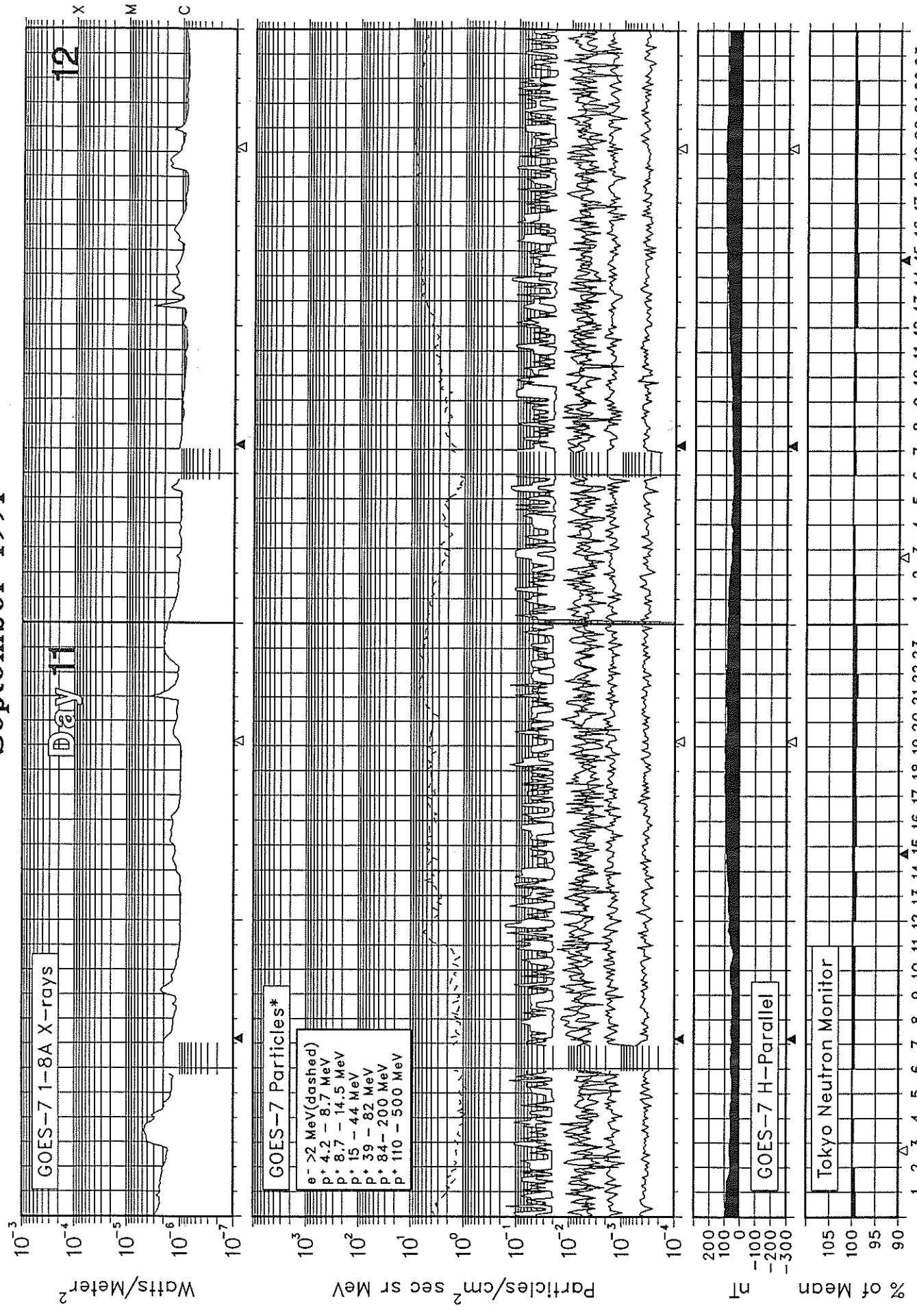
September 1991

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Sep 91



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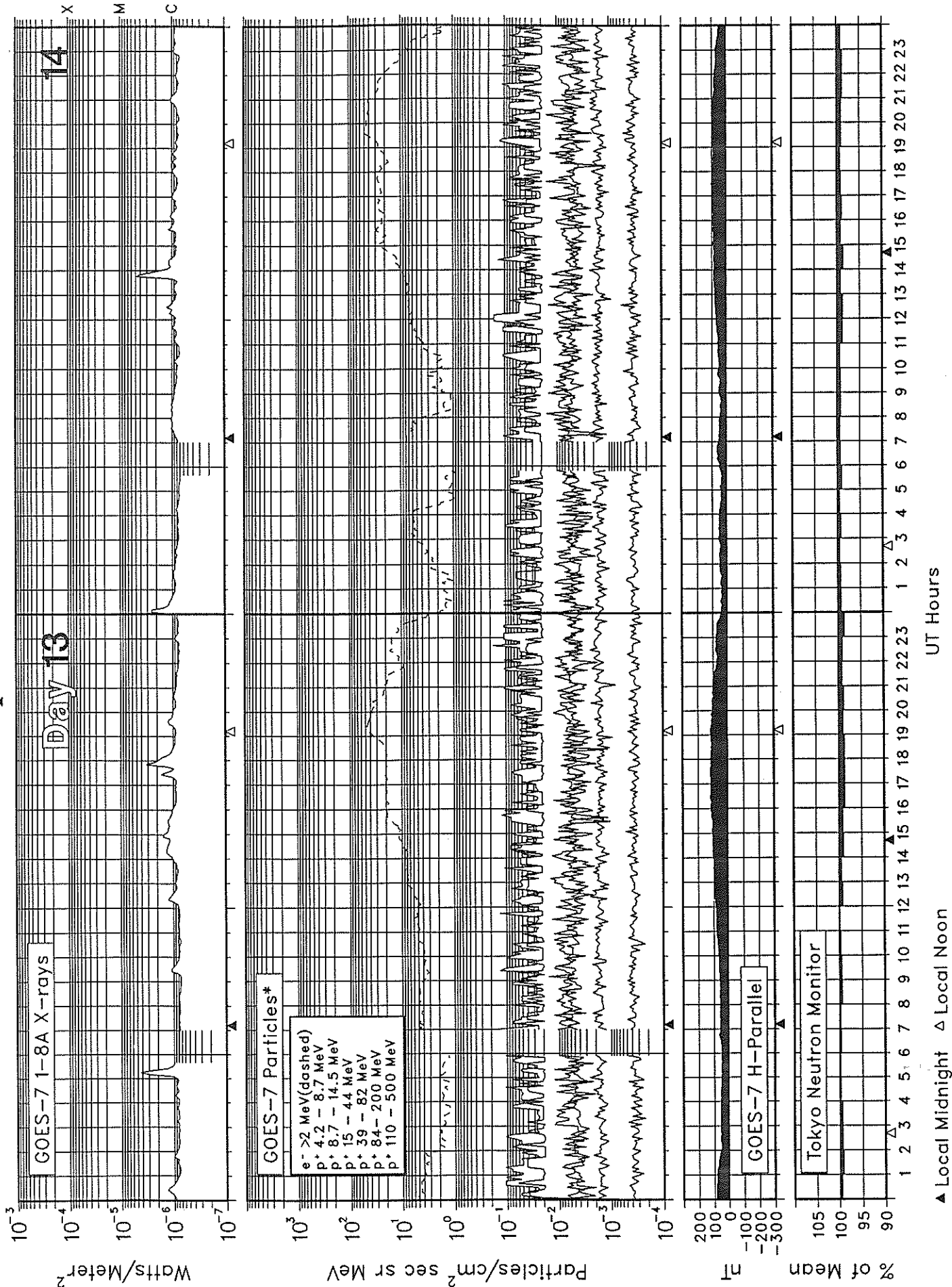
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▲ Local Midnight    Δ Local Noon

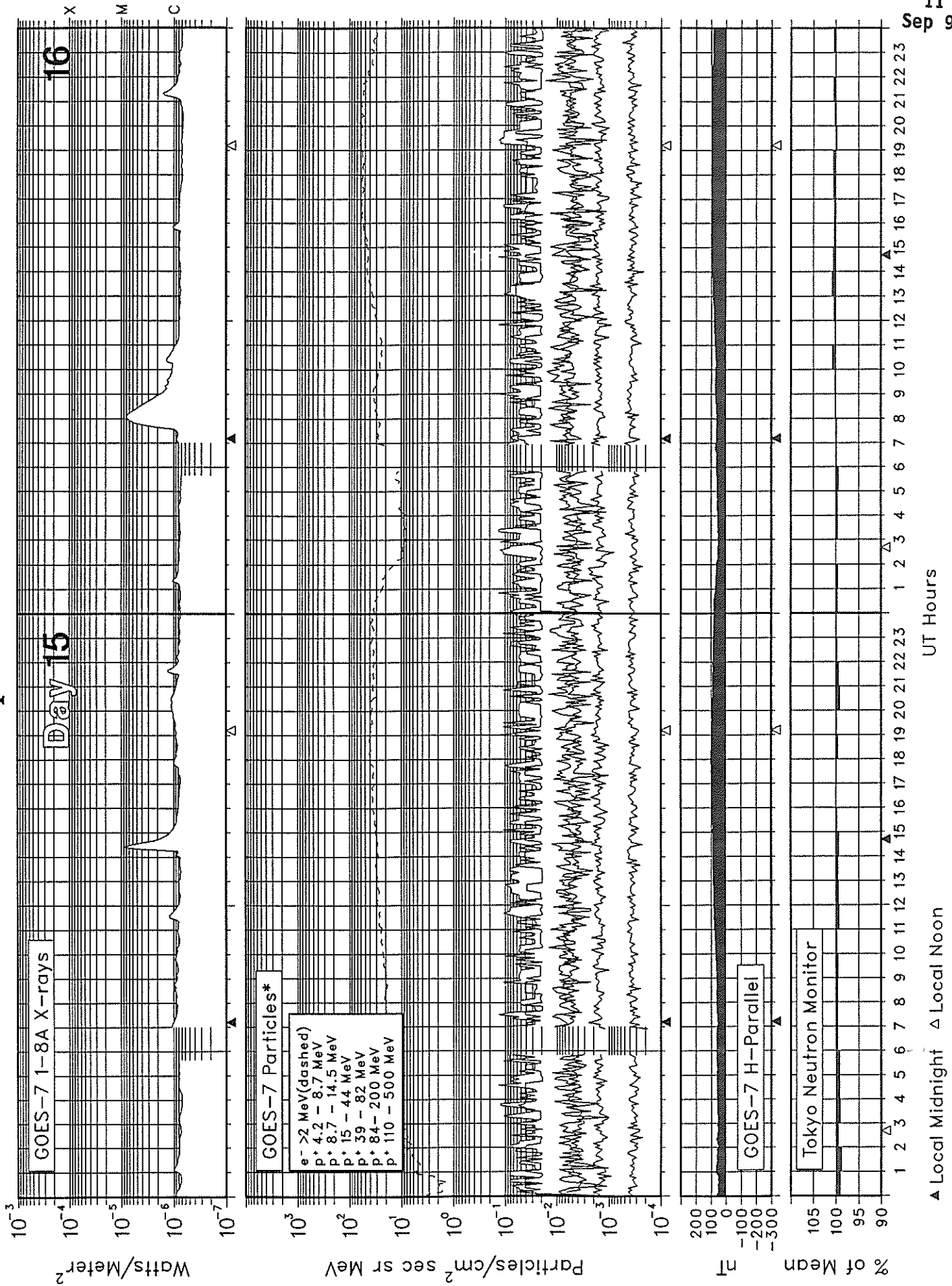
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## September 1991



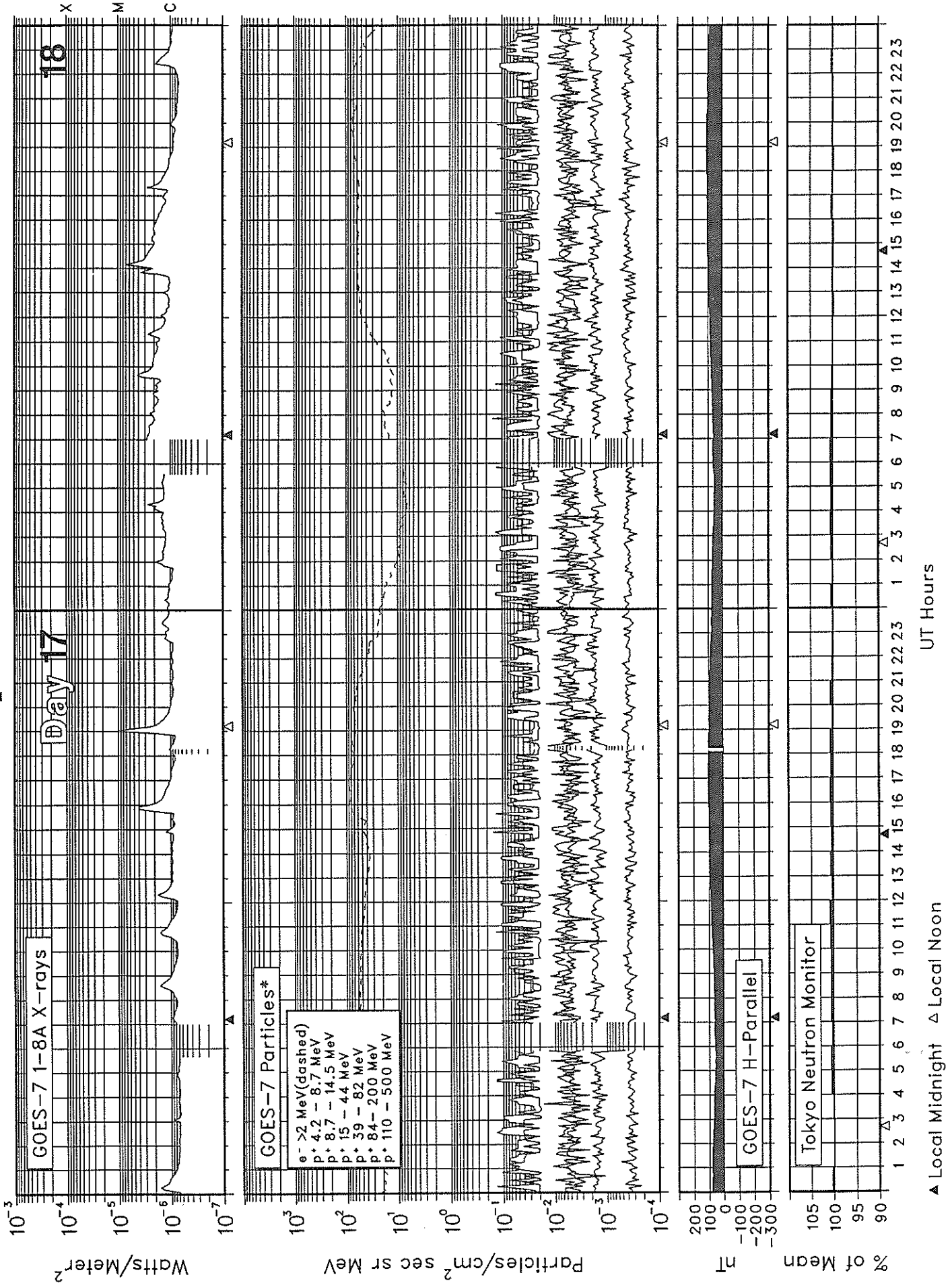
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September 1991



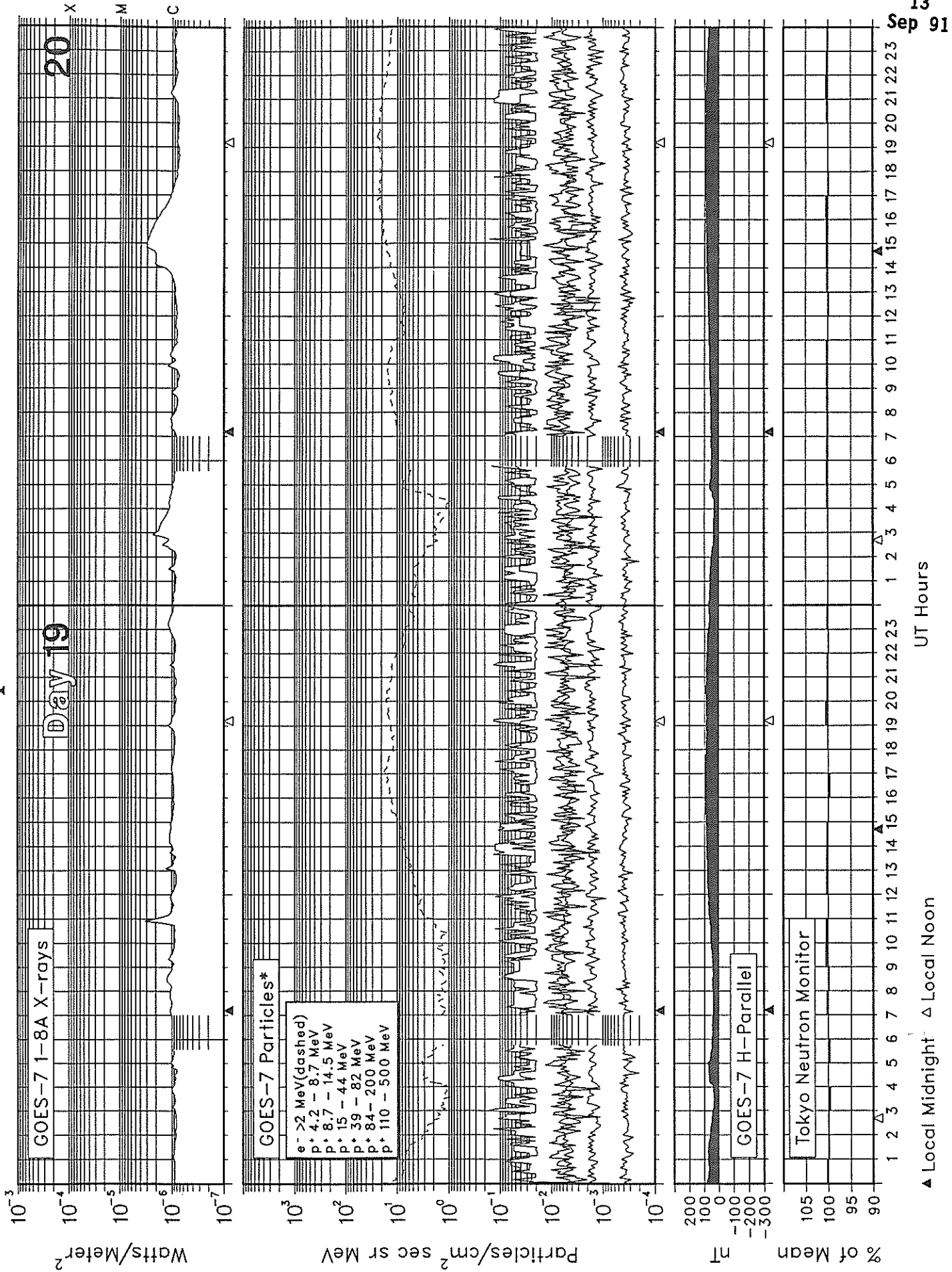
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## September 1991



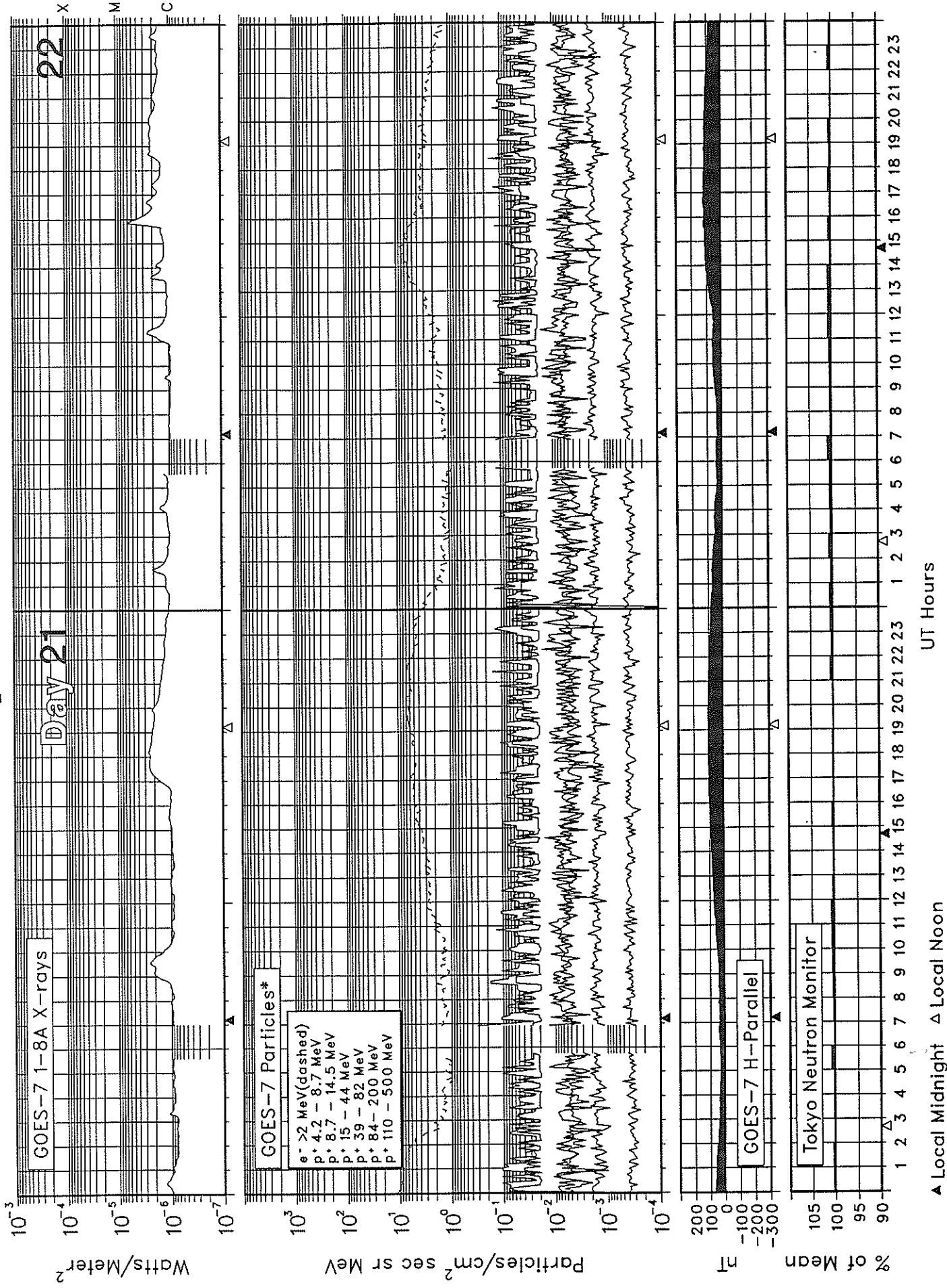
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September 1991



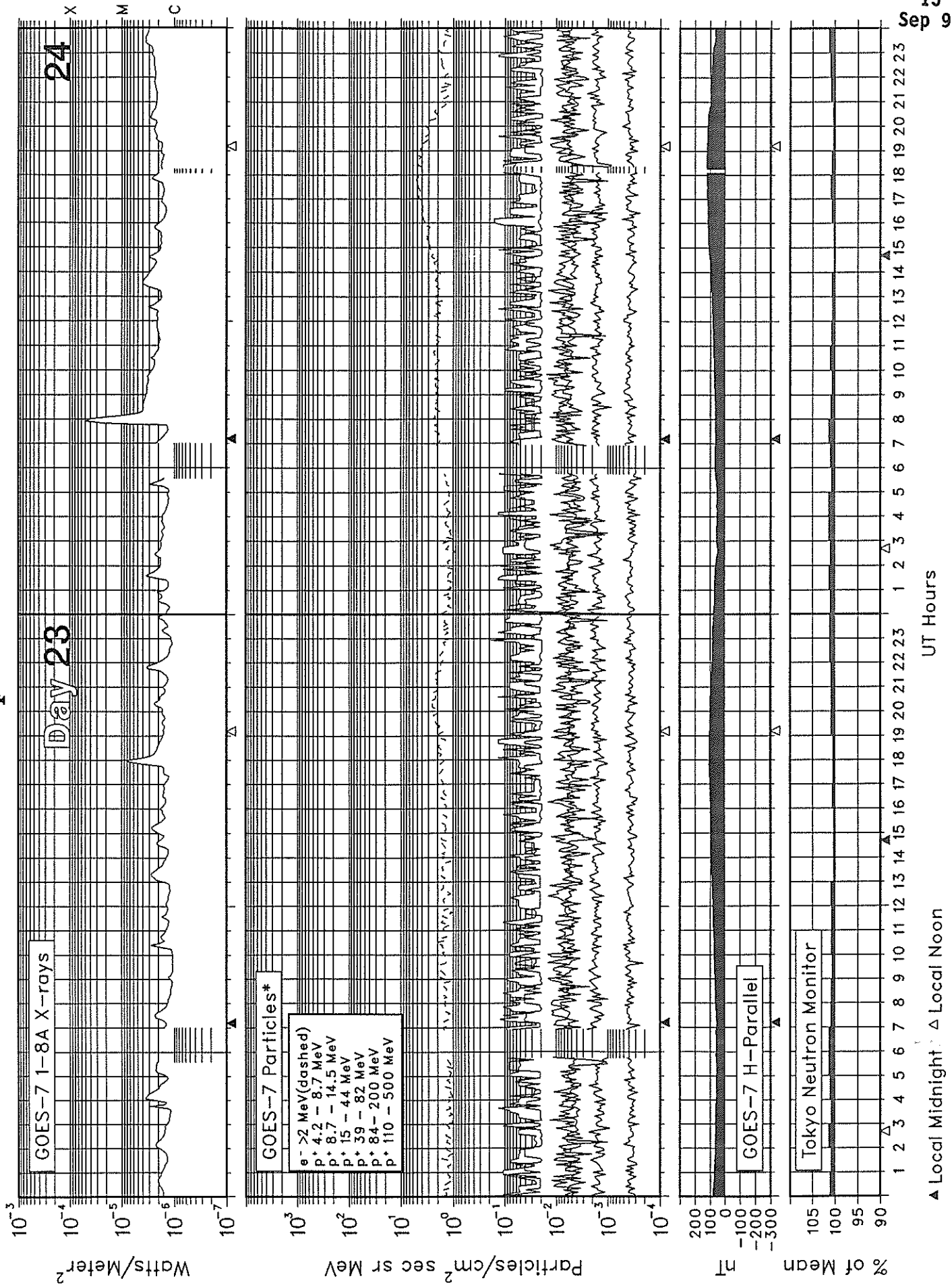
# SOLAR-TERRESTRIAL ENVIRONMENT

## September 1991



# SOLAR-TERRESTRIAL ENVIRONMENT

## September 1991

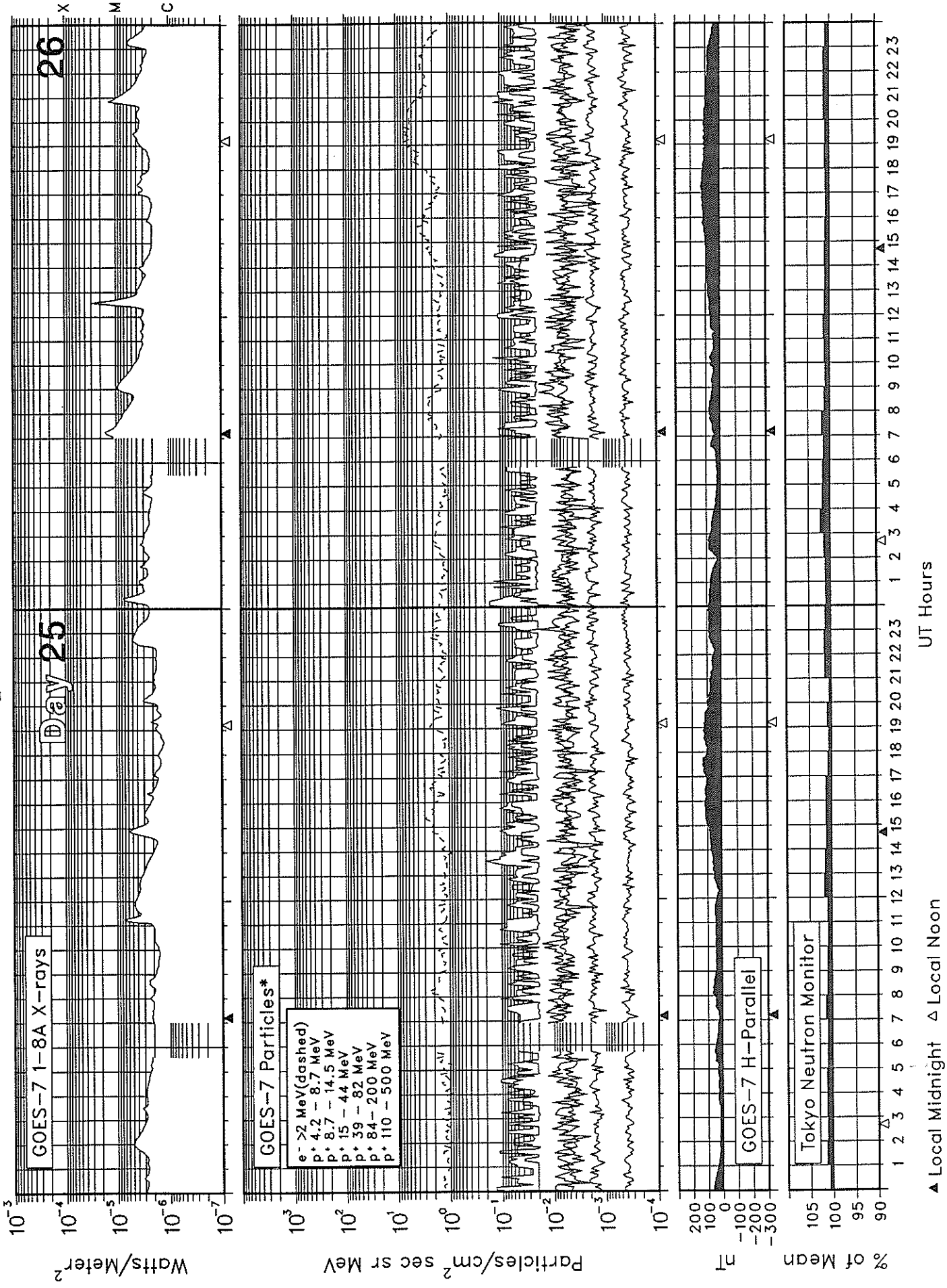




# SOLAR-TERRESTRIAL ENVIRONMENT

## September 1991

16  
Sep 91

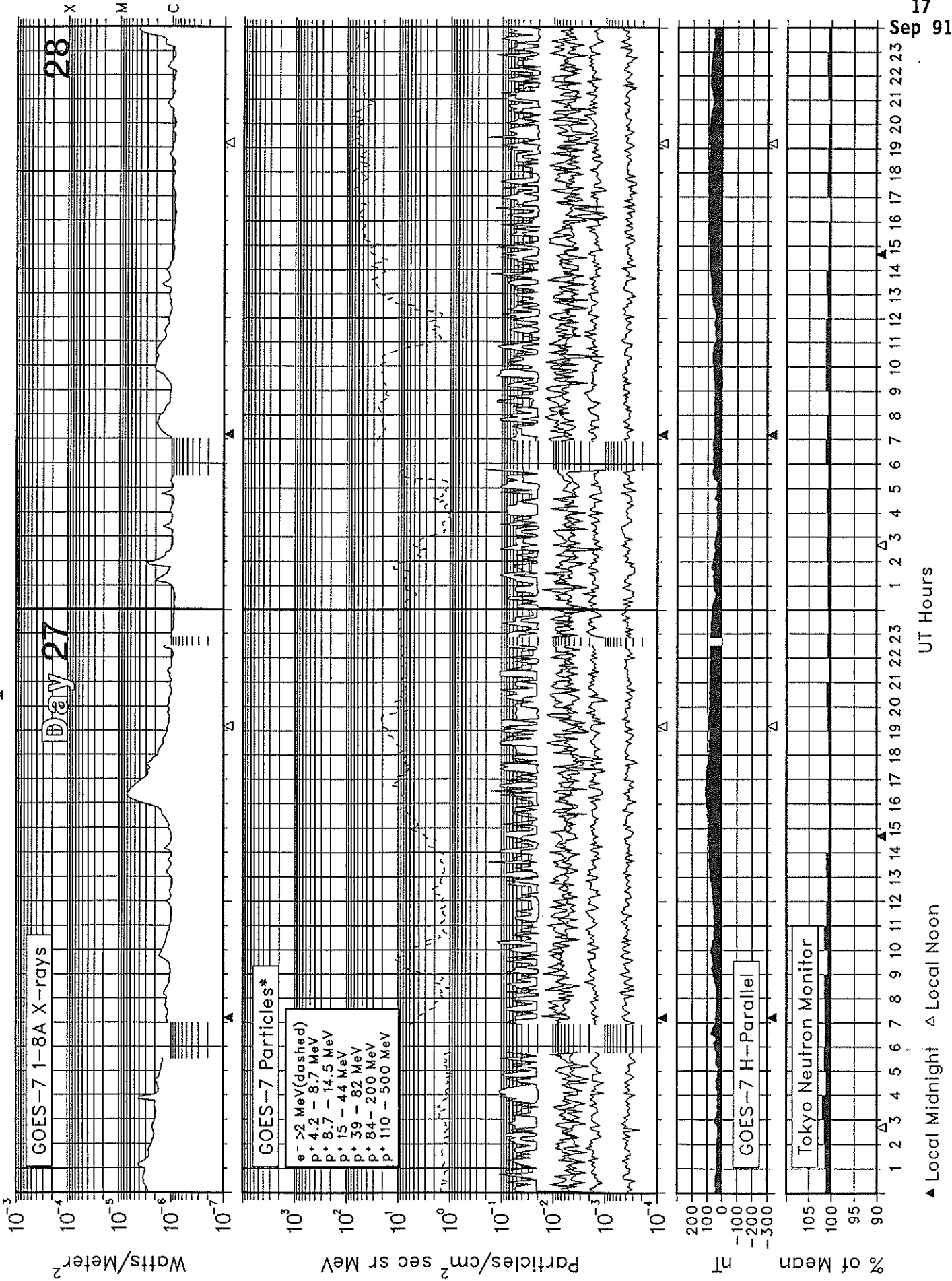


Day 25

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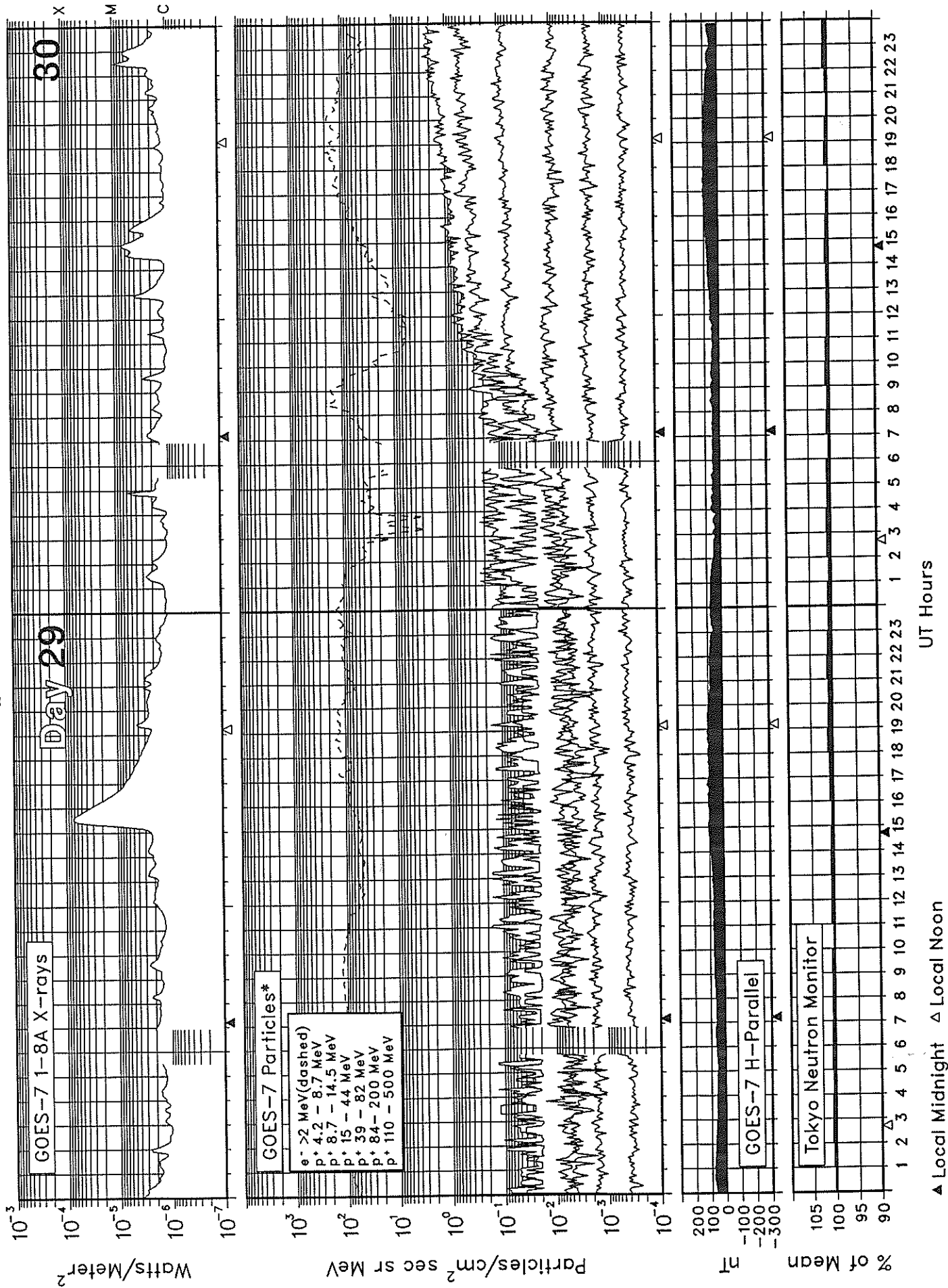
# SOLAR-TERRESTRIAL ENVIRONMENT

## September 1991



# SOLAR-TERRESTRIAL ENVIRONMENT

## September 1991



**ALERT PERIODS**  
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

**Summary of the Geoalert Messages SEPTEMBER 1991**

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A-index	Location		Flares			Date of Forecast	Location		Region Forecast <sup>1</sup>	Geoalerts
						° Lat	° Long	Total	M	X		° Lat	° Long		
244	01	31	230	182	28	S09	W43	0	0	0	01	S09	W43	Q	Solalert 01/XX, Magalert 01/XX.
						N23	W14	0	0	0		N23	W14	E	
						N14	W57	0	0	0		N14	W57	Q	
						S07	W21	2	0	0		S07	W21	E	
						S13	W34	1	0	0		S13	W34	Q	
						S16	W28	0	0	0		S16	W28	Q	
						S20	E11	1	0	0		S20	E11	E	
						S20	E26	3	1	0		S20	E26	E	
						N12	W04	0	0	0		N12	W04	E	
N11	E06	0	0	0	N11	E06	Q								
245	02	01	245	176	27	S09	W56	1	0	0	02	S09	W56	Q	Solalert 02/XX, Magalert 02/02.
						N23	W28	2	0	0		N23	W28	E	
						N14	W71	0	0	0		N14	W71	Q	
						S07	W35	2	0	0		S07	W35	E	
						S20	W01	1	0	0		S20	W01	E	
						S18	E09	6	0	0		S18	E09	E	
						N12	W18	1	0	0		N12	W18	E	
						S22	E20	0	0	0		S22	E20	Q	
						S08	E19	0	0	0		S08	E19	Q	
S10	E72	0	0	0	S10	E72	Q								
246	03	02	204	181	30	N09	W69	0	0	0	03	N09	W69	Q	Solalert 03/XX, Magalert 03/03.
						N24	W40	6	0	0		N24	W40	E	
						N15	W83	0	0	0		N15	W83	Q	
						S06	W49	1	0	0		S06	W49	E	
						S20	W15	1	0	0		S20	W15	Q	
						S18	W02	6	0	0		S18	W02	E	
						N11	W31	3	0	0		N11	W31	E	
						N12	W17	0	0	0		N12	W17	Q	
						S22	E07	2	0	0		S22	E07	Q	
S08	E05	0	0	0	S08	E05	E								
S10	E59	0	0	0	S10	E59	Q								
247	04	03	189	175	17	S09	W84	0	0	0	04	S09	W84	Q	Solnil, Magnil.
						N24	W51	5	0	0		N24	W51	E	
						N14	W96	1	0	0		N14	W96	Q	
						S05	W63	10	0	0		S05	W63	E	
						S20	W27	1	0	0		S20	W27	Q	
						S20	W15	6	0	0		S20	W15	E	
						N11	W45	1	0	0		N11	W45	Q	
						S22	W06	2	0	0		S22	W06	E	
S08	W08	5	0	0	S08	W08	E								
248	05	04	219	171	12	N23	W61	6	2	0	05	N23	W61	E	Solalert 05/XX, Magquiet.
						S04	W80	3	0	0		S04	W80	E	
						S20	W41	0	0	0		S20	W41	Q	
						S20	W28	0	0	0		S20	W28	E	
						N12	W58	1	0	0		N12	W58	Q	
						S22	W20	0	0	0		S22	W20	Q	
						S08	W23	0	0	0		S08	W23	E	
						S11	E30	0	0	0		S11	E30	Q	
						S25	E67	0	0	0		S25	E67	Q	
S12	W12	0	0	0	S12	W12	E								

**ALERT PERIODS**  
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

**Summary of the Geoalert Messages** **SEPTEMBER 1991**

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A-index	Location		Flares			Date of Forecast	Location		Region Forecast <sup>1</sup>	Geoalerts
						°Lat	°Long	Total	M	X		°Lat	°Long		
249	06	05	204	164	25	N23	W75	5	3	0	06	N23	W75	A	Solalert 06/XX, Magquiet.
						S04	W94	1	0	0		S04	W94	Q	
						S20	W51	0	0	0		S20	W51	Q	
						S20	W42	2	1	0		S20	W42	E	
						N12	W70	0	0	0		N12	W70	Q	
						S22	W34	0	0	0		S22	W34	Q	
						S08	W36	0	0	0		S08	W36	Q	
						S25	E54	0	0	0		S25	E54	Q	
						S12	W26	0	0	0		S12	W26	E	
						S25	E21	0	0	0		S25	E21	Q	
						Presto: <sup>2</sup> Boulder Tenflare 05/2200 UT duration 3 minutes.									
250	07	06	185	176	14	N23	W90	2	0	0	07	N23	W90	E	Solalert 07/XX, Magquiet.
						S20	W67	1	0	0		S20	W67	Q	
						S21	W55	9	0	0		S21	W55	E	
						N11	W83	0	0	0		N11	W83	Q	
						S23	W47	0	0	0		S23	W47	Q	
						S10	W53	1	0	0		S10	W53	E	
						S25	E42	0	0	0		S25	E42	Q	
						S12	W39	4	0	0		S12	W39	E	
						S26	E08	0	0	0		S26	E08	Q	
						S11	E28	0	0	0		S11	E28	Q	
						Presto: Boulder Tenflare 500 flux units 06/2200 IP.									
251	08	07	147	174	13	S20	W81	0	0	0	08	S20	W81	Q	Solalert 08/XX, Magalert 09/10.
						S21	W67	4	0	0		S21	W67	E	
						S08	W69	0	0	0		S08	W69	Q	
						S24	E29	1	0	0		S24	E29	Q	
						S12	W52	9	4	1		S12	W52	A	
						S11	E14	1	0	0		S11	E14	E	
						S11	E06	0	0	0		S11	E06	Q	
						S07	E71	0	0	0		S07	E71	Q	
						Presto: Boulder Tenflare 280 flux units 07/1920 UT duration 11 minutes. Boulder X-ray event X3/2B S11 W50 07/1920 UT duration 28 minutes.									
252	09	08	194	196	19	S21	W79	4	0	0	09	S21	W79	Q	Solalert 09/XX, Magalert 09/10.
						S08	W83	0	0	0		S08	W83	Q	
						S24	E16	0	0	0		S24	E16	Q	
						S12	W64	8	1	1		S12	W64	A	
						S12	E03	4	1	0		S12	E03	E	
						S09	W09	0	0	0		S09	W09	Q	
						S05	E58	5	0	0		S05	E58	Q	
						N03	E17	5	0	0		N03	E17	E	
						S20	E72	2	0	0		S20	E72	E	
						Presto: Boulder X-ray event X1/2N S13 W58 08/0905 UT duration 17 minutes. Boulder Tenflare 390 flux units 08/0907 UT duration 11 minutes.									
253	10	09	175	181	29	S20	W92	0	0	0	10	S20	W92	Q	Solalert 10/XX, Magalert 10/11.
						S24	E03	0	0	0		S24	E03	Q	
						S13	W78	1	1	0		S13	W78	A	
						S12	W11	0	0	0		S12	W11	E	
						S05	E44	0	0	0		S05	E44	Q	
						N03	E04	0	0	0		N03	E04	E	
						S20	E57	3	0	0		S20	E57	E	
						N18	W76	0	0	0		N18	W76	Q	
						N20	W10	0	0	0		N20	W10	Q	



**ALERT PERIODS**  
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages

SEPTEMBER 1991

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A-index	Location		Flares			Date of Forecast	Location		Region Forecast <sup>1</sup>	Geoalerts
						°Lat	°Long	Total	M	X		°Lat	°Long		
259	16	15	202	180	8	S24	W72	0	0	0	16	S24	W72	Q	Solquiet, Magquiet.
						S11	W92	0	0	0		S11	W92	Q	
						N02	W79	0	0	0		N02	W79	Q	
						S20	W21	1	0	0		S20	W21	E	
						S20	W04	0	0	0		S20	W04	Q	
						S11	E13	0	0	0		S11	E13	Q	
						N02	E27	0	0	0		N02	E27	Q	
						S13	E25	0	0	0		S13	E25	Q	
						N14	W31	0	0	0		N14	W31	Q	
						N07	E44	0	0	0		N07	E44	Q	
N09	E27	0	0	0	N09	E27	Q								
260	17	16	205	174	6	S24	W85	0	0	0	17	S24	W85	Q	Solquiet, Magquiet.
						S10	W46	0	0	0		S10	W46	Q	
						N03	W93	0	0	0		N03	W93	Q	
						S23	W36	1	0	0		S23	W36	E	
						S21	W19	1	0	0		S21	W19	Q	
						S11	W02	0	0	0		S11	W02	Q	
						N02	E13	0	0	0		N02	E13	Q	
						S11	E13	0	0	0		S11	E13	Q	
						N15	W45	0	0	0		N15	W45	Q	
						N07	E29	1	0	0		N07	E29	Q	
						N08	E12	0	0	0		N08	E12	Q	
						S25	E08	0	0	0		S25	E08	Q	
						N23	E19	0	0	0		N23	E19	Q	
						N16	E19	0	0	0		N16	E19	Q	
261	18	17	145	177	7	S20	W47	0	0	0	18	S20	W47	Q	Solquiet, Magquiet.
						S21	W31	1	0	0		S21	W31	E	
						S11	W14	0	0	0		S11	W14	Q	
						N01	E01	0	0	0		N01	E01	Q	
						S12	W01	0	0	0		S12	W01	Q	
						N07	E17	3	1	0		N07	E17	E	
						N08	W02	0	0	0		N08	W02	Q	
						N17	E05	0	0	0		N17	E05	Q	
262	19	18	160	181	5	S21	W46	0	0	0	19	S21	W46	Q	Solquiet, Magquiet.
						S11	W27	0	0	0		S11	W27	Q	
						N01	W12	0	0	0		N01	W12	Q	
						S12	W15	0	0	0		S12	W15	Q	
						N08	E03	6	0	0		N08	E03	E	
						N08	W16	0	0	0		N08	W16	Q	
						N16	W06	0	0	0		N16	W06	Q	
						N10	E44	0	0	0		N10	E44	Q	
N07	E54	0	0	0	N07	E54	Q								
263	20	19	160	172	10	S23	W56	1	0	0	20	S23	W56	Q	Solquiet, Magquiet.
						S11	W42	0	0	0		S11	W42	Q	
						N02	W27	0	0	0		N02	W27	Q	
						S14	W27	0	0	0		S14	W27	Q	
						N08	W12	2	0	0		N08	W12	E	
						N13	W18	0	0	0		N13	W18	Q	
						N09	E30	0	0	0		N09	E30	Q	
						N07	E01	0	0	0		N07	E01	Q	
						S14	W09	0	0	0		S14	W09	Q	

**ALERT PERIODS**  
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

## Summary of the Geolert Messages

SEPTEMBER 1991

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A-index	Location		Flares			Date of Forecast	Location		Region Forecast <sup>1</sup>	Geolerts
						° Lat	° Long	Total	M	X		° Lat	° Long		
264	21	20	141	170	9	S11	W54	0	0	0	21	S11	W54	Q	Solquiet, Magquiet.
						N02	W40	0	0	0		N02	W40	Q	
						N08	W26	4	0	0		N08	W26	E	
						N10	E15	0	0	0		N10	E15	Q	
						N08	E27	0	0	0		N08	E27	Q	
						N08	W10	0	0	0		N08	W10	Q	
						S14	W22	0	0	0		S14	W22	Q	
						S12	E66	0	0	0		S12	E66	Q	
					N06	W64	1	0	0	N06	W64	Q			
265	22	21	173	177	6	S11	W69	0	0	0	22	S11	W69	Q	Solquiet, Magquiet.
						N02	W54	0	0	0		N02	W54	Q	
						N08	W41	3	0	0		N08	W41	E	
						N09	E05	0	0	0		N09	E05	Q	
						N08	E14	0	0	0		N08	E14	Q	
						S13	W35	2	0	0		S13	W35	Q	
						S12	E53	0	0	0		S12	E53	Q	
						N06	W78	1	0	0		N06	W78	Q	
						S12	E02	0	0	0		S12	E02	E	
						N07	E46	0	0	0		N07	E46	Q	
						S22	W25	1	0	0		S22	W25	Q	
266	23	22	222	188	5	S12	W84	0	0	0	23	S12	W84	Q	Solquiet, Magquiet.
						N02	W68	0	0	0		N02	W68	Q	
						N08	W55	2	0	0		N08	W55	E	
						S27	W74	0	0	0		S27	W74	Q	
						N10	W08	0	0	0		N10	W08	Q	
						N07	W00	0	0	0		N07	W00	Q	
						S13	W48	6	0	0		S13	W48	E	
						S10	E39	0	0	0		S10	E39	Q	
						N06	W92	0	0	0		N06	W92	Q	
						S11	W12	0	0	0		S11	W12	Q	
						N07	E32	0	0	0		N07	E32	Q	
						S23	W58	1	0	0		S23	W58	Q	
						267	24	23	172	185		5	N01	W82	
N08	W68	2	0	0	N08						W68		E		
N09	W21	0	0	0	N09						W21		Q		
S12	W62	7	1	0	S12						W62		E		
S10	E25	1	0	0	S10						E25		Q		
S10	W25	0	0	0	S10						W25		Q		
N06	E18	0	0	0	N06						E18		Q		
S24	W69	1	0	0	S24						W69		Q		
S08	E79	0	0	0	S08	E79	Q								
268	25	24	166	180	6	N06	W87	0	0	0	25	N06	W87	E	Solquiet, Magquiet.
						N09	W35	1	0	0		N09	W35	Q	
						S13	W77	5	0	0		S13	W77	E	
						S09	E11	0	0	0		S09	E11	Q	
						S09	W39	0	0	0		S09	W39	Q	
						N06	E04	1	0	0		N06	E04	Q	
						S25	W76	1	0	0		S25	W76	Q	
						S07	E63	1	1	0		S07	E63	E	
						N11	W12	2	0	0		N11	W12	Q	
						S11	E82	0	0	0		S11	E82	E	

Presto:<sup>2</sup> Boulder Tenflare 200 flux units 24/0750 UT duration 5 minutes.



**ALERT PERIODS**  
INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

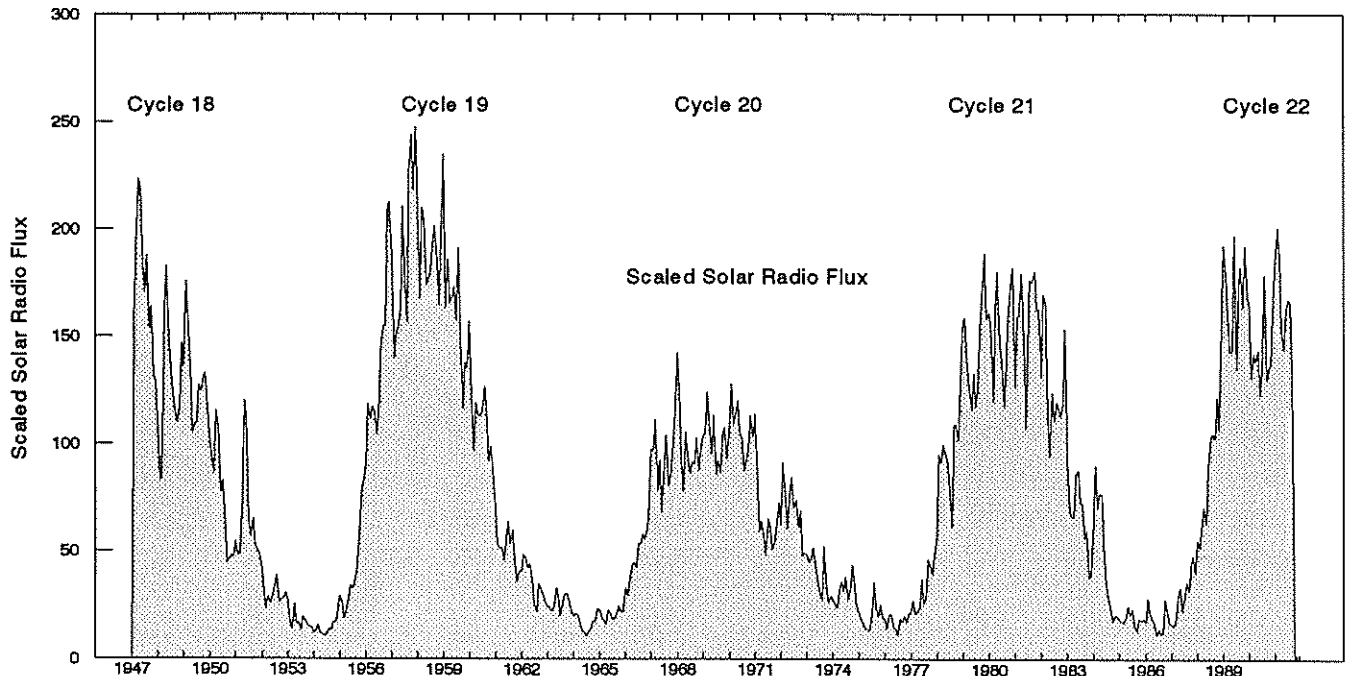
**Summary of the Geoalert Messages      SEPTEMBER 1991**

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A-index	Location		Flares			Date of Forecast	Location		Region Forecast <sup>1</sup>	Geoalerts
						°Lat	°Long	Total	M	X		°Lat	°Long		
269	26	25	154	181	24	N09	W49	0	0	0	26	N09	W49	Q	Solalert 26/XX, Magalert 26/XX.
						S12	W92	3	0	0		S12	W92	Q	
						S09	W04	2	0	0		S09	W04	Q	
						N06	W10	0	0	0		N06	W10	Q	
						S07	E50	0	0	0		S07	E50	E	
						N11	W24	2	0	0		N11	W24	Q	
						S11	E69	8	0	0		S11	E69	E	
						S19	E44	1	0	0		S19	E44	Q	
					N11	E22	0	0	0	N11	E22	Q			
270	27	26	181	201	36	N10	W62	0	0	0	27	N10	W62	Q	Solalert 27/XX, Magalert 27/XX.
						S09	W16	1	0	0		S09	W16	Q	
						N06	W21	0	0	0		N06	W21	Q	
						S07	E38	1	1	0		S07	E38	E	
						N11	W38	0	0	0		N11	W38	Q	
						S11	E56	6	0	0		S11	E56	E	
						S20	E30	0	0	0		S20	E30	Q	
						N14	E09	0	0	0		N14	E09	Q	
						S19	E68	4	2	0		S19	E68	E	
						S20	W26	0	0	0		S20	W26	Q	
271	28	27	173	178	36	N07	W77	0	0	0	28	N07	W77	Q	Solalert 28/XX, Magalert 28/28.
						S10	W30	0	0	0		S10	W30	Q	
						N06	W35	0	0	0		N06	W35	Q	
						S07	E28	2	0	0		S07	E28	E	
						N11	W51	0	0	0		N11	W51	Q	
						S11	E44	3	0	0		S11	E44	E	
						S20	E18	0	0	0		S20	E18	Q	
						N17	W03	0	0	0		N17	W03	Q	
						S19	E56	6	0	0		S19	E56	E	
						Presto: <sup>2</sup> Boulder Tenflare 210 flux units 27/0353 UT duration 1 minute.									
272	29	28	227	176	25	N09	W90	0	0	0	29	N09	W90	Q	Solalert 29/XX, Magalert 29/29.
						S10	W40	0	0	0		S10	W40	Q	
						S07	E14	1	0	0		S07	E14	E	
						N11	W65	0	0	0		N11	W65	Q	
						S11	E30	4	0	0		S11	E30	A	
						S20	E04	0	0	0		S20	E04	Q	
						N16	W19	0	0	0		N16	W19	Q	
						S19	E41	0	0	0		S19	E41	Q	
						N17	E61	7	0	0		N17	E61	E	
						S29	W67	0	0	0		S29	W67	Q	
					N11	W38	0	0	0	N11	W38	Q			
273	30	29	205	195	12	S10	W53	1	0	0	30	S10	W53	Q	Solalert 30/XX, Magalert 30/02.
						S07	E02	2	0	0		S07	E02	E	
						N11	W82	0	0	0		N11	W82	Q	
						S11	E19	3	0	0		S11	E19	E	
						S19	E28	9	1	0		S19	E28	A	
						N18	E46	0	0	0		N18	E46	E	
						N12	W50	0	0	0		N12	W50	Q	
Presto: Boulder Tenflare 720 flux units 29/1513 UT duration 53 minutes.															

<sup>1</sup>Q = quiet, E = eruptive, A = active, P = proton.

<sup>2</sup>Presto message is a rapid report of a major event.

Monthly Mean 2800 MHz Solar Flux (Observed) Jan 1947 – Sep 1991



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1947		202.7	235.7	264.1	261.2	226.6	215.2	231.2	199.7	209.0	179.8	176.4	218.3
1948	155.7	134.3	135.5	208.1	226.5	195.5	182.8	172.8	163.7	159.1	165.4	193.3	174.4
1949	183.5	220.2	203.9	182.5	154.9	157.5	159.9	175.2	172.5	178.2	180.4	165.2	177.8
1950	150.7	143.3	137.8	164.3	157.1	128.7	134.1	120.9	98.6	99.9	101.9	101.1	128.2
1951	107.9	101.9	102.5	127.1	168.6	161.7	116.3	109.8	117.8	106.0	104.4	102.4	118.9
1952	95.4	86.2	78.5	84.0	80.9	84.8	88.8	93.3	81.5	82.8	83.4	85.7	85.4
1953	83.2	72.8	70.4	81.0	72.5	73.0	69.8	75.5	74.3	71.9	71.4	70.8	73.9
1954	68.7	69.2	71.9	68.7	68.0	67.3	67.7	69.9	70.1	73.2	72.6	75.5	70.2
1955	84.3	82.0	74.8	77.3	82.8	88.8	87.3	90.7	91.1	111.8	130.0	134.6	95.0
1956	141.2	167.2	160.6	165.9	163.4	154.0	162.8	193.8	200.9	201.6	250.4	253.7	184.6
1957	231.2	186.7	197.8	200.0	208.5	252.1	218.0	202.3	267.1	283.1	259.2	286.5	232.7
1958	251.5	212.2	251.5	245.9	218.6	220.5	224.1	237.0	243.5	228.0	209.2	238.2	231.7
1959	274.5	207.9	229.2	210.6	212.7	217.5	203.0	234.2	194.3	165.1	184.8	182.2	209.7
1960	202.6	170.9	146.8	167.6	162.7	161.9	163.9	174.4	164.5	142.3	148.9	138.1	162.0
1961	122.0	106.4	104.8	105.0	99.3	109.9	116.5	106.2	112.7	96.7	90.3	94.8	105.4
1962	94.9	102.2	100.3	96.2	97.9	91.0	80.7	77.3	89.5	87.8	84.9	82.0	90.4
1963	79.5	79.7	77.8	79.5	87.8	83.5	75.9	80.9	85.1	85.1	81.7	78.4	81.2
1964	75.4	76.8	75.9	72.6	69.5	69.0	67.0	69.3	70.2	73.4	73.7	78.8	72.6
1965	78.6	75.2	74.1	72.0	78.2	77.0	74.3	74.8	76.6	80.2	77.7	77.8	76.4
1966	87.9	84.2	90.3	97.2	98.5	96.3	106.7	106.6	110.9	108.6	113.3	124.6	102.1
1967	147.7	147.0	160.6	129.9	143.0	120.2	140.3	153.7	132.1	136.1	145.3	163.0	143.2
1968	189.1	173.2	142.6	129.5	154.9	142.3	137.2	142.2	141.0	152.5	138.5	148.4	149.3
1969	152.7	155.2	172.3	155.5	145.4	162.2	136.6	143.0	137.3	154.0	156.7	143.6	151.2
1970	158.3	175.4	158.4	162.0	168.4	154.9	152.0	138.2	143.2	148.3	162.0	152.8	156.2
1971	162.6	137.8	111.9	116.7	109.9	101.7	117.4	114.1	104.0	107.2	114.0	124.5	118.5
1972	114.8	141.8	128.5	112.9	129.6	135.4	122.0	125.7	113.6	121.1	101.6	102.9	120.8
1973	102.2	98.7	100.4	105.0	97.0	91.2	84.5	82.9	105.6	87.7	81.5	84.2	93.4
1974	83.1	80.9	79.2	86.1	90.6	86.3	92.5	83.0	87.8	97.6	90.3	81.1	86.5
1975	77.5	74.2	72.4	70.7	70.1	69.7	77.2	90.4	79.6	75.7	80.8	74.6	76.1
1976	74.7	70.5	76.7	76.3	70.6	70.6	67.5	74.8	73.1	75.9	72.9	76.7	73.4
1977	77.4	82.3	76.6	77.6	79.6	91.5	81.1	84.3	99.9	96.9	93.7	102.1	86.9
1978	109.6	145.4	141.8	149.4	146.5	142.2	131.1	114.0	157.9	158.2	151.5	175.5	143.6
1979	203.0	204.1	185.8	173.8	165.2	180.3	165.9	172.7	200.2	217.9	231.7	203.5	192.0
1980	206.2	200.0	168.1	207.9	224.0	193.2	184.8	166.2	183.9	204.2	218.1	225.8	198.5
1981	174.6	204.5	205.3	223.2	194.6	156.9	191.9	220.6	219.5	224.3	207.8	207.8	202.6
1982	179.0	214.2	210.5	161.8	144.7	171.9	159.6	167.9	165.3	161.9	167.4	199.4	175.3
1983	142.3	122.6	118.6	118.9	137.1	138.6	125.0	124.4	109.0	112.4	92.5	93.4	119.6
1984	116.1	140.6	122.0	128.7	128.3	100.3	89.3	83.7	78.1	73.5	76.3	75.9	101.1
1985	74.5	73.7	73.3	75.1	80.2	76.1	78.7	71.5	69.5	74.7	74.2	74.8	74.7
1986	73.2	83.6	77.0	75.1	72.6	67.6	70.2	68.4	68.7	83.0	77.1	72.6	74.1
1987	72.5	71.5	74.0	84.9	87.8	77.9	84.2	90.0	86.1	98.1	101.2	94.4	85.3
1988	108.0	105.0	114.9	122.7	115.2	139.4	152.7	154.2	152.5	169.8	156.2	199.8	141.0
1989	235.4	222.4	205.1	189.6	190.1	239.6	181.9	217.1	225.9	208.7	235.1	213.0	213.7
1990	210.1	178.3	188.8	185.3	189.7	170.9	180.7	222.6	177.4	182.0	184.3	204.9	189.6
1991	229.4	243.0	230.0	198.8	190.3	206.8	212.0	210.3	180.6				211.2*

\*Preliminary

Graph shows EFFECTIVE sunspot numbers: fluxes scaled by linear regression equation (1.08Flux – 62).

INTERNATIONAL RELATIVE SUNSPOT NUMBERS

Day	Oct 90	Nov	Dec	Jan 91	Feb	Mar	Apr	May	Jun	Jul†	Aug†	Sep†
01	110	77	127	139	205	95	89	93	177	188	132	170
02	112	81	160	89	209	93	92	86	175	213	138	153
03	140	108	180	93	176	71	118	106	171	238	143	147
04	134	146	186	95	144	55	139	95	179	250	136	147
05	123	154	167	104	127	74	160	89	180	217	148	132
06	124	197	169	119	117	88	159	96	167	204	119	137
07	135	209	182	105	119	131	164	99	171	209	120	111
08	141	208	177	99	118	146	146	125	210	203	106	135
09	148	188	176	94	134	156	172	140	240	179	89	122
10	153	163	175	97	136	159	167	134	241	181	75	127
11	195	167	157	116	140	167	195	145	250	170	86	123
12	192	151	138	122	153	163	227	133	219	138	98	130
13	214	118	117	145	166	152	197	116	175	146	126	143
14	202	119	95	119	163	161	211	134	177	132	122	147
15	218	113	88	114	173	182	227	119	154	117	164	123
16	192	102	104	133	159	202	188	113	165	98	212	101
17	188	110	112	154	136	167	172	113	149	91	257	103
18	181	97	121	127	191	168	171	125	142	89	279	101
19	181	109	134	119	206	155	173	116	143	114	280	84
20	169	98	114	91	198	173	161	121	113	132	291	80
21	136	102	117	107	223	167	115	97	147	171	300	115
22	140	125	99	106	214	179	79	117	135	184	294	124
23	134	114	91	127	200	179	72	120	124	212	275	129
24	131	118	95	135	192	154	33	117	135	205	250	112
25	125	110	101	149	194	146	39	121	137	207	215	111
26	102	117	104	179	187	153	73	139	150	199	177	117
27	111	109	104	220	175	137	82	156	143	183	147	120
28	119	134	111	237	134	129	119	158	162	183	157	133
29	98	144	109	248		140	132	150	177	182	171	144
30	87	153	103	239		141	129	141	183	197	166	138
31	77		108	224		115		145		165	167	

Mean 145.5 131.4 129.7 136.9 167.5 141.9 140.0 121.3 169.7 174.1 175.5 125.3

† = preliminary. The yearly mean sunspot number equals 142.6 for 1990.

Algonquin Radio Observatory OTTAWA 2800 MHz (10.7 cm) SOLAR FLUX Adjusted to 1 AU

Day	Oct 90	Nov	Dec	Jan 91	Feb	Mar	Apr	May	Jun†	Jul†	Aug†	Sep†
01	160.5	141.6*	172.6	180.6	307.3	216.5	192.8	163.6	224.9	250.3	232.0	179.1
02	162.8	138.5	178.0	175.8	289.3	207.5	189.1	159.6	243.1	251.8	213.2	184.3
03	177.4*	150.2	187.6	170.0	258.4	206.4	195.9	159.5	226.8	257.3	219.4	178.1
04	186.8	154.7	199.3	170.2	239.2	218.9J	195.1	165.8	245.6	255.4	198.8	173.8
05	170.0	169.7	207.0*	172.9	216.5	208.1	196.7	183.2	258.1	259.5	179.4	166.2
06	170.0	196.4	221.0	179.7*	198.7	206.7	199.9	207.2*	241.3	240.8	171.4	179.0
07	169.3	214.3	222.0	199.6	192.7	214.5	192.6	215.3	236.6	226.1	170.0	177.1
08	175.9*	211.8	223.6	207.9	192.7	209.1	182.8	235.6	250.7	211.2	163.5	199.0
09	183.9	201.2	230.3	209.1	174.0	215.7	204.2	230.1	245.3	200.6	154.6	183.3
10	194.7	191.1	233.4	214.6	169.5	222.8	223.6	237.0	246.2	200.2	145.7	187.2
11	205.1	195.0	233.4	209.4	176.5	221.9	231.5	234.5	242.8	202.3	142.4	179.9
12	200.6	191.0	228.0	201.6	181.6	228.7	254.4	253.7	236.8	209.9	150.7	185.4
13	209.4	181.5	219.5	190.5	182.2	239.1	242.6	219.7	224.7	202.3	159.6	187.1
14	220.6	198.0	195.3	184.5	184.0	241.6	269.3	212.8	207.2	194.8	179.6	183.4
15	231.6	207.3	193.2	184.6	191.9	242.2	263.1	197.7	203.1	192.0	220.5	182.2
16	224.6	207.3	186.2	181.8	200.4	258.5	269.1	193.4	190.5	172.6	270.7	176.1
17	193.7	217.1	192.5	202.0	210.2	245.4	254.2	176.2	182.1	163.9	277.7	178.7
18	198.2	198.9	201.6	196.8	259.6	274.8	239.1	174.2	178.7	194.8	290.5	182.9
19	214.2*	191.2	191.2	192.3	269.8	264.9	232.0	162.7*	180.7	184.1	296.6	173.9
20	201.7	186.8	181.6	197.5	283.8	254.2	235.3	151.8	171.7	205.3	293.2	171.1
21	188.7	177.6	185.8	195.9	299.2	253.1	181.6	153.0	175.1	221.6	291.8	178.0
22	167.9	177.4	178.1	217.5*	302.6	257.7	168.7	151.9	175.4	230.2	291.5	189.0
23	164.0	171.7	185.6	216.0	311.5	233.4	149.0	158.6	166.6	234.0	277.0	186.1
24	157.5	167.2	184.9	236.8	313.1*	260.5	137.4	162.8	173.9	240.8	255.4	180.9
25	161.8	162.3	185.0	260.9	288.4*	235.2	138.1	178.8	178.8	237.5	243.4	181.9
26	153.5	153.2	188.1	276.9	271.8	229.4	138.3*	191.4	191.3	226.6	214.7	201.6
27	162.5	155.0	191.9	293.8J	248.7	203.0	144.6	202.9	206.3	219.5	200.4	178.7
28	150.9	167.1	192.4	313.8	228.0	197.7	158.4	221.4	217.5	219.4	193.7	176.3
29	155.9	163.2	195.5	344.5		192.9	161.0	231.1	234.4	226.6	199.2	195.4
30	151.1*	169.6	189.6	359.2		201.3	161.7	213.5	243.6	228.4	199.4	200.4
31	141.6		180.6	348.6		194.7		230.7		225.9	185.2	

Mean 180.9 180.3 198.5 222.1 237.2 227.6 200.1 194.5 213.3 218.9 215.5 182.5

† = Penticton; \* = corrected for burst in progress; J = no calibration due to burst.

DAILY SOLAR INDICES

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Sep 91

September 1991

Day	Day of Year	Bartels Cycle Day	Sunspot Numbers		Obs Flux Penticton (2800)	Solar Flux Adjusted to 1 Astronomical Unit								
			Int	Amer		SGMR (15400)	SGMR (8800)	SGMR (4995)	Pentic (2800)	SGMR (2695)	SGMR (1415)	SGMR (610)	SGMR (410)	SGMR (245)
01	244	14	170	162	175.9	582	276	207	179.1	175	122	61	31	17
02	245	15	153	145	181.0	583	279	207	184.3	175	123	62	30	24
03	246	16	147	127	175.1	587	286	214	178.1	177	120	62	29	23
04	247	17	147	141	170.9	579	284	213	173.8	167	109	57	47	19
05	248	18	132	134	163.5	549	275	205	166.2	164	109	39	23	16
06	249	19	137	124	176.2	576	287	219	179.0	172	116	59	35	18
07	250	20	111	120	174.4	591	293	223	177.1	172	112	65	48	23
08	251	21	135	133	196.1	603	305	239	199.0	185	114	59	32	18
09	252	22	122	123	180.7	598	304	230	183.3	183	116	61	34	26
10	253	23	127	110	184.6	578	285	225	187.2	184	120	62	43	59
11	254	24	123	118	177.5	583	280	214	179.9	181	120	63	33	29
12	255	25	130	128	183.1	584	280	217	185.4	184	125	61	32	16
13	256	26	143	144	184.8	570	278	213	187.1	185	130	60	32	16
14	257	27	147	138	181.3	550	277	214	183.4	184	133	66	34	26
15	258	1	123	115	180.1	559	276	208	182.2	183	135	62	32	19
16	259	2	101	91	174.3	563	273	199	176.1	180	134	67	33	19
17	260	3	103	96	176.9	569	270	194	178.7	176	131	68	34	16
18	261	4	101	97	181.2	576	282	213	182.9	190	134	64	31	18
19	262	5	84	90	172.4	567	273	201	173.9	176	130	66	33	19
20	263	6	80	89	169.7	582	287	210	171.1	177	130	52	28	20
21	264	7	115	112	176.6	571	279	205	178.0	175	127	68	35	22
22	265	8	124	130	187.6	594	285	215	189.0	183	130	67	37	23
23	266	9	129	124	184.9	588	284	215	186.1	183	131	67	37	27
24	267	10	112	111	179.8	601	295	219	180.9	183	127	69	36	26
25	268	11	111	102	180.9	468	274	210	181.9	179	125	37	22	16
26	269	12	117	110	200.6	557	313	239	201.6	199	135	34	24	23
27	270	13	120	116	177.9	633	341	251	178.7	191	127	64	33	19
28	271	14	133	125	175.6	619	324	231	176.3	176	123	59	32	38
29	272	15	144	136	194.7	625	340	255	195.4	202	133	61	39	--
30	273	16	138	131	199.8	613	339	257	200.4	194	125	57	34	53
Mean			125.3	120.7	180.6	580	291	219	182.5	181	125	60	33	24

The International numbers shown above are preliminary values; the American numbers are final.

The observed and the adjusted Penticton fluxes tabulated here are the "Series C" daily values reported by the Dominion Radio Astrophysical Observatory, Penticton, British Columbia, Canada. Numbers in parentheses in the column headings denote frequencies in MHz.

Equipment problems produced any gaps in the Air Weather Service's Sagamore Hill (SGMR) observations.

SMOOTHED (OBSERVED AND PREDICTED) SUNSPOT NUMBERS: CYCLES 21 AND 22

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981	140	142	143	143	143	142	140	141	143	142	139	138
1982	137	133	129	124	120	117	115	109	101	96	95	95
1983	93	90	86	82	77	70	66	66	68	68	67	64
1984	60	56	53	50	48	46	44	40	34	29	25	22
1985	20	20	19	18	18	18	17	17	17	17	17	15
1986	14	13	13	14	14	14	14	13	12*	13	15	16
1987	18	20	22	24	26	28	31	35	39	44	47	51
1988	58	65	71	78	84	94	104	114	121	125	130	138
1989	142	145	150	154	157	158	159*	158	157	157	158	154
1990	151	153	152	149	147	144	141	141	142	142	142	144
1991	148	148	147	149 ( 7)	150 ( 9)	145 (11)	138 (14)	132 (15)	126 (14)	123 (14)	122 (16)	123 (19)
1992	122 (19)	115 (17)	108 (13)	103 ( 5)	99 ( 8)	98 ( 3)	95 ( 6)	92 (11)	88 (12)	84 (15)	76 (22)	65 (31)
1993	54 (39)	50 (40)	49 (37)	46 (36)	43 (35)	40 (35)	37 (36)	31 (39)	26 (41)	24 (40)	25 (36)	27 (30)

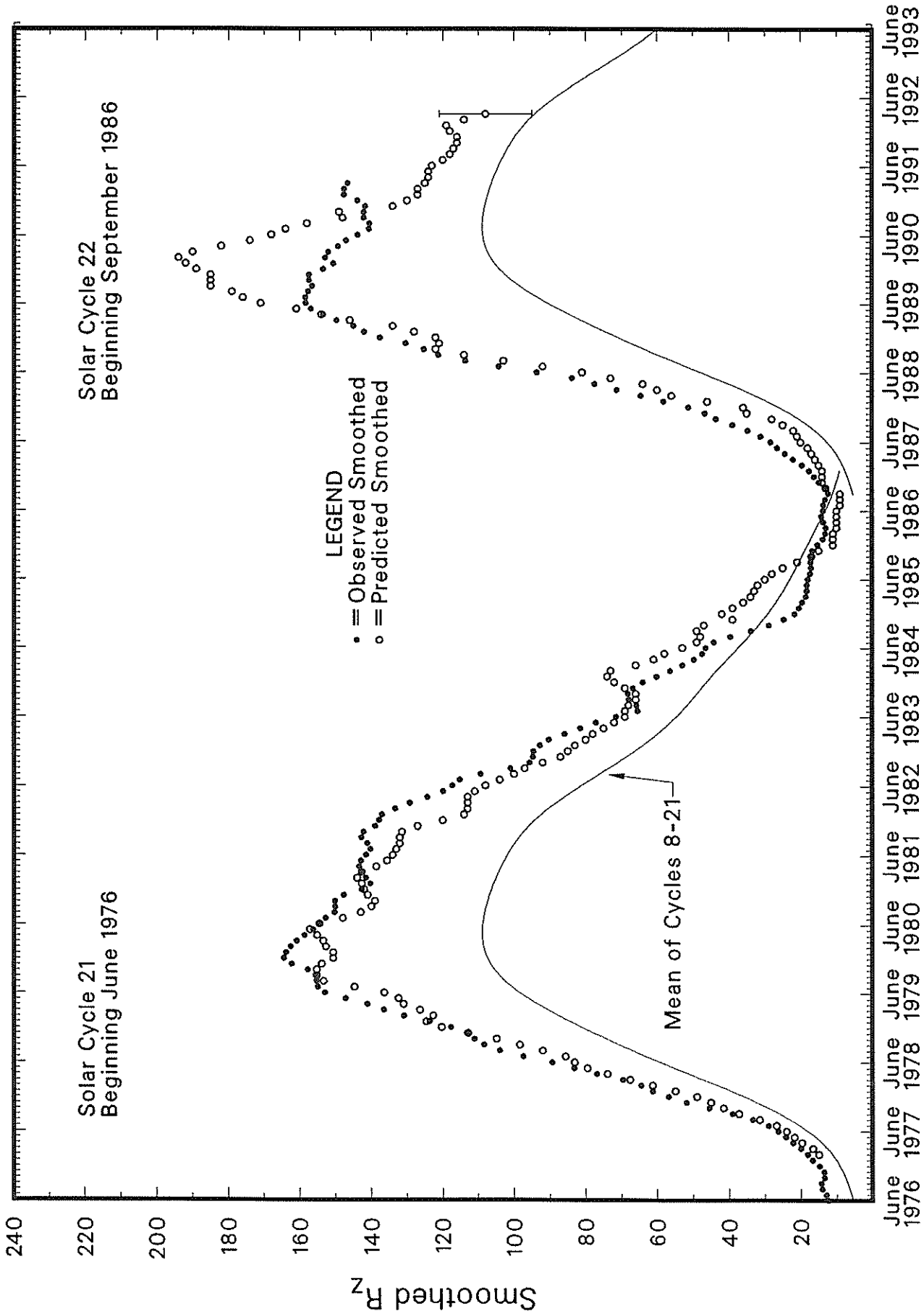
\*Sep 1986 marks the minimum of Cycle 21 and the onset of Cycle 22; Cycle 22 reached a maximum in Jul 1989.

For the end of Solar Cycle 21, and the beginning of 22, the table gives observed smoothed sunspot numbers up to the one calculated from the most recently available monthly mean. These smoothed observed values are based on final, monthly means through June 1991 and on provisional numbers thereafter.

Table entries, with numbers in parentheses below them, denote predictions by the McNish-Lincoln method. (See page 9 in the July 1987 supplement to *Solar-Geophysical Data*.) Adding the number in parentheses to the predicted value generates the upper limit of the 90% confidence interval; subtracting the number from the predicted value generates the lower limit. Consider, for example, the March 1992 prediction. There exists a 90% chance that in March 1992 the actual smoothed sunspot number will fall somewhere between 95 and 121.

THE MCNISH-LINCOLN PREDICTION METHOD GENERATES USEFUL ESTIMATES OF SMOOTHED, MONTHLY MEAN SUNSPOT NUMBERS FOR NO MORE THAN 12 MONTHS AHEAD. Beyond a year the predictions regress rapidly toward the mean of all 13 cycles used in the computation. Moreover, the method is very sensitive to the data defined as the beginning of the current sunspot cycle, that is, to the date of the most recent sunspot minimum. The new cycle predictions tabulated above are based on the minimum value of 12.3 that occurred in September 1986.

# OBSERVED AND ONE-YEAR-AHEAD PREDICTED SUNSPOT NUMBERS



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Sep 91

# H $\alpha$ SOLAR FLARES

SEPTEMBER 1991

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			Remarks
												Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
LEAR	01	0020	0030	0037	S20	E25	6811	09 2.9	17	SF C 1.8	3	E		15	
LEAR		0150	0151	0203	N12	W02	6812	08 31.9	13	SF		E		31	F
LEAR		0205	0209	0226D	S21	E32	6811	09 3.5	21D	1N C 6.1	3	E		143	E
LEAR		0455	0500	0522	S21	E31	6811	09 3.6	27	SF C 2.6	3	E		57	F
LEAR		0523	0528	0532	S03	W32		08 29.9	9	SF		E		10	
SVTO		0717	0717	0731	S21	E30	6811	09 3.6	14	SF C 1.5	3	E		10	
SVTO		0904	0915	0921	S13	W36	6808	08 29.8	17	SF C 2.0	3	E		20	F
SVTO		1035	1038	1058	S20	E12	6811	09 2.3	23	SN C 3.8	3	E		71	
SVTO		1037	1037	1042	S21	E08	6810	09 2.0	5	SF		E		17	
SVTO		1058	1059	1108	N23	W13	6805	08 31.4	10	SF		E		15	
SVTO		1139	1139	1144	S08	W28	6807	08 30.5	5	SF C 1.8	3	E		24	
HOLL		1335	1345	1414	S05	W39		08 29.7	39	1N C 4.4	3	E		175	FE
RAMY		1336	1343	1409	S04	W38		08 29.8	33	1N		E		108	FE
SVTO		1336	1348	1410	S05	W40		08 29.7	34	1N		E		127	F
HOLL		1748	1752	1755	S11	W30	6807	08 30.6	7	SF		E		23	
HOLL		1753	1800	1810	S13	W41	6808	08 29.7	17	SF		E		22	F
HOLL		1808	1809	1816	N24	W17	6805	08 31.4	8	SF		E		16	
HOLL		2121	2123	2131	S20	E08	6811	09 2.5	10	SF		E		49	F
HOLL		2228	2230	2240	S13	W44	6808	08 29.7	12	SF		E		25	F
LEAR	02	0204	0237	0249	N19	W26	6805	08 31.1	45	SF		E		21	
LEAR		0212	0214	0224	S20	E03	6811	09 2.3	12	SF		E		28	
LEAR		0311	0315	0412	S16	E12	6811		61	1F		E		102	K
LEAR		0311	0322	0412	S16	E12	6811	09 3.0	61	1F		E		101	F
GOES		0329		0356D					27D	C 4.1					
GOES		0537	0545	0549					12	C 1.3					
LEAR		0707	0709	0718	S21	W02	6810	09 2.1	11	SF C 1.4	3	E		50	
LEAR		0803	0805	0826	N26	W29	6805	08 31.1	23	SF C 1.9	3	E		38	F
LEAR		0814	0820	0853	N09	W74		08 27.9	39	SF		E		33	
GOES		0856	0900	0903					7	C 1.1					
GOES		0946	1028	1054					68	C 3.7					
SVTO		1057E	1106U	1222D	S20	E01	6811	09 2.5	85D	SF C 6.6	2	E		80	H
RAMY		1105E	1108U	1215D	S17	E08	6811	09 3.1	70D	SF		E		90	FH
RAMY		1226	1232	1251	S21	E07	6811	09 3.0	25	SF C 4.2	3	E		82	F
SVTO		1231	1233	1244	S21	E07	6811	09 3.0	13	SF		E		32	
SVTO		1254	1254	1309	N25	W34	6805	08 31.0	15	SF C 2.6	3	E		76	
RAMY		1348	1353	1410	N12	W25	6812	08 31.7	22	SF		E		17	F
HOLL		1610	1619	1654	N24	W38	6805	08 30.8	44	SF		E		63	F
RAMY		1618	1619	1636	N23	W40	6805	08 30.7	18	SF		E		13	
HOLL		1618	1624	1637	N12	W26	6812	08 31.7	19	SF C 2.3	3	E		66	F
RAMY		1619	1623	1653	N11	W25	6812	08 31.8	34	SF C 2.3	3	E		63	F
HOLL		1726	1729	1736	N12	W26	6812	08 31.8	10	SF		E		13	F
HOLL		1737	1738	1753	S22	E10	6814	09 3.5	16	SF		E		21	F
HOLL		1812	1832	1850	N24	W40	6805	08 30.8	38	SN C 2.0	3	E		58	F
PALE		1833	1834	1839	N24	W40	6805	08 30.8	6	SF		E		16	F
HOLL		1904	1923	1940	N26	W43	6805	08 30.5	36	SF		E		48	
HOLL		2012	2018	2102	S21	E09	6814	09 3.5	50	SF C 1.8	3	E		78	F
PALE		2021	2022	2030	S21	E10	6814	09 3.6	9	SF		E		14	
HOLL		2048	2117	2141	S04	W49	6807	08 30.3	53	SF C 1.8	3	E		40	
HOLL		2113	2146	2205	S19	W03	6811	09 2.6	52	SF C 1.9	3	E		49	
PALE	03	0006E	0031	0033	S19	W03	6811	09 2.8	27D	SF		E		21	
LEAR		0127	0130	0140	N23	W39	6805	08 31.0	13	SF		E		36	
PALE		0139E	0139U	0155	N13	W77	6806	08 28.3	16D	SF		E		31	
PALE		0230	0231	0233	S20	W05	6811	09 2.7	3	SF		E		17	
LEAR		0249	0252	0257	N12	W31	6812	08 31.8	8	SF		E		23	F
LEAR		0301	0345	0426	N22	W44	6805	08 30.8	85	SF		E		48	
LEAR		0302	0316	0415	S17	W04	6811	09 2.8	73	SF C 3.3	3	E		79	F
LEAR		0406	0407	0424	S08	E01	6815	09 3.2	18	SF		E		41	
LEAR		0439	0442	0514	S21	E04	6814	09 3.5	35	SF C 2.9	3	E		72	
LEAR		0543	0546	0557	S20	W07	6811	09 2.7	14	SF		E		28	F
GOES		0546E	0550	0555D					9D	C 3.1					
SVTO		0647	0652	0700	S08	W61		08 29.8	13	SF		E		16	
LEAR		0702	0717	0747	S21	W09	6811	09 2.6	45	SF C 3.1	3	E		29	F
SVTO		0707	0707	0721	S06	W55	6807	08 30.3	14	SF		E		15	
GOES		0824	0829	0835					11	C 3.2					
GOES		0903	0911	0928					25	C 2.8					
GOES		1006	1010	1023					17	C 3.2					

H $\alpha$  S O L A R F L A R E S

SEPTEMBER 1991

Sta	Day	Start UT	Max UT	End UT	Lat	NOAA/ USAF			Dur (Min)	Imp Opt	Xray	Obs See	Area Measurement			Remarks
						Region	Mo	Day					Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
SVTO	03	1130	1134	1153	S06	W59	6807	08 30.2	23	SF	C 1.9	3	E		38	
RAMY		1230	1234	1241	S20	W08	6811	09 2.9	11	SF		3	E		16	
RAMY		1254	1254	1314	S08	W03	6815	09 3.3	20	SF	C 2.5	3	E		19	F
SVTO		1255	1259	1308	S08	W04	6815	09 3.2	13	SF		2	E		36	
GOES		1348	1352	1355					7		C 2.4					
GOES		1359	1402	1404					5		C 2.4					
HOLL		1433	1447	1454	S05	W60	6807	08 30.2	21	SF		3	E		10	F
HOLL		1520	1521	1527	N24	W45	6805	08 31.2	7	SN	C 3.3	3	E		27	FE
RAMY		1521	1521	1536	N24	W46	6805	08 31.1	15	SF	C 3.3	3	E		18	
HOLL		1545	1546	1557	N24	W45	6805	08 31.2	12	SF		3	E		20	F
HOLL		1621	1624	1650	S07	W05	6815	09 3.3	29	SF		3	E		54	F
HOLL		1621	1626	1639	S05	W60	6807	08 30.3	18	SF		3	E		63	F
HOLL		1621	1632	1650	S07	W05	6815		29	SF			E		78	F
HOLL		1638	1640	1644	N24	W46	6805	08 31.1	6	SF		3	E		16	K
HOLL		1709	1714	1729	S20	W13	6811	09 2.7	20	SF		3	E		29	FE
HOLL		1731	1740	1746	S05	W61	6807	08 30.3	15	SF		3	E		33	F
PALE		1736	1741	1749	S05	W62	6807	08 30.2	13	SF		3	E		51	
RAMY		1759	1812	1830	S07	W06	6815	09 3.3	31	SF	C 1.6	3	E		23	
PALE		1821	1839	1843	S05	W60	6807	08 30.4	22	SF		3	E		61	
PALE		1845	1852	1854	S12	W68	6808	08 29.7	9	SF		3	E		70	
HOLL		1922	1931	1936	S04	W62	6807	08 30.3	14	SF		3	E		29	
RAMY		1950	1952	1955	S09	W05	6815	09 3.4	5	SF		3	E		17	
HOLL		2006	2007	2014	S07	W55	6807	08 30.8	8	SN	C 2.6	3	E		46	
RAMY		2016	2016	2020D	S06	W56	6807	08 30.7	4D	SN		2	E		42	
GOES		2256	2302	2304					8		C 2.2					
LEAR	04	0005	0005	0010	S05	W68	6807	08 30.0	5	SF	C 4.3	3	E		27	
GOES		0056	0105	0113					17		C 1.5					
GOES		0137	0141	0145					8		C 1.4					
GOES		0225	0235	0245					20		C 1.4					
GOES		0352	0359	0407					15		C 2.0					
SVTO		0516	0517	0541	N16	W49	6812	08 31.5	25	SF	C 1.9	2	E		40	
SVTO		0636	0638	0642	S06	W71	6807	08 30.1	6	SF		3	E		13	
SVTO		0703	0705	0710	S06	W71	6807	08 30.1	7	SF		3	E		20	
GOES		0810	0820	0827					17		C 1.7					
GOES		0931	0941	0947					16		C 1.7					
RAMY		1116	1117U	1140	N24	W57	6805	08 31.1	24	SF	C 5.1	2	E		44	F
GOES		1201	1211	1221					20		C 1.8					
RAMY		1349	1349	1401	N25	W57	6805	08 31.1	12	SF	C 1.7	3	E		17	
RAMY		1404	1407	1411	N25	W58	6805	08 31.1	7	SF		3	E		19	
RAMY		1415	1431	1505	N25	W59	6805	08 31.0	50	SN	C 9.5	3	E		56	F
SVTO		1429E	1451	1506	N21	W60	6805	08 31.0	37D	SF		3	E		35	F
RAMY		1443	1451	1504	S03	W75	6807	08 30.1	21	SF		3	E		29	
SVTO		1445	1447	1454	S08	W76	6807	08 30.0	9	SF		3	E		30	
GOES		1708	1721	1731					23		C 2.2					
PALE		1820	1842	1941D	N23	W62	6805	08 31.0	81D	1N	M 1.3	3	E		212	F
HOLL		1828	1833	1844D	N24	W61			16D	SN			E		21	K
HOLL		1828	1840	1844D	N24	W61	6805	08 31.0	16D	1B		3	E		160	F
RAMY		1833	1853	1940D	N25	W61	6805	08 31.0	67D	1F		3	E		175	F
PALE		2023E	2025	2043D	N24	W63	6805		20D	1F			E		103	F
PALE		2023E	2043U	2043D	N24	W63	6805	08 31.0	20D	1F	M 1.5	4	E		103	K
GOES		2120	2126	2131					11		C 2.9					FE
GOES	05	0038	0042	0047					9		C 2.6					
GOES		0100	0104	0107					7		C 4.3					
GOES		0104E	0111	0134D					30D		M 4.4					
SVTO		0524	0526	0545	N24	W72	6805	08 30.8	21	SN	M 2.3	2	E		77	F
GOES		0641	0658	0721					40		C 2.1					
GOES		0745	0749	0752					7		C 1.8					
GOES		0843	0846	0848					5		C 1.3					
SVTO		1127	1131	1135	N22	W68	6805	08 31.2	8	SF	C 2.0	3	E		20	
SVTO		1158	1209	1242	N22	W74	6805	08 30.9	44	SF		2	E		25	
RAMY		1201E	1203U	1240	N22	W75	6805	08 30.8	39D	SF	M 1.6	3	E		32	F
RAMY		1236E	1238U	1246	S06	W87	6807	08 30.1	10D	SF	C 2.5	3	E		12	
GOES		1546	1550	1553					7		C 1.9					
GOES		1558	1602	1605					7		C 3.0					
GOES		1644	1648	1653					9		C 1.8					
GOES		1715	1721	1725					10		C 1.8					



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Sta Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement			Remarks
														Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
HOLL 05	1753	1753	1758	N23	W72	6805	08	31.2	5	SN	C 2.6	3	E		48		E
HOLL	1815	1820	1829D	S23	W39	6811	09	2.7	14D	SF		3	E		22		H
GOES	2020	2035	2039						19		C 3.0						
GOES	2121	2204	2340						139		M 2.9						
HOLL	2121E	2222U	2340D	S19	W37	6811	09	3.1	139D	1F		2	E		174		F
GOES	2129	2134	2136						7		C 3.5						
PALE 06	0028E	0031U	0039D	S23	W43	6811	09	2.7	11D	SF		3	E		15		F
PALE	0055	0103	0112	S24	W41	6811	09	2.9	17	SF	C 8.7	3	E		87		F
SVTO	0536E	0654	0718	S13	W29	6818	09	4.0	102D	SF	C 5.2	3	E		84		FH
SVTO	0747	0748	0808	S23	W47	6811	09	2.7	21	SF		4	E		31		
SVTO	0822	0829	0839	S22	W45	6811	09	2.9	17	SF		4	E		24		
SVTO	1141	1142	1205	S09	W41	6815	09	3.4	24	SF		3	E		24		
SVTO	1300	1305	1316	S24	W51	6811	09	2.6	16	1F	C 3.0	2	E		142		
GOES	1345	1349	1351						6		C 7.2						
SVTO	1404	1410	1444	S21	W53	6811	09	2.5	40	SF	C 3.9	3	E		79		F
SVTO	1426	1428	1442	N23	W84	6805	08	31.1	16	SF		3	E		15		
GOES	1545	1548	1551						6		C 2.9						
SVTO	1605	1606	1612	S13	W37	6818	09	3.9	7	SF		2	E		37		
RAMY	1605	1606	1613	S11	W38	6818	09	3.8	8	SF	C 6.0	3	E		27		F
GOES	1618	1621	1626						8		C 3.0						
GOES	1637	1642	1647						10		C 4.0						
RAMY	1803	1830	1839	S21	W62	6810	09	2.0	36	SF		3	E		19		F
RAMY	1909	1910	1918	S10	W39	6818	09	3.9	9	SF	C 3.0	3	E		19		F
RAMY	2005	2007	2012	S22	W53	6811	09	2.8	7	SF		2	E		16		
PALE	2017	2019	2028	S10	W38	6818	09	4.0	11	SF		3	E		16		
PALE	2036	2038	2056D	S23	W52	6811	09	2.8	20D	SF	C 5.4	3	E		45		F
RAMY	2039E	2040	2057	S19	W57	6811	09	2.5	18D	SN		2	E		67		FH
HOLL	2201	2203	2210	S22	W53	6811	09	2.8	9	SF		3	E		61		F
HOLL	2219	2221	2239D	N24	W87	6805	08	31.2	20D	SN	C 4.7	3	E		79		FE
GOES 07	0132	0136	0144						12		C 3.3						
GOES	0247	0257	0312						25		C 7.3						
SVTO	0629	0757	0842	S13	W45	6818	09	3.9	133	1B	M 2.1	3	E		159		F
SVTO	0654	0654	0751	S20	W59	6811	09	2.8	57	1F		3	E		117		
SVTO	0940	1016U	1122	S11	W48	6818	09	3.8	102	2N	M 4.1	3	E		274		F
RAMY	1130E	1132U	1140	S08	W53	6818	09	3.5	10D	SF		2	E		48		F
RAMY	1213E	1213U	1250D	S33	E37	6817	09	10.4	37D	SF		2	E		75		F
SVTO	1213E	1225	1314	S30	E39	6817	09	10.6	61D	1F		3	E		119		F
RAMY	1233	1248	1347D	S11	W46	6818	09	4.1	74D	2B	M 2.1	3	E		273		FE
SVTO	1243	1257	1344	S12	W49	6818	09	3.8	61	1N		3	E		202		
HOLL	1307E	1308U	1339	S11	W47	6818	09	4.0	32D	SF		1	E		29		F
SVTO	1409	1411	1418	S11	W53	6818	09	3.6	9	SF		3	E		23		
HOLL	1729	1734	1739	S22	W64	6811	09	2.8	10	SF		3	E		36		
GOES	1748	1752	1754						6		C 6.4						
HOLL	1821	1826	1859	S11	W51	6818			38	SN			E		39		K
HOLL	1821	1851	1859	S11	W51	6818	09	3.9	38	SF	M 1.9	3	E		32		F
HOLL	1822	1826	1904	S21	W68	6811	09	2.5	42	SN		3	E		52		FE
HOLL	1822	1835	1904	S21	W68	6811			42	SN			E		60		K
PALE	1911E	1935	2021D	S11	W50	6818	09	4.0	70D	2B	X 3.3	3	E		252		FE
HOLL	1920	1927	2009	S12	W50	6818	09	4.0	49	2B		3	E		308		UF
HOLL	1920	1941	2009	S12	W50	6818			49	1B			E		134		K
HOLL	1922	1926	1941	S22	W66	6811	09	2.7	19	1N		3	E		154		
HOLL	1922	1930	1941	S22	W66	6811			19	1B			E		181		K
PALE	2130E	2148	2204	S12	W57	6818	09	3.6	34D	SF		3	E		65		
GOES	2249	2253	2309						20		C 6.1						
PALE	2329E	2343	2349	S10	E16	6820	09	9.2	20D	SF	C 7.4	3	E		14		
HOLL	2349	2353	2409	S11	W54	6818	09	3.9	20	SF	C 7.1	2	E		23		F
PALE	2356	2401	2409D	S22	W70	6811	09	2.6	13D	SF		3	E		12		
PALE 08	0143E	0150U	0227	S11	W54	6818	09	4.0	44D	SF	M 2.1	3	E		59		
GOES	0636	0642	0653						17		C 7.8						
GOES	0813	0818	0826						13		M 1.0						
SVTO	0906E	0916U	0949D	S13	W58	6818	09	4.0	43D	2N	X 1.0	1	E		251		F
SVTO	1005	1012U	1028	S13	W59	6818	09	4.0	23	SF		2	E		33		F
SVTO	1102	1111	1132	S03	E65	6822	09	13.3	30	SF		3	E		50		
RAMY	1110E	1110U	1131	S06	E66	6822	09	13.4	21D	SF		2	E		44		
SVTO	1128	1132	1155	S12	E09	6820	09	9.1	27	SF	M 2.7	3	E		37		F

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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			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
SVTO	08	1134	1201	1206D	S26	W86	6811	09	1.8	32D	1N		3	E		192		F
RAMY		1145	1200	1216	S21	W79	6811	09	2.4	31	1N		3	E		186		FE
SVTO		1247	1253	1311	S16	W59	6818	09	4.0	24	SF		3	E		16		
SVTO		1255	1303	1314	S04	E64	6822	09	13.3	19	SF		3	E		23		
HOLL		1406	1413	1423	N02	E22		09	10.2	17	SF		3	E		13		F
SVTO		1425	1426	1434	S03	E63	6822	09	13.3	9	SF		3	E		25		
HOLL		1426	1426	1447	S05	E64	6822	09	13.4	21	SF		3	E		29		F
RAMY		1434	1442	1516	S12	W63	6818	09	3.9	42	SN		3	E		71		
HOLL		1437	1438	1503	S14	W61	6818	09	4.0	26	SN		3	E		32		FE
HOLL		1456	1458	1500	S22	E74		09	14.3	4	SF		3	E		12		
RAMY		1504	1505	1511	S07	E63	6822	09	13.3	7	SF		3	E		18		F
RAMY		1526	1529	1602	S12	E06	6820	09	9.1	36	SF		3	E		40		F
HOLL		1613	1617	1638	N02	E22	6823	09	10.3	25	SF		3	E		20		FE
HOLL		1626	1627	1633	S11	E05	6820	09	9.1	7	SF		3	E		15		F
RAMY		1633	1640	1647	S21	W76	6811	09	2.9	14	SF		3	E		68		
HOLL		1633	1640	1650	S21	W70	6811	09	3.3	17	SF		3	E		70		F
HOLL		1653	1654	1701	S20	W83	6811	09	2.3	8	SN	C 8.9	3	E		37		FE
RAMY		1653	1654	1701	S21	W87	6811	09	2.0	8	SF	C 8.9	3	E		41		
HOLL		1655	1658	1701	S18	E74	6824	09	14.3	6	SF		3	E		14		F
RAMY		1740	1741	1748	S22	W87	6811	09	2.0	8	SF		3	E		37		
HOLL		1741	1742	1745	S23	W79	6811	09	2.6	4	SF		3	E		21		
RAMY		1759	1801	1804	N03	E18	6823	09	10.1	5	SF		3	E		12		FE
HOLL		1759	1801	1812	N02	E20	6823	09	10.2	13	SN	C 8.6	3	E		20		FE
HOLL		1829	1831	1905	S11	W64	6818	09	3.9	36	SF	C 7.5	3	E		28		F
RAMY		1833	1837	1839D	N01	E20	6823	09	10.3	60	SF		3	E		14		
HOLL		1905	1909	1918	S12	W63	6818	09	4.0	13	SF		3	E		30		F
RAMY		1908	1911	1916	S09	W70	6818	09	3.5	8	SF		3	E		26		
PALE		2028E	2029	2126	N03	E18	6823	09	10.2	58D	SF		3	E		13		
PALE		2030	2040	2102	S13	W66	6818	09	3.9	32	SF		3	E		65		
GOES		2035	2044	2110						35		M 1.6						
PALE		2214E	2215U	2226	S04	E62	6822	09	13.6	12D	SF		3	E		37		
PALE		2230	2233	2254D	S12	E02	6820	09	9.1	24D	SF		3	E		28		
HOLL		2232	2233	2317	S12	E03	6820	09	9.2	45	SF		3	E		39		F
HOLL		2321	2323	2336	S10	W67	6818	09	3.9	15	SF		3	E		15		
SVTO	09	0555	0605	0653D	S19	E70	6824			58D	SF			E		171		K
GOES		0555E	0608	0653						58D		M 2.0						
SVTO		0555	0608	0704	S19	E70	6824	09	14.6	69	SF		4	E		32		FH
GOES		0854	0912	0949						55		C 3.1						
SVTO		1334	1339	1342	S18	E62	6824	09	14.3	8	SF		3	E		19		
GOES		1650	1653	1656						6		C 2.5						
GOES		1746	1752	1756						10		C 3.1						
GOES		2110	2113	2115						5		C 2.8						
PALE		2209E	2210	2229	S19	E61	6824	09	14.6	20D	SF	C 2.7	3	E		24		
GOES	10	0321	0333	0343						22		C 8.5						
GOES		0634	0759	0923						169		C 6.6						
GOES		1017	1022	1028						11		C 4.8						
GOES		1345	1350	1355						10		C 7.3						
GOES		1453	1515	1530						37		C 4.3						
GOES		1738	1743	1752						14		C 4.7						
PALE		1804E	1804U	1822	S20	E46	6824	09	14.3	18D	SF		3	E		17		
GOES		2046	2111	2137						51		M 3.0						
GOES	11	0248	0332	0356						68		C 4.7						
SVTO		0545	0553	0609	S16	E46	6824	09	14.7	24	SF		4	E		21		
GOES		0617	0708	0720						63		C 2.3						
SVTO		0835	0837	0843	S13	E58	6827	09	15.7	8	SF	C 1.4	4	E		18		F
GOES		0858	0910	0922						24		C 2.4						
SVTO		0939	0946	1001	N17	E28		09	13.5	22	SF		4	E		45		F
HOLL		2014E	2101	2145	S22	E30	6824	09	14.1	91D	1B	C 4.0	3	E		175		F
HOLL		2014E	2122	2145	S22	E30	6824			91D	1B			E		79		F
HOLL		2159	2203	2214	S19	E52	6827	09	15.9	15	SF		3	E		27		K
GOES	12	0519	0526	0535						16		C 1.5						
GOES		0646	0649	0655						9		C 1.5						
SVTO		0843	0843	0856	N16	E15		09	13.5	13	SF		3	E		23		
RAMY		1245	1249	1311	N01	W29	6823	09	10.4	26	1N	C 3.9	3	E		142		FH

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
HOLL	12	1818	1821	1846	N02	W33	6823	09	10.3	28	SF	C 1.7	3	E		79		F
	PALE	1821	1821	1832	N02	W34	6823	09	10.2	11	SF	C 1.7	3	E		10		
		1823E	1825U	1910D	N02	W33	6823	09	10.3	47D	SF		1	E		27		
	RAMY	1823	1850	1914	S23	E22	6824	09	14.5	51	SF		3	E		70		F
	HOLL	1952	1953	2008	S12	E62		09	17.5	16	SF	C 1.5	3	E		32		F
GOES	13	0007	0025	0035						28		C 1.3						
GOES		0507	0517	0522						15		C 4.6						
GOES		0921	0926	0950						29		C 1.1						
GOES		1210	1222	1249						39		C 1.3						
RAMY		1340	1343	1348	N03	W41	6823	09	10.5	8	SF		3	E		18		F
GOES		1455	1458	1502						7		C 1.7						
GOES		1723	1729	1734						11		C 1.8						
GOES		1746	1753	1759						13		C 3.4						
GOES	14	0003	0010	0016						13		C 3.0						
SVTO		1219	1229	1250	S06	W11	6822	09	13.7	31	SF		3	E		46		F
SVTO		1343	1351	1418	S21	E01	6824	09	14.6	35	1N	C 5.3	3	E		199		UF
RAMY		1345E	1347U	1428D	S20	W04	6824	09	14.3	43D	SF		3	E		86		FH
HOLL		1347E	1348U	1413D	S20	W02	6824	09	14.4	26D	1N		2	E		186		FE
GOES		1538	1542	1545						7		C 1.2						
HOLL		1641	1642	1649	S12	W69	6820	09	9.5	8	SF		3	E		33		F
HOLL		1810	1810	1814	S21	E09	6827	09	15.4	4	SF		3	E		41		
HOLL		1811	1812	1815	S20	W08	6824	09	14.1	4	SF		3	E		10		
HOLL		1844	1846	1902	N06	E61	6832	09	19.3	18	SF		3	E		20		
HOLL		2030	2100	2127	S05	W18	6822	09	13.5	57	SF		3	E		68		F
HOLL		2226	2226	2241	S21	W09	6824	09	14.2	15	SF		3	E		22		
GOES	15	0101	0106	0121						20		C 1.0						
GOES		1127	1134	1141						14		C 1.3						
RAMY		1419	1422	1452	S21	W19	6824	09	14.1	33	1N	C 9.4	3	E		101		FH
HOLL		1420E	1428U	1451D	S27	W20	6824	09	14.0	31D	1N		2	E		135		FE
GOES		2135	2140	2147						12		C 1.4						
GOES	16	0118	0121	0124						6		C 1.2						
GOES		0738	0808	0833						55		C 8.1						
GOES		1021	1025	1037						16		C 1.4						
GOES		1545	1551	1604						19		C 1.1						
HOLL		1804	1804	1811	N07	E33	6832	09	19.2	7	SF		3	E		10		
HOLL		2109	2118	2144	S24	W17	6827	09	15.6	35	SF	C 1.7	3	E		72		F
HOLL		2113	2117	2128	S22	W36	6824	09	14.1	15	SF		3	E		20		F
GOES	17	0010	0015	0025						15		C 1.9						
GOES		0304	0307	0309						5		C 1.0						
GOES		0807	0836	0849						42		C 1.6						
GOES		1029	1047	1059						30		C 1.6						
GOES		1215	1222	1228						13		C 1.8						
HOLL		1456E	1456U	1514D	S21	W27	6827	09	15.5	18D	SF		3	E		37		F
RAMY		1456	1456	1611D	S23	W26	6827	09	15.6	75D	SF	C 1.3	3	E		26		
SVTO		1519E	1527	1531	N08	E17	6832	09	18.9	12D	SF		3	E		36		F
HOLL		1546	1548	1614	N06	E17	6832	09	18.9	28	SB	C 4.4	3	E		90		FH
SVTO		1556E	1601U	1614	N07	E16	6832	09	18.9	18D	SF		3	E		72		H
HOLL		1900E	1903U	1912D	N08	E14	6832	09	18.8	12D	SN	M 1.3	1	E		54		
GOES	18	0149	0153	0155						6		C 1.6						
GOES		0157	0201	0204						7		C 2.3						
PALE		0225E	0227	0233	N08	E11	6832	09	18.9	8D	SF		3	E		13		
GOES		0417E	0422	0425D						8D		C 3.2						
SVTO		0625E	0626U	0715D	N06	E08	6832	09	18.9	50D	SF		2	E		98		F
GOES		0758	0801	0803						5		C 2.7						
GOES		0805	0808	0810						5		C 3.4						
GOES		0916	0919	0921						5		C 2.7						
GOES		0934	0941	0950						16		C 4.4						
RAMY		1118	1119U	1156	N07	E08	6832	09	19.1	38	SF	C 2.9	1	E		15		FH
SVTO		1348	1353	1432	N07	E04				44	SN	C 3.8		E		50		K
RAMY		1348	1355	1403	N07	E02	6832	09	18.7	15	SF	C 3.8	3	E		30		F
SVTO		1348	1414	1432	N07	E04	6832	09	18.9	44	SN	C 7.6	3	E		56		FE
RAMY		1407	1409	1426	N04	E04	6832	09	18.9	19	SF		3	E		26		F

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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			Remarks
															Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	
RAMY	18	1511	1512	1527	N07	E05	6832	09	19.0	16	SF		3	E		26		F
PALE		1708	1723	1733	N08	E00	6832	09	18.7	25	SN C	4.0	4	E		20		H
GOES		2223	2229	2243						20		C	2.0					
GOES	19	0449	0452	0454						5		C	1.3					
LEAR		0626	0652	0734	N09	W04	6832	09	19.0	68	1F		3	E		102		F
SVTO		1052	1054	1114	S24	W51	6827	09	15.5	22	SF C	3.4	3	E		66		
RAMY		1305	1306	1330	N05	W11	6832	09	18.7	25	SF C	1.4	3	E		39		
LEAR	20	0230	0230	0236	S21	W61	6827	09	15.4	6	SF C	1.6	3	E		33		
LEAR		0250	0255	0310	N05	W18	6832	09	18.8	20	SF C	2.5	3	E		54		F
SVTO		0953	0956	1005	N08	W19	6832	09	19.0	12	SF C	1.2	3	E		14		
RAMY		1401	1407	1429	N08	W21	6832	09	19.0	28	SF C	2.2	3	E		26		F
SVTO		1406	1407	1429	N06	W19	6832	09	19.2	23	SF		3	E		25		
RAMY		1444	1451	1516	N08	W21	6832	09	19.0	32	SF C	3.2	3	E		36		
SVTO		1446	1451	1511	N07	W22	6832	09	19.0	25	SF		3	E		33		
RAMY		1801	1802	1826	N06	W62		09	16.1	25	SF		3	E		26		
LEAR	21	0319	0323	0343	N08	W31	6832	09	18.8	24	SF C	1.2	3	E		21		
SVTO		0757	0759	0805	S14	W27	6841	09	19.3	8	SF		3	E		33		
SVTO		0833	0834	0842	N07	W33	6832	09	18.9	9	SF		3	E		25		
GOES		0850	0908	0924						34		C	2.1					
GOES		0925	0932	0944						19		C	2.5					
SVTO		0952	0957	1005	S14	W29	6841	09	19.2	13	SF		3	E		17		
SVTO		0957	1009	1018	N06	W30	6832	09	19.2	21	SF		3	E		25		
GOES		1645	1735	2011						206		C	2.5					
HOLL		1809	1811	1824D	S20	W18		09	20.4	15D	SF		2	E		39		
GOES	22	0137	0141	0146						9		C	2.2					
LEAR		0405	0415	0423	S15	W36	6841	09	19.4	18	SF C	1.5	3	E		17		
GOES		0929	0933	0937						8		C	1.3					
SVTO		1102	1110	1155	S11	W46	6841			53	SF			E		42		K
SVTO		1102	1130	1155	S11	W46	6841	09	19.0	53	SF C	2.6	3	E		57		F
GOES		1334	1339	1346						12		C	2.3					
GOES		1403	1407	1412						9		C	1.8					
SVTO		1546	1550	1610D	S15	W45	6841	09	19.2	24D	1F		1	E		116		F
HOLL		1547	1552	1655	S11	W46	6841	09	19.2	68	1N C	6.2	3	E		120		UF
HOLL		1553	1553	1558	S22	W37	6846	09	19.8	5	SF		3	E		11		F
HOLL		1603	1604	1606	S23	W49		09	18.9	3	SF		3	E		12		F
HOLL		1655	1659	1714	N07	W52	6832	09	18.8	19	SF		3	E		21		F
HOLL		1717	1720	1728	S12	W45	6841	09	19.3	11	SF		3	E		19		F
HOLL		1802	1805	1809	N08	W54	6832	09	18.7	7	SF		3	E		19		
HOLL		1828	1927	2002	S11	W50	6841	09	19.0	94	SF		3	E		27		F
LEAR		2326	2335	2358	S15	W47	6841	09	19.4	32	SF C	2.2	3	E		46		F
LEAR	23	0343	0345	0352	N06	W59	6832	09	18.7	9	1F C	4.2	3	E		114		E
PALE		0346E	0346U	0350	N07	W56	6832	09	19.0	4D	SF		2	E		36		F
LEAR		0400	0404	0432	S12	W52	6841	09	19.2	32	1N C	3.8	3	E		115		F
GOES		0725	0731	0741						16		C	2.4					
LEAR		0902	0903	0906	S17	W49	6847	09	19.6	4	SF		3	E		13		F
SVTO		0903E	0903	0910	S14	W54	6841	09	19.3	7D	SF		3	E		14		
SVTO		1023	1025	1040	S14	W56	6841	09	19.2	17	SF C	3.3	3	E		43		
SVTO		1131	1135	1140	N04	W65	6832	09	18.6	9	SF C	1.9	3	E		62		F
SVTO		1302	1304	1340	S14	W58	6841	09	19.1	38	SF C	2.8	3	E		85		
GOES		1427	1438	1447						20		C	2.3					
HOLL		1437E	1510U	1522	S11	W58	6841	09	19.2	45D	SF C	2.6	1	E		69		F
HOLL		1754	1759	1824	S11	W58	6841	09	19.4	30	1N M	1.0	3	E		147		FE
PALE		1757E	1759	1812	S12	W59	6841	09	19.3	15D	SN M	1.0	4	E		72		F
HOLL		2007	2012	2042	S09	E34	6842	09	26.4	35	SF		3	E		52		F
HOLL		2015	2018	2038	S13	W60	6841	09	19.3	23	SF C	2.5	3	E		22		
PALE		2146	2146	2151	S12	W59	6841	09	19.5	5	SF C	3.4	3	E		14		
GOES	24	0052	0056	0058						6		C	2.7					
GOES		0130	0137	0148						18		C	3.5					
LEAR		0224	0233	0243	S24	W72	6835	09	18.5	19	SF		3	E		83		
LEAR		0455	0457	0506	S14	W65	6841	09	19.3	11	SF		3	E		21		F
LEAR		0518	0521	0532	S26	W72	6835	09	18.6	14	SN C	3.7	3	E		68		E
LEAR		0525	0528	0536	S14	W61	6841	09	19.6	11	SF		3	E		22		

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Sta	Day	Start (UT)	Max (UT)	End (UT)	NOAA/			Dur (Min)	Imp Opt	Xray	Obs See	Area Measurement			Remarks
					Lat	CMD	Region					Mo	Day	Time (UT)	
GOES	24	0536	0540	0544				8		C 3.3					
GOES		0616	0631	0655				39		C 5.2					
[SVTO		0751E	0755	0819D	S10	E88	6848	09 30.9	28D	1N M 6.1	2	E	102		H
LEAR		0759E	0801U	0804	S14	E88	6848	10 1.0	5D	1F		E	230		
LEAR		0836	0836	0842	S14	W67	6841	09 19.3	6	SF		E	16		
SVTO		0922	0923	0937	N06	E12	6845	09 25.3	15	SF		E	41		F
SVTO		1058E	1101	1111	S27	W75	6835	09 18.6	13D	SF		E	12		
GOES		1231	1236	1241				10		C 3.4					
RAMY		1318	1321	1336	S24	W74	6847	09 18.8	18	SF C 4.0	3	E	86		
[SVTO		1436	1437	1443	S14	W73	6841	09 19.1	7	SF		E	12		
RAMY		1436	1439	1458D	S11	W72	6841	09 19.2	22D	SF C 3.3	3	E	18		
GOES		1543	1550	1558				15		C 2.4					
HOLL		1745	1746	1753	S13	W70	6841	09 19.4	8	SF C 2.8	3	E	16		
HOLL		1929	1932	1939	N10	W08	6849	09 24.2	10	SF		E	19		
GOES		2019	2024	2033				14		C 2.6					
HOLL		2131	2132	2138	N11	W09	6849	09 24.2	7	SF		E	15		
HOLL		2301	2302	2321	N10	W34	6838	09 22.4	20	SF		E	15		
GOES	25	0135	0159	0227				52		C 5.0					
LEAR		0327	0333	0336	N09	W13	6849	09 24.2	9	SF C 3.5	3	E	15		F
SVTO		1112	1114	1119	S10	E73	6850	09 30.9	7	SF C 9.7	3	E	32		
[HOLL		1350	1353	1412	S11	W75	6841	09 19.9	22	SF		E	60		
SVTO		1351	1354	1410	S15	W88	6841	09 18.9	19	SF		E	47		
GOES		1446	1455	1505				19		C 5.9					
[RAMY		1624	1625	1631	S21	E51		09 29.6	7	SF C 3.0	3	E	29		
HOLL		1624	1625	1633	S20	E52		09 29.7	9	SF C 3.0	4	E	41		
RAMY		1649	1654	1704	S13	E67	6850	09 30.7	15	SF		E	15		
GOES		2009	2015	2024				15		C 3.3					
HOLL		2033	2036	2040	S12	E67	6850	09 30.9	7	SF		E	39		F
HOLL		2049	2101	2107	S12	E79	6850	10 1.8	18	SF		E	13		F
HOLL		2055	2056	2059	S10	W85	6841	09 19.5	4	SF		E	21		
HOLL		2117	2119	2131	S11	W50	6844	09 22.1	14	SF		E	33		
HOLL		2138	2139	2156	S12	E79	6850	10 1.8	18	SF		E	19		
HOLL		2228	2231	2251	N10	W24	6849	09 24.1	23	SF C 4.9	3	E	11		F
HOLL		2230	2232	2244	S11	E65	6850	09 30.8	14	SF		E	31		FE
HOLL		2234	2234	2238	S11	W86	6841	09 19.5	4	SF		E	35		F
HOLL		2239	2239	2253	S09	W06	6842	09 25.5	14	SF		E	19		F
HOLL		2254	2259	2302	S12	E74	6850	10 1.5	8	SF		E	15		F
HOLL		2313	2315	2336	S09	W07	6842	09 25.4	23	SF		E	21		F
HOLL		2320	2320	2323	S11	E66	6850	09 30.9	3	SF		E	10		
GOES	26	0020	0025	0031				11		C 8.0					
GOES		0103	0110	0112				9		C 3.8					
GOES		0142	0146	0150				8		C 3.6					
LEAR		0237	0241	0246	S13	E66	6850	10 1.1	9	SF		E	91		F
LEAR		0407	0409	0412	S12	E76	6850	10 1.9	5	SF		E	24		
GOES		0440	0448	0457				17		C 3.1					
SVTO		0525E	0553	0615D	S09	E64	6850	10 1.0	50D	SF		E	56		F
LEAR		0614	0619	0633	S19	E70	6850	10 1.6	19	SF		E	21		F
SVTO		0620E	0717	0732	S18	E76		10 2.0	72D	SF M 1.7	4	E	92		F
[LEAR		0648	0651	0722	S09	W12	6842	09 25.4	34	SN		E	90		
SVTO		0649	0658	0725	S10	W11	6842	09 25.4	36	SF		E	72		F
SVTO		0855E	0907U	0917D	S10	E65	6850	10 1.2	22D	SF C 9.6	2	E	14		F
RAMY		1224	1228	1256	S19	E75		10 2.2	32	SN M 3.4	3	E	66		F
[RAMY		1224	1242	1256	S19	E75		10 2.2	32	SN		E	49		K
SVTO		1228	1240U	1254	S18	E75		10 2.2	26	SF		E	30		
HOLL		1352E	1356	1413	S11	E53	6850	09 30.6	21D	SF C 3.8	2	E	58		
HOLL		1559	1601	1605	S12	E55	6850	09 30.8	6	SF C 2.6	3	E	14		F
[RAMY		1701	1702	1727	S13	E55	6850	09 30.8	26	SF		E	30		F
HOLL		1701	1703	1737	S12	E55	6850	09 30.8	36	SF		E	112		K
[HOLL		1701	1707	1737	S12	E55	6850	09 30.8	36	SN C 3.8	3	E	58		
GOES		1906	1930	1936				30		C 4.8					
[HOLL		2011	2022	2041	S20	E69	6853	10 2.1	30	SF		E	65		F
PALE		2012	2014	2016	S19	E74	6853	10 2.5	4	SF		E	20		
[HOLL		2042	2050	2150	S07	E46	6848	09 30.3	68	1B M 1.4	3	E	154		F
[HOLL		2042	2058	2150	S07	E46	6848	09 30.3	68	1B		E	181		K
HOLL		2221	2223	2233	S18	E68	6853	10 2.1	12	SF		E	39		F
GOES		2306	2320	2334				28		C 5.8					

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Dur Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)	Remarks
LEAR	27	0011	0033	0106	S19	E66	6853	10	2.0	55	SF		3	E				
LEAR		0036	0048	0125	S13	E50	6850	09	30.8	49	1F		3	E		124		F
LEAR		0055	0110	0124	S07	E40	6848	09	30.0	29	SF C	4.3	3	E		45		
LEAR		0349	0351	0404	S07	E39	6848	09	30.1	15	SF		3	E		16		
LEAR		0353	0353	0400	S18	E61	6853	10	1.8	7	SF C	8.5	3	E		37		
LEAR		0429	0436	0447	S20	E64	6853	10	2.1	18	SF		4	E		47		F
GOES		0937	0945	0956						19	C	1.7						
HOLL		1548	1601	1719	S18	E56	6853	10	1.9	91	SF C	7.0	3	E				F
RAMY		1557	1603	1710	S22	E62	6853			73	SF			E		58		K
RAMY		1557	1640	1710	S22	E62	6853	10	2.4	73	SF		3	E		98		F
RAMY		1734	1734	1746	S20	E61	6853	10	2.4	12	SF		3	E		11		
HOLL		2125	2125	2139	S09	E46	6850	10	1.3	14	SF		3	E		19		
HOLL		2126	2129	2139	S20	E57	6853	10	2.2	13	SF		3	E		49		
GOES		2223	2227	2253						30	C	1.5						
HOLL		2225	2225	2255	S12	E48	6850	10	1.5	30	SF C	1.4	3	E		15		
LEAR	28	0111	0115	0119	S13	E47	6850	10	1.6	8	SF C	2.0	3	E		16		
GOES		0149	0156	0204						15	C	3.1						
LEAR		0219	0221	0225	S11	E37	6850	09	30.9	6	SF		3	E		25		
GOES		0322	0326	0331						9	C	1.5						
GOES		0443	0447	0451						8	C	1.7						
GOES		0535	0538	0545						10	C	1.7						
GOES		0604	0612	0616						12	C	1.6						
LEAR		0720	0722	0729	S11	E42	6850	10	1.5	9	SF C	1.9	3	E		26		F
GOES		0931	0954	1052						81	C	2.1						
GOES		1321	1324	1327						6	C	1.7						
GOES		1354	1358	1403						9	C	1.3						
HOLL		1709	1710	1716	N17	E65		10	3.6	7	SF		3	E		20		
HOLL		1753	1753	1759	N17	E65	6855	10	3.7	6	SF		3	E		11		
HOLL		1807	1815	1823	N17	E65	6855	10	3.7	16	SF		3	E		25		
PALE		1919	1919	1928	N19	E65	6855	10	3.8	9	SF		3	E		14		
PALE		1943	1946	1957	N19	E65	6855	10	3.8	14	SF		3	E		43		
PALE		2021	2021	2027	N19	E66	6855	10	3.9	6	SF		3	E		16		
GOES		2039	2052	2102						23	C	1.3						
GOES		2216	2219	2240						24	C	1.3						
LEAR		2313	2316	2420	N17	E62	6855	10	3.7	67	SF		3	E		70		
GOES		2314	2356	2429						75	C	4.4						
LEAR		2317	2353	2439	S12	E29	6850	10	1.1	82	SF		3	E		80		
HOLL		2323E	2324U	2401D	S12	E30	6850	10	1.2	38D	SF		1	E		16		F
HOLL		2337E	2402U	2408D	S11	E20	6848	09	30.5	31D	1N		1	E		151		F
GOES	29	0154	0200	0207						13	C	2.8						
LEAR		0335	0337	0348	S21	E42	6853	10	2.4	13	SF		3	E		40		
LEAR		0629	0656	0705	S22	E43	6853	10	2.6	36	SF		3	E		26		F
SVTO		0645	0645	0700	S20	E43	6853	10	2.6	15	SF C	2.6	4	E		13		
SVTO		0818	0818	0830	S20	E42	6853	10	2.5	12	SF C	2.6	4	E		17		
SVTO		0926	0936	1019	S15	W41	6842	09	26.3	53	1F C	2.7	4	E		105		F
LEAR		0928	0934	0951	S09	W45	6842	09	26.0	23	SF		2	E		93		F
SVTO		1306	1315	1351	S19	E38	6853	10	2.4	45	SF C	2.8	3	E		44		F
HOLL		1409E	1412U	1421D	S21	E38	6853	10	2.5	12D	SF C	2.7	2	E		33		F
HOLL		1513	1531	1739	S21	E32	6853	10	2.1	146	4B M	7.3	4	E				UY
SVTO		1514	1528	1602D	S21	E30	6853	10	1.9	48D	2N		3	E		455		SF
SVTO		1517	1525	1602D	S15	E31	6850	10	2.0	45D	2B		3	E		383		F
HOLL		1607	1611	1617	S09	E00	6848	09	29.7	10	SF		3	E		13		F
RAMY		1613E	1614U	1735	S18	E27	6853	10	1.7	82D	2F		3	E		437		F
PALE		1643E	1643U	1738D	S19	E28	6853	10	1.8	55D	SF		3	E		94		YF
HOLL		1740	1742	1747	S18	E27	6853	10	1.8	7	SF		3	E		29		F
HOLL		1830	1831	1839	S10	E26	6850	10	1.7	9	SF		3	E		20		
HOLL		1921	1923	1938	S19	E32	6853	10	2.2	17	SN C	4.9	4	E		51		FE
PALE		1922	1923	1932	S18	E33	6853	10	2.3	10	SF C	4.9	3	E		22		
HOLL		2055	2056	2109	S11	E23	6850	10	1.6	14	SN C	3.6	3	E		29		FE
PALE		2056	2100	2106D	S10	E24	6850	10	1.7	10D	SF		3	E		12		
HOLL		2120	2121	2125	S19	E32	6853	10	2.3	5	SF C	3.1	3	E		24		F
HOLL		2252	2255	2301	S20	E32	6853	10	2.4	9	SF		3	E		20		
PALE	30	0121	0122	0135	S19	E30	6853	10	2.3	14	SF C	2.7	3	E		13		
GOES		0202	0206	0214						12	C	2.1						
LEAR		0425	0429	0445	S21	E28	6853	10	2.3	20	SF C	2.0	3	E		30		F

H $\alpha$  SOLAR FLARES

SEPTEMBER 1991

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/USAF		CMP Mo	Dur (Min)	Imp Opt	Xray	Obs See	Type	Area Measurement		Remarks
							Region	Day							Time (UT)	Apparent (10-6 Disk)	
LEAR	30	0425	0437	0454	N06	W67	6845	09	25.2	29	SF		3	E	24		F
LEAR		0451	0454	0503	S13	E23	6850	10	1.9	12	SF	C 8.2	3	E	44		
GOES		0601	0614	0618						17		C 2.3					
SVTO		0637	0701	0706	S12	E24	6850	10	2.1	29	SF		4	E	49		F
SVTO		0639	0718	0741	S19	E28	6853	10	2.4	62	SF	C 2.5	4	E	23		F
LEAR		0706	0715	0721	S20	E25	6853	10	2.2	15	SF		3	E	15		F
LEAR		0820	0821	0830	S20	E24	6853	10	2.2	10	SF	C 1.9	3	E	24		F
GOES		0932	0938	0944						12		C 3.1					
GOES		1121	1126	1130						9		C 2.6					
RAMY		1254	1306U	1331	S20	E24	6853	10	2.4	37	SF	C 4.6	2	E	27		F
RAMY		1321	1322	1330	S12	E15	6850	10	1.7	9	SF		3	E	13		F
HOLL		1429	1435	1543	S11	E11	6850	10	1.4	74	SN		4	E	62		FE
SVTO		1432E	1435U	1515D	S08	E11	6850	10	1.4	43D	SF		1	E	76		
HOLL		1452	1505	1528	S19	E23	6853	10	2.4	36	SF	C 7.1	4	E	26		
HOLL		1533	1536	1558	S12	W61	6842	09	26.0	25	SF	C 5.1	4	E	85		FE
HOLL		1533	1541	1558	S12	W61	6842			25	1F			E	140		K
RAMY		1821	1821	1828	S12	E10	6850	10	1.5	7	SF		3	E	23		F
HOLL		1824E	1824U	1829D	S12	E06	6850	10	1.2	5D	SF		2	E	12		
HOLL		2022	2023	2101	S11	E11	6850			39	SF			E	32		K
HOLL		2022	2038	2101	S11	E11	6850	10	1.7	39	SF	C 2.2	3	E	27		F
RAMY		2036	2038	2046	S12	E09	6850	10	1.5	10	SF		3	E	15		F
HOLL		2113	2120	2325	S12	E07	6850			132	SN			E	24		K
HOLL		2113	2229	2325	S12	E07	6850	10	1.4	132	SN		3	E	48		FE
PALE		2230E	2254U	2324D	S11	E08	6850	10	1.5	54D	SF		3	E	26		F
LEAR		2233E	2240	2358	S12	E03	6850	10	1.2	85D	SN	M 1.0	3	E	71		F
LEAR		2233E	2318	2358	S12	E03	6850			85D	SN			E	54		K
GOES		2248	2259	2305						17		C 6.4					

"Remarks"

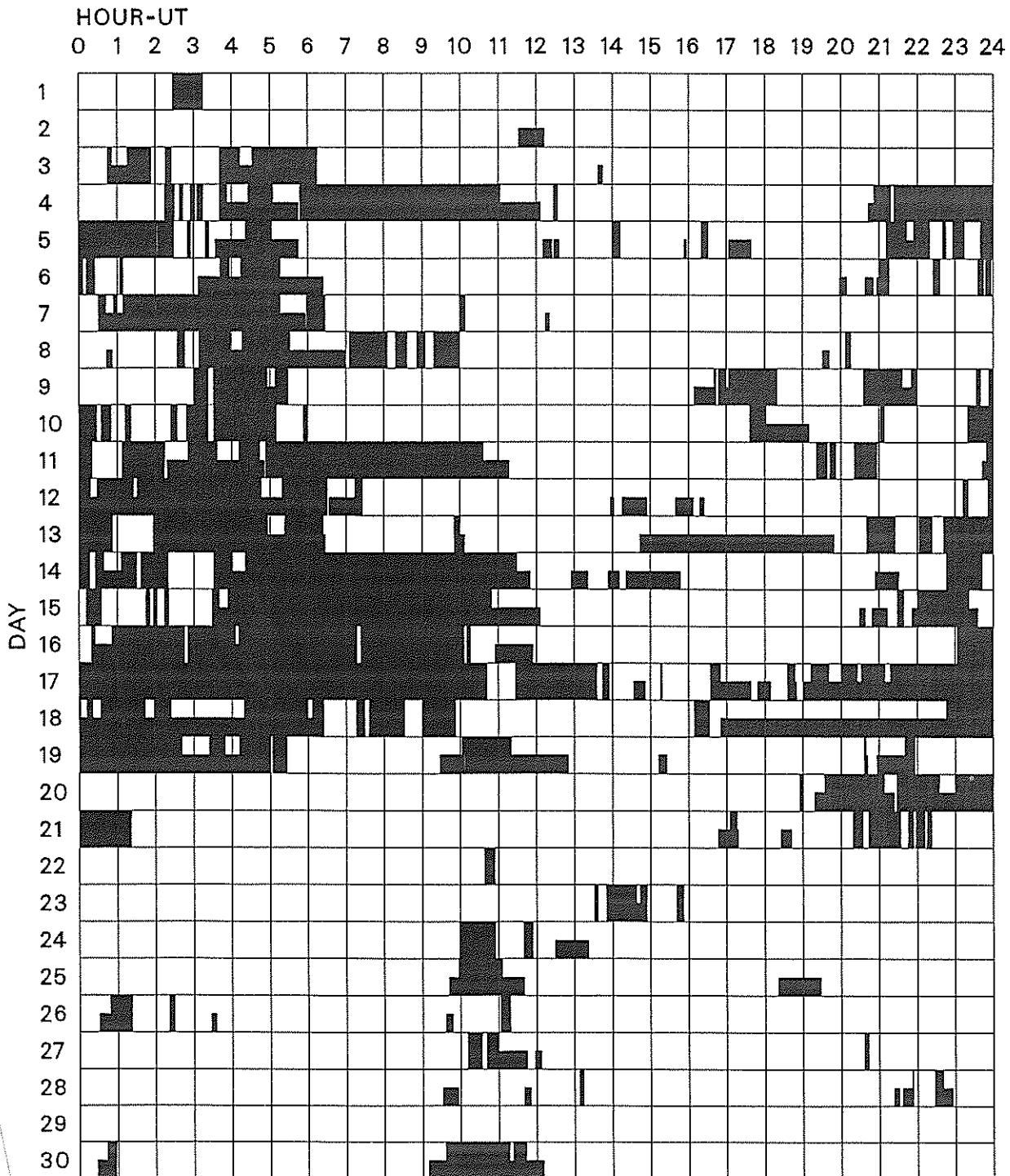
- |   |   |
|---|---|
| <p>A = Eruptive prominence whose base is less than 90 degrees from central meridian.<br/>         B = Probably the end of a more important flare.<br/>         C = Invisible 10 minutes before.<br/>         D = Brilliant point.<br/>         E = Two or more brilliant points.<br/>         F = Several eruptive centers.<br/>         G = No visible spots in the neighborhood.<br/>         H = Flare accompanied by high-speed dark filament.<br/>         I = Active region very extended.<br/>         J = Distinct variations of plage intensity before or after the flare.<br/>         K = Several intensity maxima.<br/>         L = Existing filaments show signs of sudden activity.<br/>         M = White-light flare.<br/>         N = Continuous spectrum shows effects of polarization.</p> | <p>O = Observations have been made in the H and K lines of Ca II.<br/>         P = Flare shows Helium D3 in emission.<br/>         Q = Flare shows Balmer continuum in emission.<br/>         R = Marked asymmetry in H-alpha line suggests ejection of high-velocity material.<br/>         S = Brightness follows disappearance of filament in same position.<br/>         T = Region active all day.<br/>         U = Two bright branches, parallel or converging.<br/>         V = Occurrence of an explosive phase; important, expansion within roughly 1 minute that often includes a significant intensity increase.<br/>         W = Great increase in area after time of maximum intensity.<br/>         X = Unusually wide H-alpha line.<br/>         Y = System of loop-type prominences.<br/>         Z = Major sunspot umbra covered by flare.</p> |
|---|---|

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

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

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Sep 91

## SEPTEMBER 1991



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.

Holloman

Learmonth

Palehua

Ramey

San Vito



SOLAR RADIO EMISSION  
Selected Fixed Frequency Events

SEPTEMBER 1991

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks	
						Peak (10 <sup>-22</sup> W/m <sup>2</sup> Hz)	Mean (2 Hz)			
01	2695 PALE	8 S	0208.0E	0208.0	U	23.0			QL=4 ST=3 TYP=3	
04	8800 PALE	8 S	2023.0E	2024.0	2.0D	200.0			QL=4 ST=2 TYP=3	
	2695 PALE	8 S	2023.0E	2024.0	2.0D	25.0			QL=4 ST=2 TYP=3	
05	8800 LEAR	4 S/F	0107.0E	0110.0	7.0D	59.0			QL=4 ST=2 TYP=3	
	8800 SVTO	8 S	0525.0E	0526.0	2.0D	160.0			QL=2 ST=2 TYP=3	
	8800 SVTO	8 S	1206.0E	1206.0	1.0D	42.0			QL=4 ST=2 TYP=3	
	2695 PALE	4 S/F	2200.0E	2200.0	3.0D	500.0			QL=4 ST=2 TYP=3	
	8800 PALE	4 S/F	2200.0E	2201.0	11.0D	140.0			QL=4 ST=2 TYP=3	
06	8800 SGMR	8 S	1403.0E	1404.0	2.0D	73.0			QL=4 ST=2 TYP=3	
	8800 SVTO	8 S	1403.0E	1404.0	2.0D	72.0			QL=4 ST=2 TYP=3	
07	8800 SVTO	4 S/F	1000.0E	1002.0	8.0D	140.0			QL=4 ST=2 TYP=3	
	8800 SGMR	4 S/F	1242.0E	1243.0	7.0D	240.0			QL=4 ST=2 TYP=3	
	8800 SVTO	4 S/F	1242.0E	1243.0	9.0D	230.0			QL=4 ST=2 TYP=3	
	2695 SGMR	4 S/F	1243.0E	1244.0	6.0D	83.0			QL=4 ST=2 TYP=3	
	2695 PALE	20 GRF	1822.0E	1828.0	8.0D	42.0			QL=4 ST=2 TYP=2	
	8800 PALE	8 S	1823.0E	1823.0	1.0D	28.0			QL=4 ST=2 TYP=3	
	2695 SGMR	8 S	1827.0E	1828.0	2.0D	39.0			QL=4 ST=2 TYP=3	
	8800 SGMR	4 S/F	1827.0E	1828.0	4.0D	54.0			QL=4 ST=2 TYP=3	
	2695 PALE	4 S/F	1920.0E	1928.0	14.0D	290.0			QL=4 ST=2 TYP=5	
	8800 SGMR	49 GB	1920.0E	1923.0	13.0D	700.0			QL=4 ST=2 TYP=7	
	2695 SGMR	4 S/F	1920.0E	1928.0	11.0D	280.0			QL=4 ST=2 TYP=3	
	8800 PALE	4 S/F	1921.0E	1923.0	10.0D	470.0			QL=4 ST=2 TYP=3	
	08	2695 LEAR	20 GRF	0144.0E	0151.0	15.0D	48.0			QL=4 ST=2 TYP=2
8800 LEAR		4 S/F	0147.0E	0151.0	12.0D	24.0			QL=4 ST=2 TYP=5	
8800 SVTO		49 GB	0906.0E	0910.0	22.0D	540.0			QL=4 ST=2 TYP=7	
2695 LEAR		4 S/F	0907.0E	0910.0	11.0D	390.0			QL=4 ST=2 TYP=3	
8800 LEAR		49 GB	0907.0E	0910.0	21.0D	540.0			QL=4 ST=2 TYP=7	
2695 SVTO		4 S/F	0908.0E	0910.0	20.0D	360.0			QL=2 ST=2 TYP=5	
8800 SVTO		20 GRF	1127.0E	1132.0	58.0D	33.0			QL=4 ST=2 TYP=2	
2695 SVTO		20 GRF	1128.0E	1132.0	56.0D	28.0			QL=4 ST=2 TYP=2	
2695 PALE		8 S	1653.0E	1653.0	2.0D	47.0			QL=4 ST=2 TYP=3	
8800 PALE		8 S	1653.0E	1653.0	1.0D	59.0			QL=4 ST=2 TYP=3	
8800 SGMR		8 S	1653.0E	1653.0	1.0D	70.0			QL=4 ST=2 TYP=3	
2695 SGMR		8 S	1653.0E	1653.0	1.0D	60.0			QL=4 ST=2 TYP=3	
2695 PALE		8 S	2035.0E	2036.0	1.0D	43.0			QL=4 ST=2 TYP=3	
09		8800 LEAR	8 S	0559.0E	0600.0	2.0D	37.0			QL=4 ST=3 TYP=3
		8800 SVTO	8 S	0559.0E	0600.0	2.0D	44.0			QL=4 ST=2 TYP=3
	2695 SVTO	8 S	0600.0E	0601.0	2.0D	27.0			QL=2 ST=2 TYP=3	
	2695 LEAR	8 S	0601.0E	0601.0	1.0D	22.0			QL=4 ST=3 TYP=3	
	8800 SVTO	4 S/F	0606.0E	0608.0	7.0D	54.0			QL=4 ST=2 TYP=3	
	8800 PALE	8 S	1807.0E	1807.0	U	95.0			QL=4 ST=3 TYP=3	
10	8800 SGMR	8 S	1346.0E	1346.0	U	57.0			QL=4 ST=2 TYP=3	
	2695 PALE	4 S/F	2105.0E	2108.0	12.0D	140.0			QL=4 ST=2 TYP=3	
	8800 PALE	4 S/F	2105.0E	2108.0	12.0D	90.0			QL=4 ST=2 TYP=3	
14	2695 LEAR	8 S	0005.0E	0005.0	U	38.0			QL=4 ST=2 TYP=3	
	2695 PALE	8 S	0005.0E	0005.0	U	35.0			QL=4 ST=2 TYP=3	
	2695 SGMR	8 S	1343.0E	1345.0	2.0D	72.0			QL=4 ST=2 TYP=3	
	2695 SVTO	8 S	1344.0E	1345.0	1.0D	120.0			QL=4 ST=2 TYP=3	
15	2695 SGMR	4 S/F	1419.0E	1421.0	5.0D	56.0			QL=4 ST=2 TYP=3	
	8800 SGMR	4 S/F	1421.0E	1421.0	3.0D	38.0			QL=2 ST=2 TYP=3	
18	8800 LEAR	8 S	0149.0E	0149.0	U	30.0			QL=4 ST=2 TYP=3	
	8800 PALE	8 S	0149.0E	0149.0	U	47.0			QL=4 ST=2 TYP=3	
	8800 LEAR	8 S	0151.0E	0152.0	1.0D	36.0			QL=4 ST=2 TYP=3	
	2695 LEAR	8 S	0151.0E	0152.0	1.0D	36.0			QL=4 ST=2 TYP=3	
	2695 PALE	8 S	0151.0E	0152.0	1.0D	31.0			QL=4 ST=2 TYP=3	
	8800 PALE	8 S	0151.0E	0152.0	1.0D	51.0			QL=4 ST=2 TYP=3	
	2695 LEAR	8 S	0421.0E	0421.0	1.0D	33.0			QL=4 ST=2 TYP=3	
	8800 LEAR	8 S	0421.0E	0421.0	1.0D	99.0			QL=4 ST=2 TYP=3	
	2695 SGMR	4 S/F	1407.0E	1408.0	3.0D	38.0			QL=4 ST=2 TYP=3	

S O L A R R A D I O E M I S S I O N  
Selected Fixed Frequency Events

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Sep 91

SEPTEMBER 1991

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density		Int	Remarks
						Peak (10 -22 W/m 2 Hz)	Mean		
18	8800 SGMR	8 S	1409.0E	1410.0	1.0D	28.0		QL=4 ST=2 TYP=3	
	8800 PALE	8 S	1721.0E	1722.0	1.0D	26.0		QL=4 ST=2 TYP=3	
	2695 PALE	8 S	1721.0E	1722.0	1.0D	31.0		QL=4 ST=2 TYP=3	
24	8800 SVTO	49 GB	0616.0E	0618.0	7.0D	540.0		QL=2 ST=2 TYP=6	
	2695 LEAR	8 S	0617.0E	0618.0	2.0D	38.0		QL=4 ST=2 TYP=3	
	8800 LEAR	4 S/F	0617.0E	0618.0	5.0D	490.0		QL=4 ST=2 TYP=3	
	2695 SVTO	8 S	0617.0E	0618.0	2.0D	45.0		QL=2 ST=3 TYP=3	
	8800 LEAR	4 S/F	0751.0E	0752.0	3.0D	99.0		QL=4 ST=2 TYP=3	
	2695 SVTO	4 S/F	0751.0E	0753.0	4.0D	230.0		QL=4 ST=2 TYP=3	
	8800 SVTO	8 S	0752.0E	0752.0	1.0D	78.0		QL=2 ST=2 TYP=3	
	8800 SGMR	4 S/F	1322.0E	1329.0	8.0D	65.0		QL=4 ST=2 TYP=3	
	8800 SGMR	4 S/F	1327.0E	1332.0	8.0D	65.0		QL=4 ST=3 TYP=3	
	8800 SVTO	4 S/F	1327.0E	1332.0	7.0D	78.0		QL=2 ST=2 TYP=5	
2695 SVTO	8 S	1328.0E	1329.0	1.0D	29.0		QL=4 ST=2 TYP=3		
26	2695 LEAR	4 S/F	0646.0E	0651.0	6.0D	64.0		QL=4 ST=2 TYP=3	
	2695 SVTO	8 S	0649.0E	0651.0	2.0D	59.0		QL=2 ST=2 TYP=3	
	8800 LEAR	8 S	0650.0E	0651.0	1.0D	32.0		QL=4 ST=2 TYP=3	
	8800 SVTO	8 S	0650.0E	0651.0	1.0D	24.0		QL=4 ST=2 TYP=3	
	8800 LEAR	8 S	0855.0E	0855.0	2.0D	37.0		QL=4 ST=2 TYP=3	
	8800 SGMR	4 S/F	1227.0E	1234.0	9.0D	310.0		QL=2 ST=2 TYP=5	
	8800 SVTO	4 S/F	1232.0E	1233.0	3.0D	300.0		QL=4 ST=2 TYP=3	
	2695 SGMR	8 S	1233.0E	1234.0	1.0D	33.0		QL=4 ST=2 TYP=3	
	2695 SVTO	8 S	1233.0E	1234.0	2.0D	46.0		QL=2 ST=2 TYP=3	
27	2695 LEAR	8 S	0352.0E	0353.0	1.0D	210.0		QL=4 ST=3 TYP=3	
	8800 LEAR	4 S/F	0352.0E	0353.0	8.0D	71.0		QL=4 ST=3 TYP=3	
	2695 SVTO	4 S/F	1602.0E	1605.0	16.0D	96.0		QL=4 ST=2 TYP=3	
	2695 SGMR	20 GRF	1602.0E	1613.0	20.0D	54.0		QL=4 ST=2 TYP=2	
29	2695 SVTO	49 GB	1513.0E	1526.0	53.0D	720.0		QL=2 ST=2 TYP=7	
	2695 SGMR	49 GB	1514.0E	1526.0	63.0D	630.0		QL=4 ST=2 TYP=7	
	8800 SGMR	20 GRF	1516.0E	1526.0	61.0D	220.0		QL=4 ST=2 TYP=2	
	8800 SVTO	20 GRF	1517.0E	1527.0	45.0D	190.0		QL=4 ST=2 TYP=2	
	8800 PALE	8 S	2055.0E	2055.0	U	47.0		QL=4 ST=2 TYP=3	
30	8800 LEAR	8 S	0451.0E	0451.0	1.0D	120.0		QL=4 ST=2 TYP=3	
	8800 LEAR	8 S	0932.0E	0933.0	2.0D	38.0		QL=4 ST=2 TYP=3	
	2695 LEAR	8 S	0932.0E	0933.0	1.0D	32.0		QL=4 ST=2 TYP=3	
	8800 SVTO	8 S	0932.0E	0933.0	2.0D	52.0		QL=2 ST=2 TYP=3	
	2695 SVTO	8 S	0933.0E	0933.0	U	31.0		QL=2 ST=2 TYP=3	
	2695 SVTO	8 S	1121.0E	1121.0	1.0D	37.0		QL=2 ST=2 TYP=3	
	2695 SGMR	4 S/F	1427.0E	1428.0	8.0D	31.0		QL=4 ST=2 TYP=3	
	8800 SGMR	4 S/F	1427.0E	1428.0	8.0D	48.0		QL=4 ST=2 TYP=3	
	8800 SGMR	8 S	1428.0E	1428.0	2.0D	54.0		QL=4 ST=2 TYP=3	
	2695 SVTO	8 S	1428.0E	1428.0	U	31.0		QL=2 ST=2 TYP=3	

Reports are received routinely from the following observatories:

BERN = Berne

LEAR = Learmonth

PALE = Palehua

SGMR = Sagamore Hill

OTTA = Ottawa

PENT = Penticton

SVTO = San Vito

Explanation of Type Code:

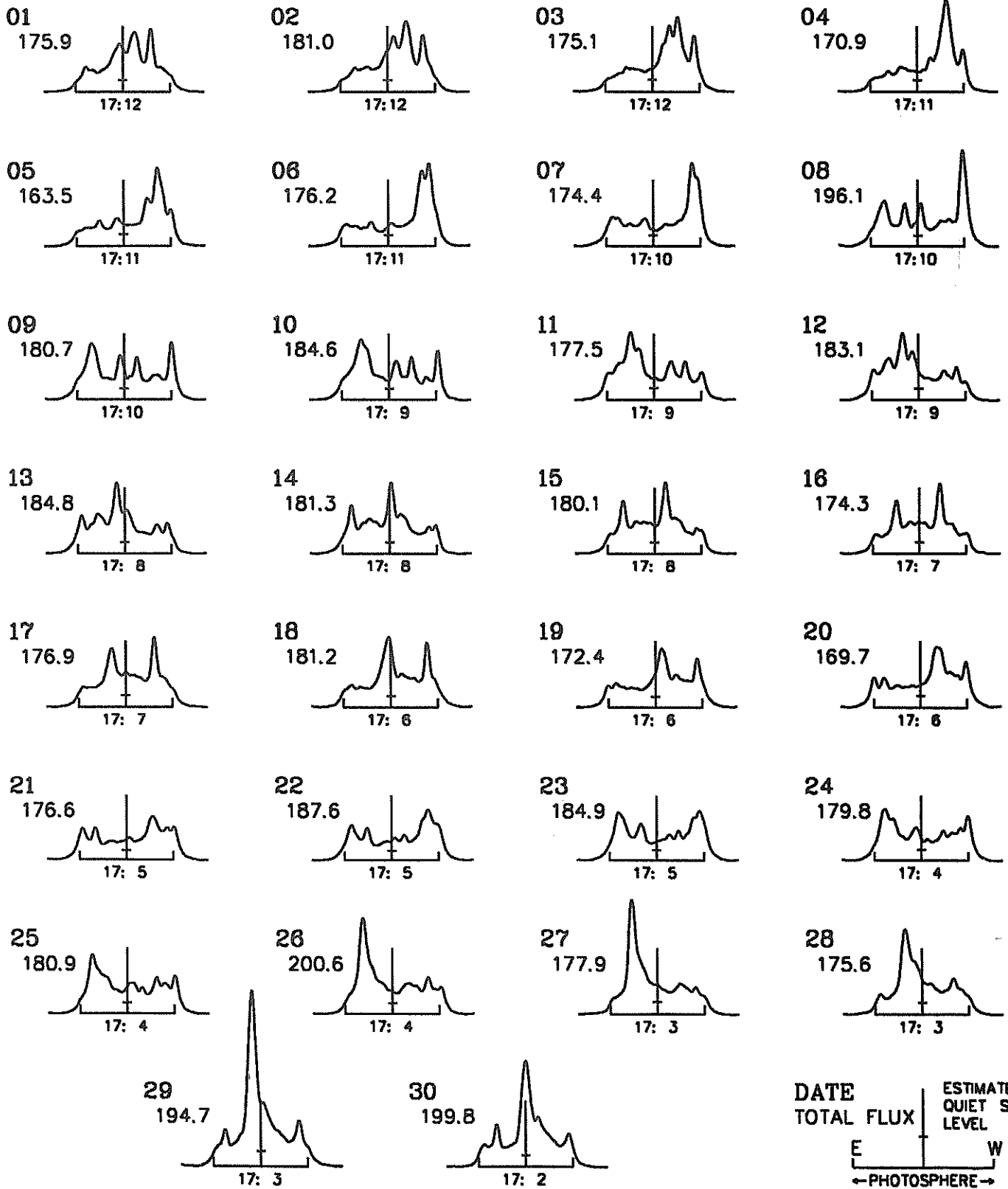
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2 Simple 1F	8 Spike	25 Rise A	31 Post Burst Decrease	44 Noise Storm in Progress
3 Simple 2	20 Simple 3	26 Fall	33 Absorption	45 Complex
4 Simple 2F	21 Simple 3A	27 Rise and Fall	40 Fluctuation	46 Complex F
5 Simple	22 Simple 3F	28 Precursor	41 Group of Bursts	47 Great Burst
6 Minor	23 Simple 3AF	29 Post Burst Increase	42 Series of Bursts	48 Major
1A Simple 1A	4A Simple 2AF	24PF Post Rise F	27F Rise and Fall F	
3A Simple 2A	40 Rise Only	16A Fall A	27AF Rise and Fall AF	
21A Simple 3A GRF	40F Rise Only F	260 Fall Only	31A Post Burst Decrease A	
2A Simple 1AF	4P Post Rise	26F Fall F	32A Absorption A	

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Sep 91

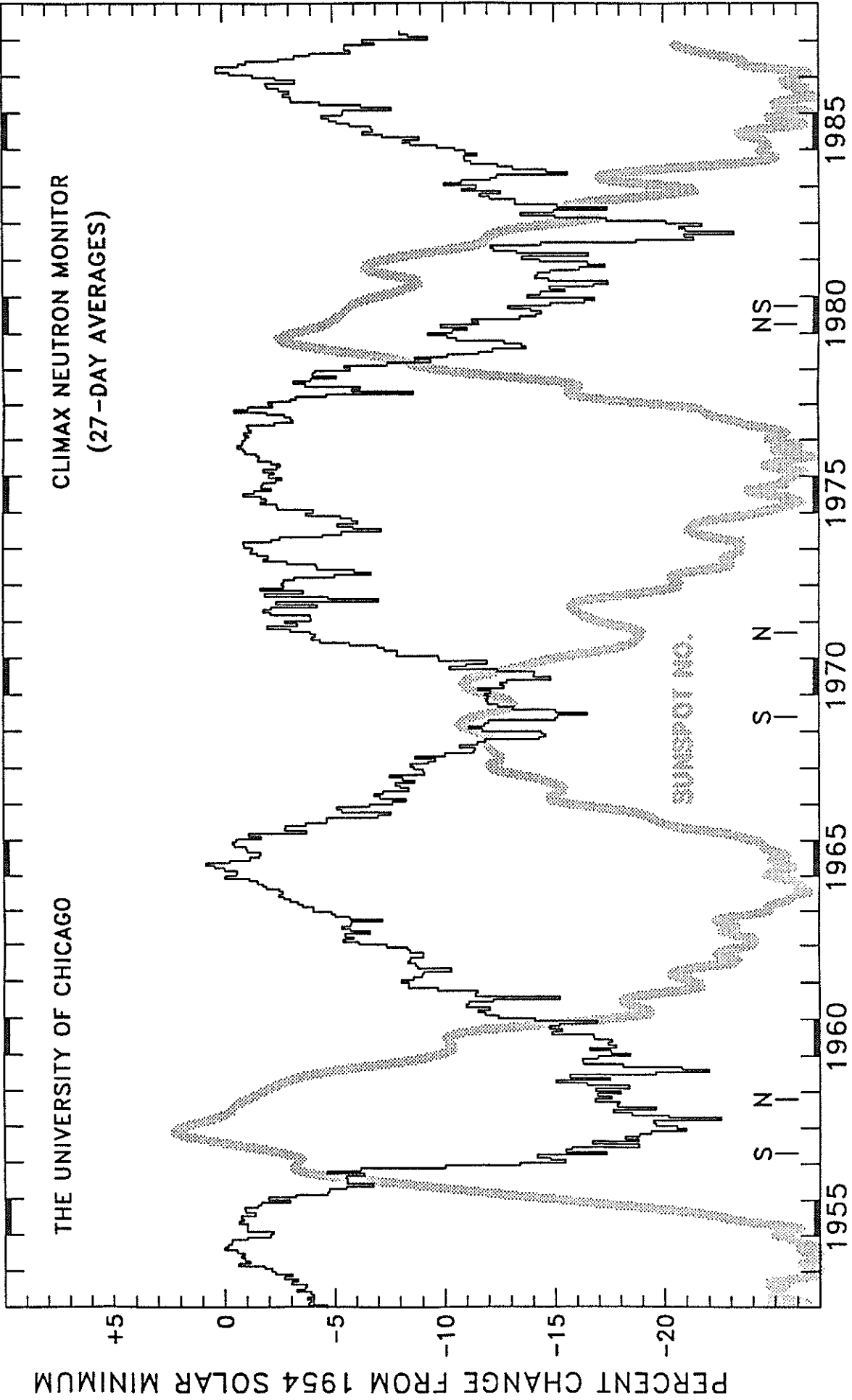
# EAST - WEST SOLAR SCANS SEPTEMBER 1991

ALGONQUIN RADIO OBSERVATORY  
CANADA

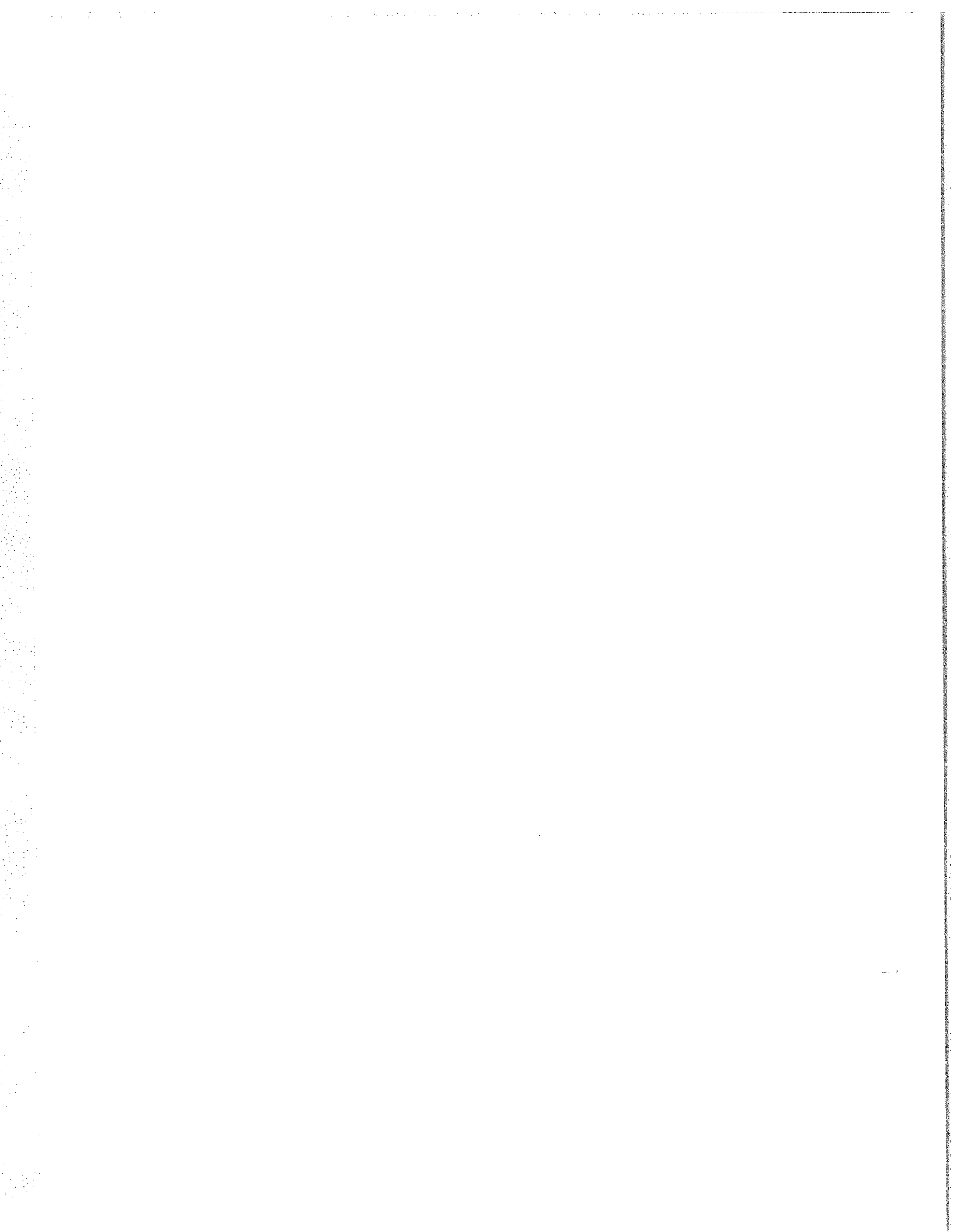
10.7 cm  
Fan Beam with 1.5 minutes of arc  
E - W Resolution



DATE  
TOTAL FLUX  
ESTIMATED QUIET SUN LEVEL  
← PHOTOSPHERE →  
TIME U.T.



43  
Sep 91  
PF033 (20 APR 88)  
DATA==>31 MAR 87



C O N T E N T S

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P R E L I M I N A R Y   H - A L P H A   S O L A R   S Y N O P T I C   C H A R T  
CARRINGTON ROTATION NUMBER 1844  
(28 June to 25 July 1991)

Dates of Observations Below      Days of Year:

EDITOR'S NOTE: This program is being threatened. Please direct any letters  
of support to:

Dr. Ernie Hildner, Director  
NOAA Space Environment Lab  
R/E/SE  
325 Broadway  
Boulder, CO 80303-3328 USA

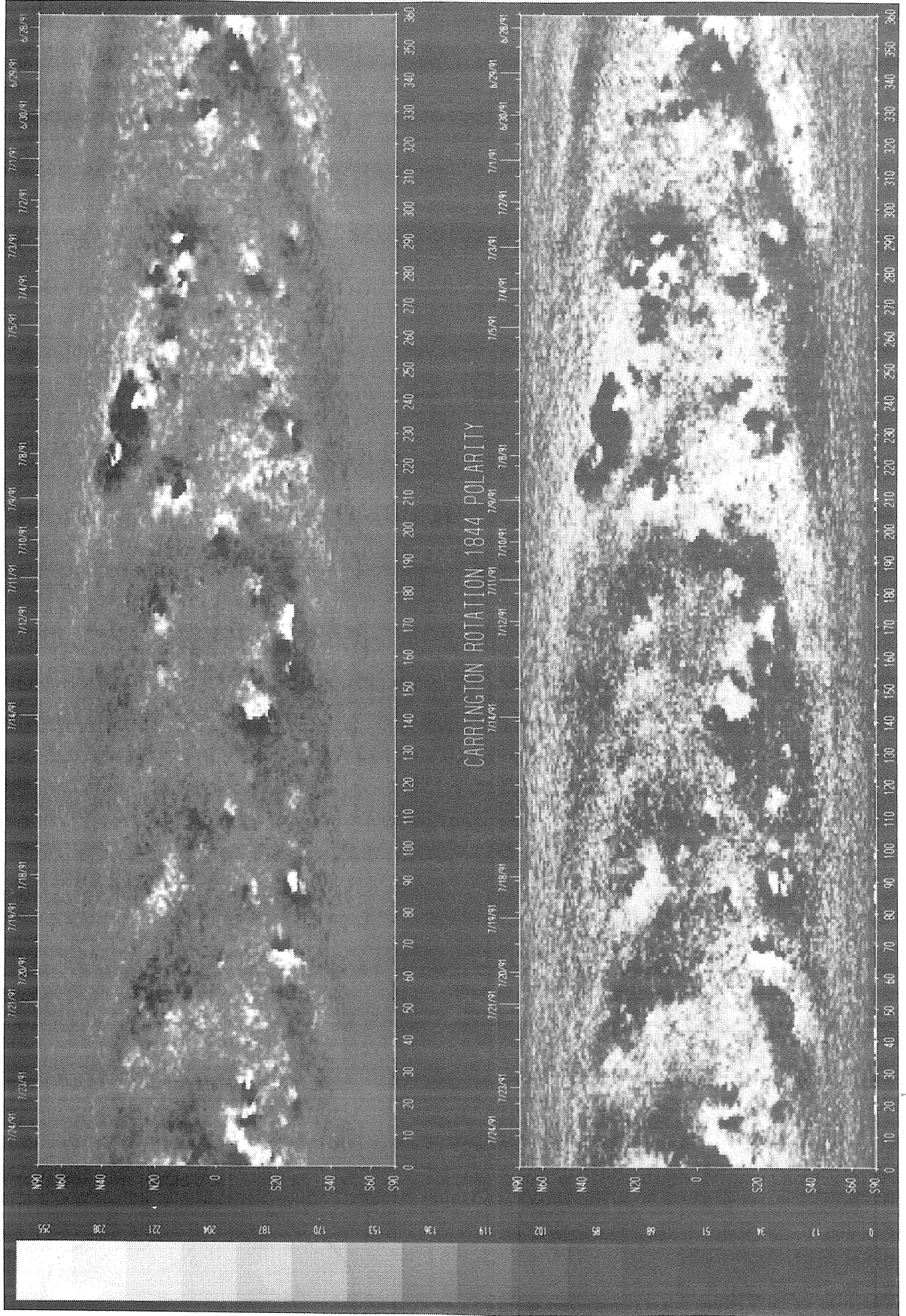
FAX 303-497-3645

Heliographic Longitude

**SOLAR MAGNETIC FIELD SYNOPSIS CHART**  
CARRINGTON ROTATION NUMBER 1844  
(28 June to 25 July 1991)

National Solar Observatory/Kitt Peak

Dates of Observation



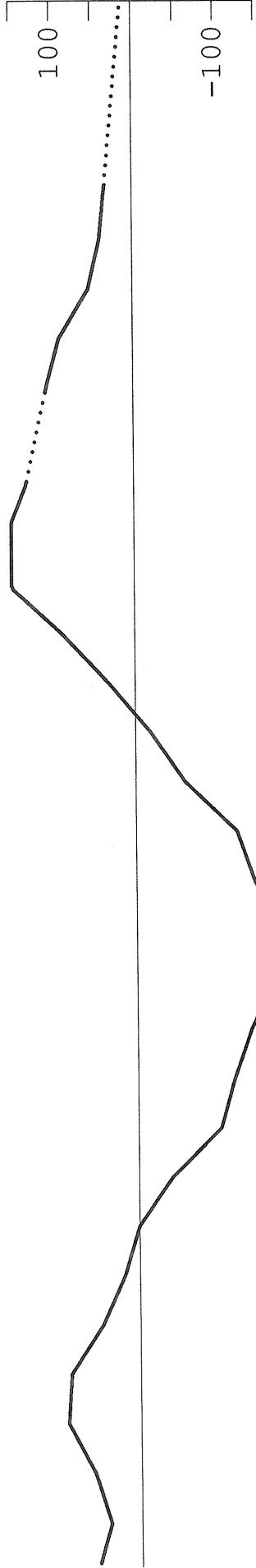
Heliographic Longitude



SOLAR MAGNETIC FIELD SYNOPTIC CHART  
CARRINGTON ROTATION NUMBER 1844  
(28 June to 25 July 1991)

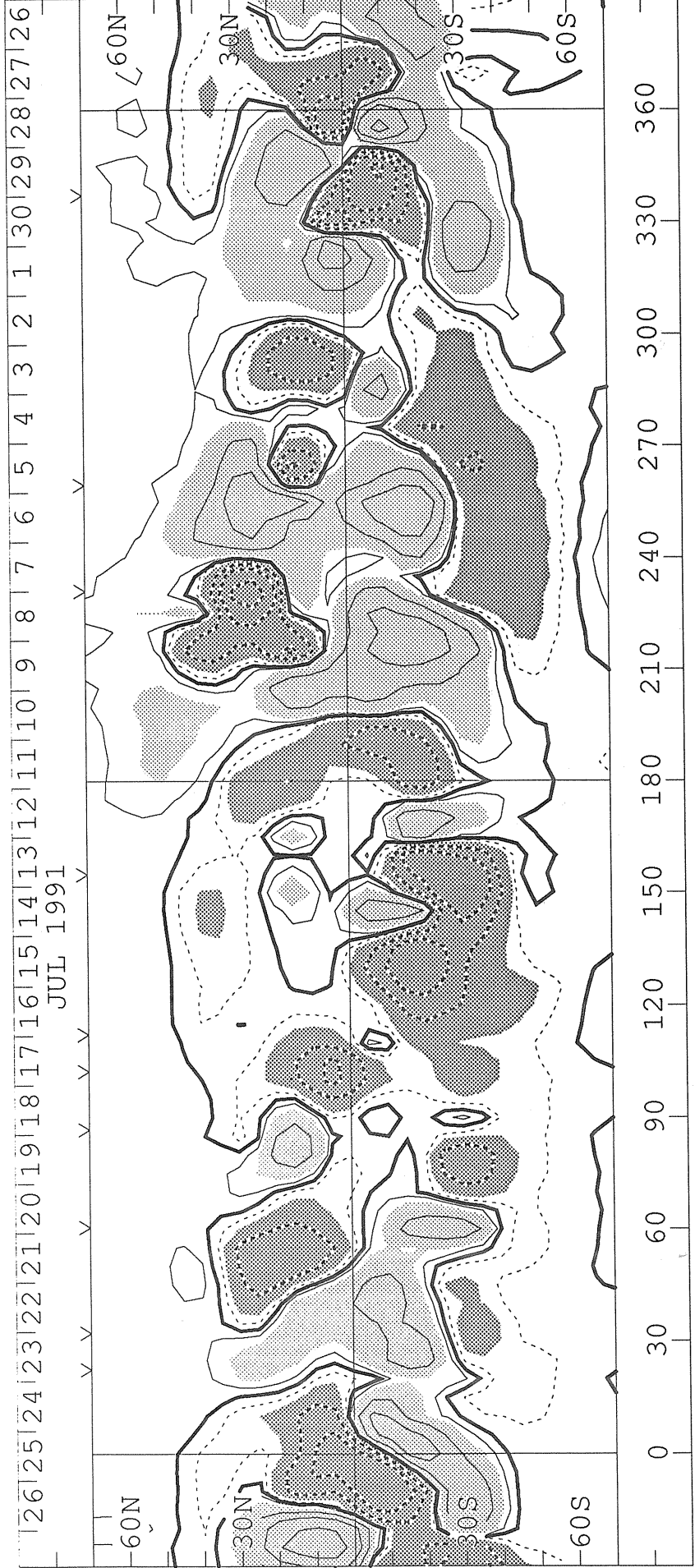
WILCOX SOLAR OBSERVATORY

Mean Field



0, +100, 500, 1000, 2000 MicroTesla

Photospheric Magnetic Field



Heliographic Longitude

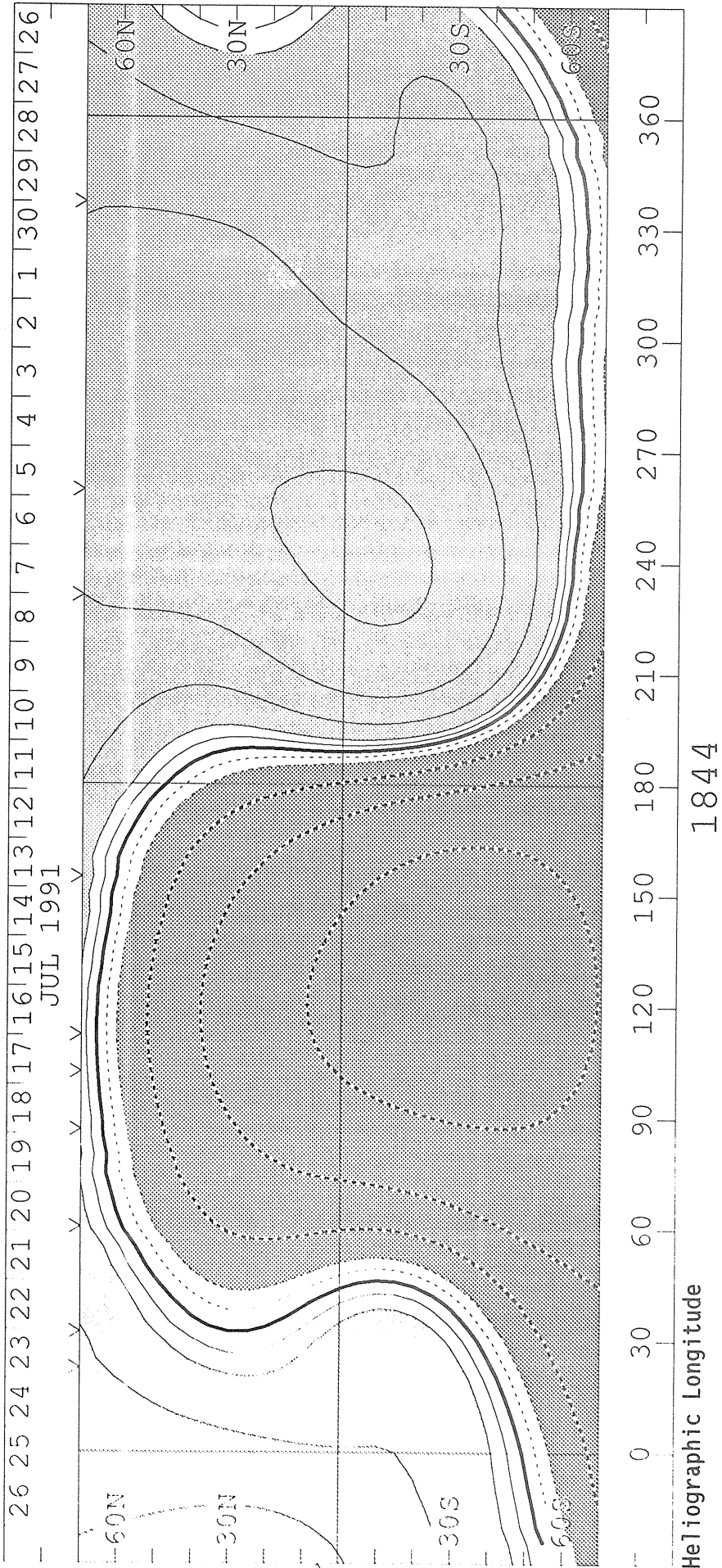
1844

SOLAR MAGNETIC FIELD SYNOPTIC CHART

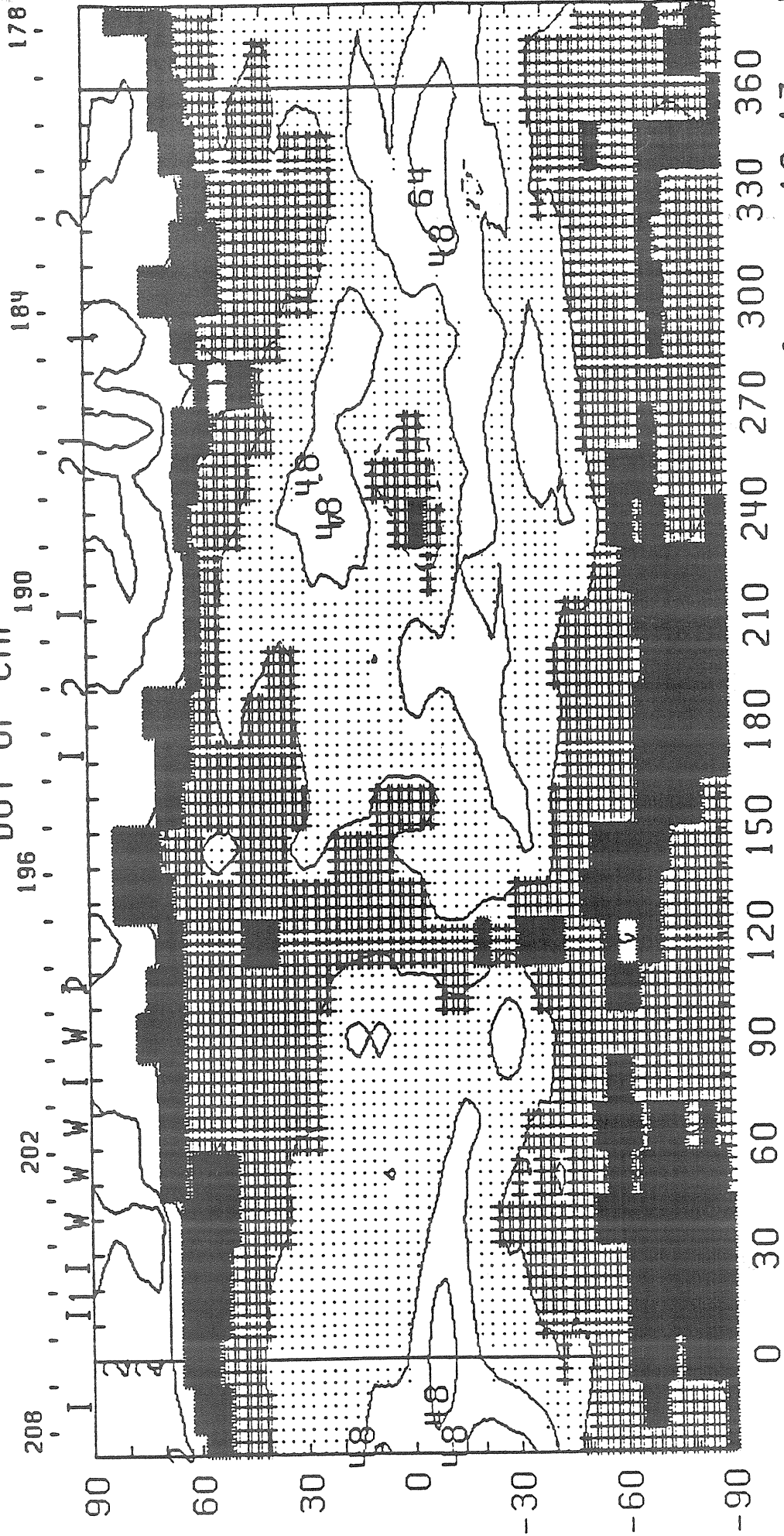
SOURCE SURFACE FIELD  
CARRINGTON ROTATION NUMBER 1844  
(28 June to 25 July 1991)

Wilcox Solar Observatory

0, ±1, 2, 5, 10, 20 microTesla



CARRINGTON ROTATION NUMBER 1844 : SAC. PEAK FE XIV AT R = 1.15  
DOY OF CMP 190

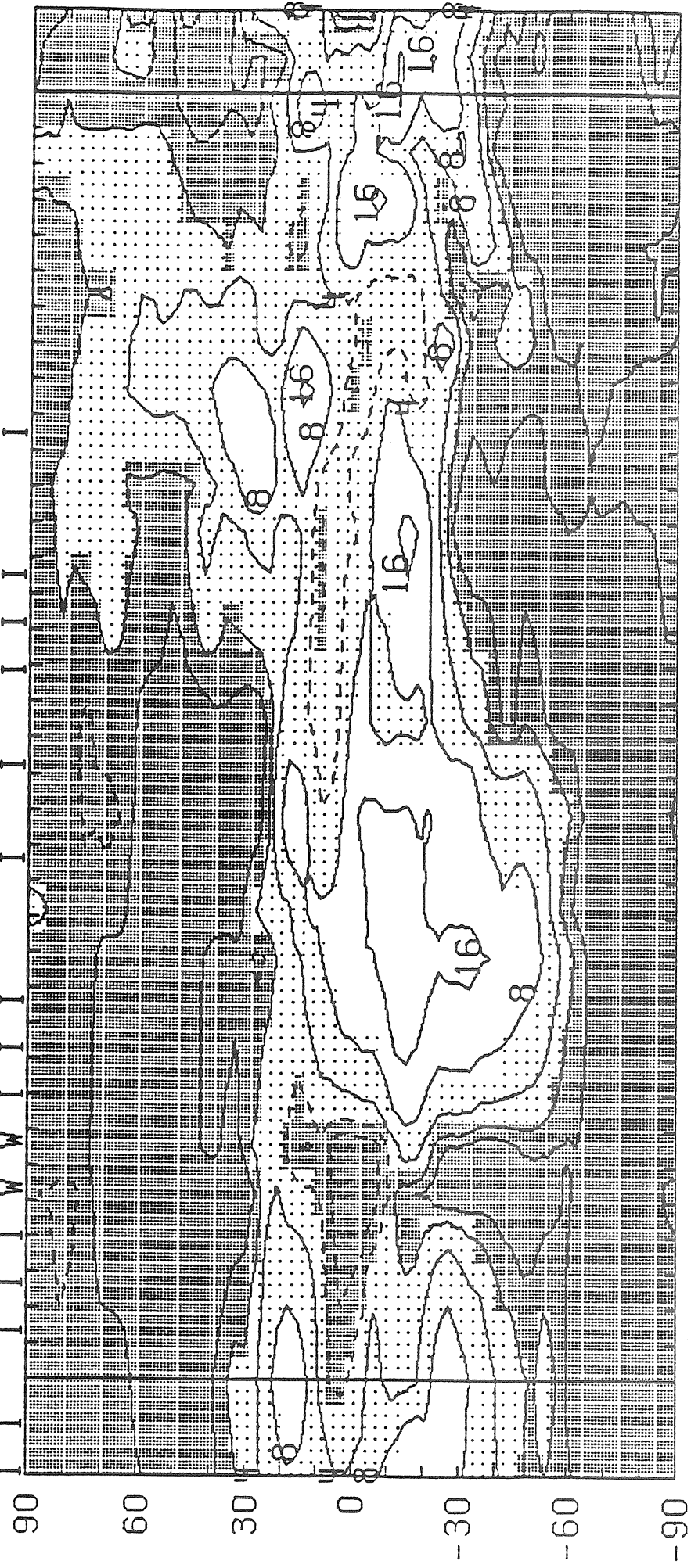


E  
HELIOGRAPHIC LONGITUDE  $I_{\text{ove}} = 16.17 \mu$  W  
1991 E+W LIMB CONTOURS: 1, 2, 4, 8, 16, 32, 48, 64, 80 MILLIONTHS OF  $I_0$   
(10-Sep-91) CORONAL HOLES ARE SHOWN AS WHITE SURROUNDED BY BLACK

CARRINGTON ROTATION NUMBER 1844 ; SAC. PEAK FE X AT R = 1.15

DOY OF CMP

208 202 196 190 184 178



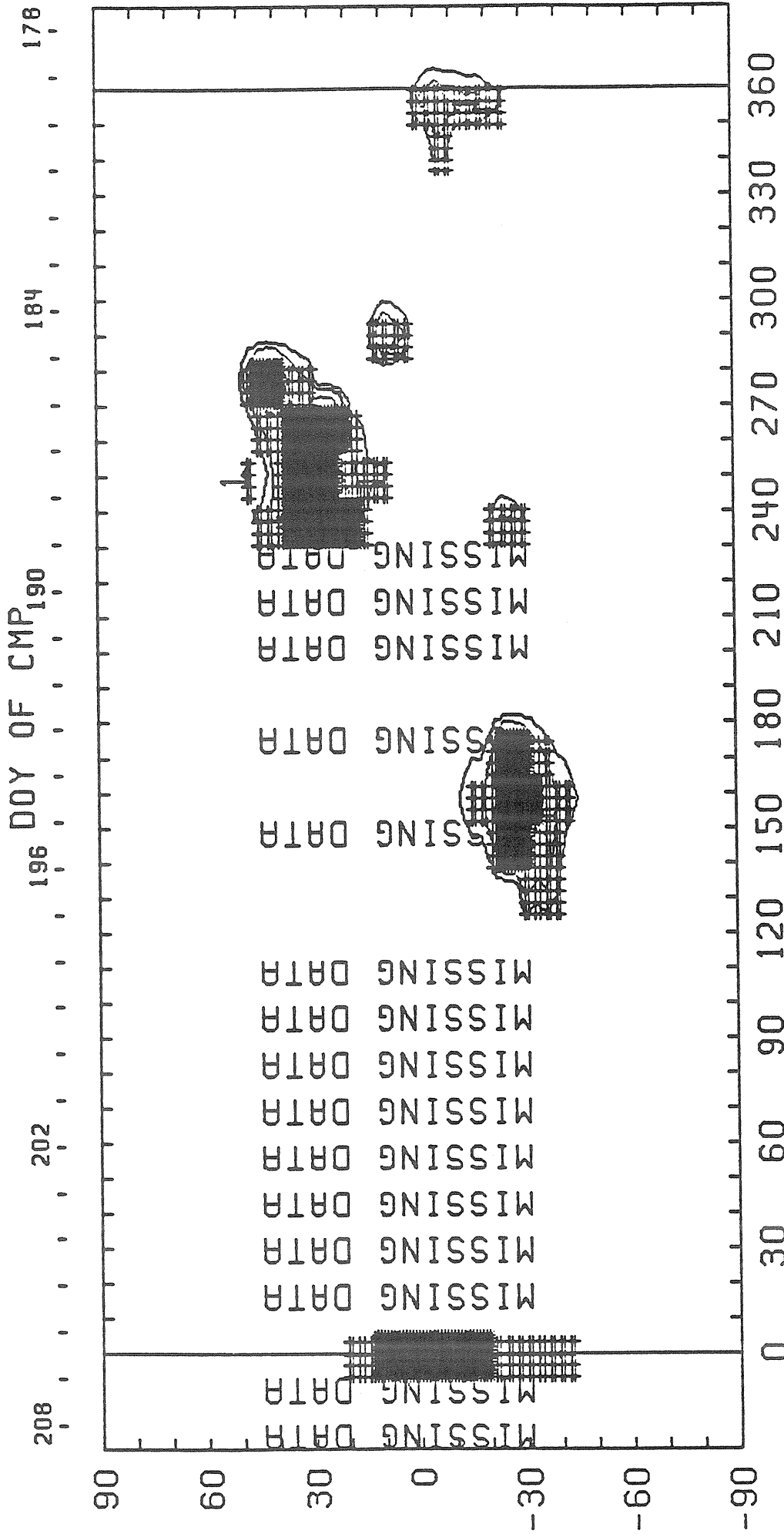
0 30 60 90 120 150 180 210 240 270 300 330 360

E HELIOGRAPHIC LONGITUDE Iove = 3.34 μ W

1991 E+W LIMB CONTOURS: 1,2,4,8,16,32,48,64,80 MILLIONTHS OF I<sub>o</sub>

( 6-Sep-91)

CARRINGTON ROTATION NUMBER 1844 ; SAC. PEAK CA XV at R = 1.13



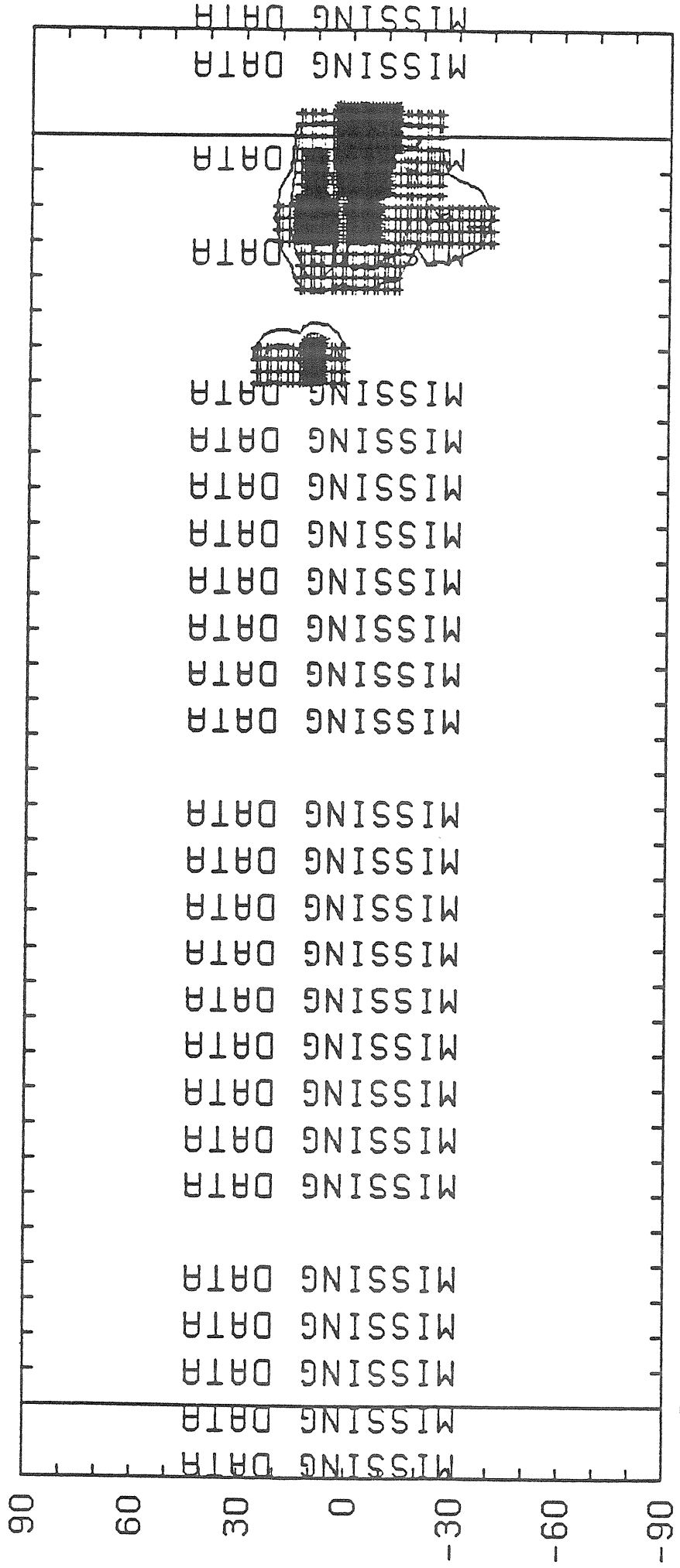
E 1991 EAST LIMB CONTOURS: YELLOW-MINIMUM, 1,2,4,8 MILLIONTHS OF Io W

(10-Sep-91)

CARRINGTON ROTATION NUMBER 1844 ; SAC-PEAK CA XV  $\alpha$  + R = 1.13

DOY OF C<sub>190</sub>

208 . . . . . 196 . . . . . 184 . . . . . 178

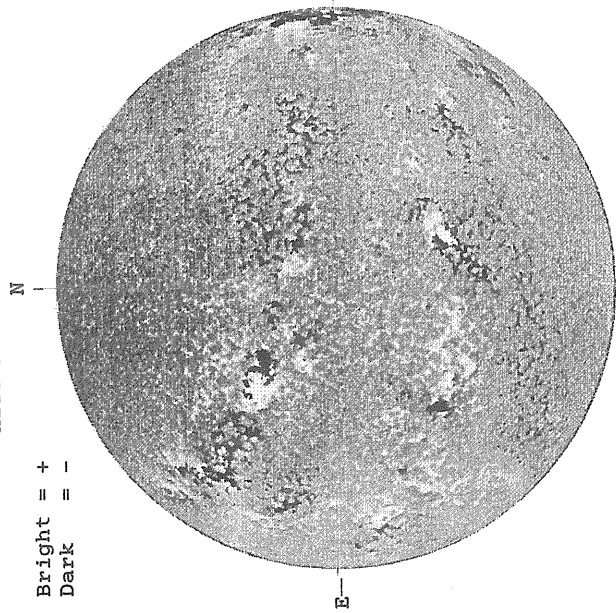


E W  
HELIOGRAPHIC LONGITUDE  
1991 WEST LIMB CONTOURS: YELLOW-MINIMUM, 1,2,4,8 MILLIONTHS OF I<sub>o</sub>  
(10-Sep-91)

AUGUST 1, 1991 ( P= 10.63, B<sub>0</sub> = 5.74, L<sub>0</sub> = 273.54 )

KITT PEAK MAGNETOGRAM

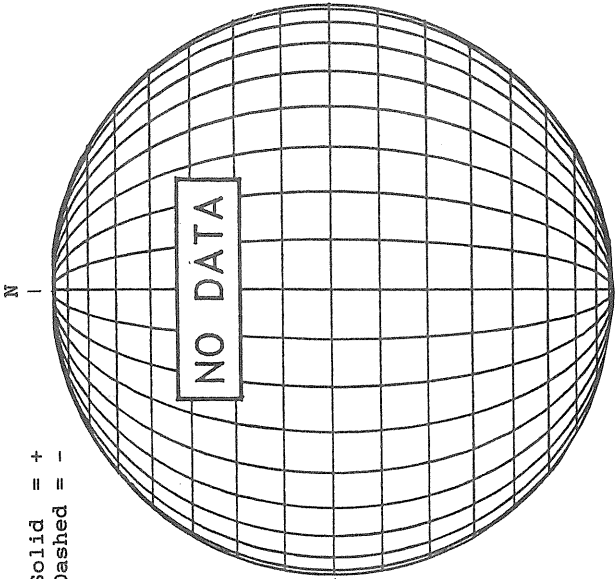
Bright = +  
Dark = -



1402 UT

STANFORD MAGNETOGRAM

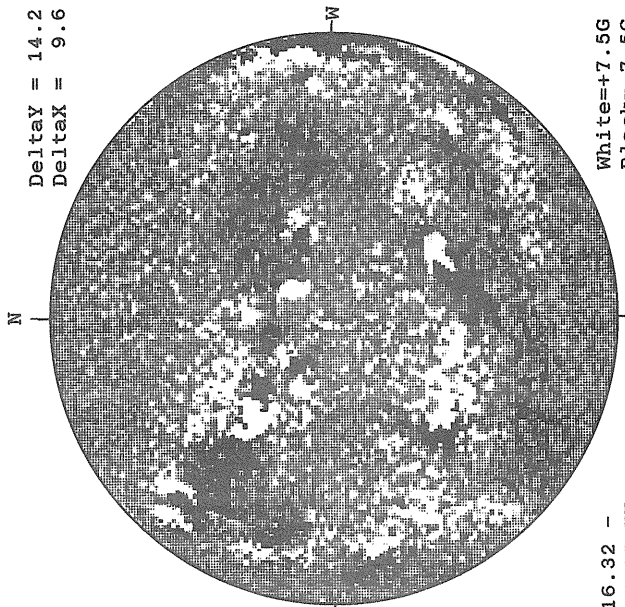
Solid = +  
Dashed = -



NO DATA

MT. WILSON MAGNETOGRAM

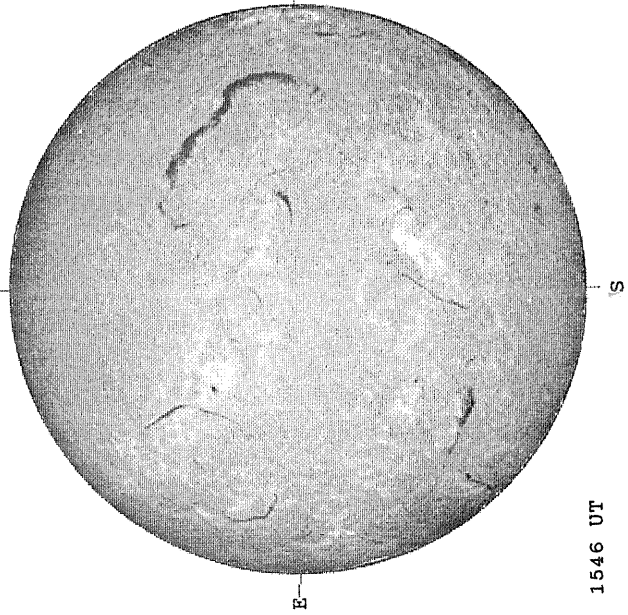
DeltaY = 14.2  
DeltaX = 9.6



16.32 -  
17.17 UT

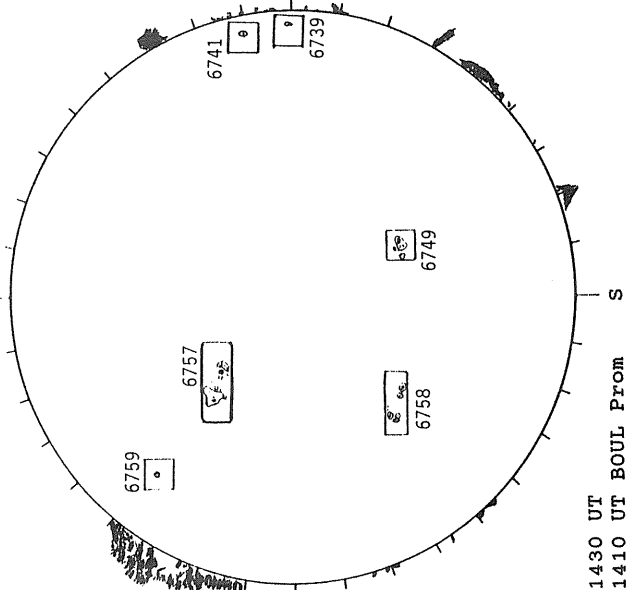
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



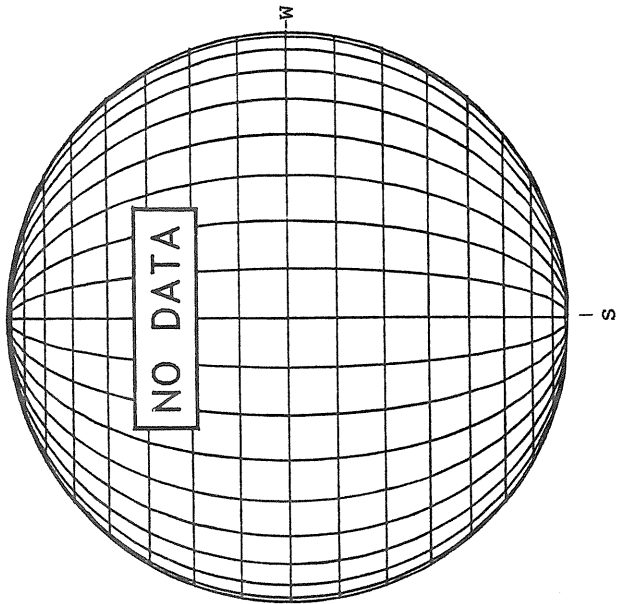
1546 UT

BOULDER SUNSPOT



1430 UT  
1410 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)

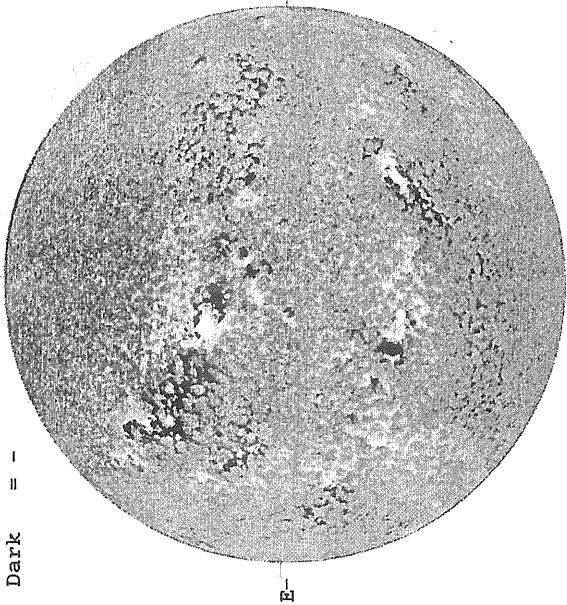


NO DATA

AUGUST 2, 1991 ( P= 11.02, B<sub>0</sub> = 5.81, L<sub>0</sub> = 260.31 )

KITT PEAK MAGNETOGRAM

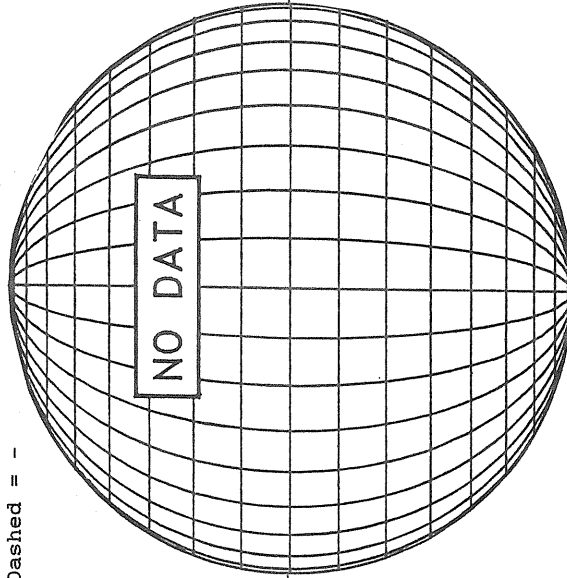
Bright = +  
Dark = -



1359 UT

STANFORD MAGNETOGRAM

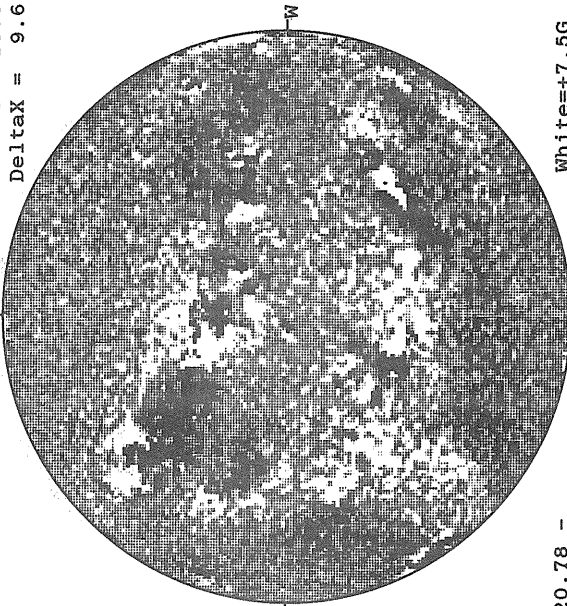
Solid = +  
Dashed = -



20.78 -  
21.71 UT

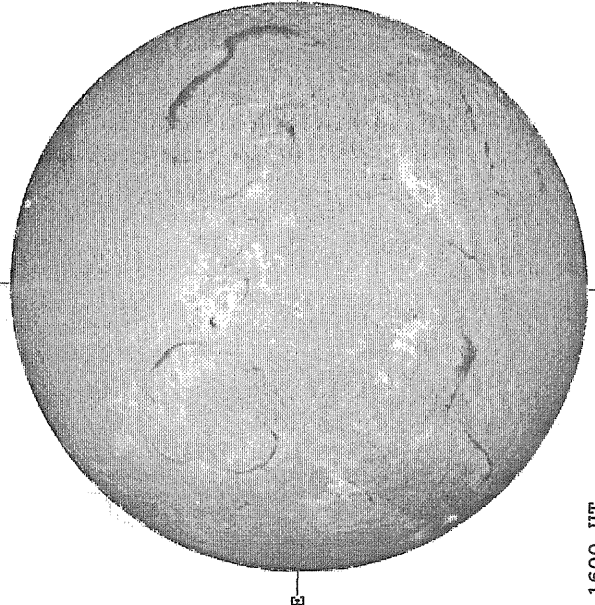
MT. WILSON MAGNETOGRAM

DeltaY = 13.0  
DeltaX = 9.6



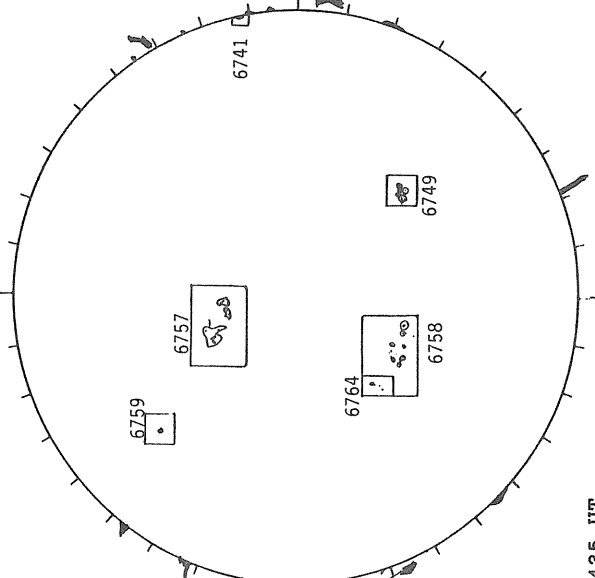
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



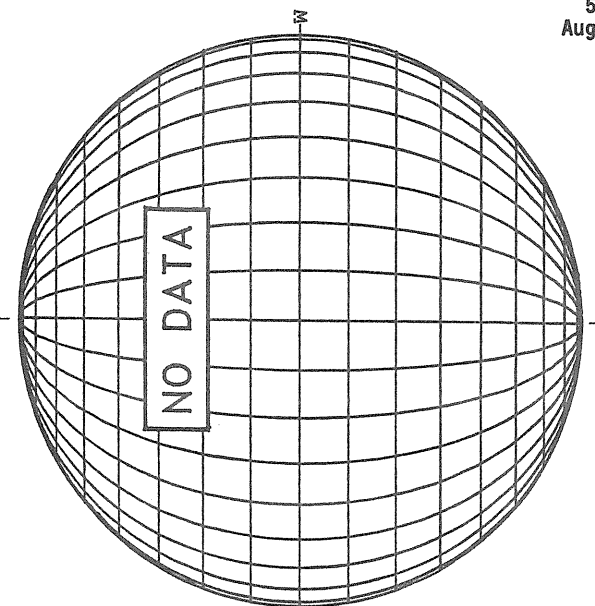
1600 UT

BOULDER SUNSPOT



1435 UT  
1445 UT BOUL Prom

SACRAMENTO PEAK CORONA ( 1.15 Radii )

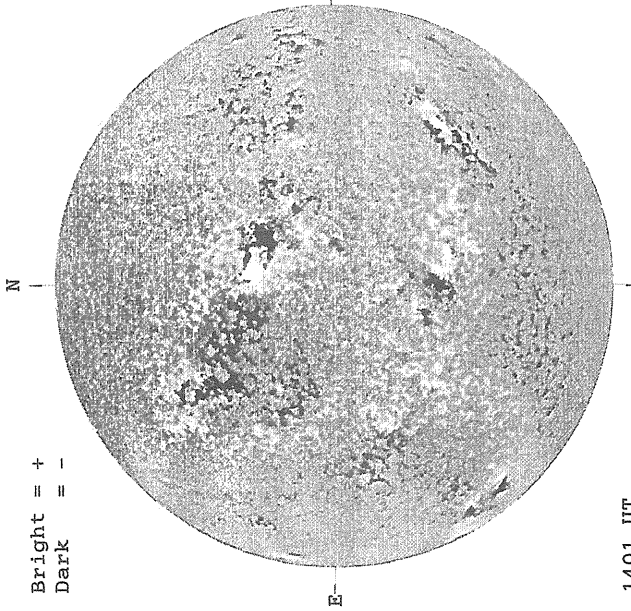




AUGUST 3, 1991 ( P= 11.42, B<sub>0</sub> = 5.89, L<sub>0</sub> = 247.09 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



1401 UT

STANFORD MAGNETOGRAM

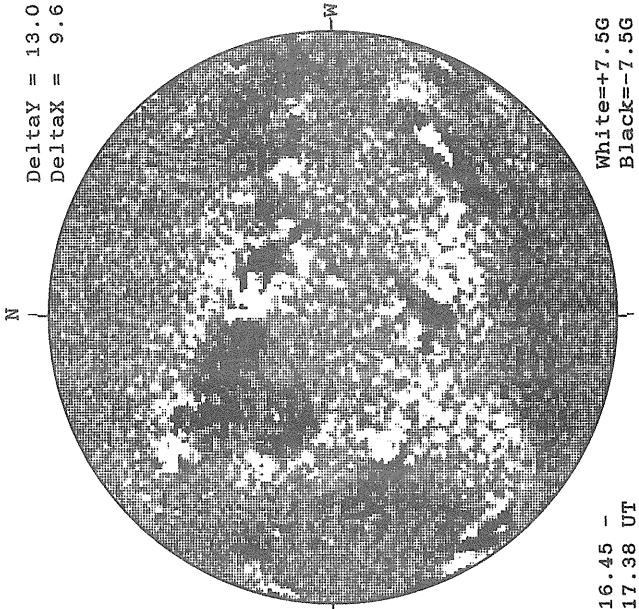
Solid = +  
Dashed = -



2113 UT

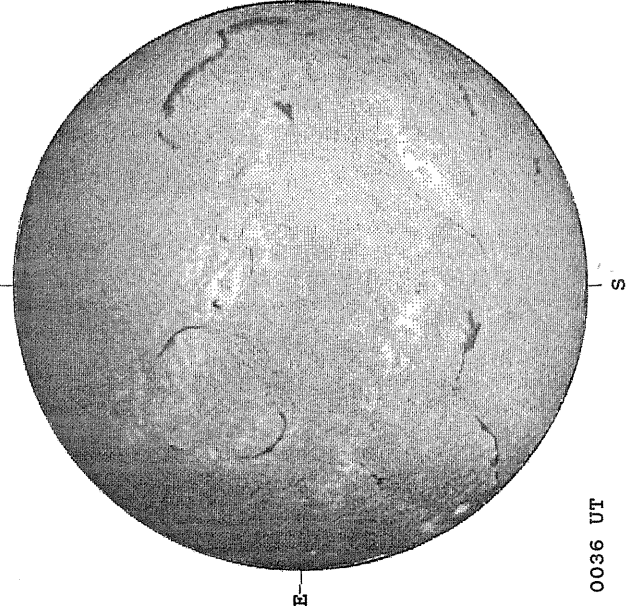
MT. WILSON MAGNETOGRAM

Delta $\tau$  = 13.0  
Delta $\lambda$  = 9.6



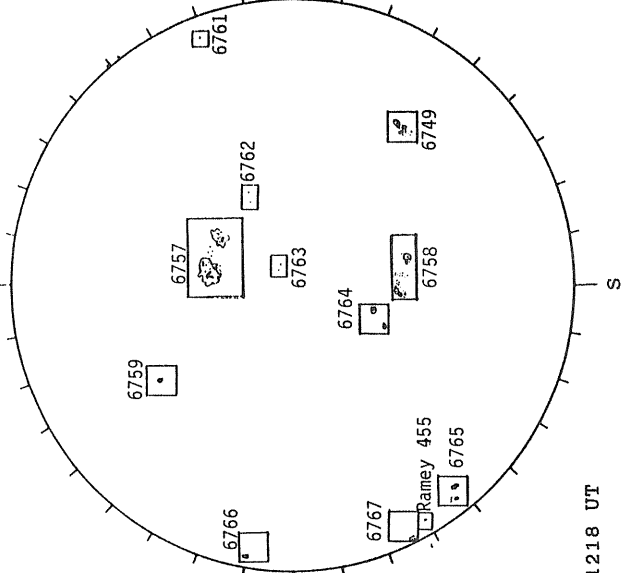
16.45 -  
17.38 UT

SACRAMENTO PEAK H-ALPHA



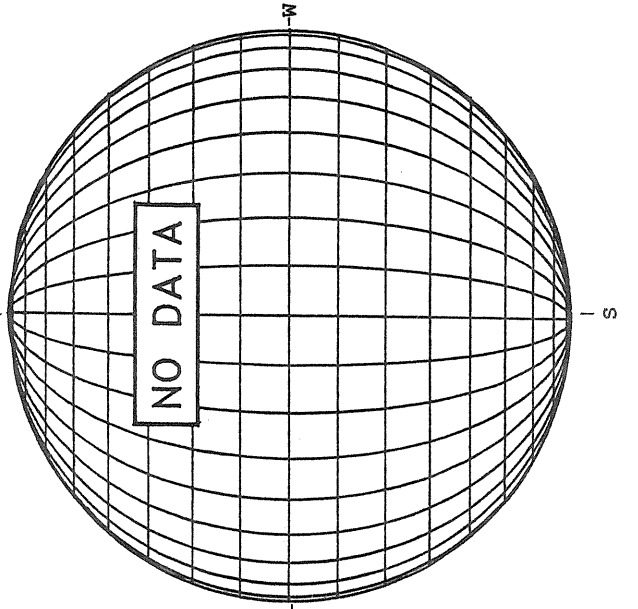
0036 UT

RAMEY SUNSPOT



1218 UT

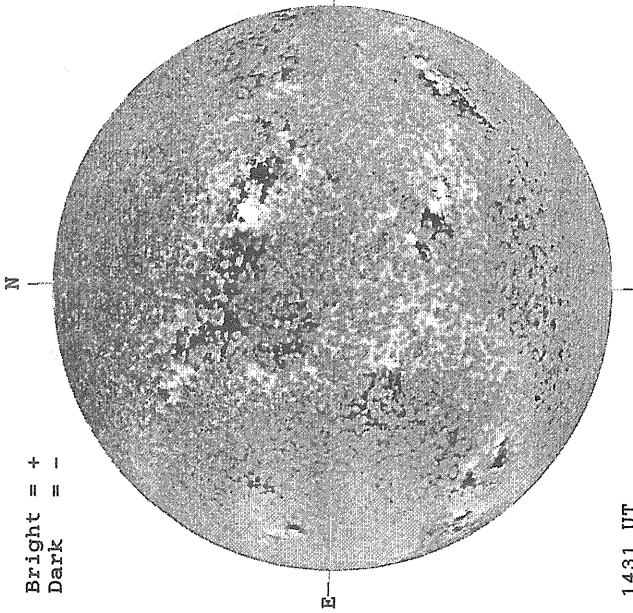
SACRAMENTO PEAK CORONA (1.15 Radii)



AUGUST 4, 1991 ( P= 11.81, B<sub>O</sub> = 5.95, L<sub>O</sub> = 233.86 )

KITT PEAK MAGNETOGRAM

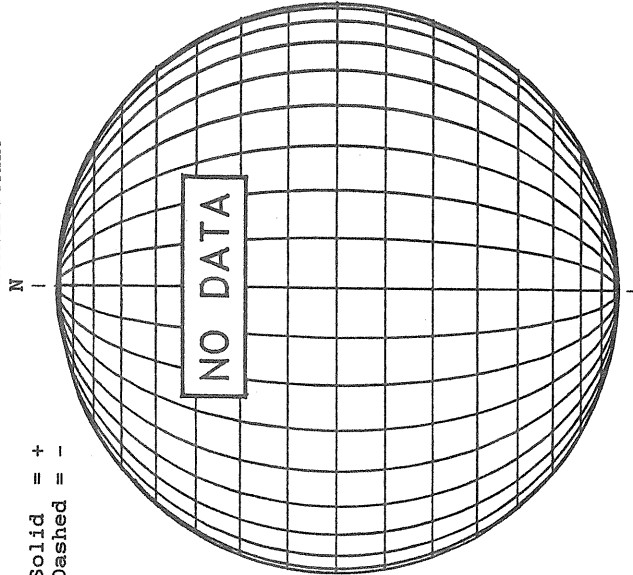
Bright = +  
Dark = -



1431 UT

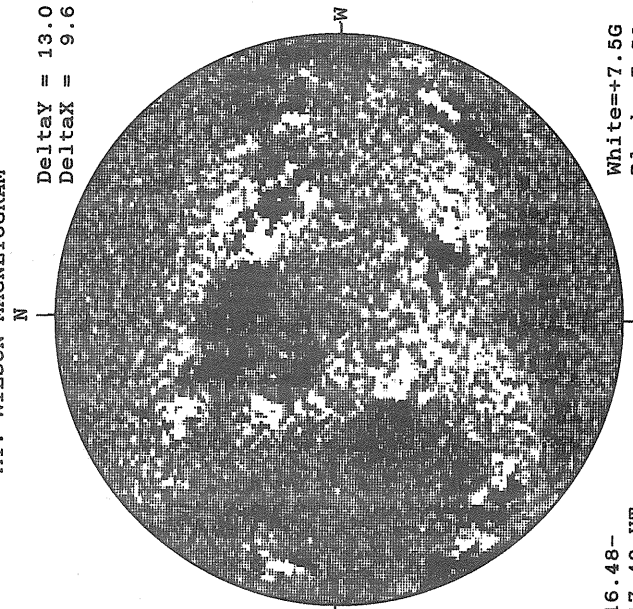
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



MT. WILSON MAGNETOGRAM

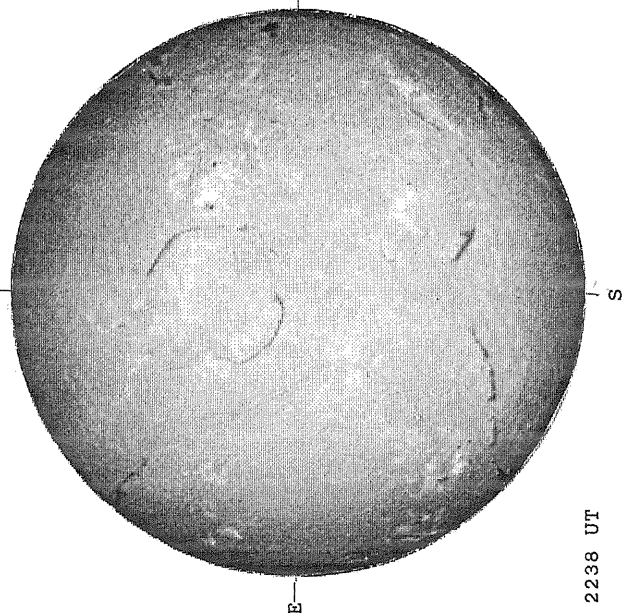
Delta<sub>y</sub> = 13.0  
Delta<sub>x</sub> = 9.6



16.48-  
17.42 UT

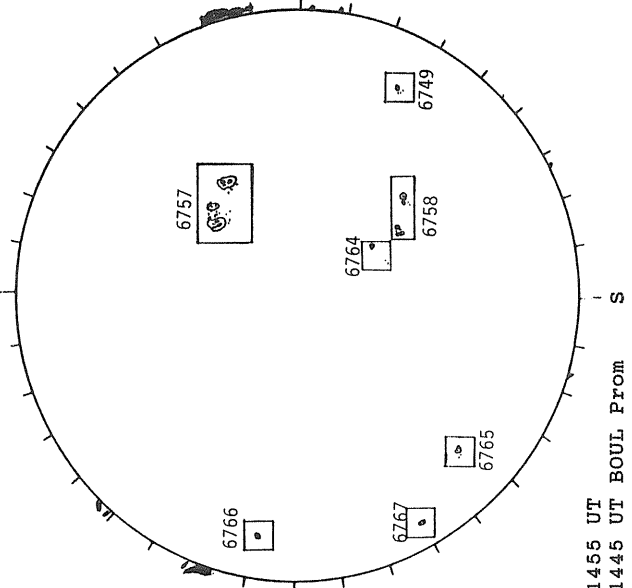
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



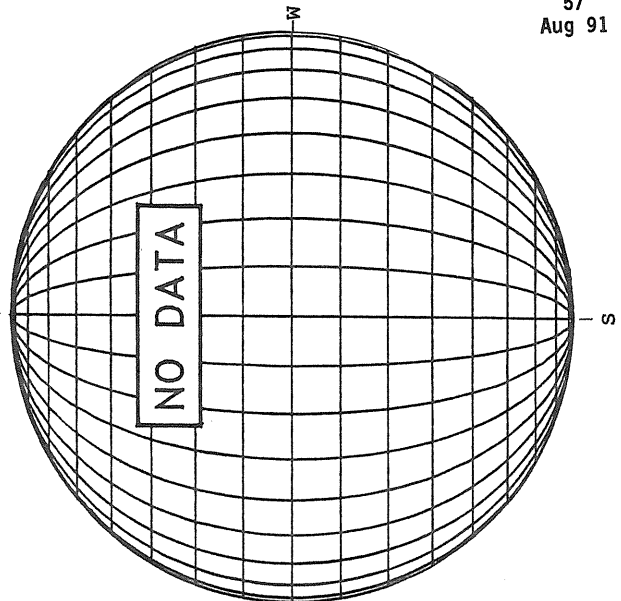
2238 UT

BOULDER SUNSPOT



1455 UT  
1445 UT BOUL Prom

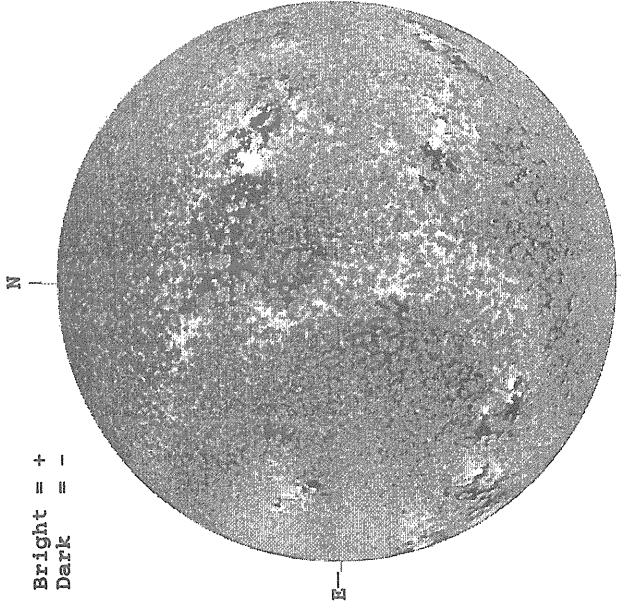
SACRAMENTO PEAK CORONA (1.15 Radii)



AUGUST 5, 1991 ( P = 12.19, B<sub>0</sub> = 6.02, L<sub>0</sub> = 220.64 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



1426 UT

STANFORD MAGNETOGRAM

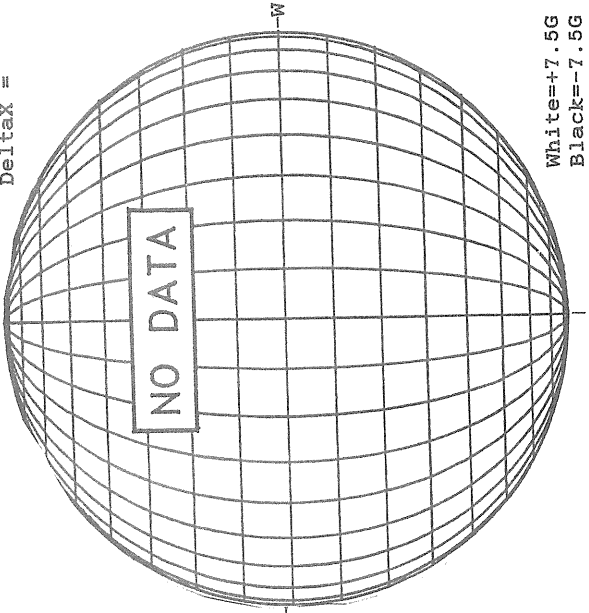
Solid = +  
Dashed = -



0012 UT

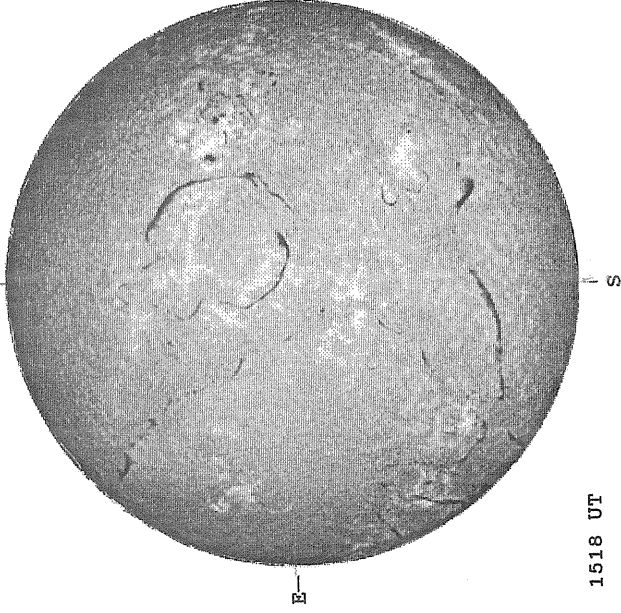
MT. WILSON MAGNETOGRAM

Delta Y =  
Delta X =



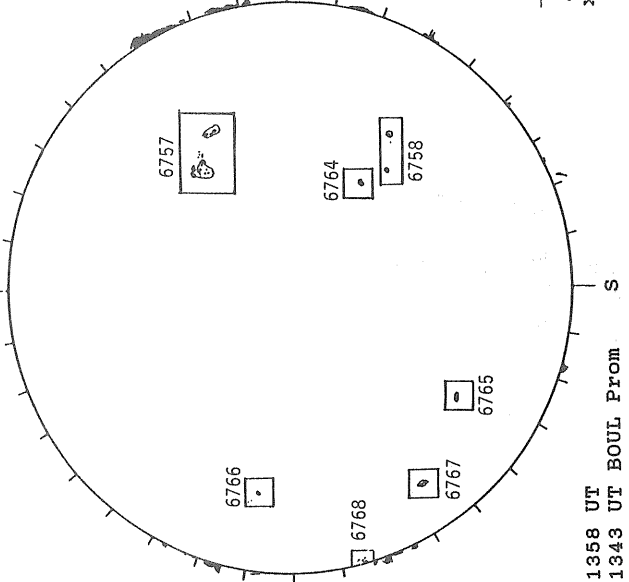
White = +7.5G  
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



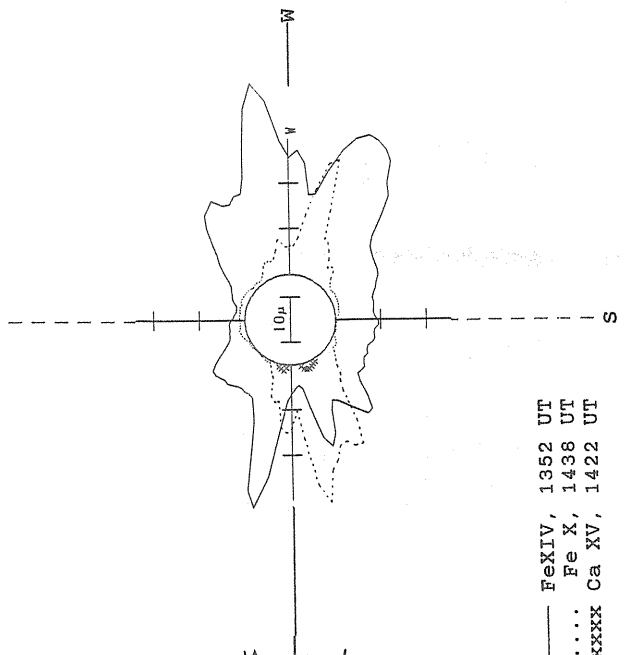
1518 UT

BOULDER SUNSPOT



1358 UT  
1343 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)

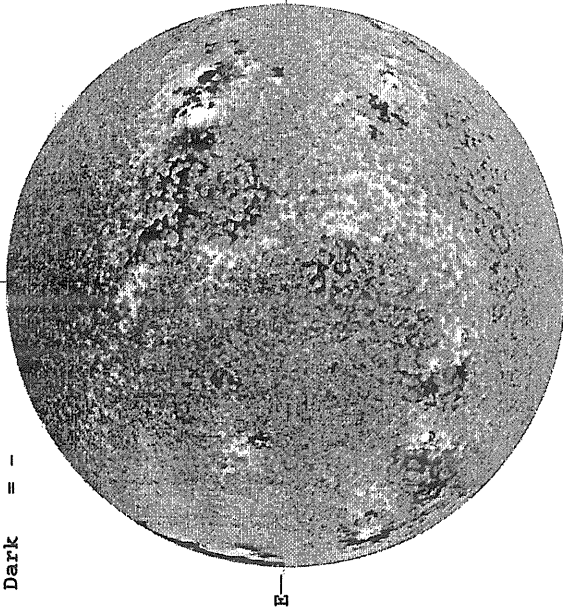


— Fe XIV, 1352 UT  
... Fe X, 1438 UT  
xxxxx Ca XV, 1422 UT

AUGUST 6, 1991 ( P= 12.58, B<sub>0</sub> = 6.09, I<sub>0</sub> = 207.42 )

KITT PEAK MAGNETOGRAM

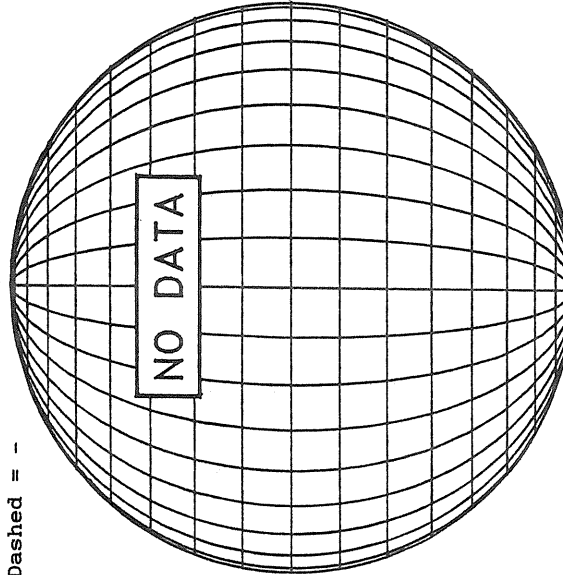
Bright = +  
Dark = -



1527 UT

STANFORD MAGNETOGRAM

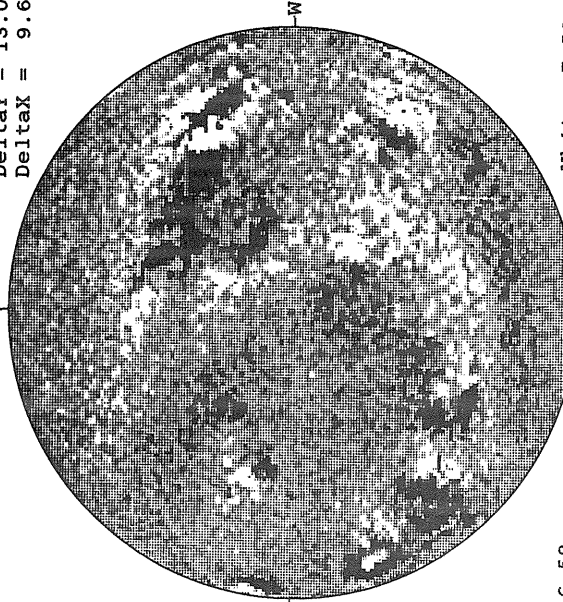
Solid = +  
Dashed = -



16.58 -  
17.51 UT

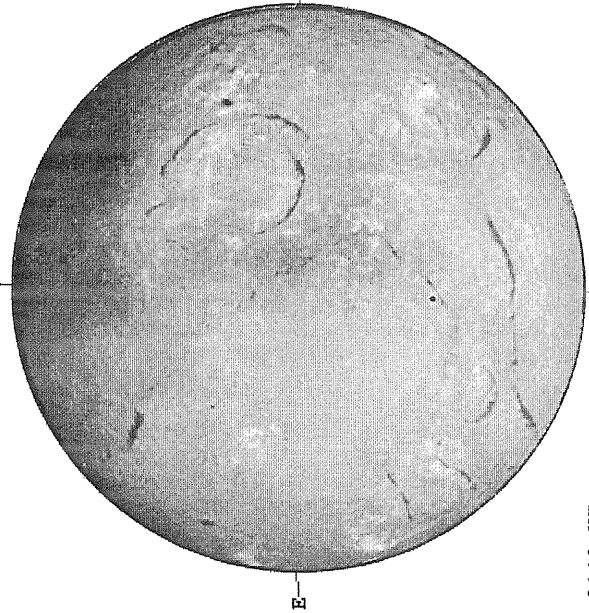
MT. WILSON MAGNETOGRAM

DeltaY = 13.0  
DeltaX = 9.6



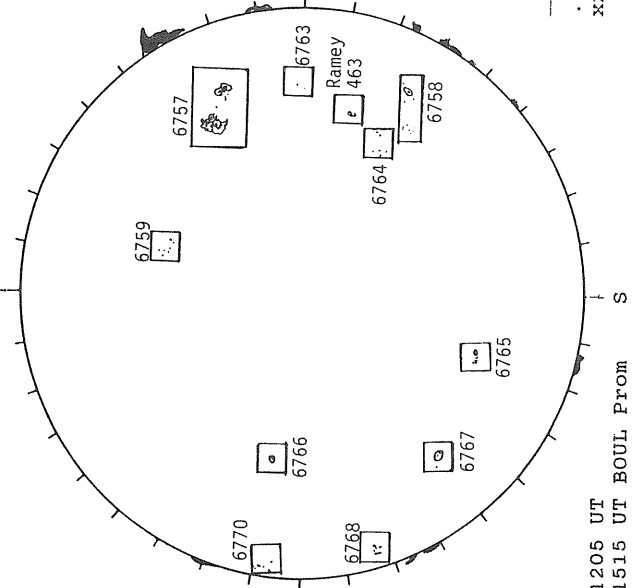
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



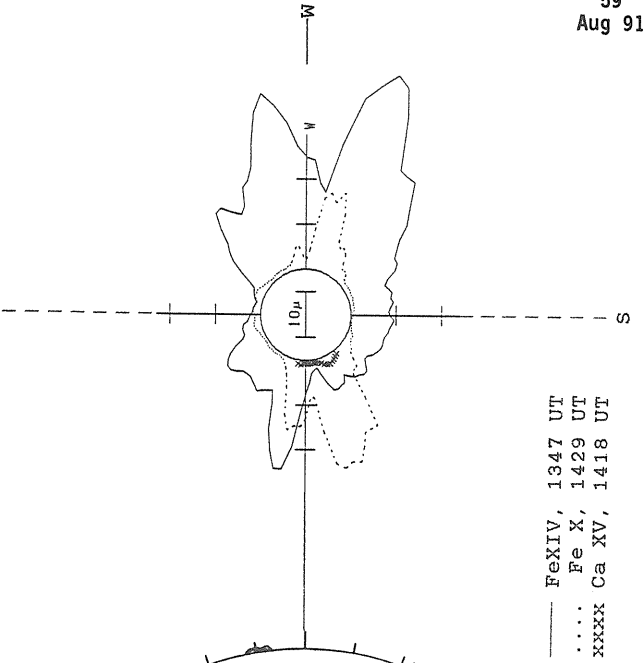
2142 UT

RAMEY SUNSPOT



1205 UT  
1515 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)



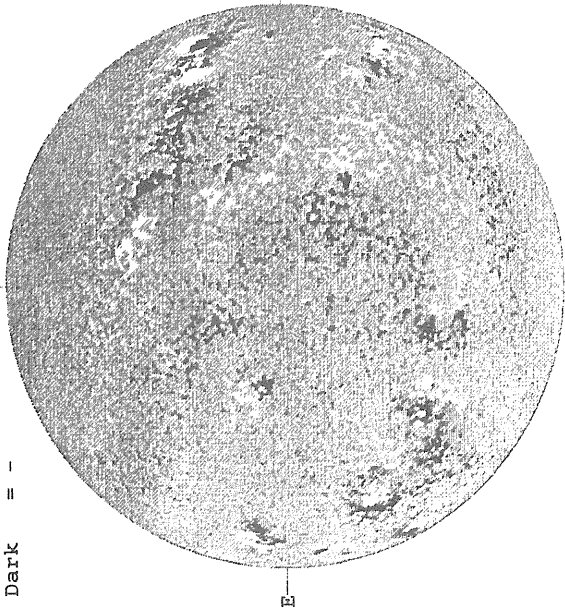
— FeXIV, 1347 UT  
.... Fe X, 1429 UT  
xxxx Ca XV, 1418 UT

60  
Aug 91

AUGUST 7, 1991 ( P = 12.96, B<sub>0</sub> = 6.15, L<sub>0</sub> = 194.19 )

KITT PEAK MAGNETOGRAM

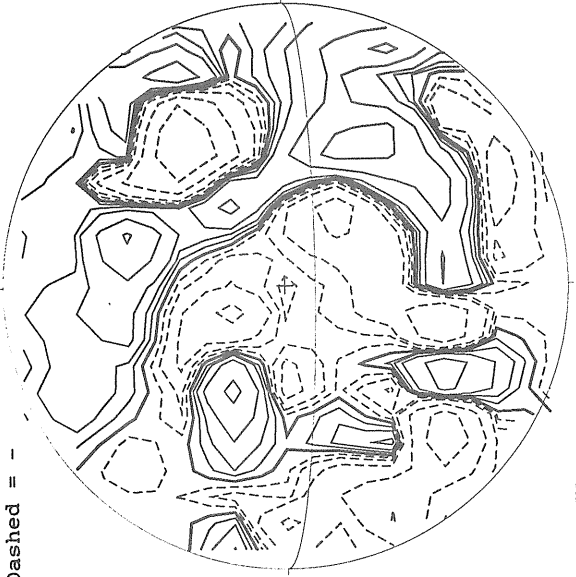
Bright = +  
Dark = -



1518 UT

STANFORD MAGNETOGRAM

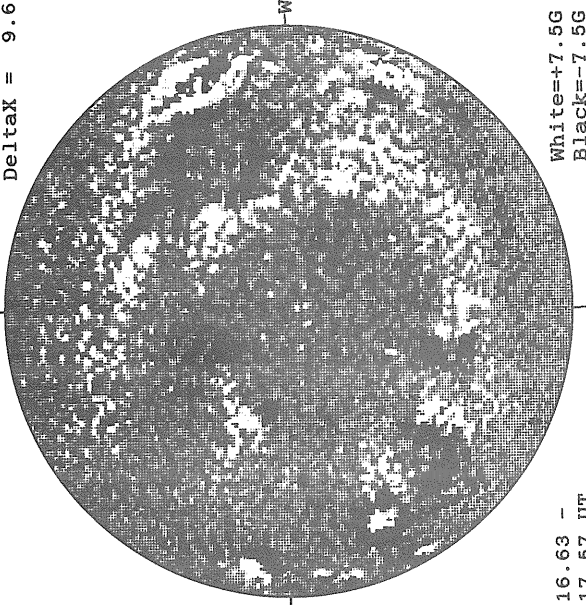
Solid = +  
Dashed = -



1813 UT

MT. WILSON MAGNETOGRAM

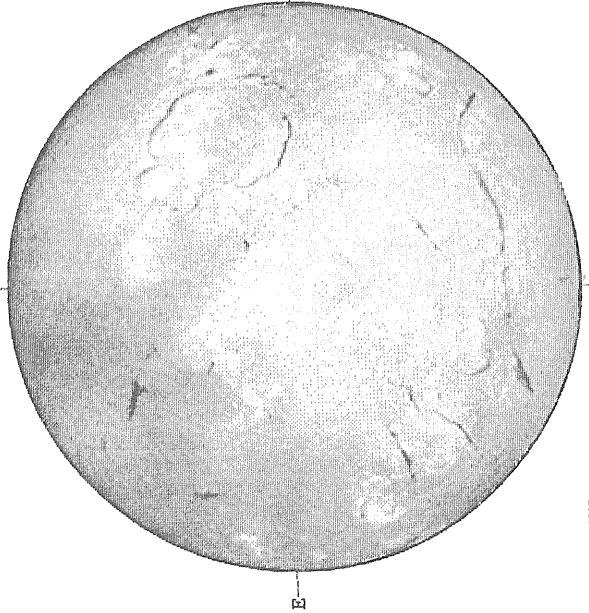
Delta<sub>γ</sub> = 12.9  
Delta<sub>α</sub> = 9.6



16.63 -  
17.57 UT

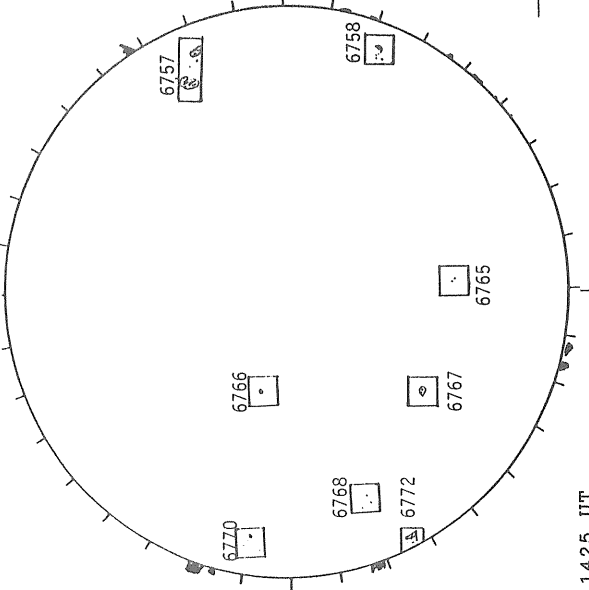
White = +7.5G  
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



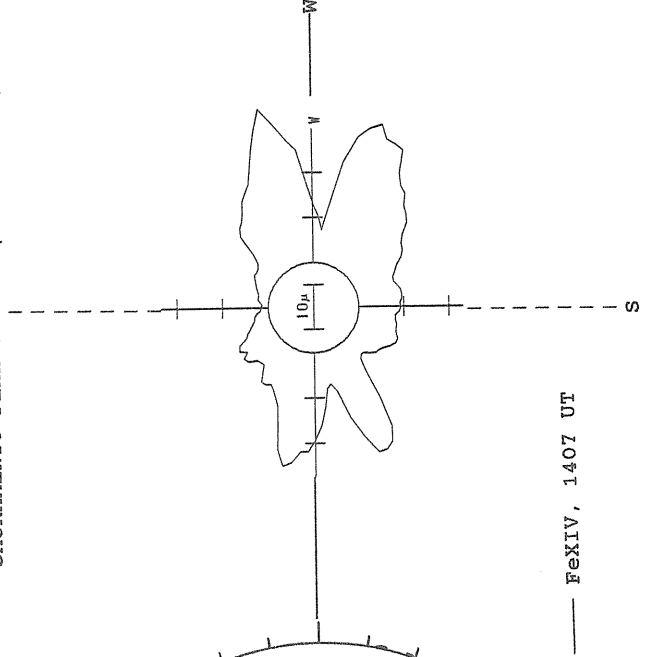
1551 UT

BOULDER SUNSPOT



1425 UT  
1409 UT BOUL Prom

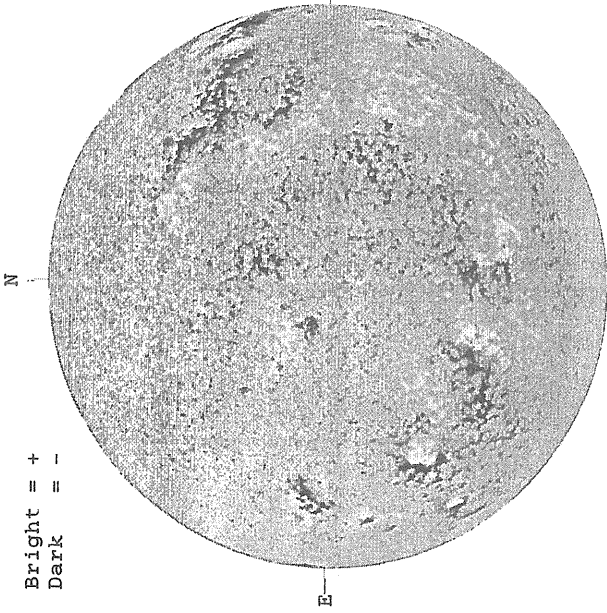
SACRAMENTO PEAK CORONA (1.15 Radii)



FeXIV, 1407 UT

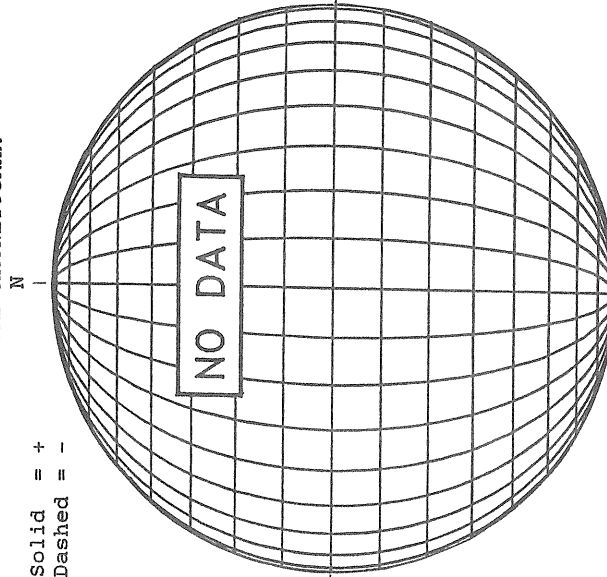
AUGUST 8, 1991 ( P= 13.33, B<sub>O</sub> = 6.22, L<sub>O</sub> = 180.97 )

KITT PEAK MAGNETOGRAM



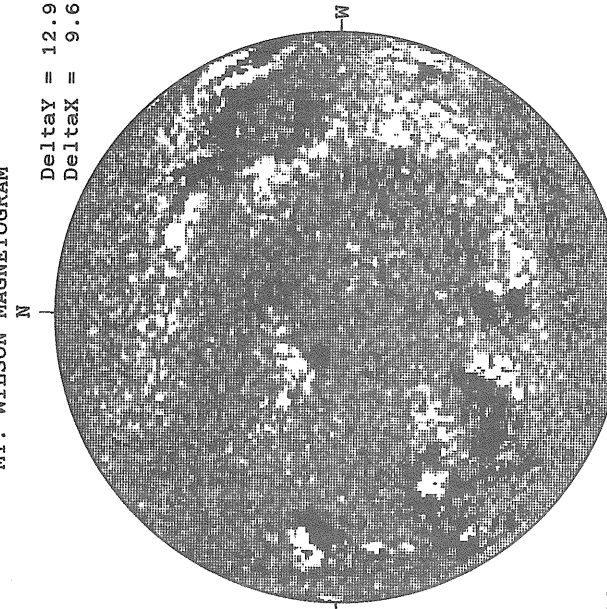
1415 UT

STANFORD MAGNETOGRAM

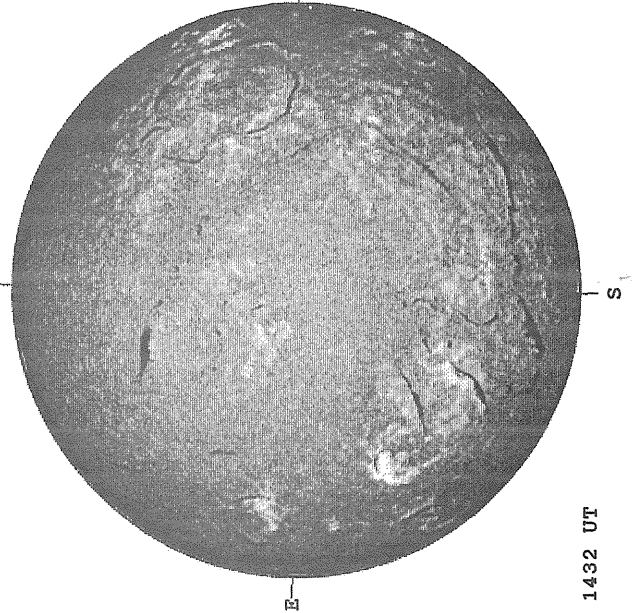


16.17 -  
17.11 UT

MT. WILSON MAGNETOGRAM

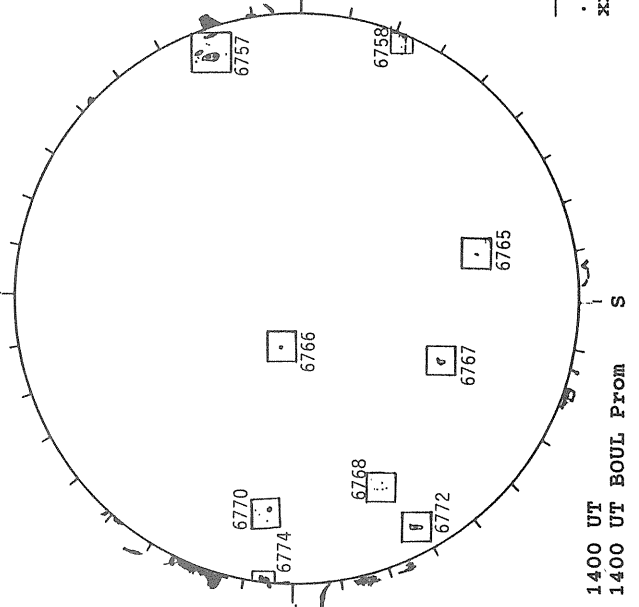


SACRAMENTO PEAK H-ALPHA



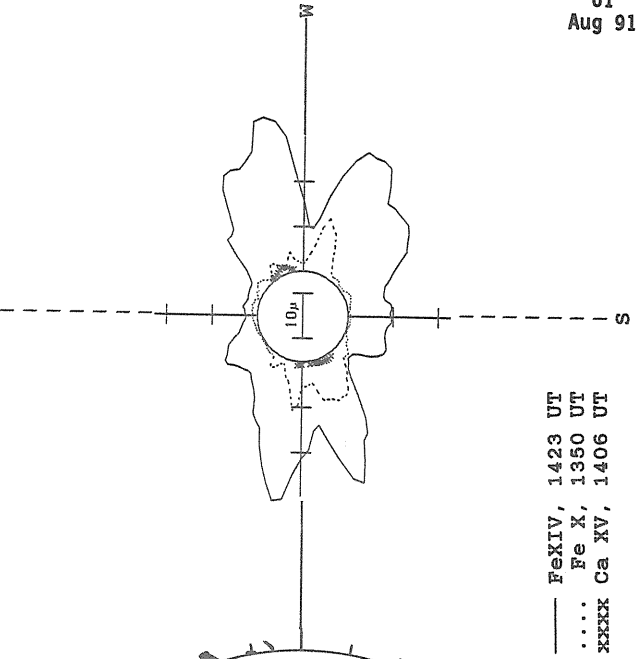
1432 UT

BOULDER SUNSPOT



1400 UT  
1400 UT BOUL FROM S

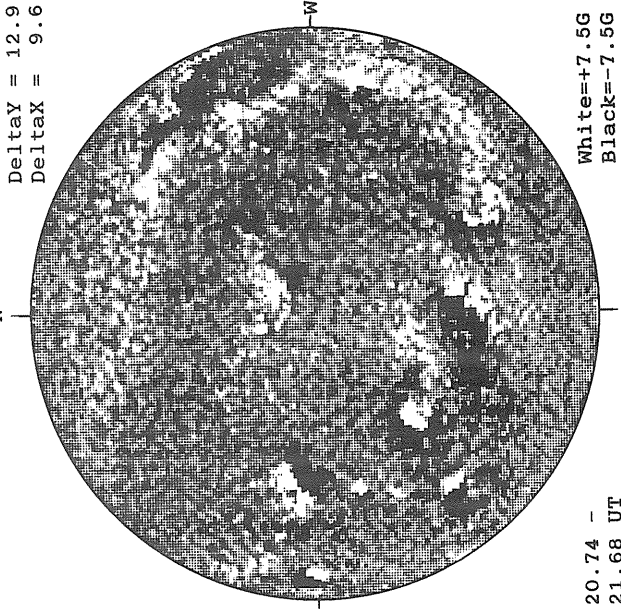
SACRAMENTO PEAK CORONA (1.15 Radii)



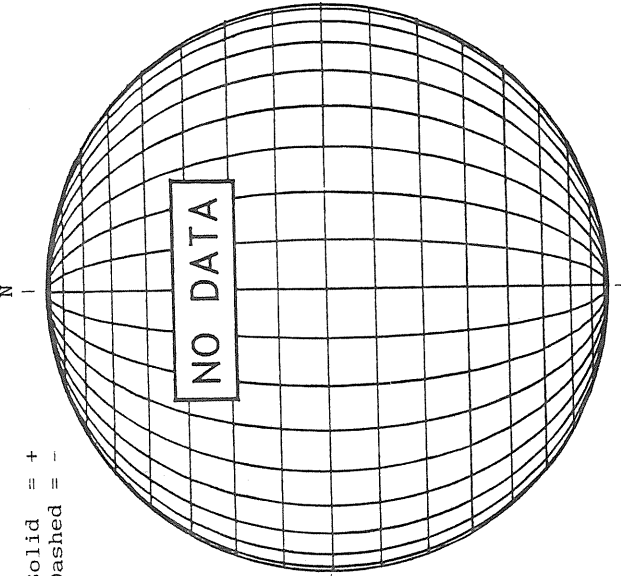
— Fe XIV, 1423 UT  
.... Fe X, 1350 UT  
xxxx Ca XV, 1406 UT

AUGUST 9, 1991 ( P = 13.70, B<sub>0</sub> = 6.28, L<sub>0</sub> = 167.75 )

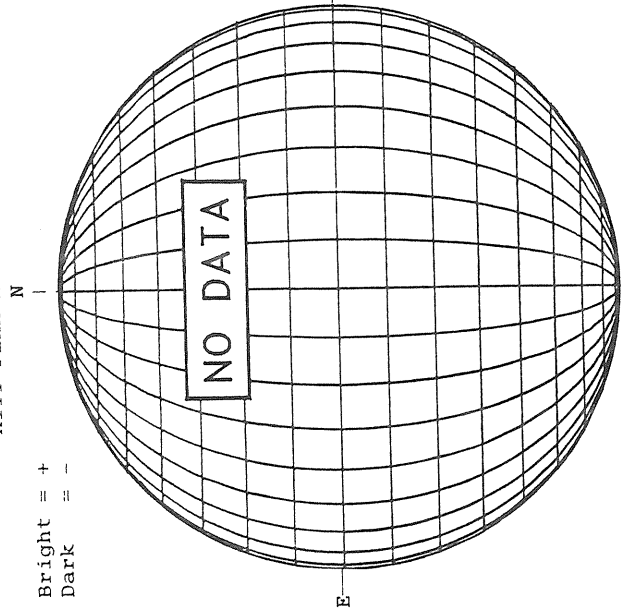
MT. WILSON MAGNETOGRAM



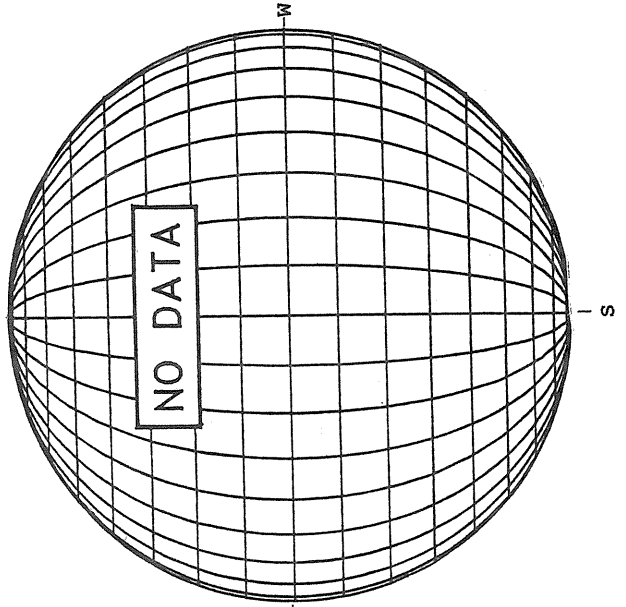
STANFORD MAGNETOGRAM



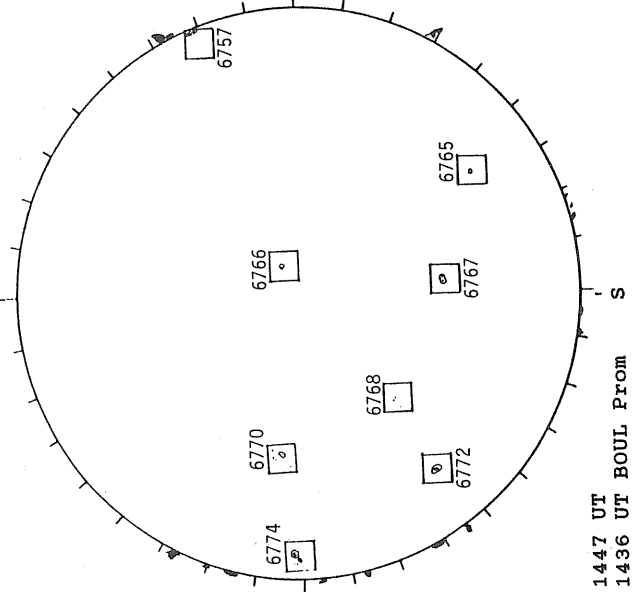
KITT PEAK MAGNETOGRAM



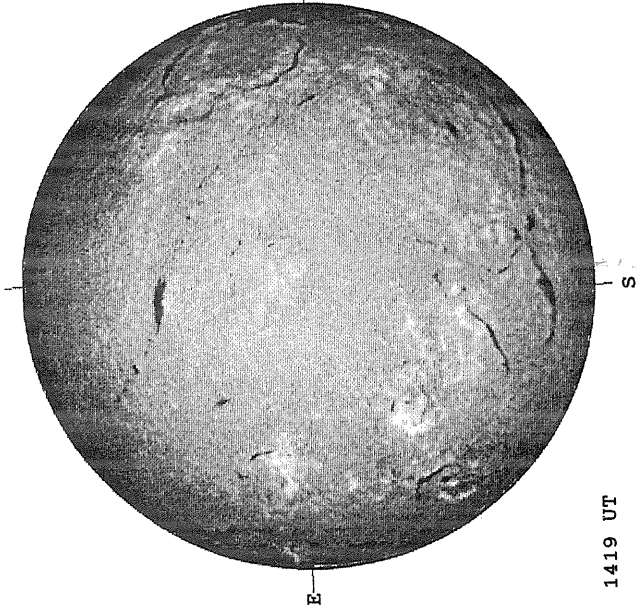
SACRAMENTO PEAK CORONA (1.15 Radii)



BOULDER SUNSPOT



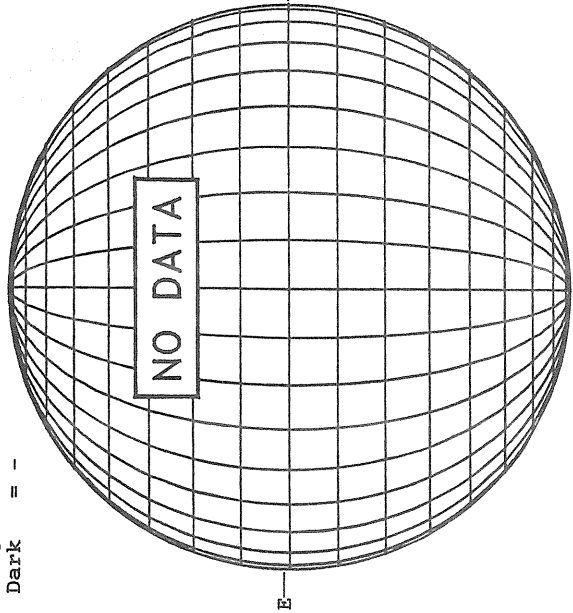
SACRAMENTO PEAK H-ALPHA



AUGUST 10, 1991 ( P = 14.07, B<sub>0</sub> = 6.34, L<sub>0</sub> = 154.43 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



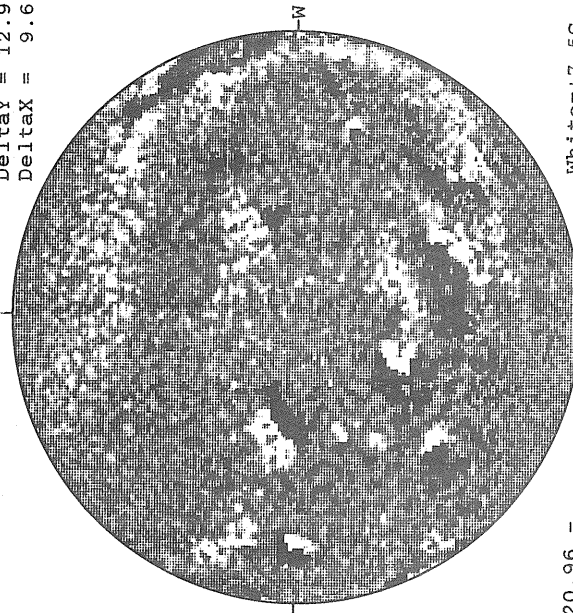
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



MT. WILSON MAGNETOGRAM

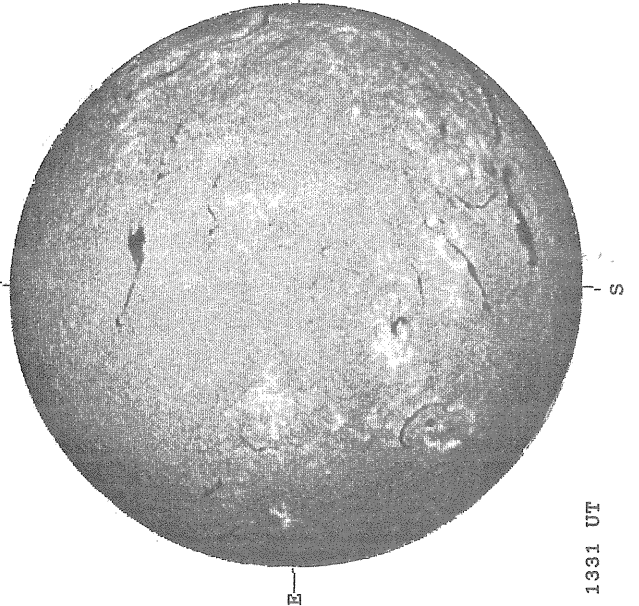
Delta<sub>γ</sub> = 12.9  
Delta<sub>α</sub> = 9.6



20.96 -  
21.89 UT

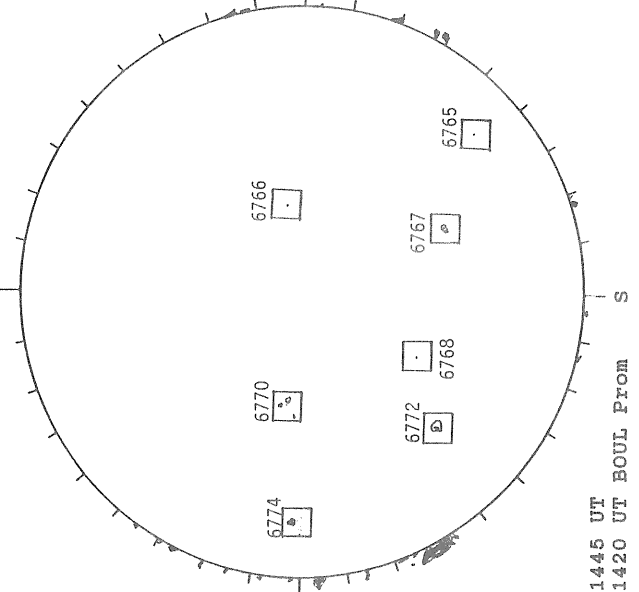
White = +7.5G  
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



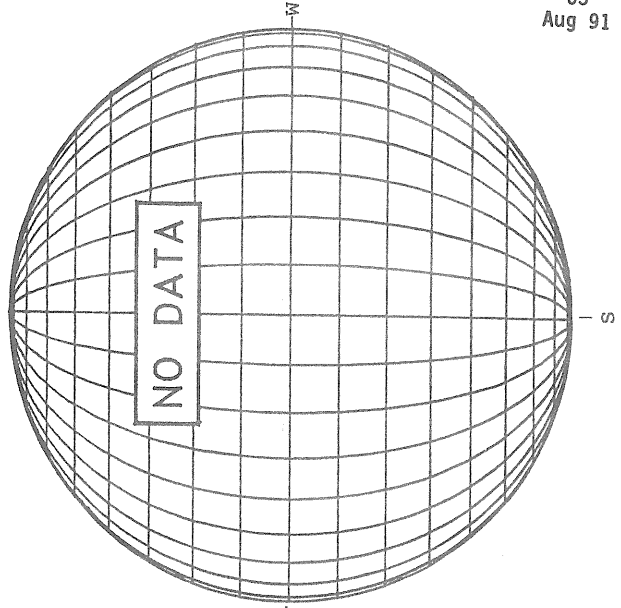
1331 UT

BOULDER SUNSPOT



1445 UT  
1420 UT BOUL FROM

SACRAMENTO PEAK CORONA (1.15 Radii)





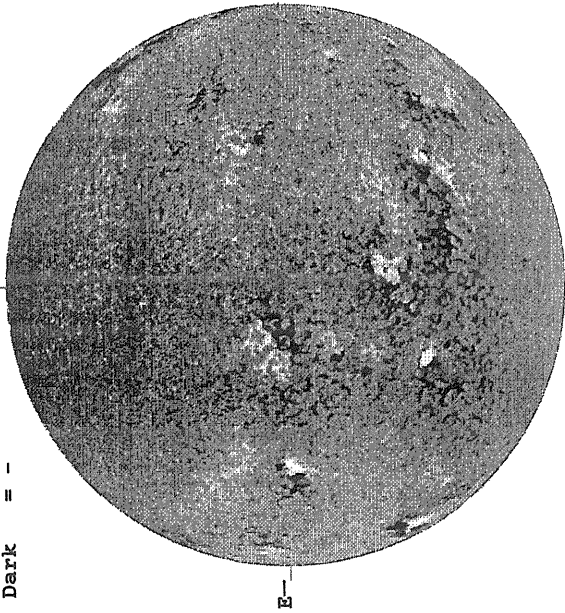
64  
Aug 91

AUGUST 11, 1991 ( P= 14.43, B<sub>0</sub> = 6.40, I<sub>0</sub> = 141.31 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -

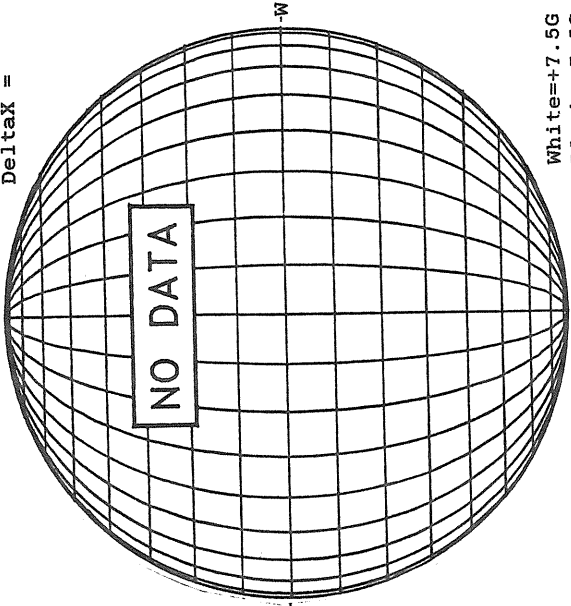
Solid = +  
Dashed = -



1735 UT

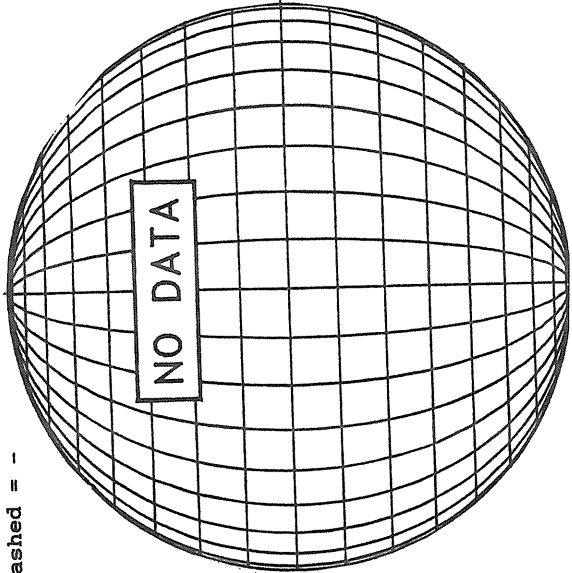
MT. WILSON MAGNETOGRAM

DeltaY =  
DeltaX =

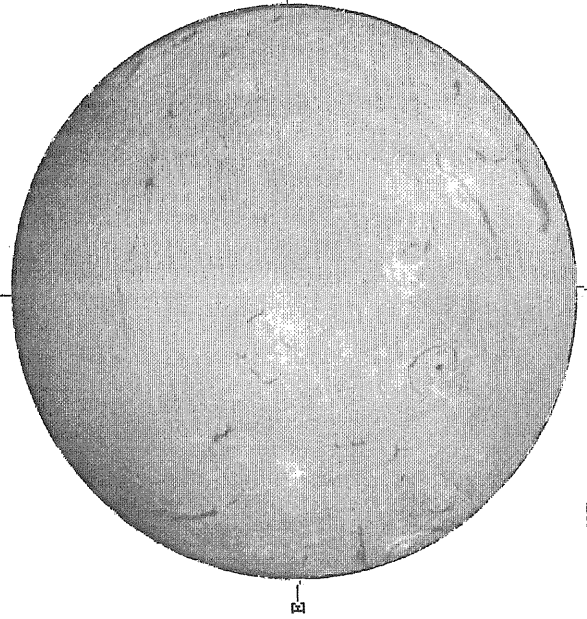


White=+7.5G  
Black=-7.5G

STANFORD MAGNETOGRAM

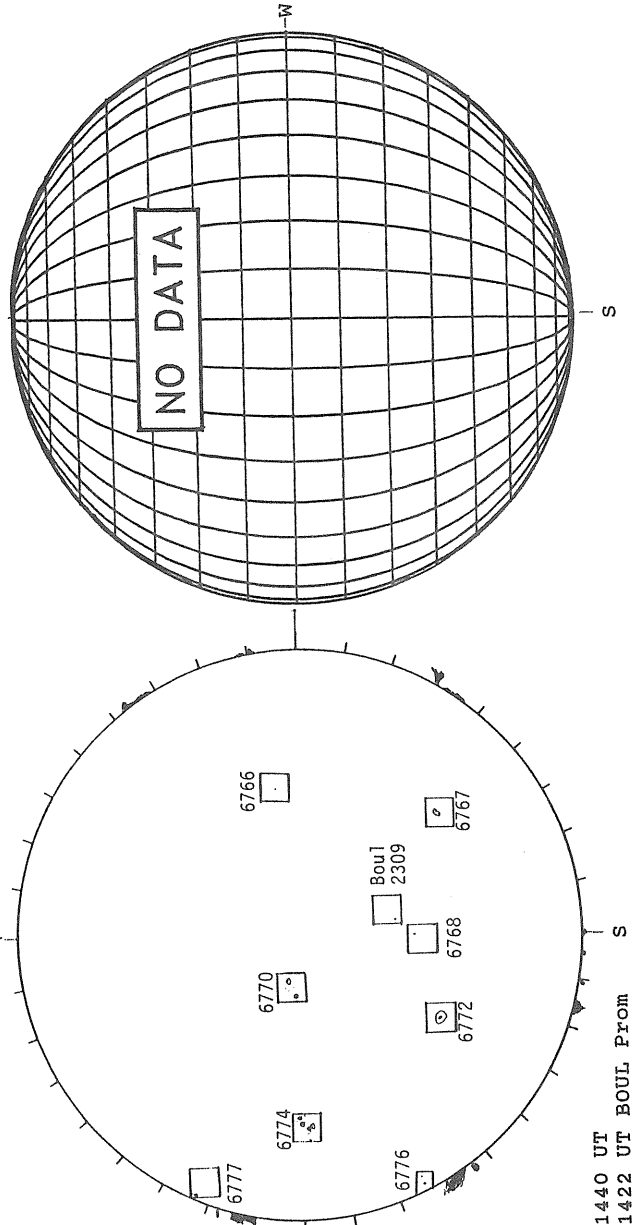


SACRAMENTO PEAK H-ALPHA



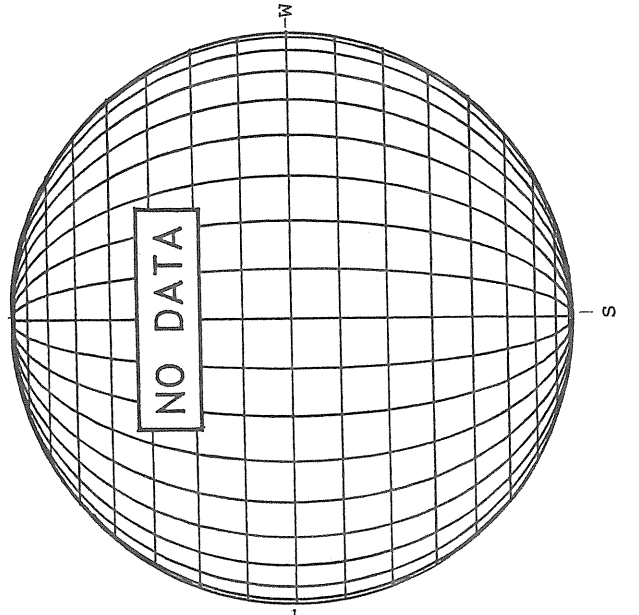
2217 UT

BOULDER SUNSPOT



1440 UT  
1422 UT BOUL Prom

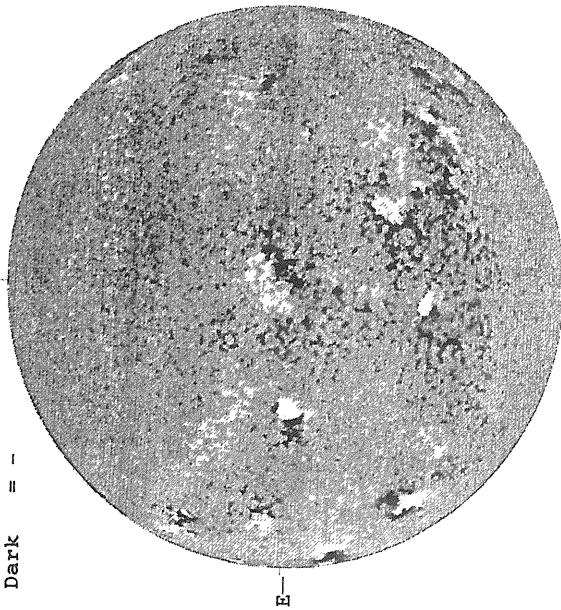
SACRAMENTO PEAK CORONA (1.15 Radii)



AUGUST 12, 1991 ( P= 14.79, B<sub>O</sub> = 6.45, L<sub>O</sub> = 128.09 )

KITT PEAK MAGNETOGRAM

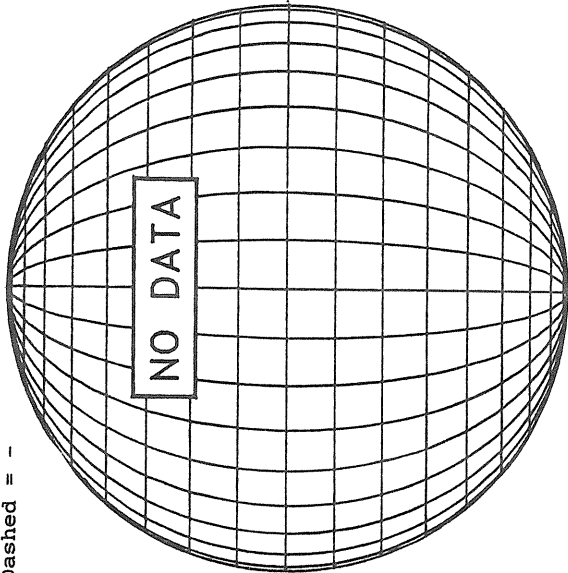
Bright = +  
Dark = -



1817 UT

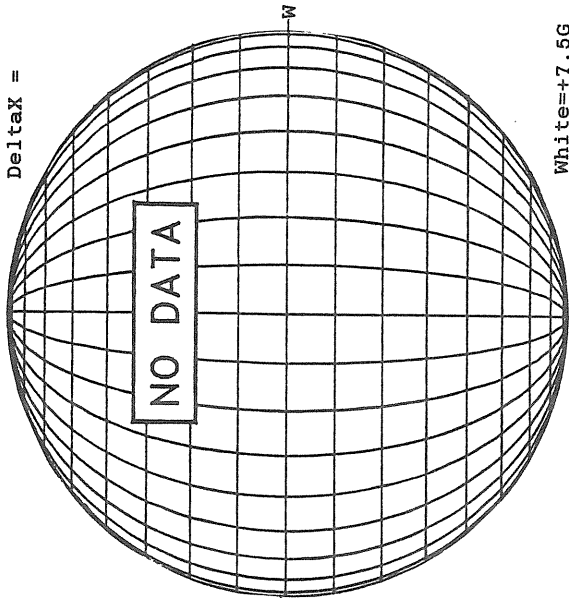
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



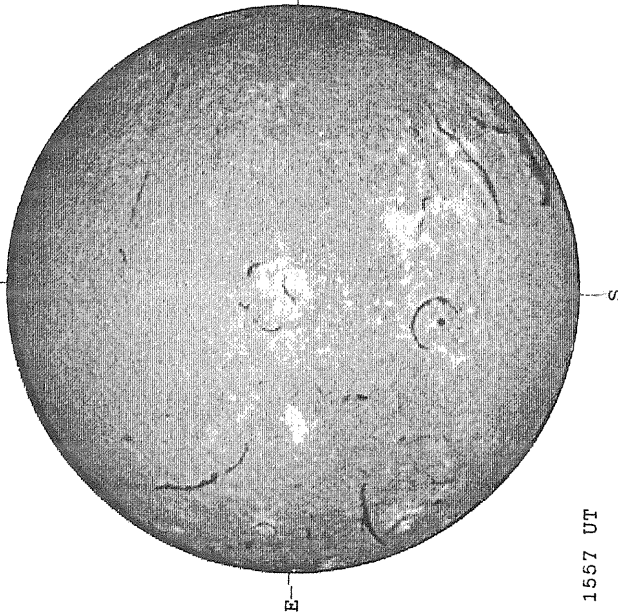
MT. WILSON MAGNETOGRAM

Delta<sub>Y</sub> =  
Delta<sub>X</sub> =



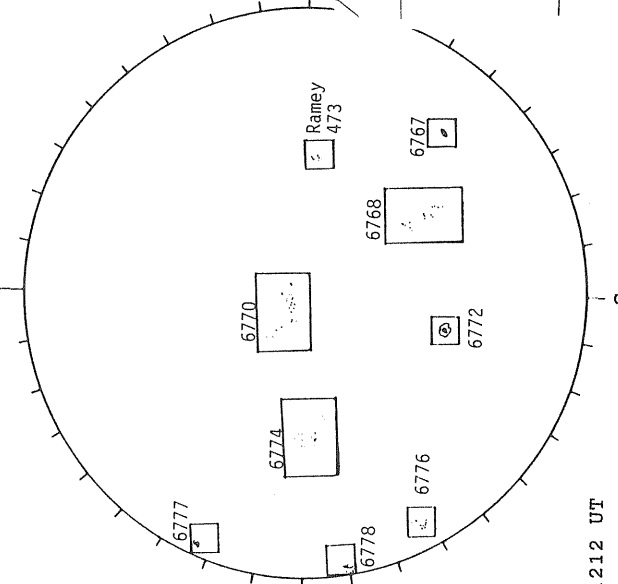
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



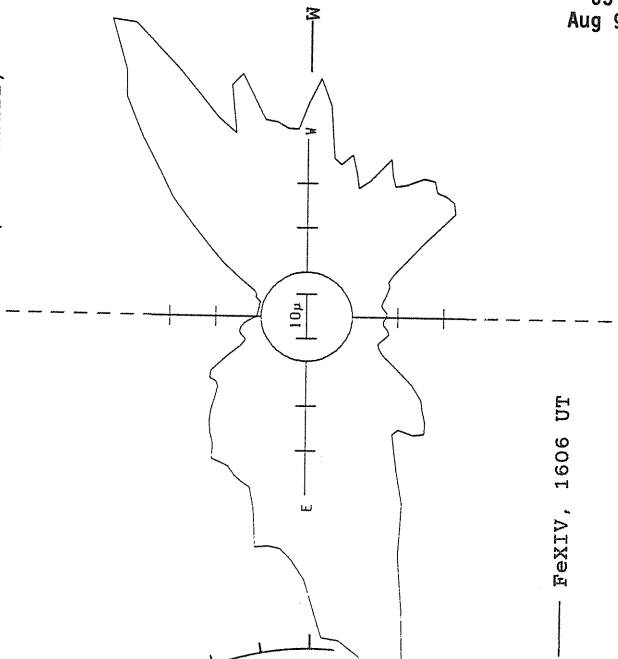
1557 UT

RAMEY SUNSPOT



1212 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

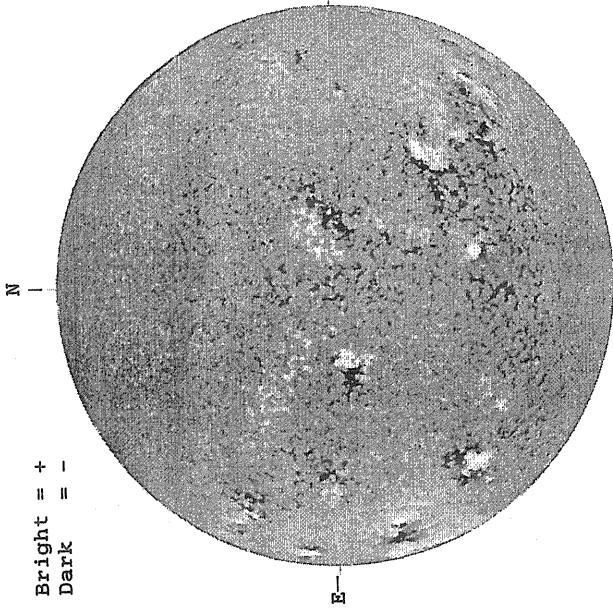


FeXIV, 1606 UT

66  
Aug 91

AUGUST 13, 1991 ( P= 15.14, B<sub>0</sub> = 6.51, L<sub>0</sub> = 114.87 )

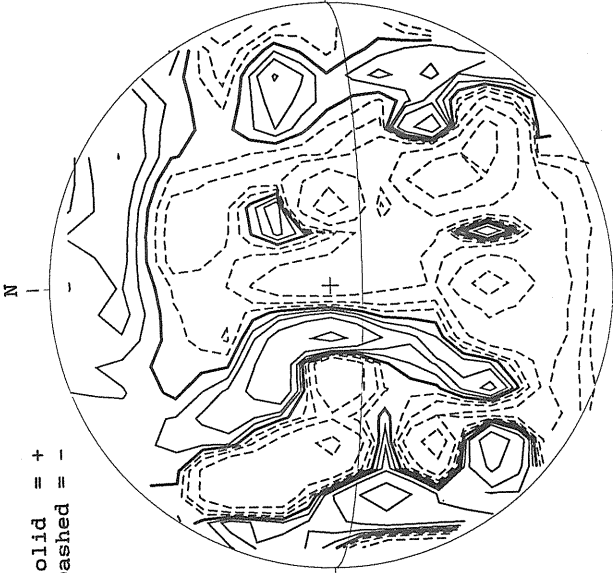
KITT PEAK MAGNETOGRAM



Bright = +  
Dark = -

1348 UT

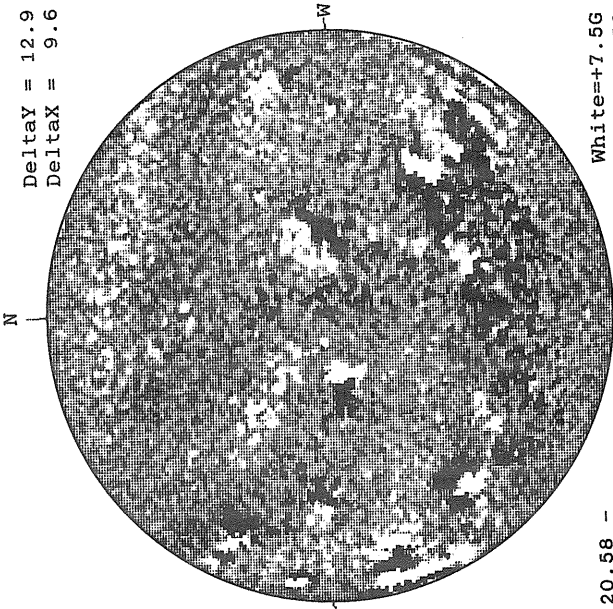
STANFORD MAGNETOGRAM



Solid = +  
Dashed = -

1935 UT

MT. WILSON MAGNETOGRAM

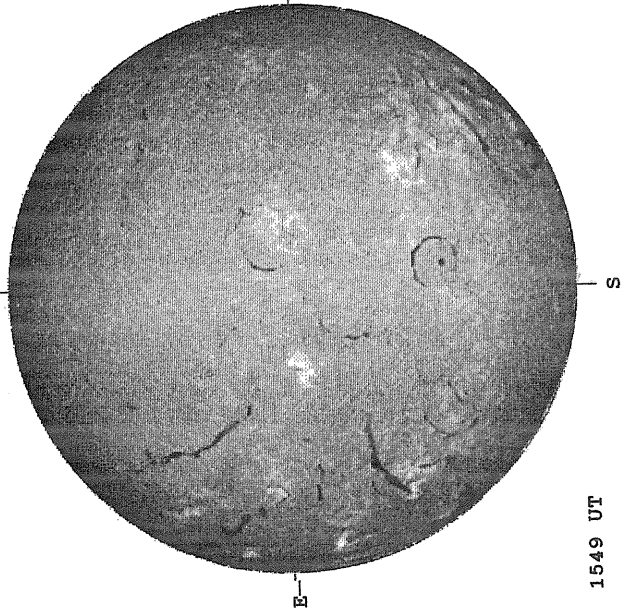


DeltaY = 12.9  
DeltaX = 9.6

White=+7.5G  
Black=-7.5G

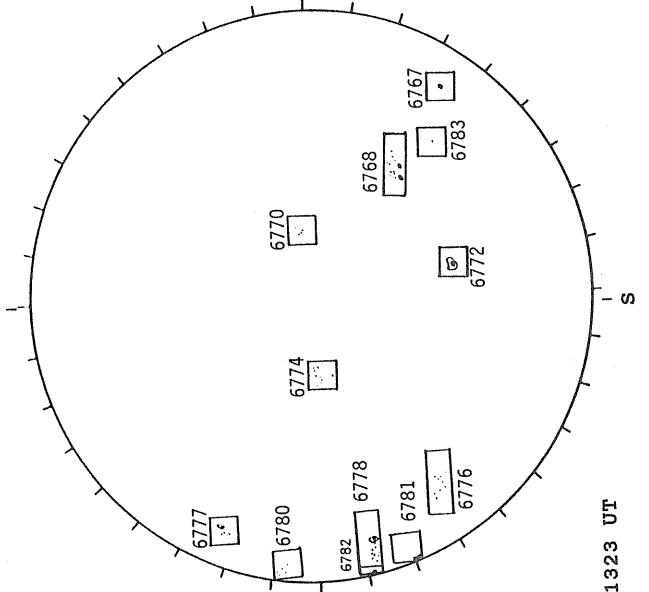
20.58 -  
21.52 UT

SACRAMENTO PEAK H-ALPHA



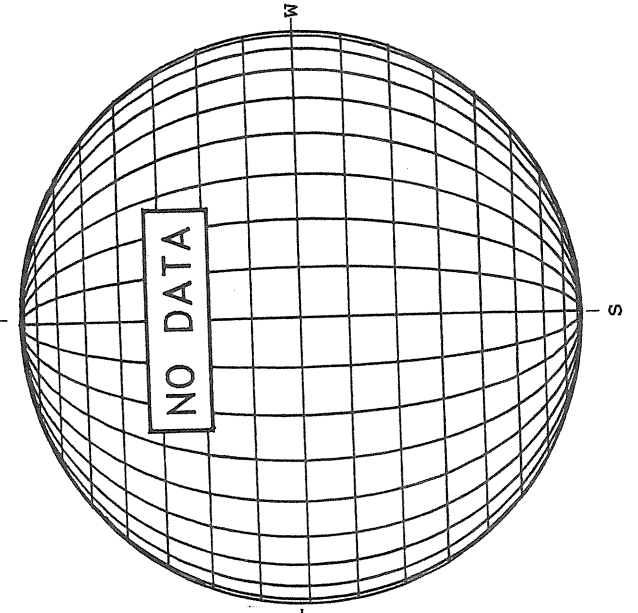
1549 UT

RAMEY SUNSPOT



1323 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

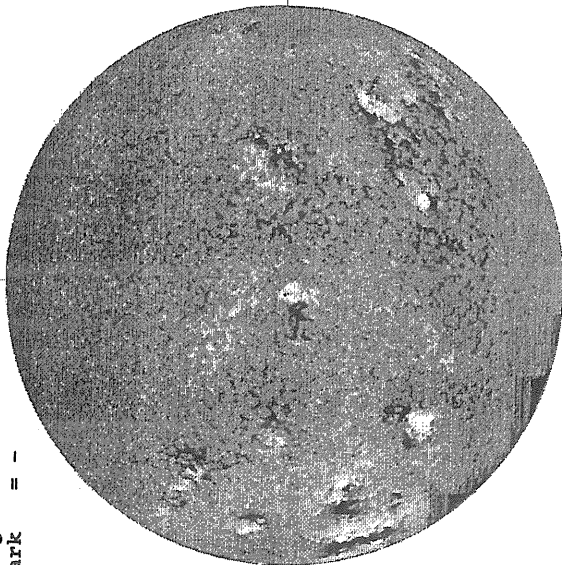


AUGUST 14, 1991 ( P= 15.49, B<sub>0</sub> = 6.56, I<sub>0</sub> = 101.65 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -

N



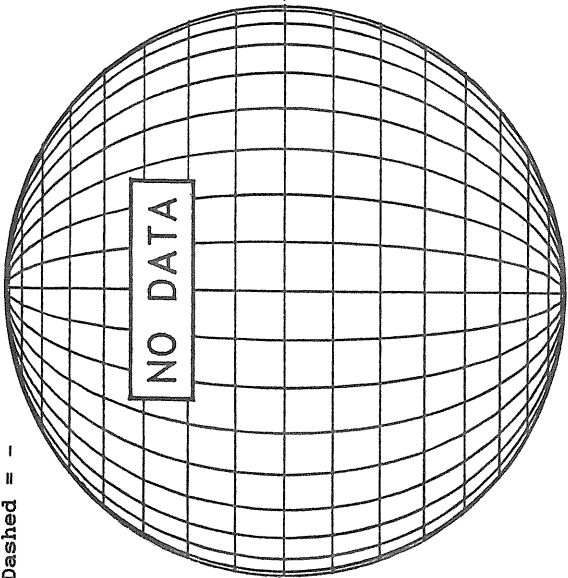
E

1451 UT

STANFORD MAGNETOGRAM

Solid = +  
Dashed = -

N

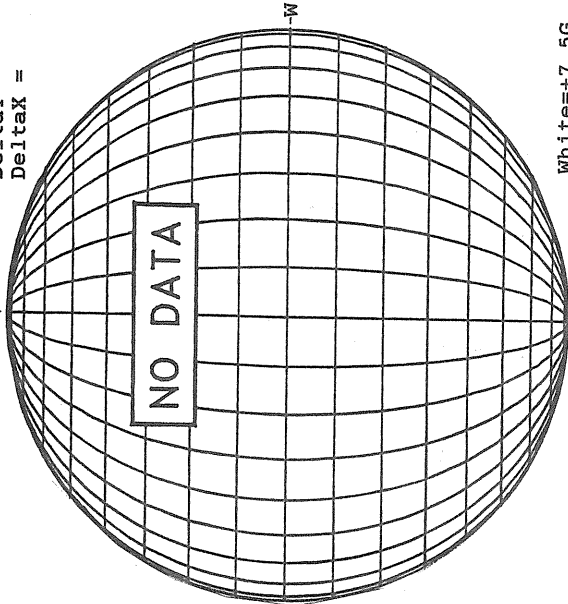


NO DATA

MT. WILSON MAGNETOGRAM

Delta = +  
Delta = -

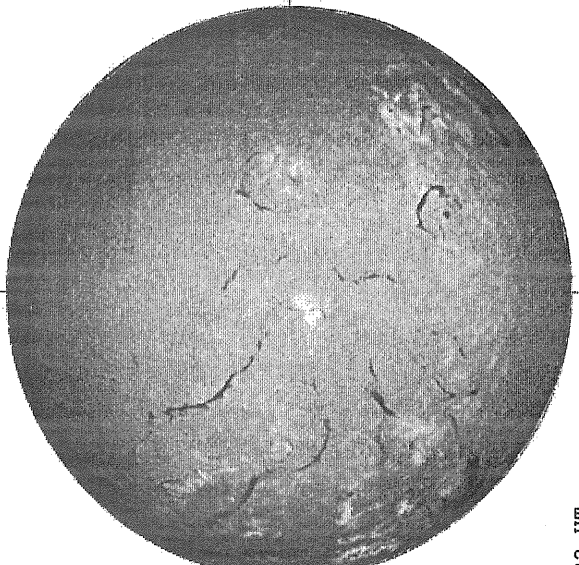
N



NO DATA

White = +7.5G  
Black = -7.5G

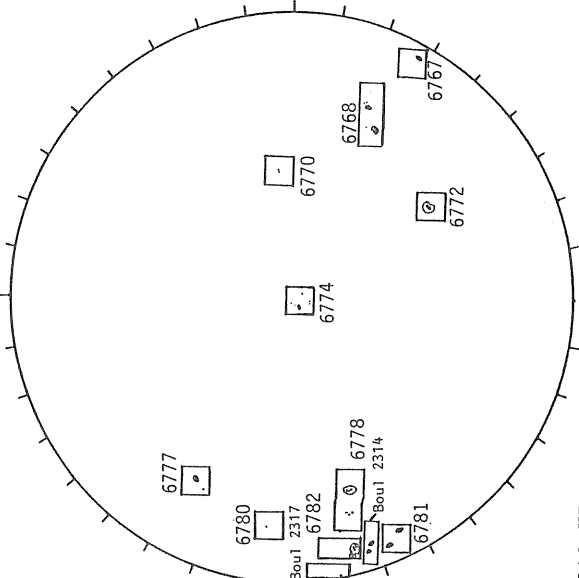
SACRAMENTO PEAK H-ALPHA



E

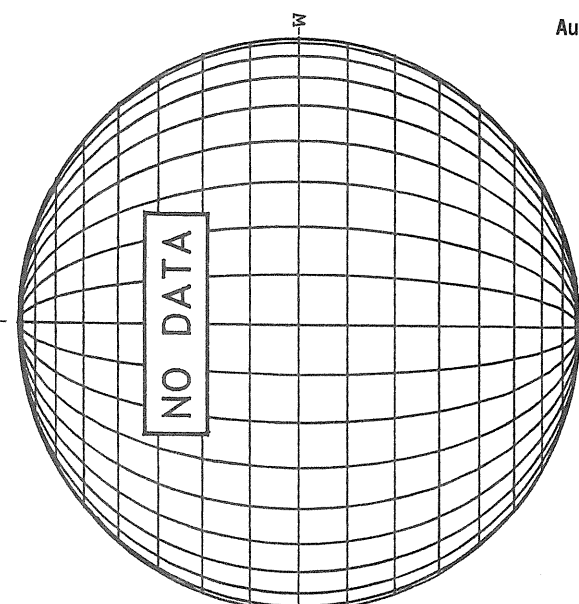
1523 UT

BOULDER SUNSPOT



1512 UT

SACRAMENTO PEAK CORONA ( 1.15 Radii )

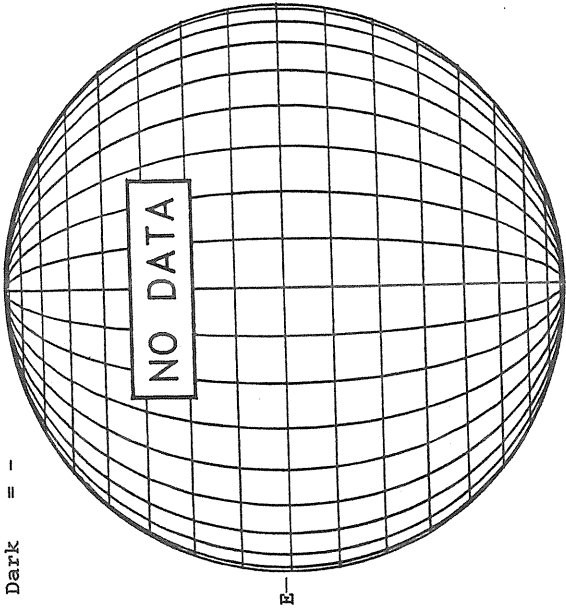


NO DATA

AUGUST 15, 1991 ( P= 15.84, B<sub>0</sub> = 6.61, I<sub>0</sub> = 88.43 )

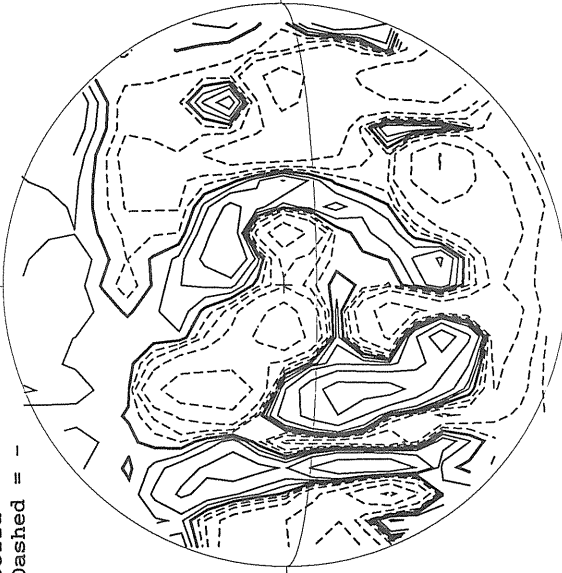
KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



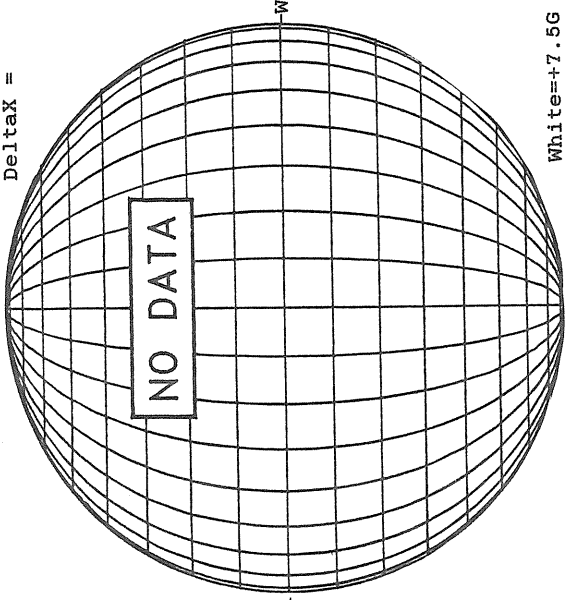
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



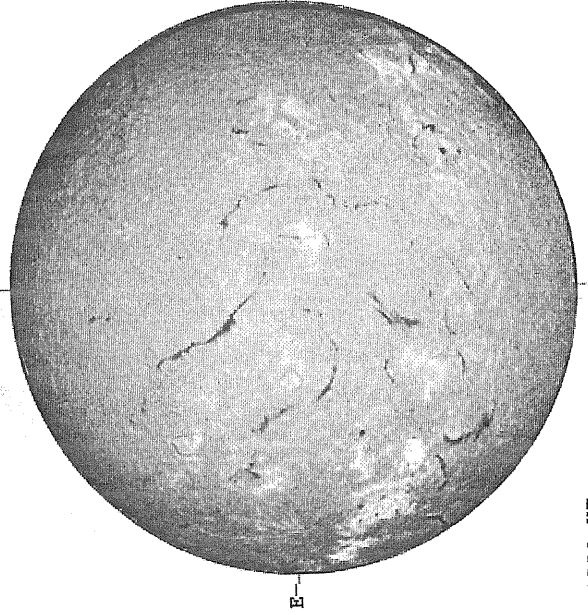
MT. WILSON MAGNETOGRAM

Delta<sub>γ</sub> =  
Delta<sub>α</sub> =



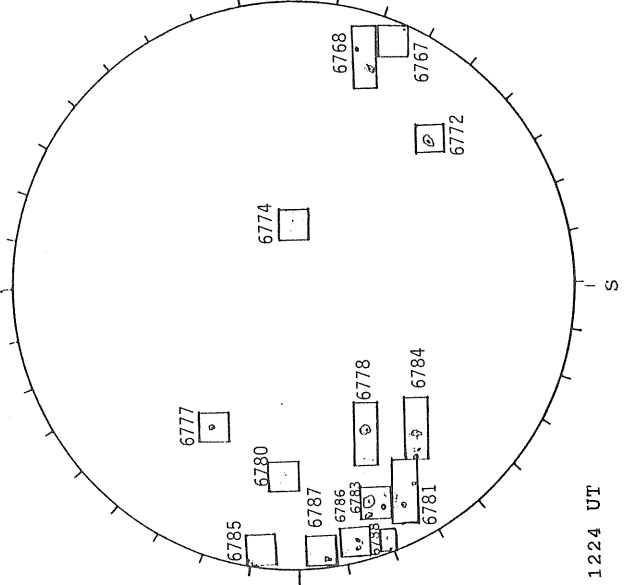
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



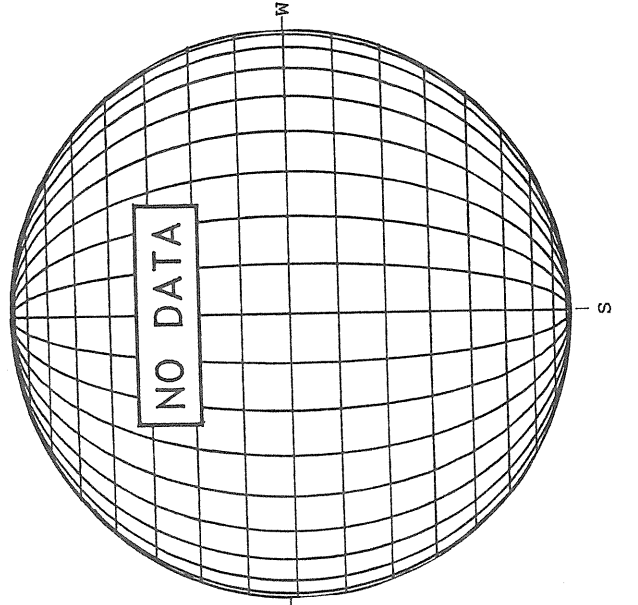
1553 UT

RAMEY SUNSPOT



1224 UT

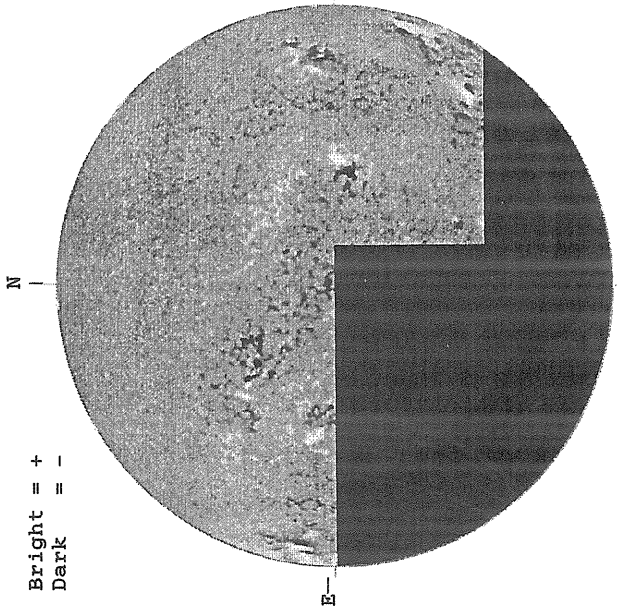
SACRAMENTO PEAK CORONA (1.15 Radii)



AUGUST 16, 1991 ( P= 16.18, B<sub>0</sub> = 6.66, L<sub>0</sub> = 75.21 )

KITT PEAK MAGNETOGRAM

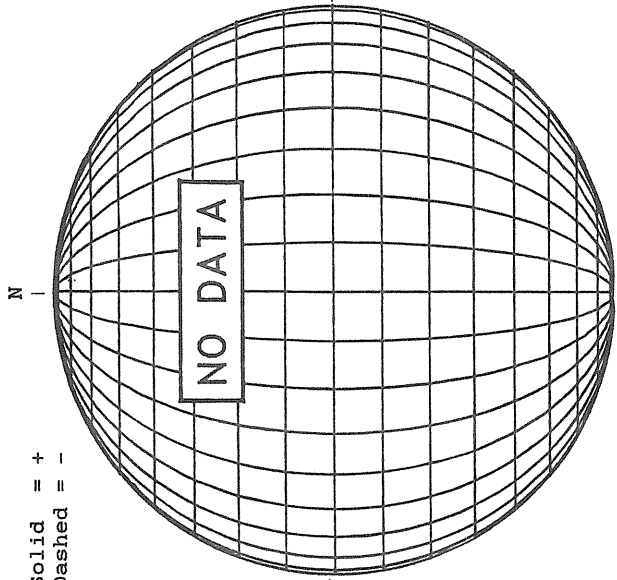
Bright = +  
Dark = -



1629 UT

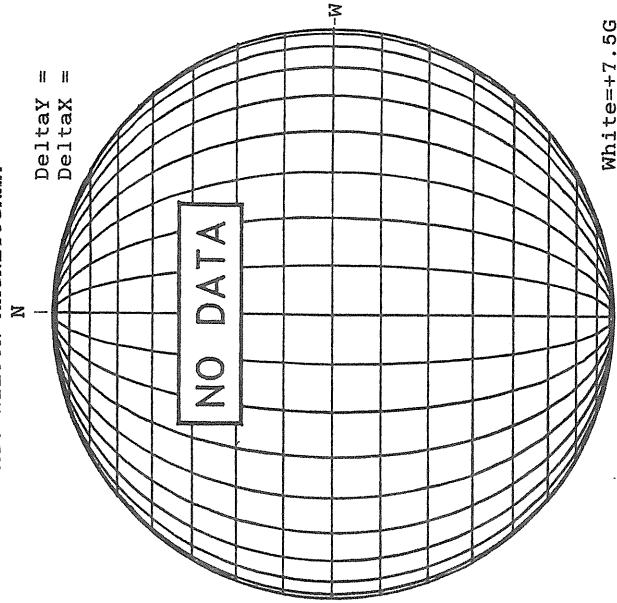
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



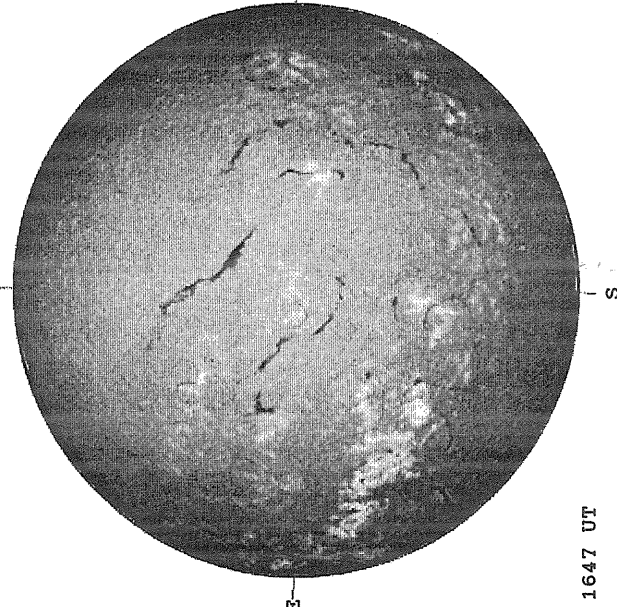
MT. WILSON MAGNETOGRAM

DeltaY =  
DeltaX =



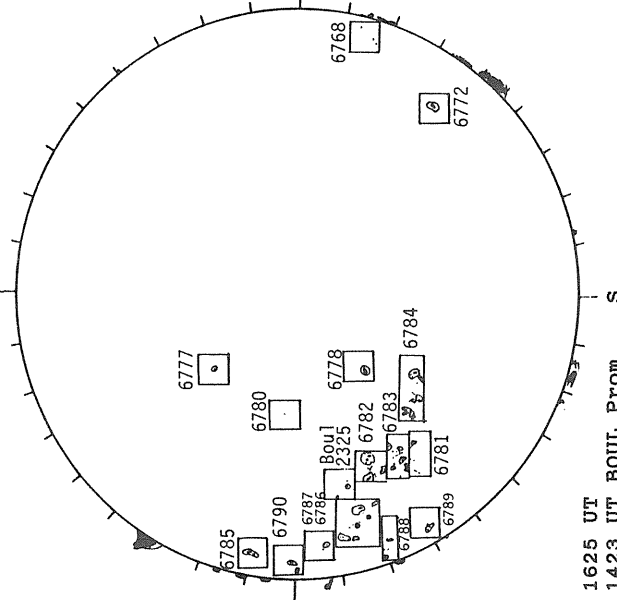
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



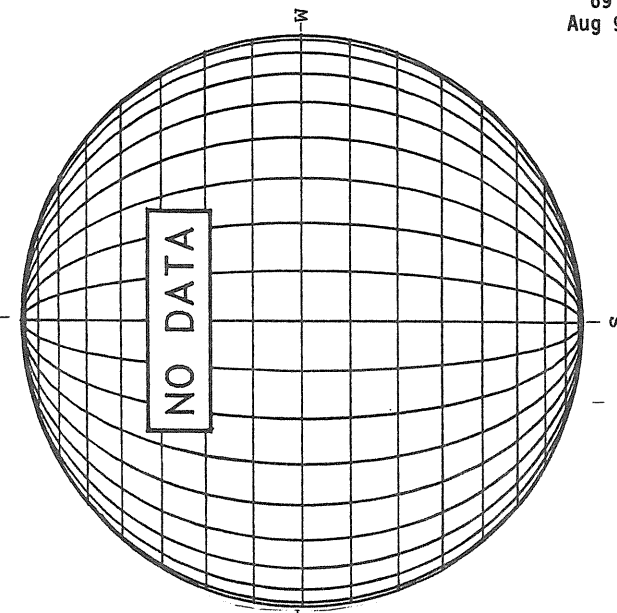
1647 UT

BOULDER SUNSPOT



1625 UT  
1423 UT BOUL Prom

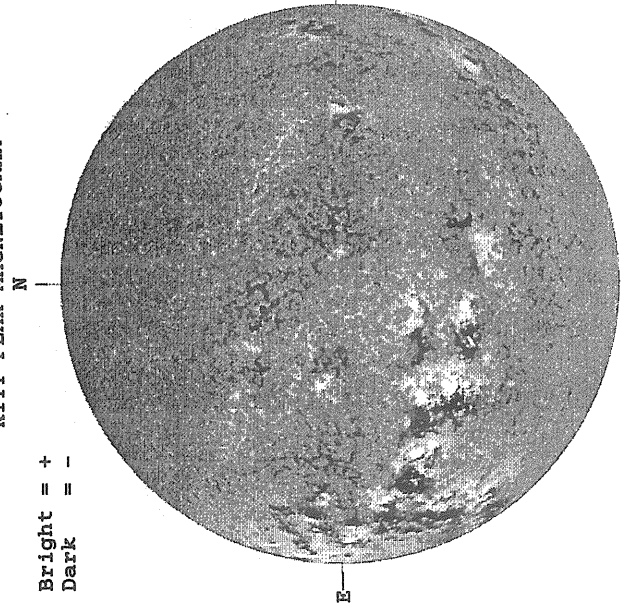
SACRAMENTO PEAK CORONA (1.15 Radii)



AUGUST 17, 1991 ( P= 16.51, B<sub>0</sub> = 6.70, I<sub>0</sub> = 61.99 )

KITT PEAK MAGNETOGRAM

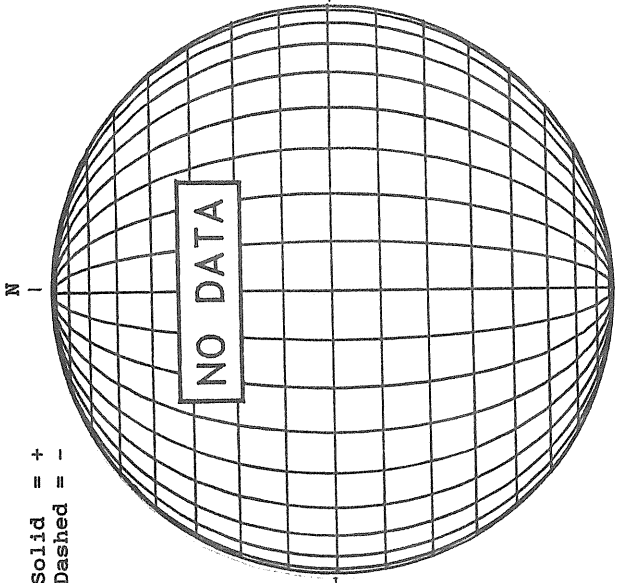
Bright = +  
Dark = -



1433 UT

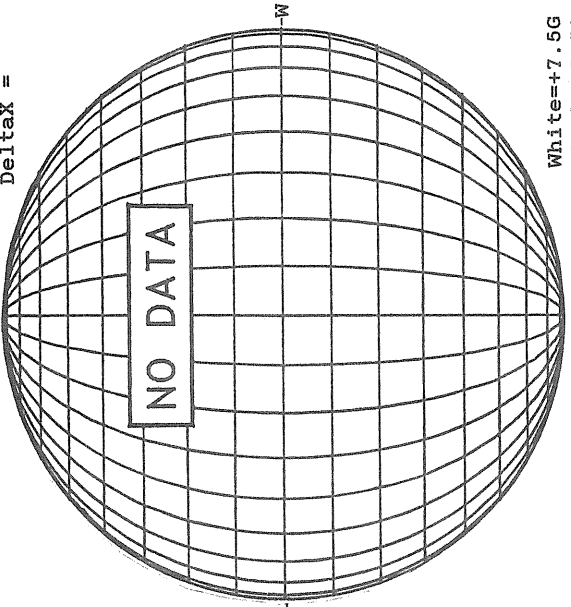
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



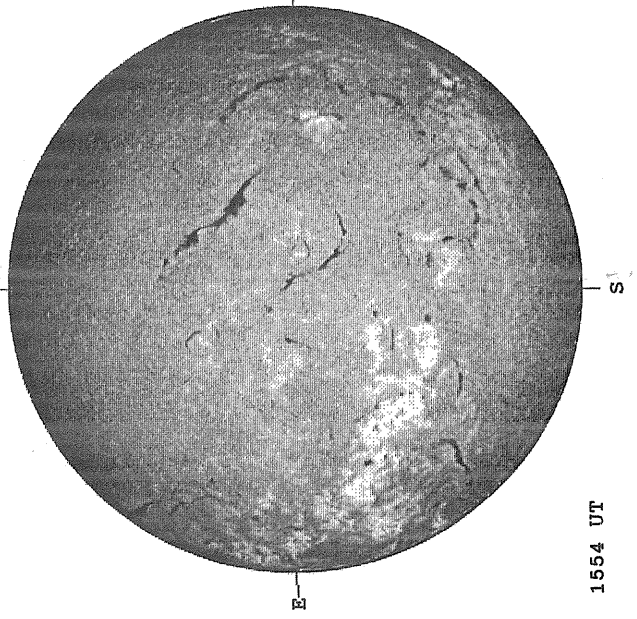
MT. WILSON MAGNETOGRAM

Delta<sub>Y</sub> =  
Delta<sub>X</sub> =



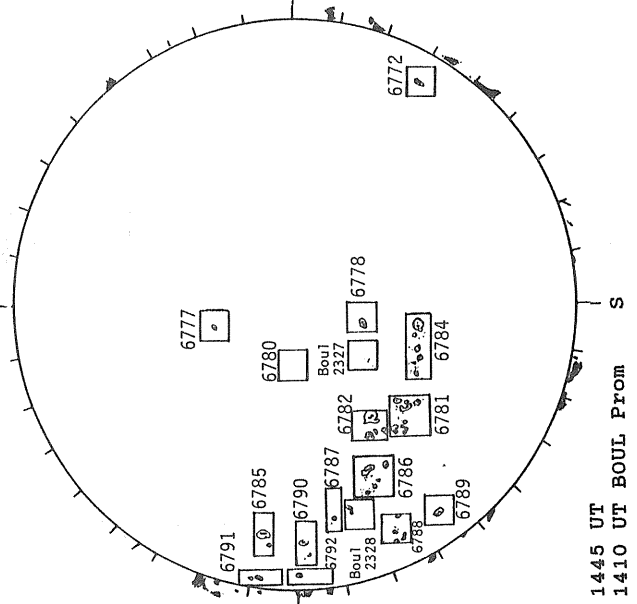
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



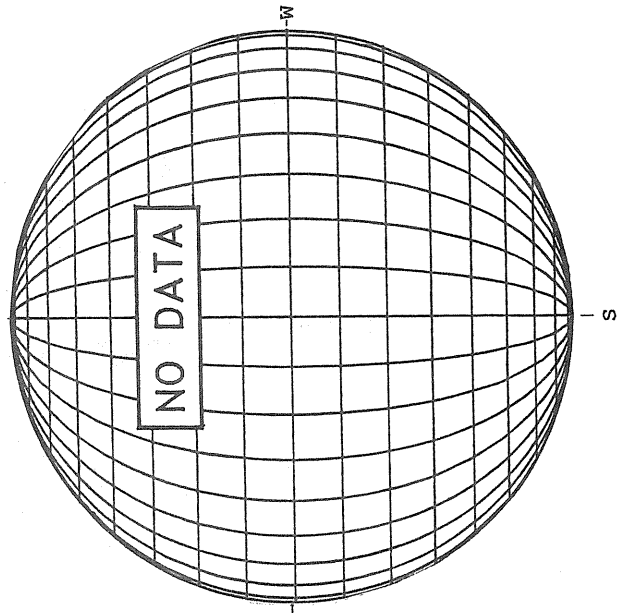
1554 UT

BOULDER SUNSPOT



1445 UT  
1410 UT BOUL FROM S

SACRAMENTO PEAK CORONA ( 1.15 Radii )



AUGUST 18, 1991 ( P = 16.84, B<sub>0</sub> = 6.75, L<sub>0</sub> = 48.78 )

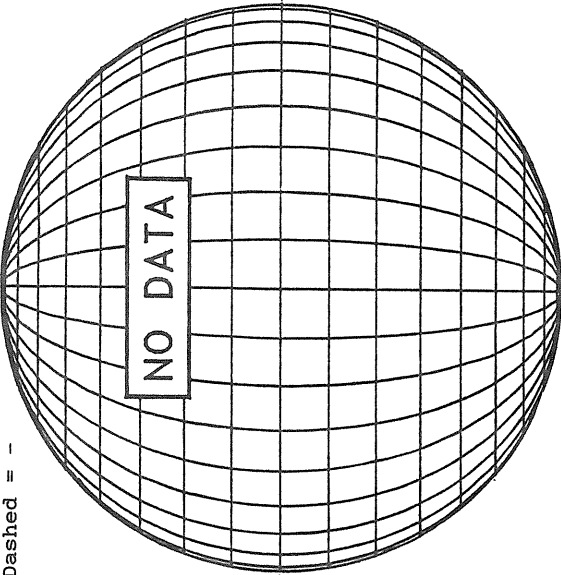
KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -

Solid = +  
Dashed = -

STANFORD MAGNETOGRAM

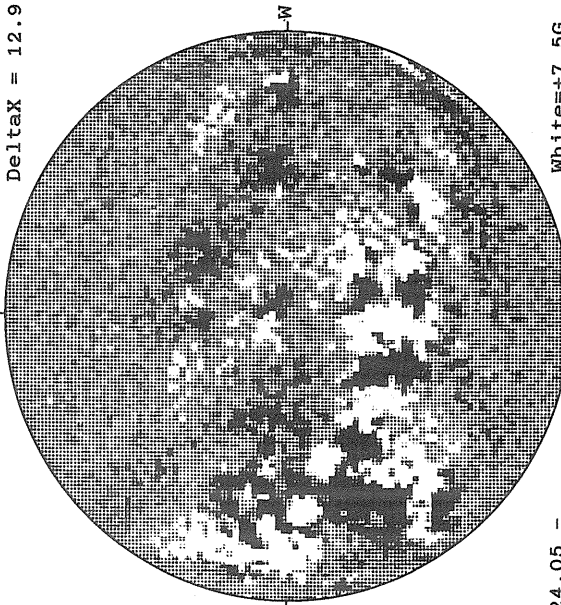
N



MT. WILSON MAGNETOGRAM

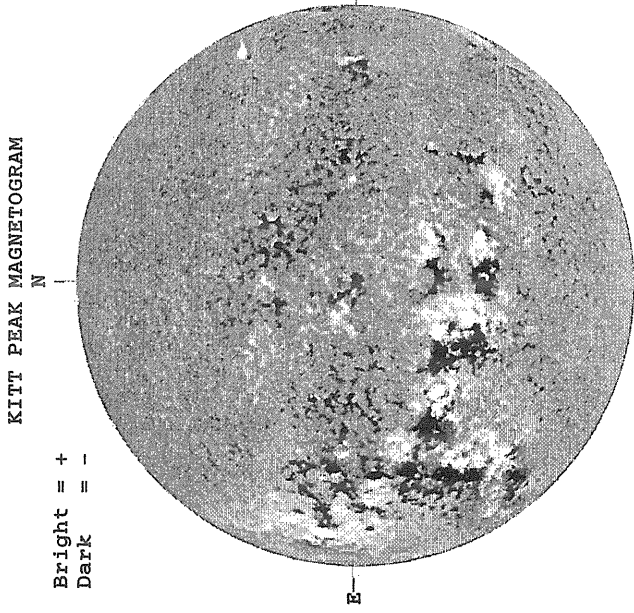
N

Delta<sub>Y</sub> = 20.2  
Delta<sub>X</sub> = 12.9



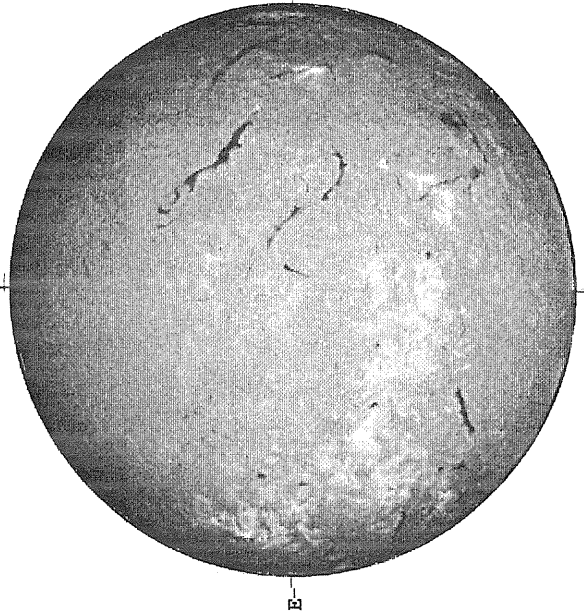
24.05 -  
24.46 UT

White = +7.5G  
Black = -7.5G



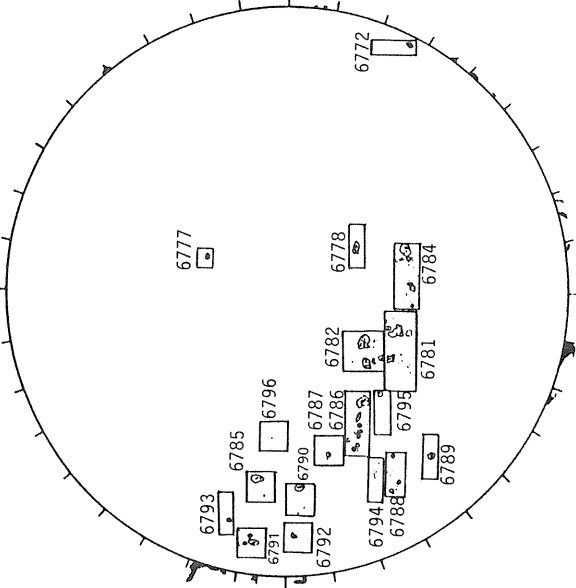
1653 UT

SACRAMENTO PEAK H-ALPHA



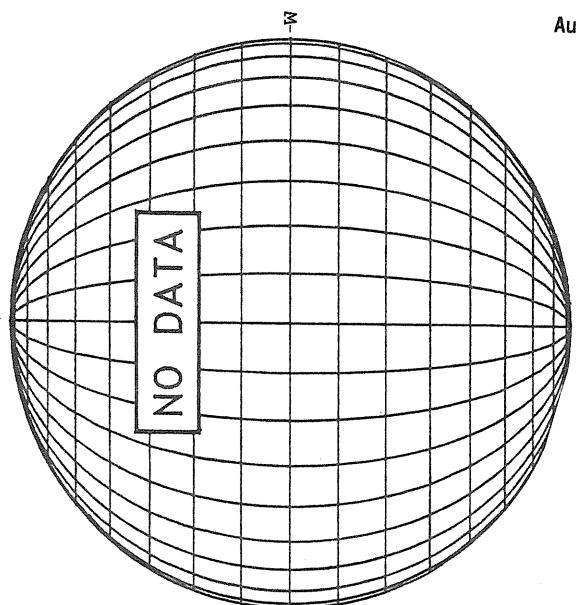
1636 UT

BOULDER SUNSPOT



1450 UT  
1420 UT BOUL FROM

SACRAMENTO PEAK CORONA (1.15 Radii)





72  
Aug 91

AUGUST 19, 1991 ( P= 17.17, B<sub>0</sub> = 6.79, I<sub>0</sub> = 35.56 )

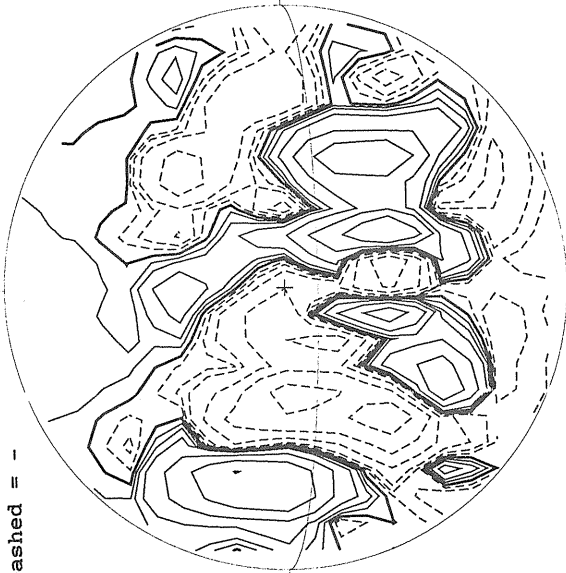
KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -

Solid = +  
Dashed = -

STANFORD MAGNETOGRAM

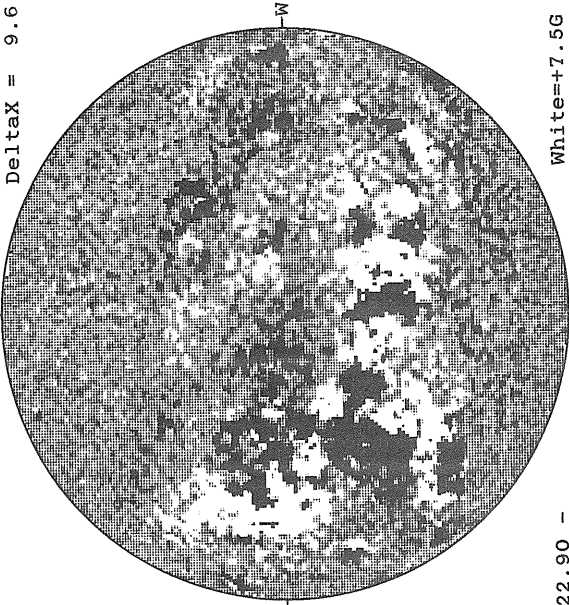
N



0018 UT  
Aug 20

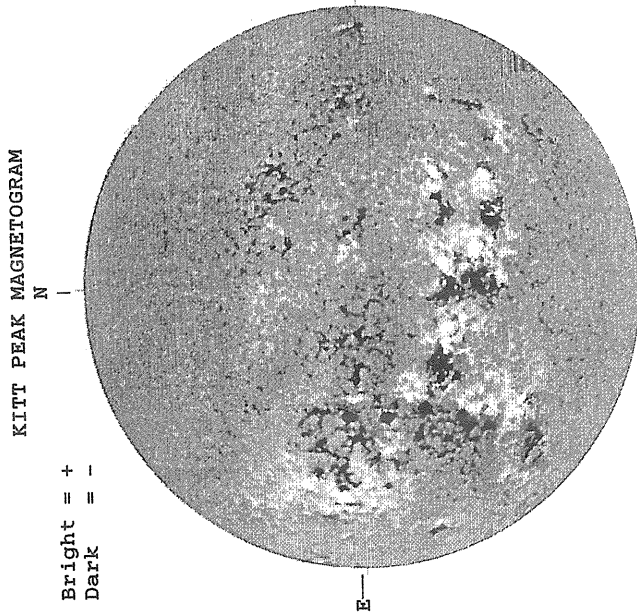
MT. WILSON MAGNETOGRAM

DeltaY = 13.0  
DeltaX = 9.6



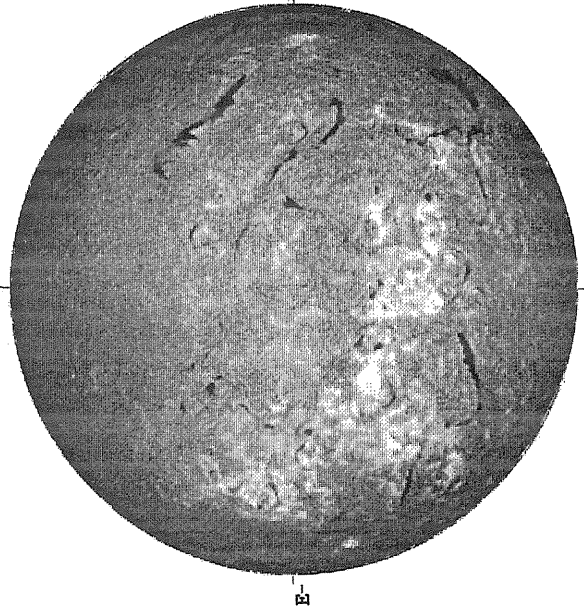
White=+7.5G  
Black=-7.5G

22.90 -  
23.83 UT



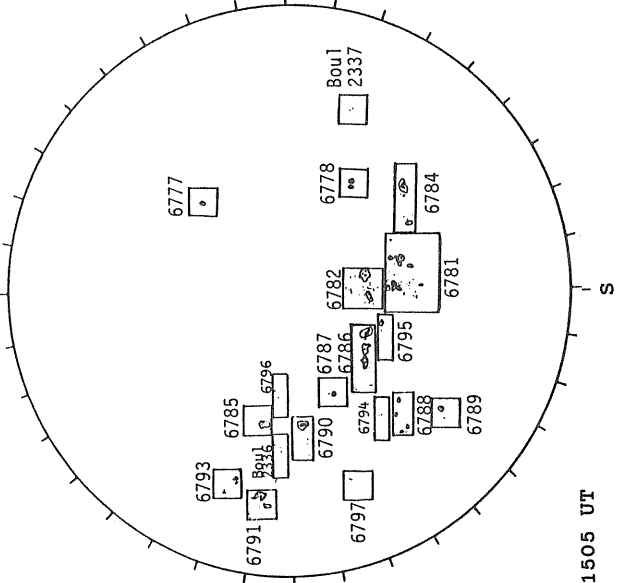
1726 UT

SACRAMENTO PEAK H-ALPHA



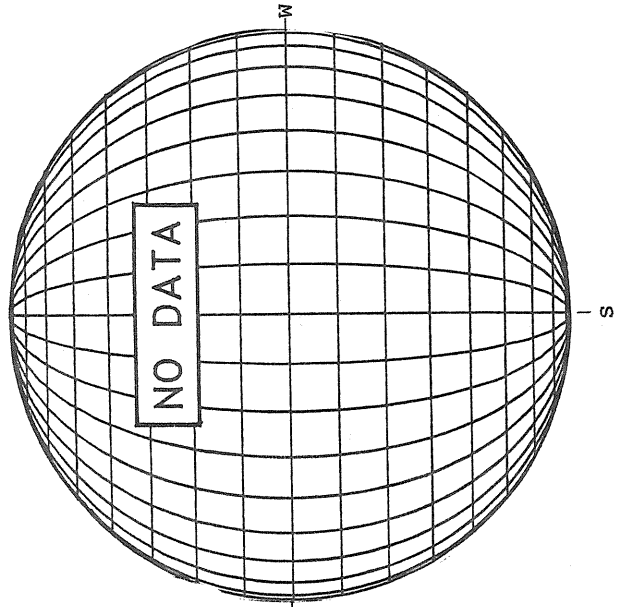
1608 UT

BOULDER SUNSPOT



1505 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

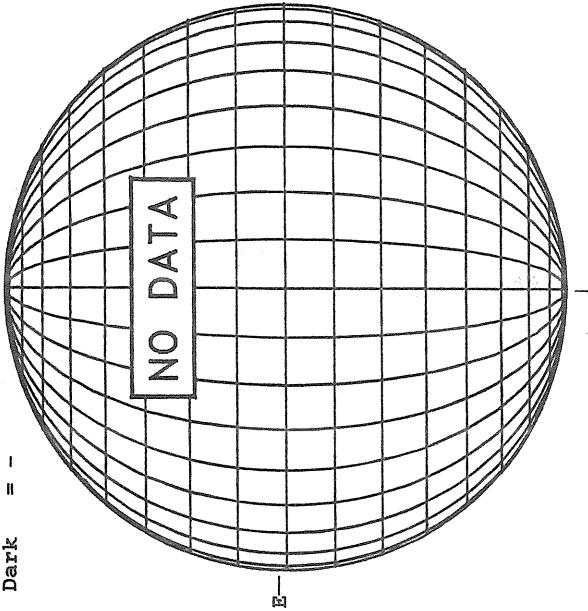


NO DATA

AUGUST 20, 1991 ( P= 17.49, B<sub>0</sub> = 6.83, L<sub>0</sub> = 22.34 )

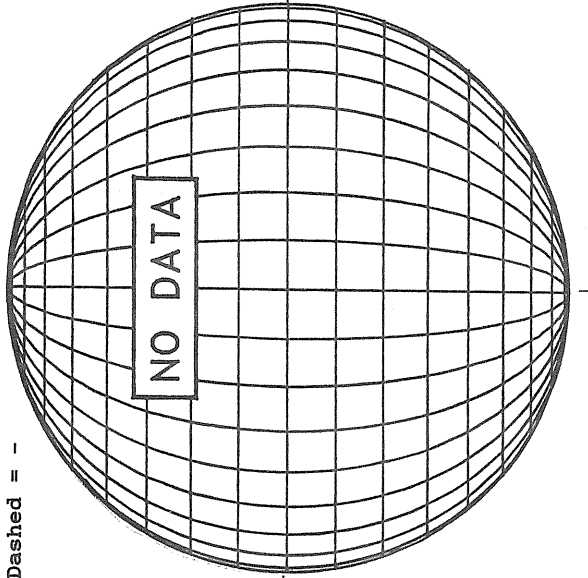
KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



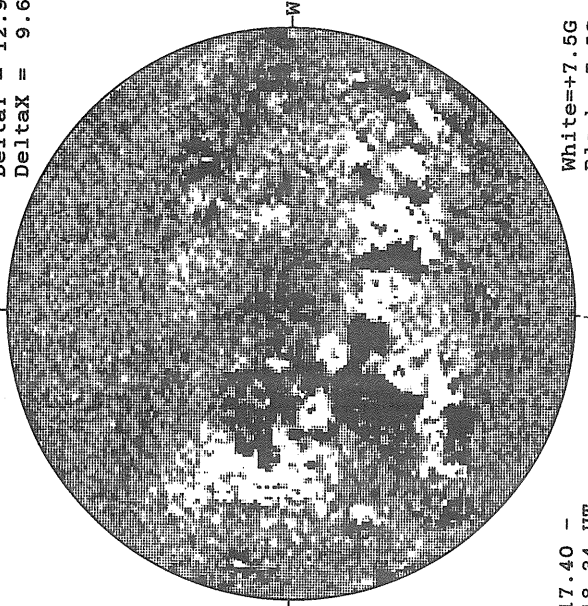
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



MT. WILSON MAGNETOGRAM

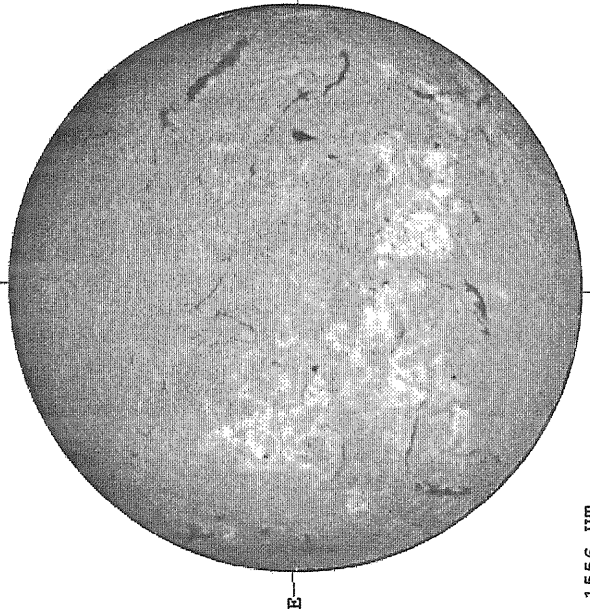
Delta<sub>y</sub> = 12.9  
Delta<sub>x</sub> = 9.6



17.40 -  
18.34 UT

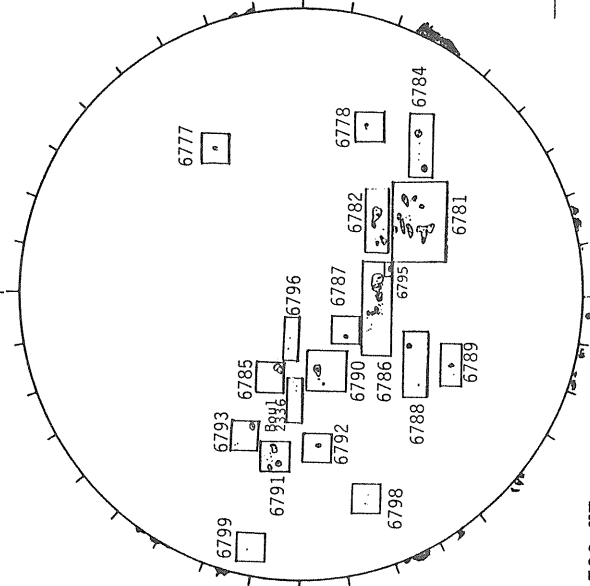
White = +7.5G  
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



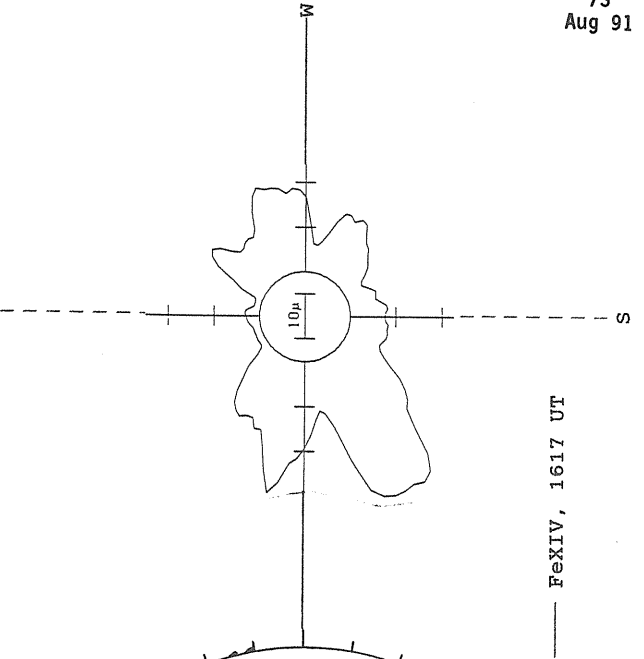
1556 UT

BOULDER SUNSPOT



1700 UT  
1650 UT BOUL PROM

SACRAMENTO PEAK CORONA (1.15 Radii)

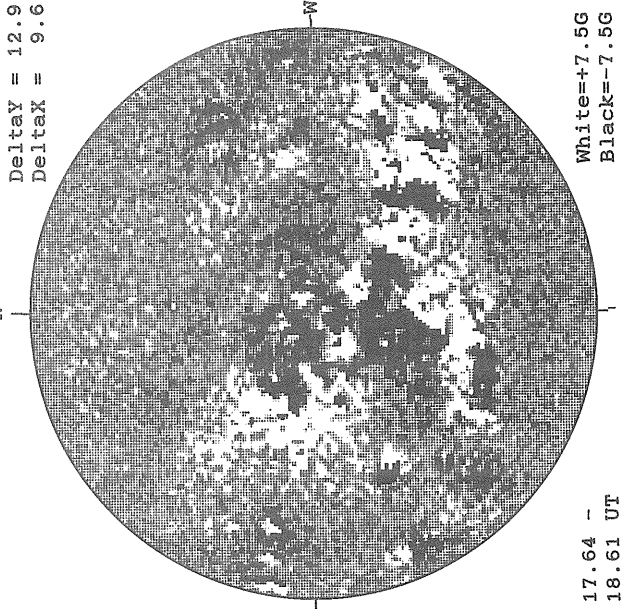


— FxIV, 1617 UT

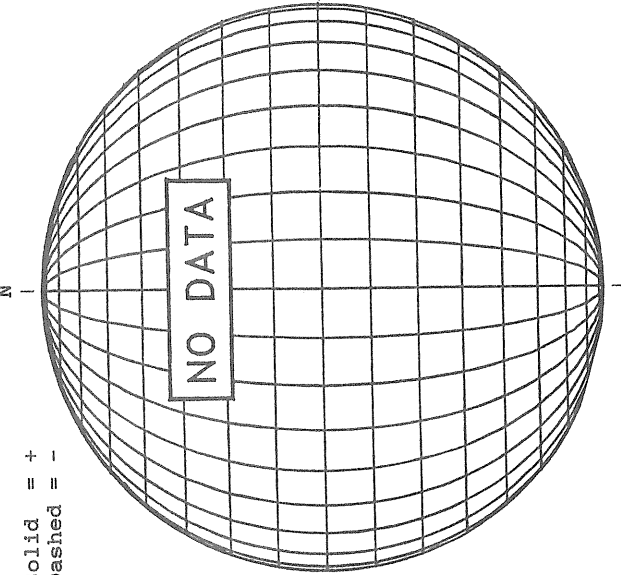
74  
Aug 91

AUGUST 21, 1991 ( P= 17.81, B<sub>0</sub> = 6.87 I<sub>0</sub> = 9.13 )

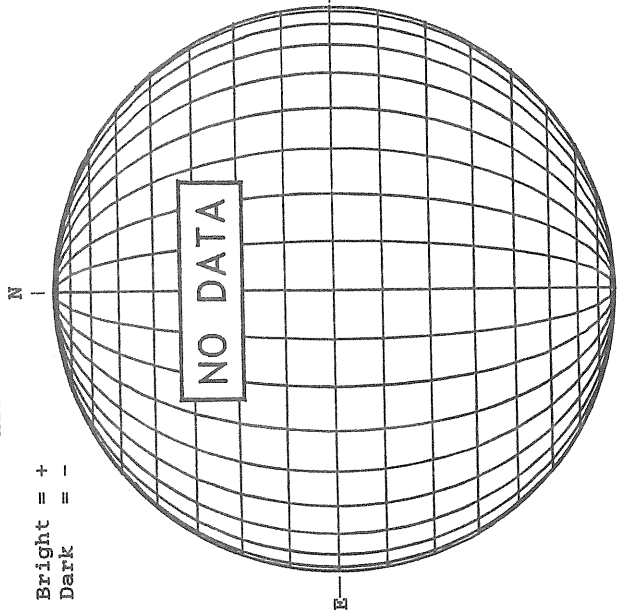
MT. WILSON MAGNETOGRAM



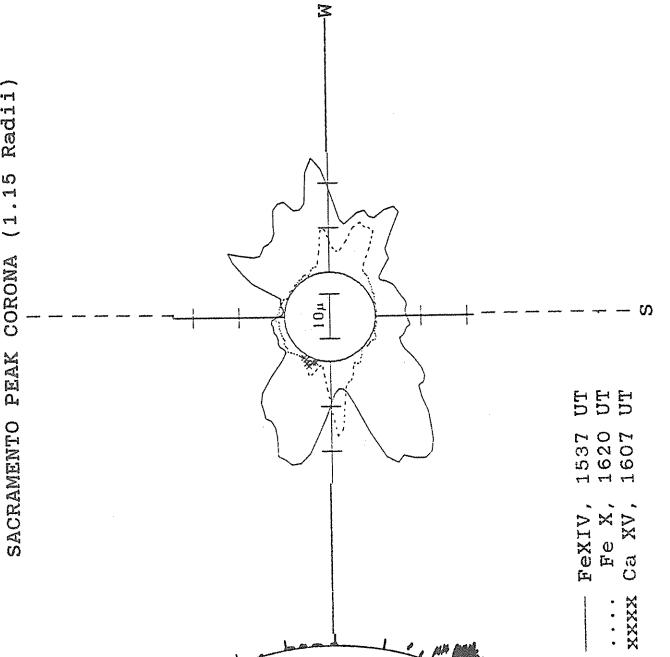
STANFORD MAGNETOGRAM



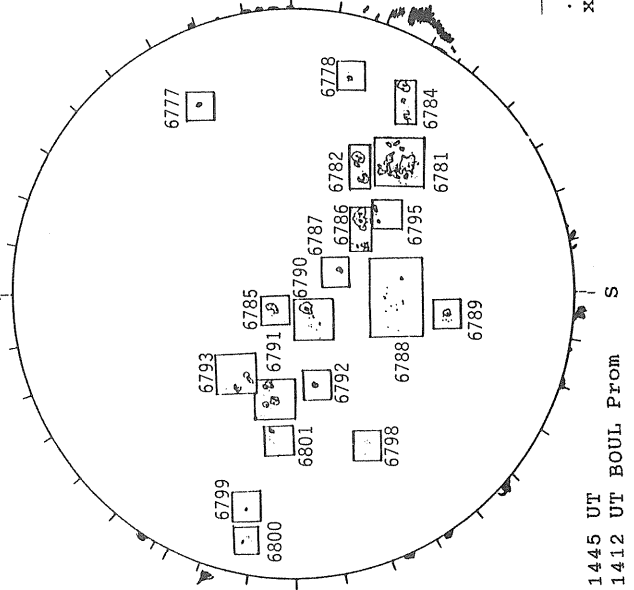
KITT PEAK MAGNETOGRAM



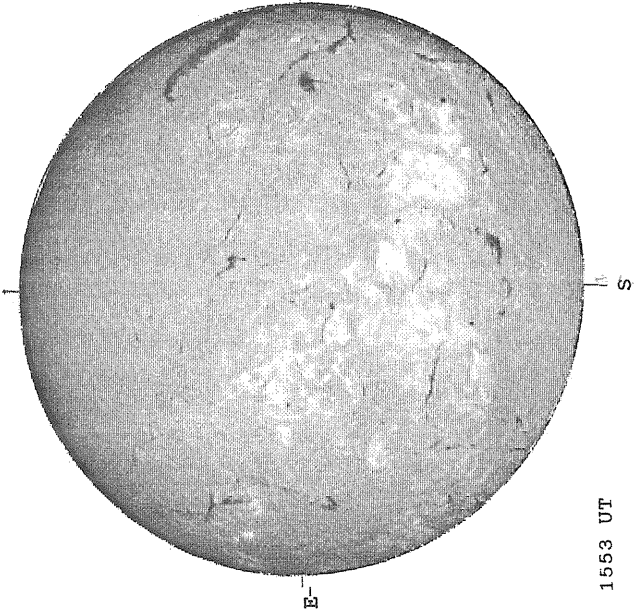
SACRAMENTO PEAK CORONA ( 1.15 Radii )



BOULDER SUNSPOT



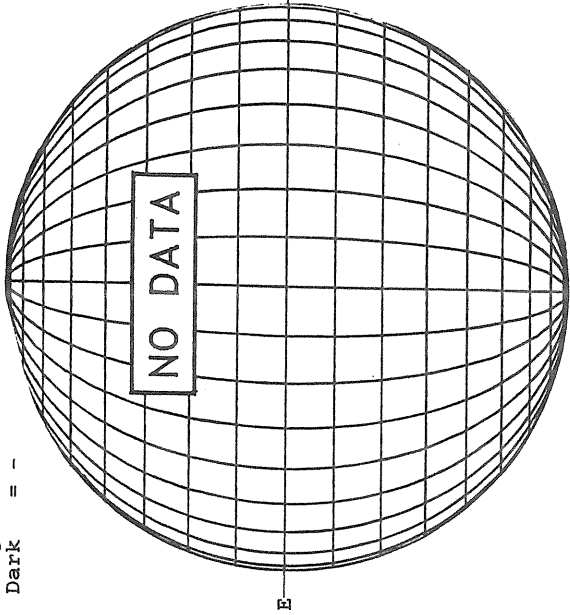
SACRAMENTO PEAK H-ALPHA



AUGUST 22, 1991 ( P= 18.12, B<sub>0</sub> = 6.91, I<sub>0</sub> = 355.91 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



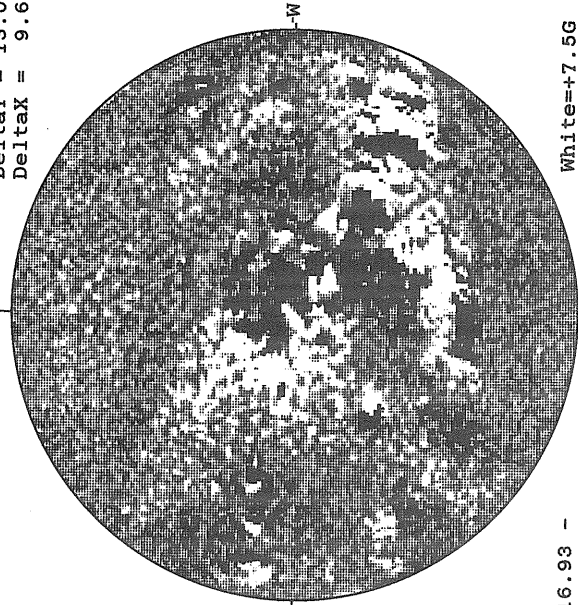
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



MT. WILSON MAGNETOGRAM

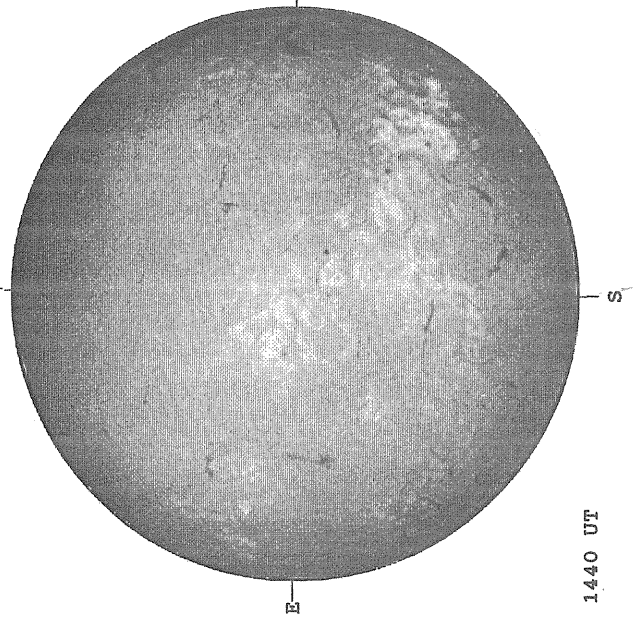
Delta Y = 13.0  
Delta X = 9.6



16.93 -  
17.86 UT

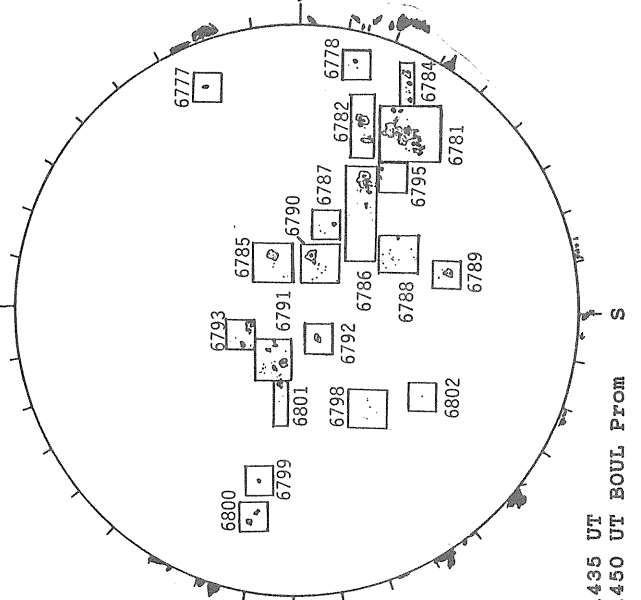
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



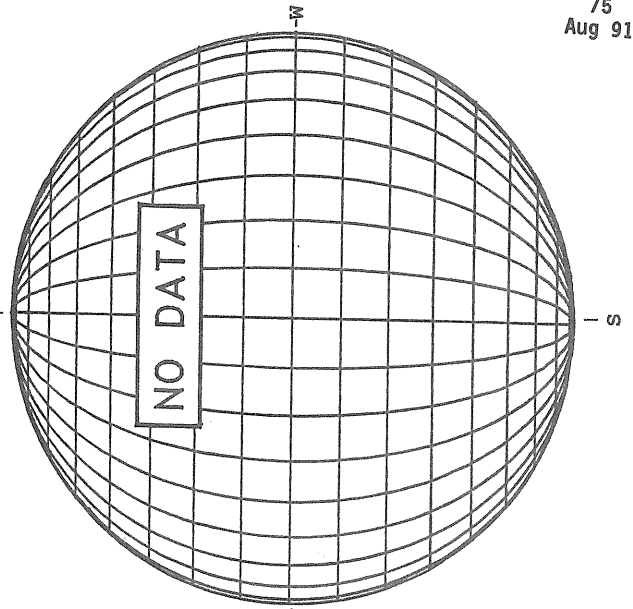
1440 UT

BOULDER SUNSPOT



1435 UT  
1450 UT BOUL FROM

SACRAMENTO PEAK CORONA (1.15 Radii)



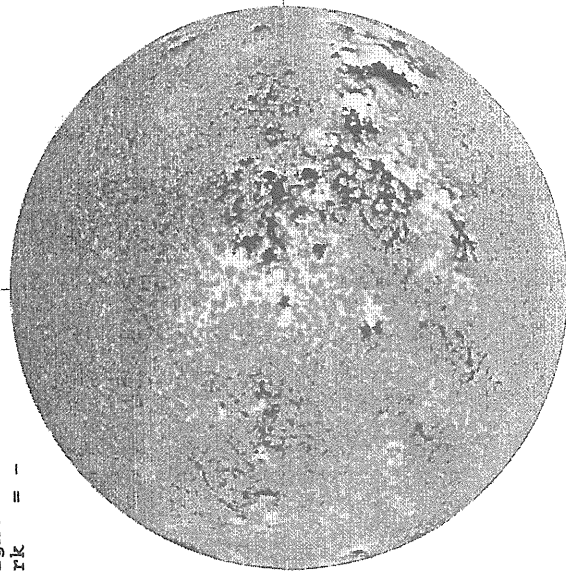
76  
Aug 91

AUGUST 23, 1991 ( P = 18.43, B<sub>0</sub> = 6.94, L<sub>0</sub> = 342.70 )

KITT PEAK MAGNETOGRAM

N

Bright = +  
Dark = -

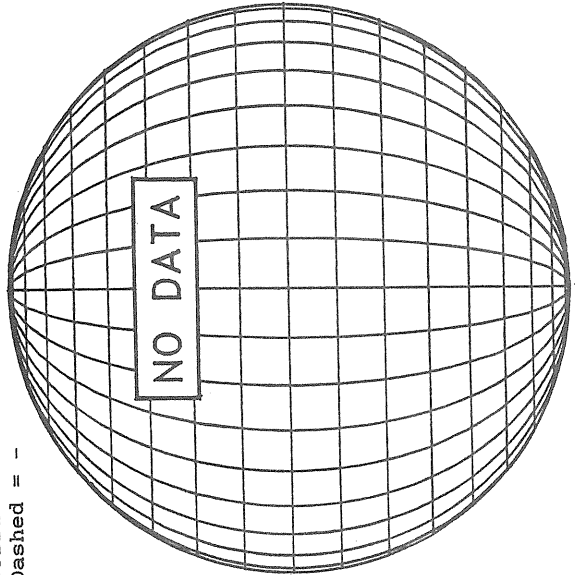


1607 UT

STANFORD MAGNETOGRAM

N

Solid = +  
Dashed = -

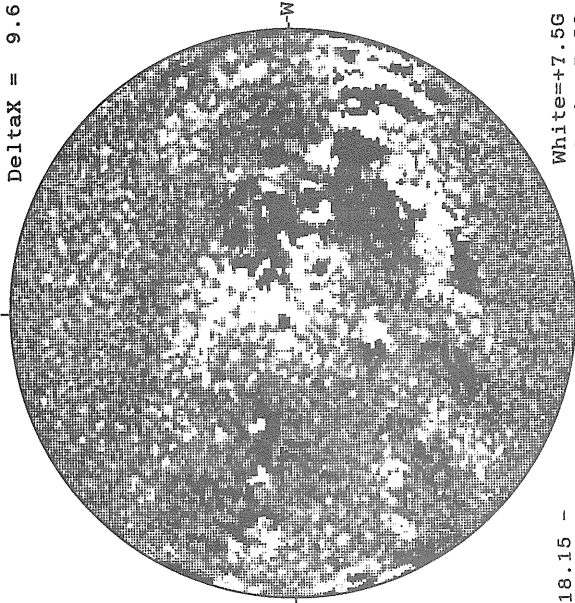


NO DATA

MT. WILSON MAGNETOGRAM

N

DeltaY = 12.9  
DeltaX = 9.6



18.15 ~  
19.08 UT

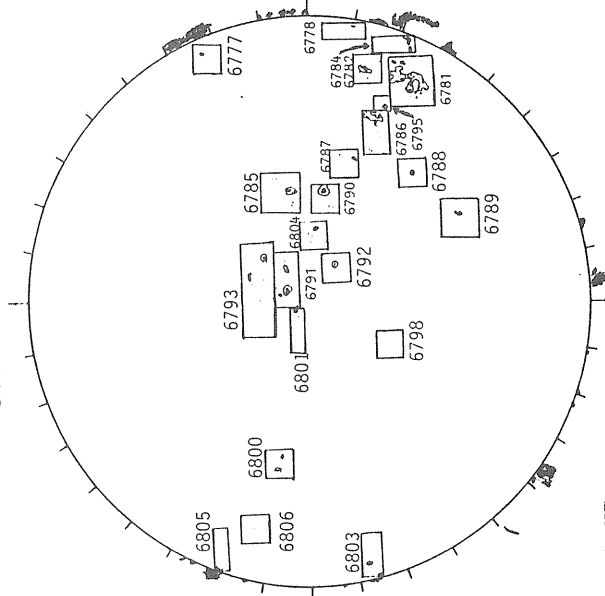
White = +7.5G  
Black = -7.5G

BOULDER H-ALPHA



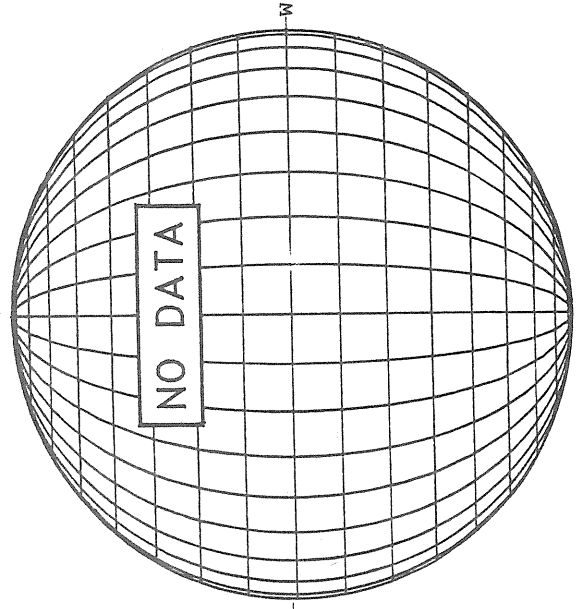
1420 UT

BOULDER SUNSPOT



1445 UT  
1420 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)



NO DATA

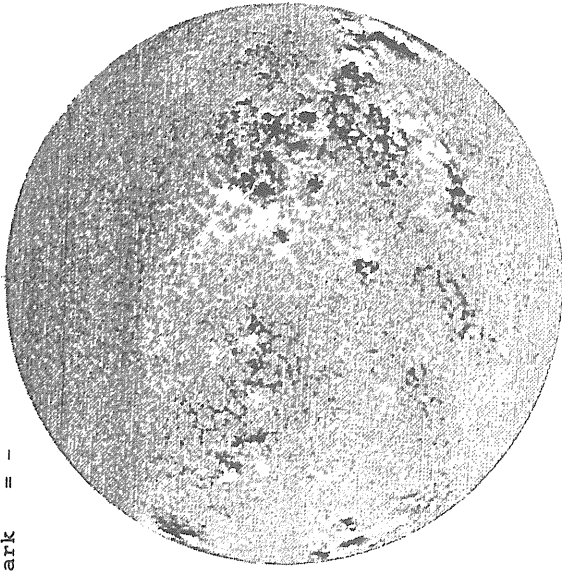
S

AUGUST 24, 1991 ( P= 18.73 B<sub>O</sub> = 6.98, L<sub>O</sub> = 329.48 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -

N



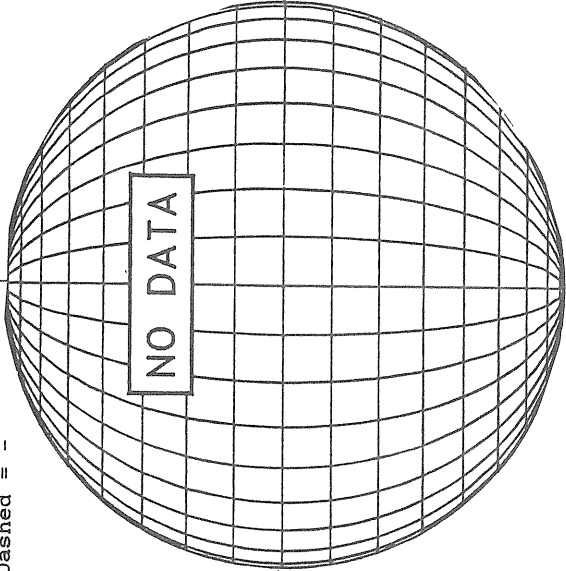
E-

1437 UT

STANFORD MAGNETOGRAM

Solid = +  
Dashed = -

N

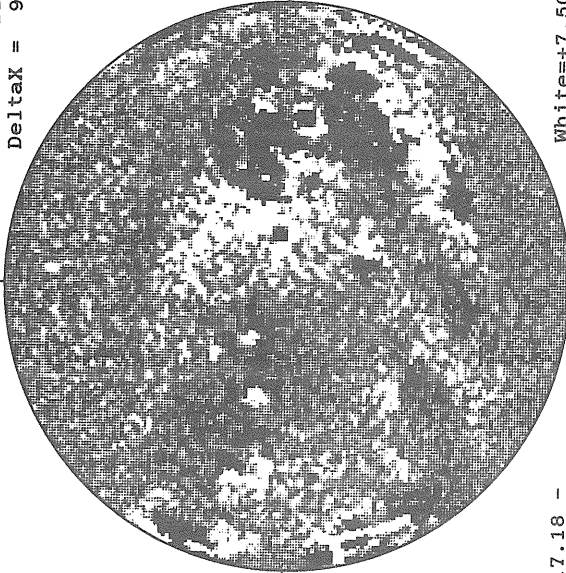


NO DATA

MT. WILSON MAGNETOGRAM

Delta<sub>Y</sub> = 12.9  
Delta<sub>X</sub> = 9.6

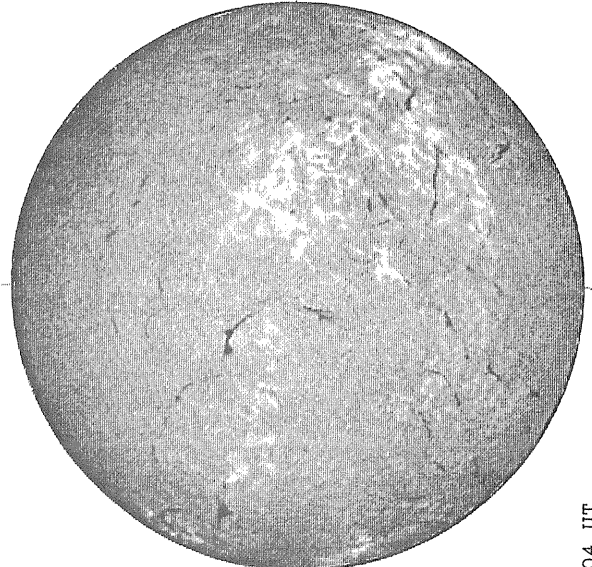
N



17.18 -  
18.12 UT

White=+7.5G  
Black=-7.5G

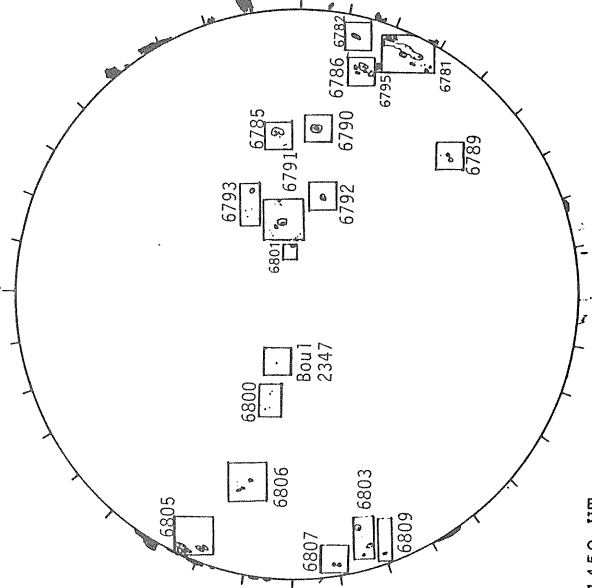
SACRAMENTO PEAK H-ALPHA



E-

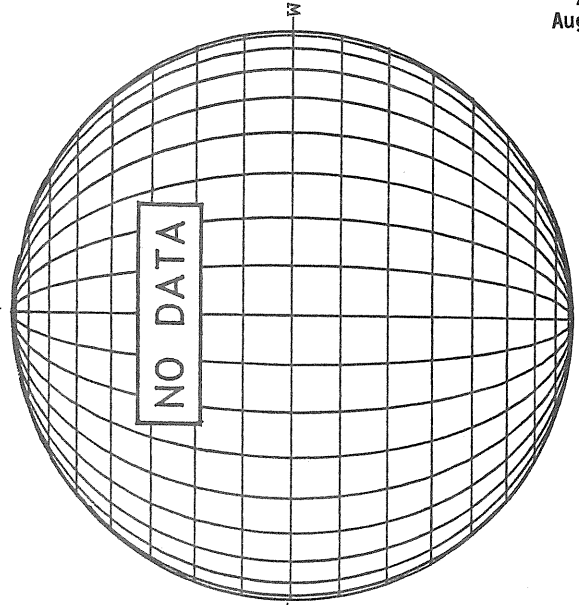
1504 UT

BOULDER SUNSPOT



1450 UT  
1422 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)



NO DATA

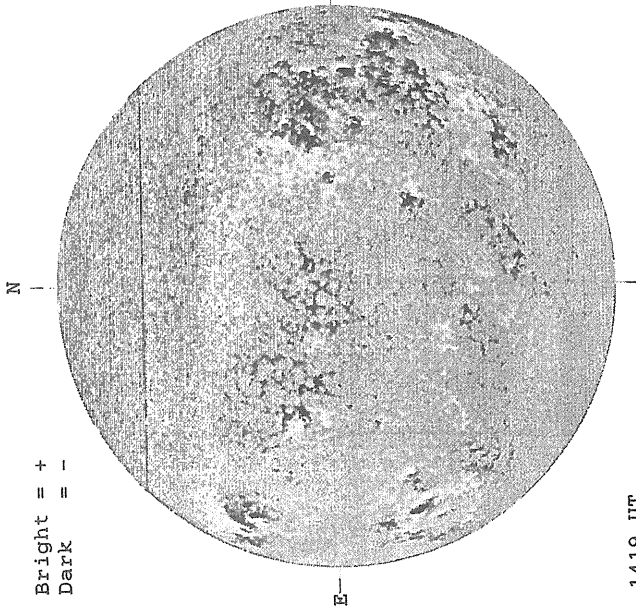
S

78  
Aug 91

AUGUST 25, 1991 ( P = 19.02, B<sub>0</sub> = 7.01, L<sub>0</sub> = 316.27 )

KITT PEAK MAGNETOGRAM

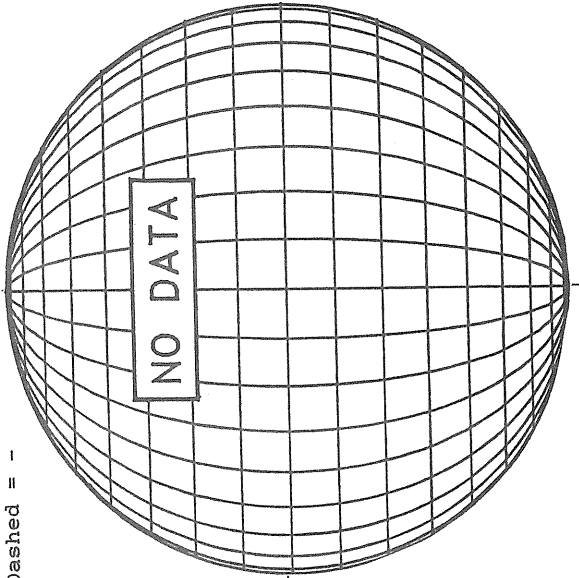
Bright = +  
Dark = -



1419 UT

STANFORD MAGNETOGRAM

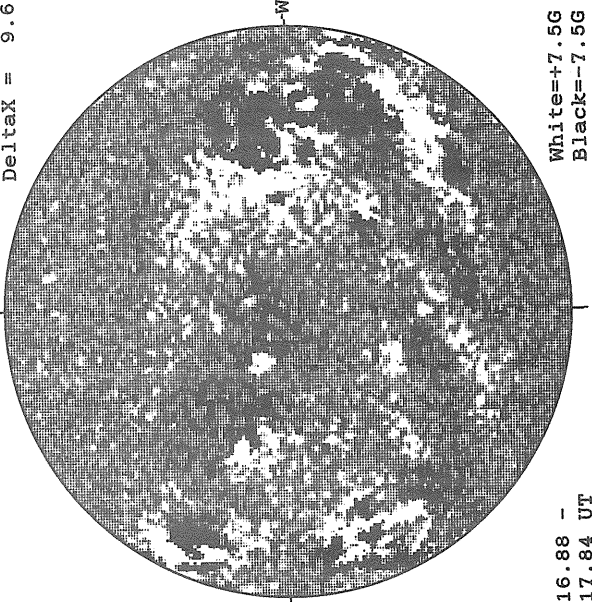
Solid = +  
Dashed = -



16.88 -  
17.84 UT

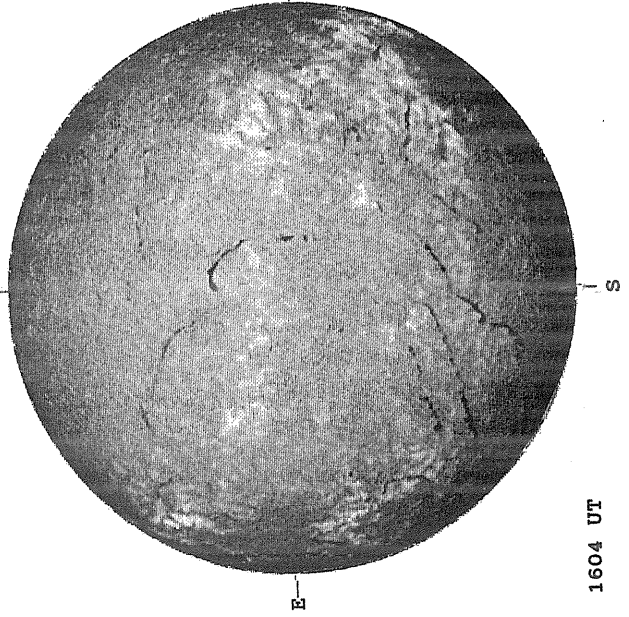
MT. WILSON MAGNETOGRAM

Delta<sub>Y</sub> = 12.9  
Delta<sub>X</sub> = 9.6



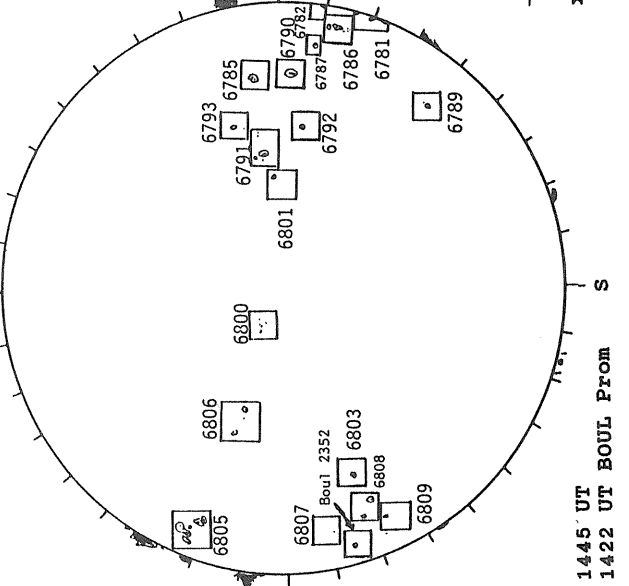
White = +7.5G  
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



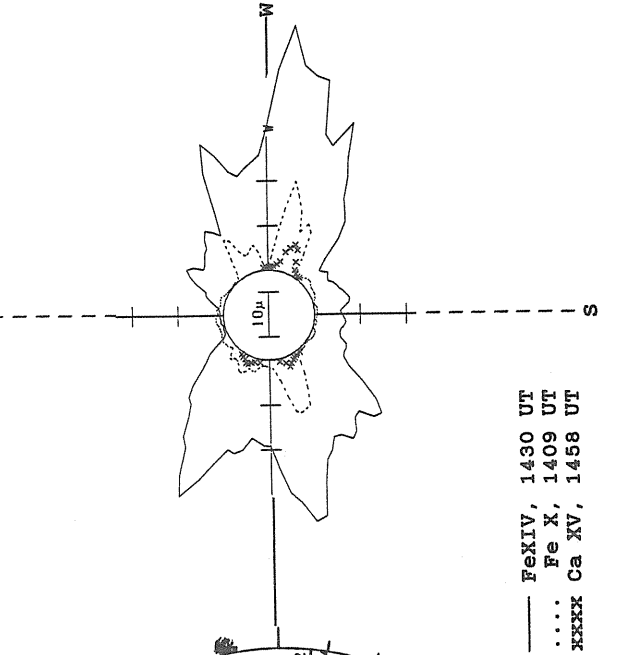
1604 UT

BOULDER SUNSPOT



1445 UT BOUL FROM  
1422 UT BOUL FROM

SACRAMENTO PEAK CORONA (1.15 Radii)



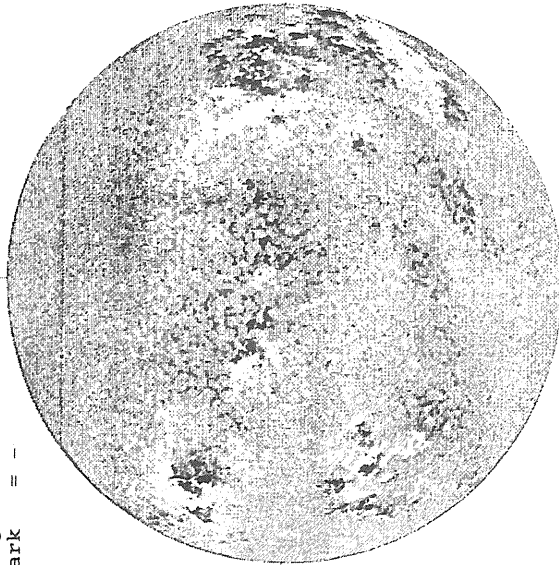
— Fe XIV, 1430 UT  
.... Fe X, 1409 UT  
- - - - Ca XIV, 1458 UT

AUGUST 26, 1991 ( P = 19.31, B<sub>0</sub> = 7.04, L<sub>0</sub> = 303.05 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -

N

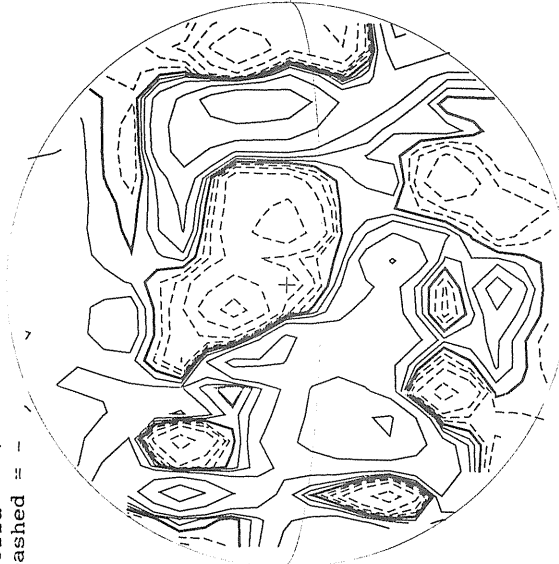


1425 UT

STANFORD MAGNETOGRAM

Solid = +  
Dashed = -

N

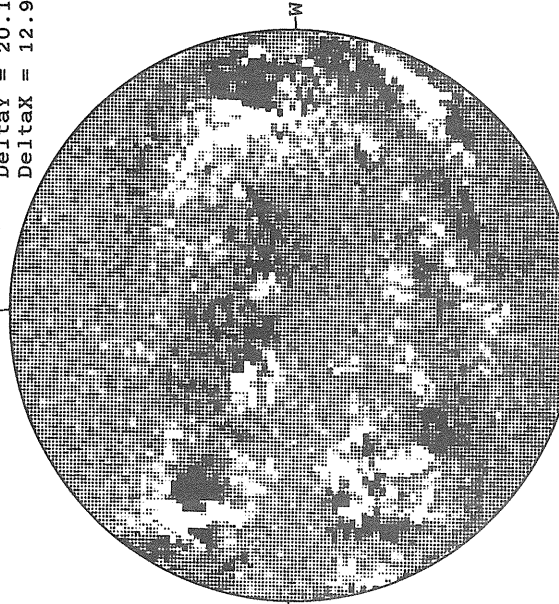


2306 UT

MT. WILSON MAGNETOGRAM

DeltaY = 20.1  
DeltaX = 12.9

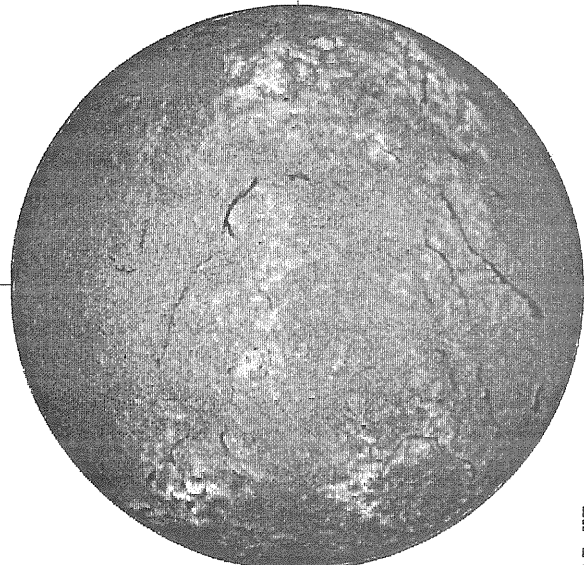
N



23.88 -  
24.29 UT

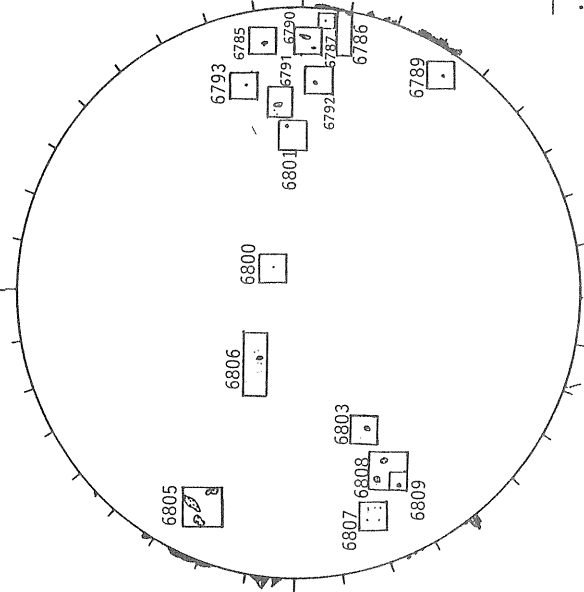
White = +7.5G  
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



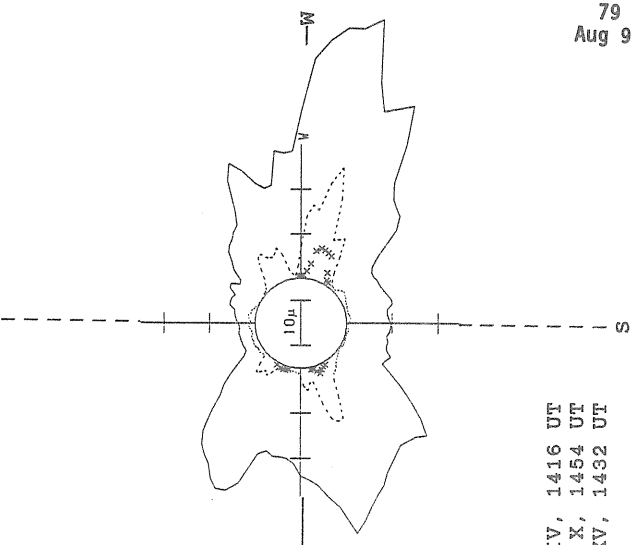
1517 UT

BOULDER SUNSPOT



1350 UT  
1403 UT BOUL PROM

SACRAMENTO PEAK CORONA (1.15 Radii)



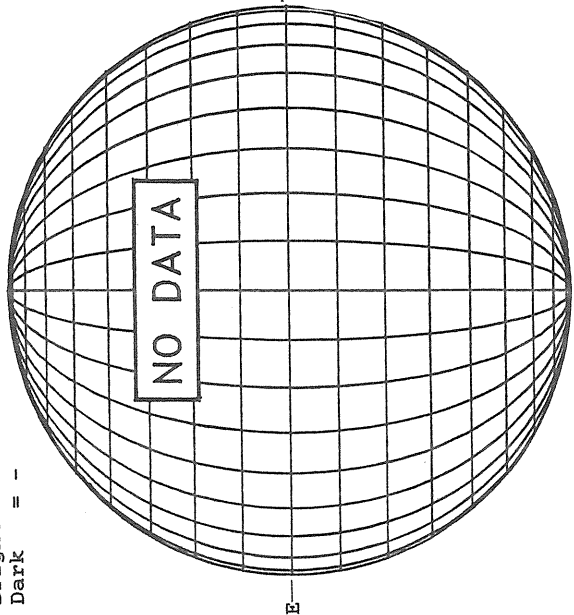
— FeXIV, 1416 UT  
... Fe X, 1454 UT  
xxxx Ca XV, 1432 UT



AUGUST 27, 1991 ( P= 19.60, B<sub>0</sub> = 7.06, I<sub>0</sub> = 289.84 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



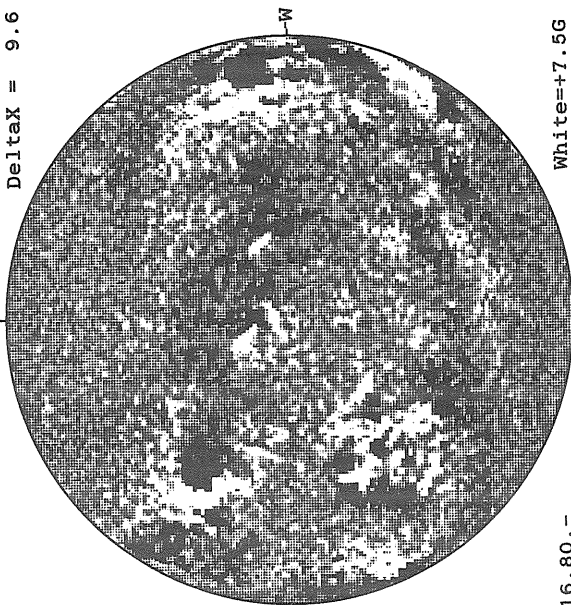
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



MT. WILSON MAGNETOGRAM

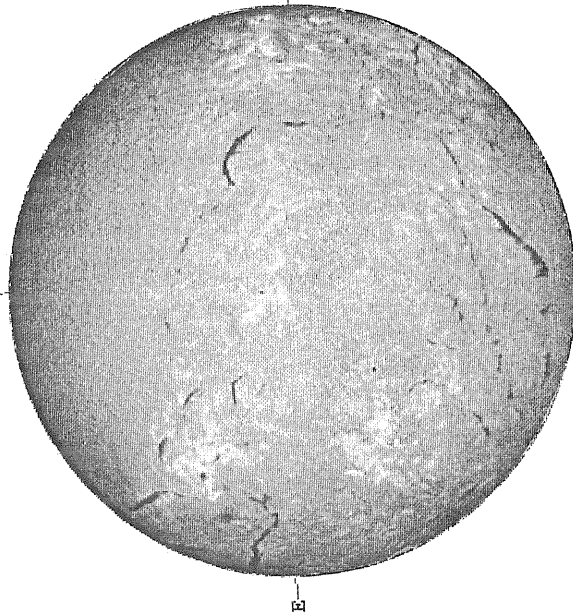
DeltaY = 13.0  
DeltaX = 9.6



16.80.-  
17.73 UT

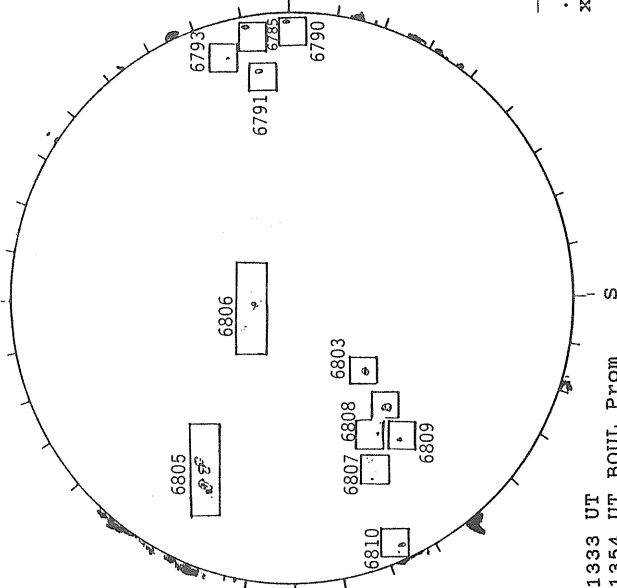
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



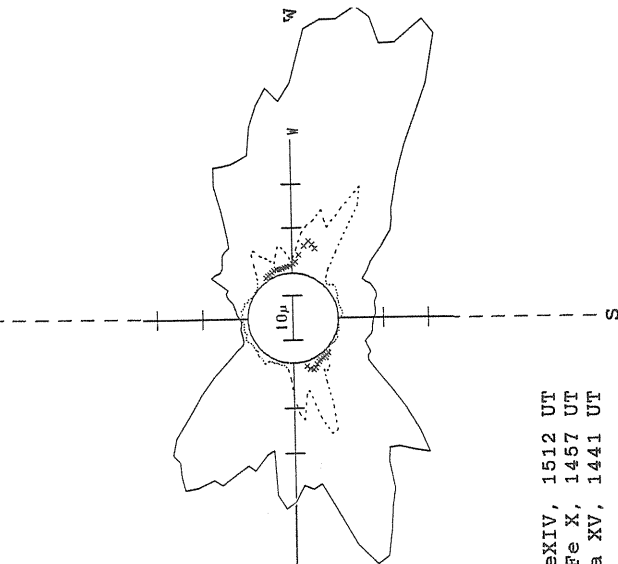
1503 UT

BOULDER SUNSPOT



1333 UT  
1354 UT BOUL FROM

SACRAMENTO PEAK CORONA (1.15 Radii)



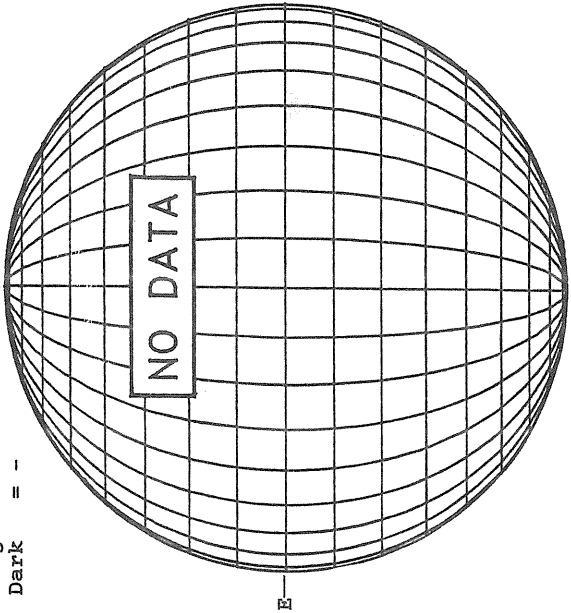
— FeXIV, 1512 UT  
.... Fe X, 1457 UT  
XXXX Ca XV, 1441 UT

10μ

AUGUST 28, 1991 ( P= 19.88 B<sub>O</sub> = 7.09, L<sub>O</sub> = 276.63 )

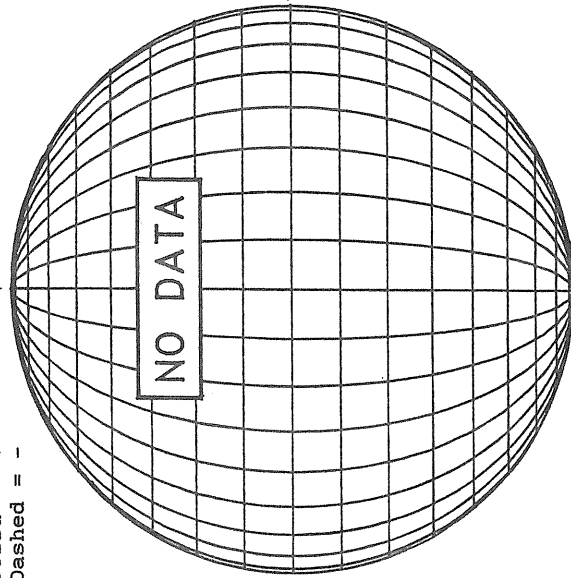
KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



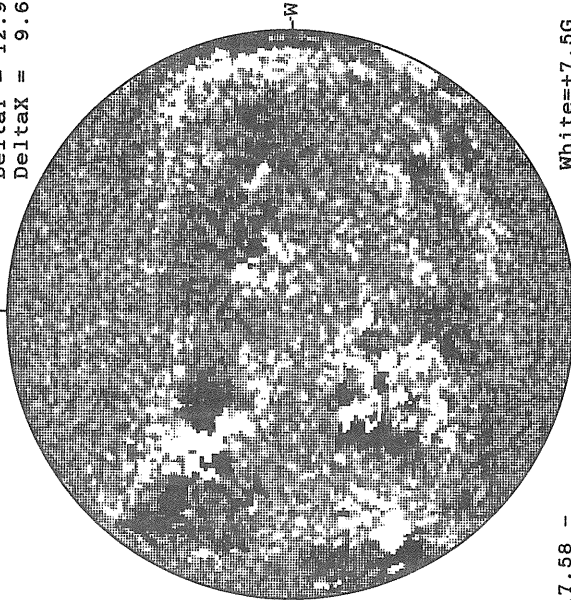
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



MT. WILSON MAGNETOGRAM

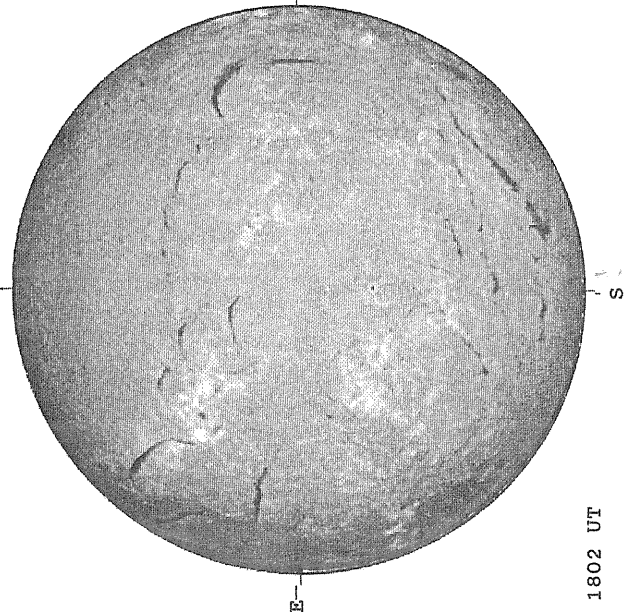
DeltaY = 12.9  
DeltaX = 9.6



17.58 -  
18.51 UT

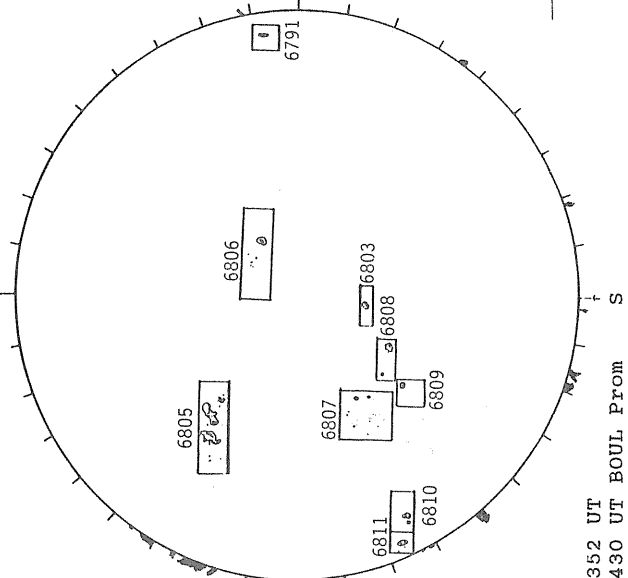
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



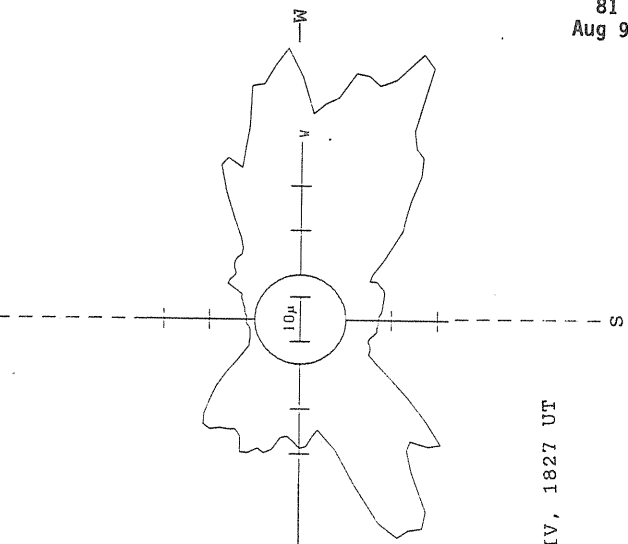
1802 UT

BOULDER SUNSPOT



1352 UT  
1430 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)

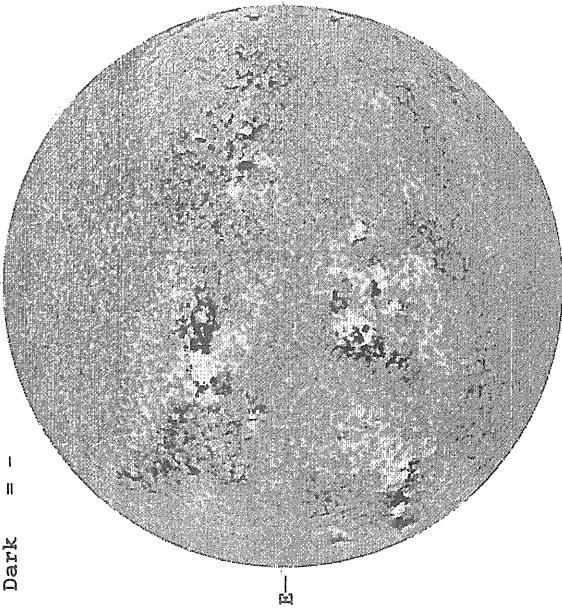


— FeXIV, 1827 UT

AUGUST 29, 1991 ( P= 20.16, B<sub>0</sub> = 7.11, L<sub>0</sub> = 263.42 )

KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



1601 UT

STANFORD MAGNETOGRAM

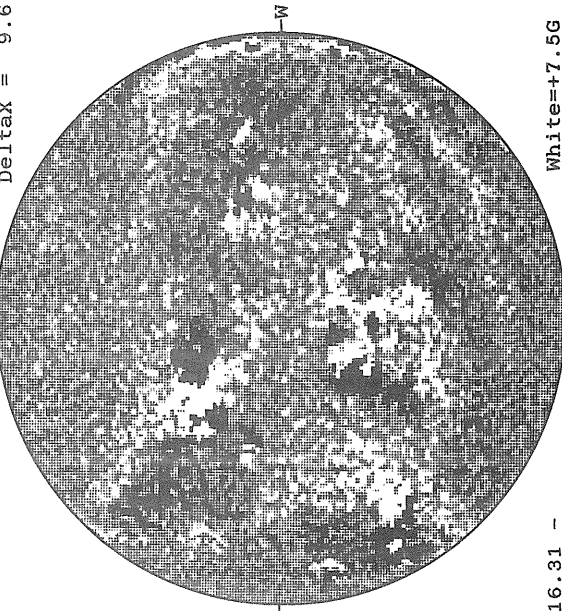
Solid = +  
Dashed = -



1738 UT

MT. WILSON MAGNETOGRAM

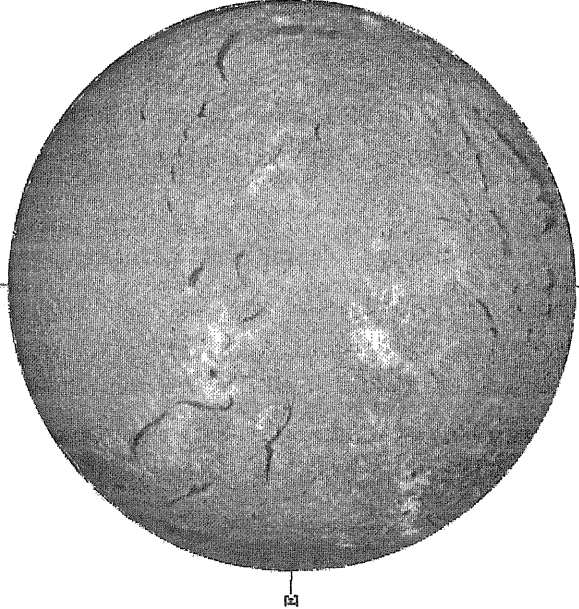
Delta<sub>Y</sub> = 13.0  
Delta<sub>X</sub> = 9.6



16.31 -  
17.25 UT

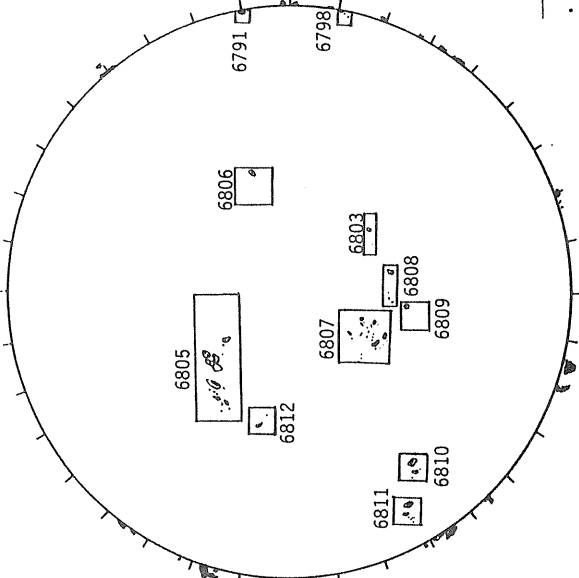
White=+7.5G  
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



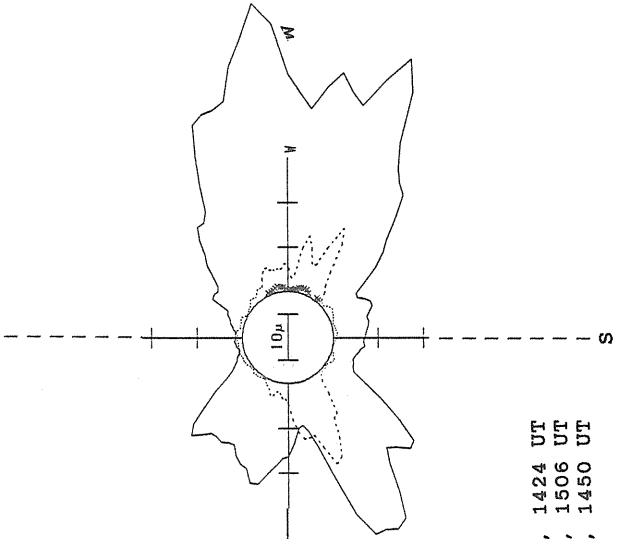
1554 UT

BOULDER SUNSPOT



1425 UT  
1440 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)

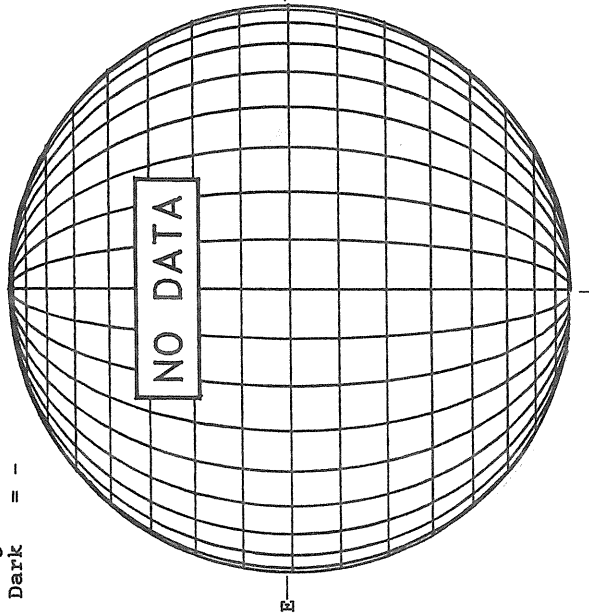


— FeXIV, 1424 UT  
... Fe X, 1506 UT  
xxxx Ca XV, 1450 UT

AUGUST 30, 1991 ( P= 20.43, B<sub>0</sub> = 7.13, L<sub>0</sub> = 250.21 )

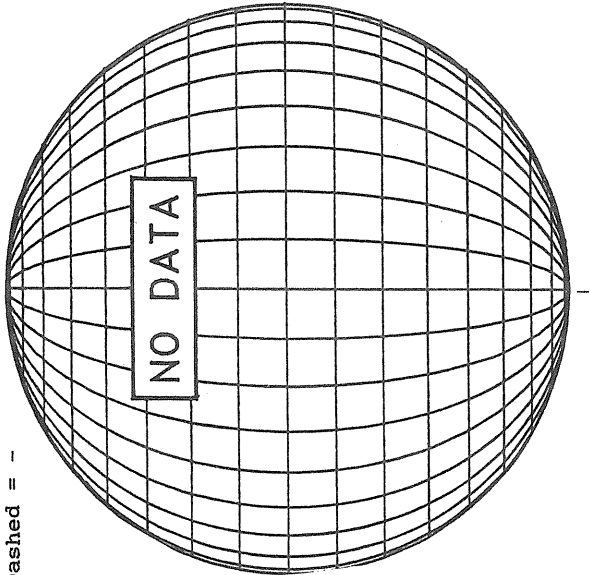
KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



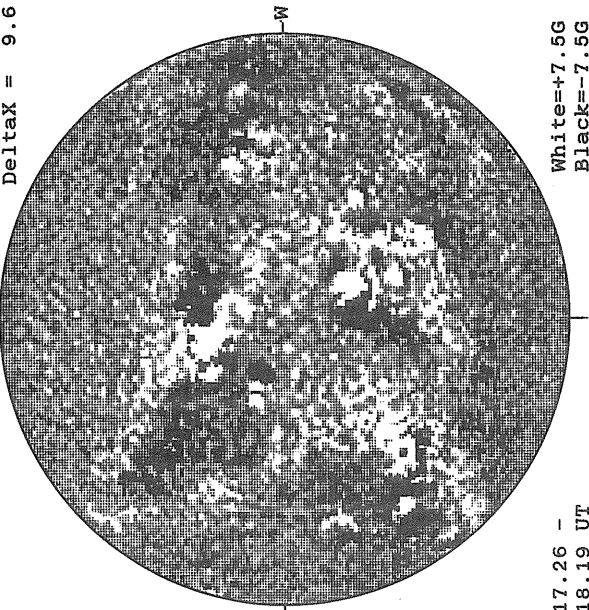
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



MT. WILSON MAGNETOGRAM

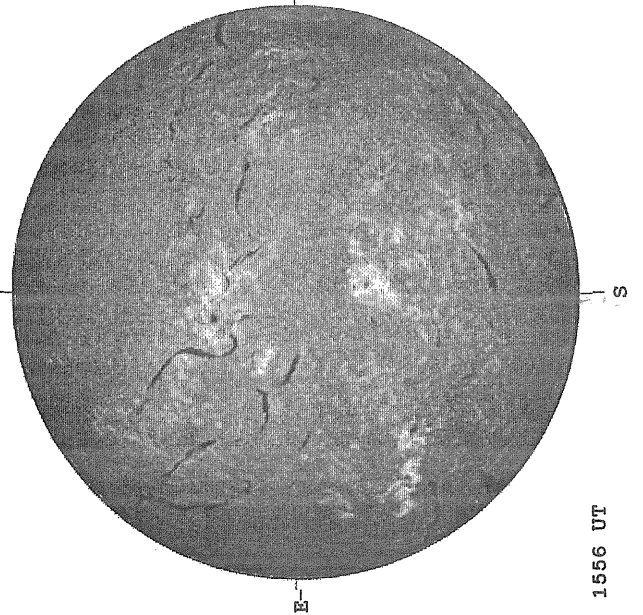
DeltaY = 12.9  
DeltaX = 9.6



White=+7.5G  
Black=-7.5G

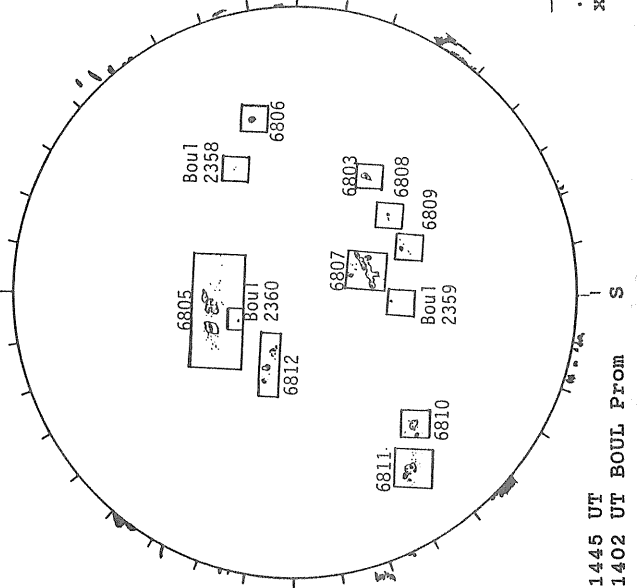
17.26 -  
18.19 UT

SACRAMENTO PEAK H-ALPHA



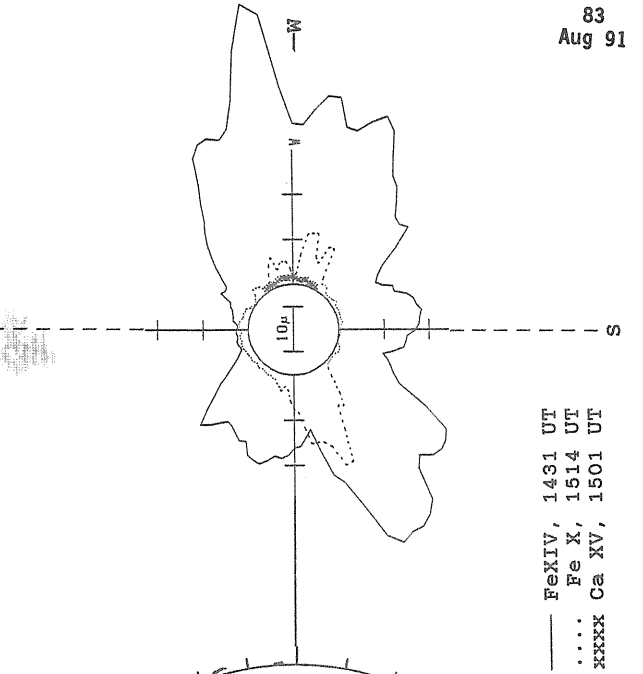
1556 UT

BOULDER SUNSPOT



1445 UT  
1402 UT BOUL FROM

SACRAMENTO PEAK CORONA (1.15 Radii)

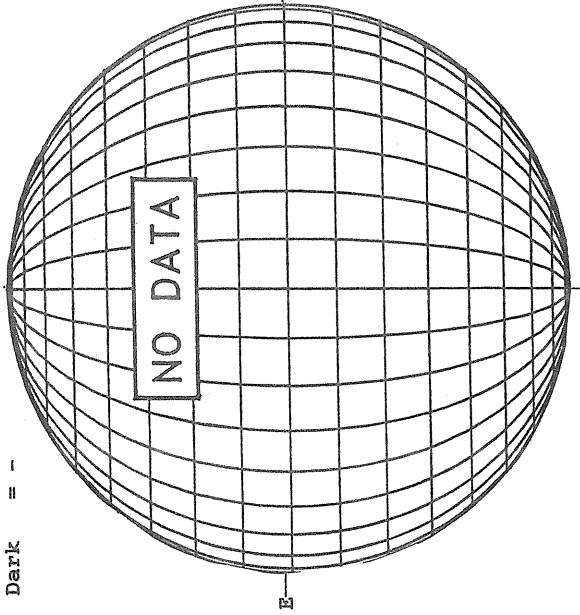


— Fe XIV, 1431 UT  
... Fe X, 1514 UT  
xxxxx Ca XV, 1501 UT

AUGUST 31, 1991 ( P = 20.69, B<sub>0</sub> = 7.15 L<sub>0</sub> = 237.00 )

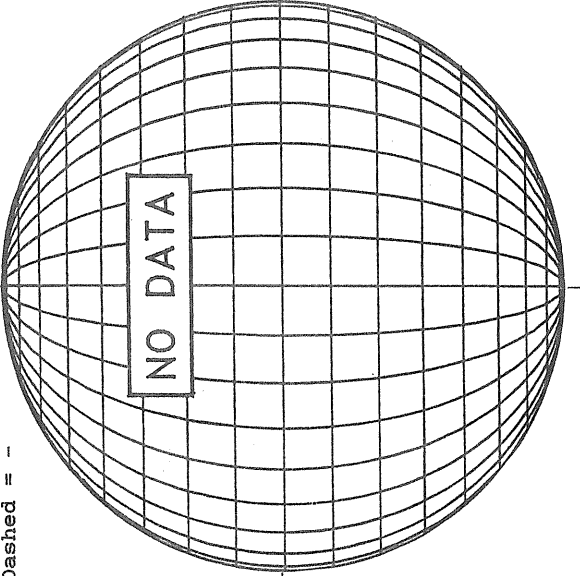
KITT PEAK MAGNETOGRAM

Bright = +  
Dark = -



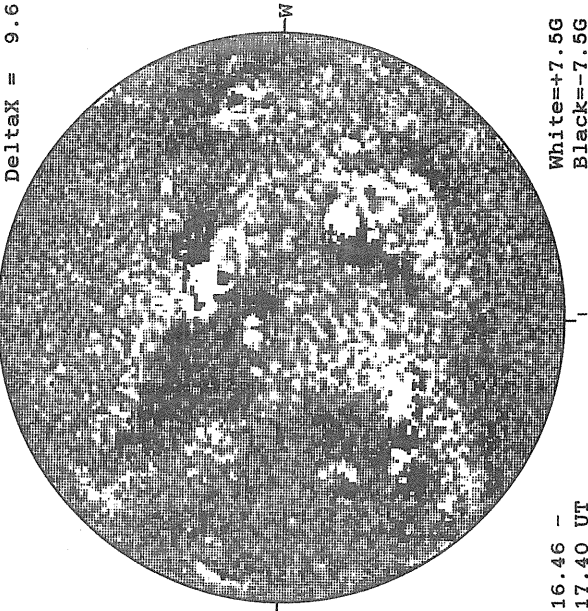
STANFORD MAGNETOGRAM

Solid = +  
Dashed = -



MT. WILSON MAGNETOGRAM

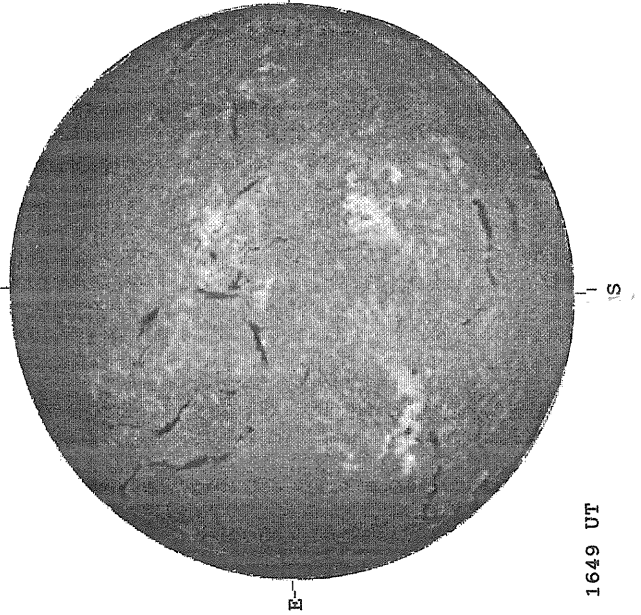
DeltaY = 12.9  
DeltaX = 9.6



16.46 -  
17.40 UT

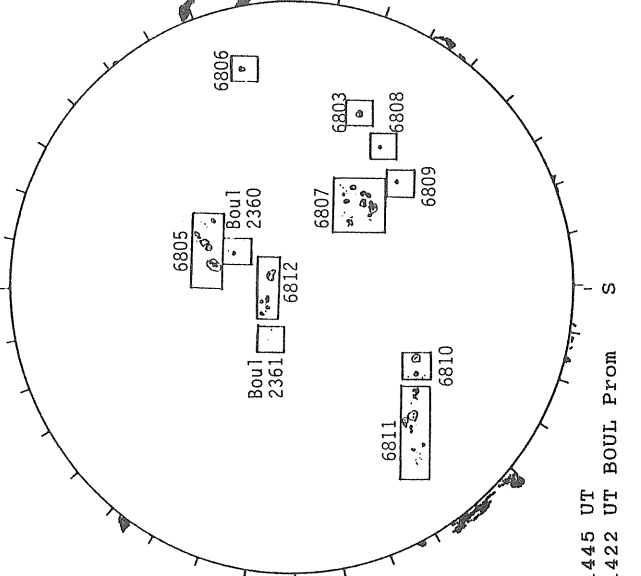
White = +7.5G  
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



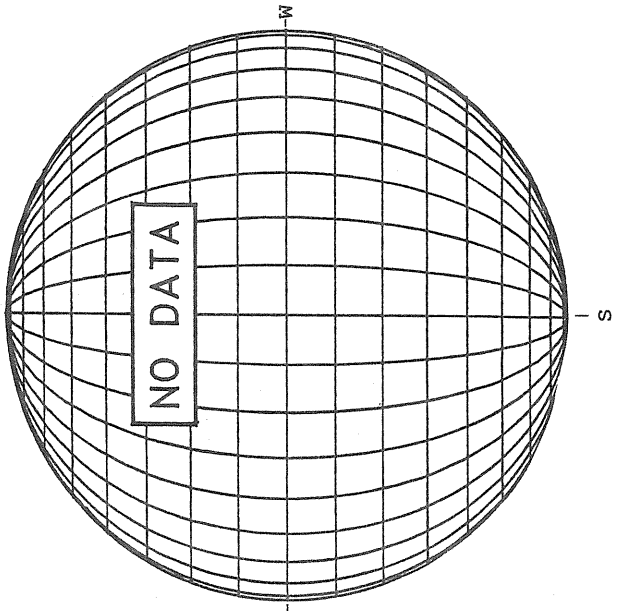
1649 UT

BOULDER SUNSPOT



1445 UT  
1422 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)



S U N S P O T G R O U P S  
(Ordered by Central Meridian Passage Date)

85  
Aug 91

AUGUST 1991

NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6750		HOLL	07 25 1605	N12 E80	07 31.7		A	AX	20	1		3
6750		PALE	07 25 1730	N13 E80	07 31.8		A	AX	10	1	1	4
6750	26957	SVTO	07 26 0930	N12 E72	07 31.8		B	BXO	30	2	6	3
6750		MWIL	07 26 1445	N13 E70	07 31.9	4	(B)					
6750		BOUL	07 26 1513	N13 E70	07 31.9		B	BXO	20	2	6	2
6750		HOLL	07 26 2015	N12 E66	07 31.8		B	BXO	10	2	6	3
6750		PALE	07 26 2210	N13 E67	08 1.0		B	BXO	30	3	7	3
6750		LEAR	07 27 0108	N13 E64	07 31.9		B	BXO	20	2	6	3
6750		CULG	07 27 0120	N13 E65	07 31.9		B	BXO	10	2	8	2
6750		SVTO	07 27 1050	N14 E58	07 31.8		B	CRO	20	3	8	2
6750		RAMY	07 27 1224	N12 E58	07 31.9		B	CRO	40	6	8	3
6750	26957	BOUL	07 27 1420	N13 E55	07 31.7		B	BXO	10	3	9	3
6750		MWIL	07 27 1445	N12 E57	07 31.9	5	(B)					
6750		HOLL	07 27 1600	N12 E56	07 31.9		B	BXO	20	5	8	4
6750		CULG	07 28 0040	N13 E52	07 31.9		B	BXO	10	2	9	2
6750		LEAR	07 28 0046	N12 E51	07 31.9		B	BXO	20	6	9	3
6750		SVTO	07 28 0730	N11 E42	07 31.5		B	CRO	10	2	2	2
6750	26957	RAMY	07 28 1223	N13 E46	08 1.0		B	CAO	20	5	11	3
6750		MWIL	07 28 1430	N13 E45	08 1.0	4	(B)					
6750		BOUL	07 28 1430	N14 E37	07 31.4		A	AX		1		3
6750		HOLL	07 28 1650	N13 E48	08 1.3		A	AX	20	2	1	3
6750		PALE	07 29 0001	N12 E36	07 31.7		A	AX	10	1	1	3
6750	26957	RAMY	07 29 1248	N13 E26	07 31.5		B	CRO	20	4	3	3
6750		MWIL	07 29 1530	N13 E27	07 31.7	4	(BP)					
6750		CULG	07 30 0050	N13 E21	07 31.6		B	BXO		2	2	3
6750		CULG	07 30 0050	N15 E27	08 1.1		B	CSO	40	6	4	3
6750		LEAR	07 30 0719	N12 E23	08 1.0		B	CAO	50	6	4	2
6750		SVTO	07 30 1055	N12 E23	08 1.2		B	CAO	30	11	4	2
6750		RAMY	07 30 1215	N12 E17	07 31.8		B	EAO	50	14	11	3
6750		BOUL	07 30 1452	N14 E18	08 1.0		B	DSO	40	2	4	1
6750	26957	HOLL	07 30 1550	N13 E15	07 31.8		B	BXO	20	15	11	3
6750		MWIL	07 30 1830	N14 E16	08 1.0	5	(B)					
6750		LEAR	07 31 0030	N12 E14	08 1.1		B	DAO	60	5	7	3
6750		CULG	07 31 0247	N14 E12	08 1.0		B	BXO	10	9	6	3
6750		SVTO	07 31 0735	N14 E10	08 1.1		B	CRO	20	6	6	4
6750		BOUL	07 31 1442	N14 E05	08 1.0		B	CSO	20	4	5	2
6750		HOLL	07 31 1550	N14 E05	08 1.0		B	BXO	20	4	5	3
6750	26957	RAMY	07 31 1714	N14 E04	08 1.0		B	DRO	30	5	6	3
6750		MWIL	07 31 1845	N14 E03	08 1.0	5	B					
6750		PALE	07 31 2040	N13 E03	08 1.1		B	BXO		4	6	3
6750		LEAR	08 01 0217	N16 E03	08 1.3		A	HS	20	1	1	1
6750		SVTO	08 01 0635	N14 W04	08 1.0		B	BXO	10	4	7	3
6750		RAMY	08 01 1230	N13 W06	08 1.1		B	BXO	10	4	6	3
6750		HOLL	08 01 1505	N12 W10	07 31.9		A	AX		1		2
6750	26957	MWIL	08 01 1515	N14 W07	08 1.1	4	(B)					
6750	26967	MWIL	08 01 1515	N17 W03	08 1.4	3	(AF)					
6750		PALE	08 01 2015	N13 W12	07 31.9		A	AX	10	2	2	3
6750A		PALE	07 29 0001	N12 E46	08 1.5		A	AX	10	1	1	3
6762		SVTO	08 02 0815	N14 W02	08 2.2		B	BXO	10	4	3	2
6762	26969	RAMY	08 02 1231	N14 W04	08 2.2		B	BXO	10	4	2	3
6762		MWIL	08 02 1500	N14 W06	08 2.2	4	(AF)					
6762		PALE	08 02 1910	N14 W07	08 2.3		B	BXO	10	4	4	3
6762		CULG	08 03 0030	N14 W11	08 2.2		B	BXO	10	2	2	2
6762		LEAR	08 03 0529	N14 W14	08 2.2		B	BXO	10	2	3	2
6762		SVTO	08 03 0735	N15 W16	08 2.1		B	BXO	10	3	4	3
6762	26969	RAMY	08 03 1218	N14 W18	08 2.1		B	CRO	20	4	3	3
6762		MWIL	08 03 1500	N14 W19	08 2.2	5	(B)					
6762		PALE	08 03 2145	N14 W23	08 2.2		A	AX	20	2	2	3
6762		CULG	08 04 0050	N14 W24	08 2.2		B	BXO	10	2	2	3
6762		LEAR	08 04 0315	N15 W27	08 2.1		A	AX	10	1	1	2
6762	26969	SVTO	08 04 0705	N15 W30	08 2.0		A	AX		2		3
6762		MWIL	08 04 1430	N15 W34	08 2.0	3	(B)					
6762		PALE	08 04 2200	N14 W36	08 2.2		A	AX	10	2	2	3
6762		LEAR	08 05 0024	N18 W38	08 2.1		A	AX		1	1	3
6762		CULG	08 05 0150	N13 W41	08 2.0		A	AX		1		2
6762A		PALE	08 01 2015	N15 E11	08 2.7		A	AX	10	3	1	3



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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6757		BOUL	08 04 1455	N22 W20	08 3.1		BGD	EKI	740	29	12	3
6757		PALE	08 04 2200	N22 W21	08 3.3		BGD	EKI	890	37	15	3
6757		LEAR	08 05 0024	N24 W22	08 3.3		BD	EKI	880	36	14	3
6757		HOLL	08 05 0030	N22 W25	08 3.1		BGD	FKI	940	22	16	1
6757		CULG	08 05 0150	N22 W26	08 3.1		BGD	EKO	920	38	14	2
6757		SVTO	08 05 0642	N22 W29	08 3.0		BGD	FKI	1320	29	16	4
6757		RAMY	08 05 1200	N22 W31	08 3.1		B	EKO	1100	50	13	4
6757		BOUL	08 05 1358	N22 W30	08 3.3		BGD	EKI	730	22	13	1
6757	26961	HOLL	08 05 1420	N22 W35	08 2.9		BGD	EKI	1180	46	15	4
6757	26961	MWIL	08 05 1515	N23 W32	08 3.2	6	(D)					
6757	26961	PALE	08 05 1800	N22 W35	08 3.1		B	EKI	1070	60	15	4
6757	26961	LEAR	08 06 0030	N27 W36	08 3.2		B	EKO	850	23	15	3
6757	26961	CULG	08 06 0050	N22 W38	08 3.1		BGD	EKO	1150	31	14	3
6757	26961	SVTO	08 06 0715	N22 W41	08 3.1		BGD	FKI	920	27	16	3
6757	26961	RAMY	08 06 1205	N22 W43	08 3.2		BG	EKO	90	29	13	3
6757	26961	HOLL	08 06 1431	N22 W46	08 3.1		BD	FKI	880	28	16	3
6757	26961	MWIL	08 06 1500	N23 W45	08 3.1	6	(D)					
6757	26961	PALE	08 06 1850	N22 W48	08 3.1		B	EKO	950	42	14	4
6757	26961	LEAR	08 07 0014	N22 W50	08 3.2		BG	EKO	690	17	14	3
6757	26961	CULG	08 07 0050	N21 W53	08 3.0		BGD	EKO	810	23	14	3
6757	26961	SVTO	08 07 0730	N23 W55	08 3.1		BG	EKO	920	17	14	3
6757	26961	RAMY	08 07 1207	N22 W58	08 3.0		B	EKO	760	21	14	3
6757	26961	BOUL	08 07 1425	N23 W57	08 3.2		BG	EKO	700	11	15	2
6757	26961	MWIL	08 07 1500	N23 W58	08 3.1	6	(D)					
6757	26961	HOLL	08 07 1526	N22 W58	08 3.2		BG	EKI	810	24	15	4
6757	26961	PALE	08 07 1945	N22 W62	08 3.0		B	EKO	880	14	14	2
6757	26961	LEAR	08 08 0017	N22 W62	08 3.2		B	EKO	790	13	13	3
6757	26961	CULG	08 08 0100	N21 W64	08 3.1		BG	EAO	790	17	14	2
6757	26961	SVTO	08 08 0747	N23 W68	08 3.1		BG	FKO	810	17	16	3
6757	26961	RAMY	08 08 1341	N23 W72	08 3.0		B	EHO	840	14	15	4
6757	26961	BOUL	08 08 1400	N23 W70	08 3.2		B	EKO	620	9	15	2
6757	26961	MWIL	08 08 1430	N23 W72	08 3.0	5	(BG)					
6757	26961	HOLL	08 08 1720	N23 W72	08 3.2		BG	EKI	810	16	15	3
6757	26961	LEAR	08 09 0032	N22 W74	08 3.3		B	EKO	450	7	12	1
6757	26961	CULG	08 09 0100	N21 W78	08 3.1		BG	EAO	630	4	14	2
6757	26961	PALE	08 09 0200	N22 W76	08 3.2		B	EKO	730	11	13	2
6757	26961	SVTO	08 09 0633	N22 W81	08 3.0		BG	FKI	510	5	16	4
6757	26961	RAMY	08 09 1250	N24 W83	08 3.1		B	DKO	330	10	9	3
6757	26961	MWIL	08 09 1445	N22 W80	08 3.5	4	(AF)					
6757	26961	BOUL	08 09 1447	N23 W81	08 3.4		B	CAO	160	3	6	4
6757	26961	HOLL	08 09 1840	N23 W80	08 3.6		B	CKI	240	3	9	3
6757	26961	LEAR	08 10 0005	N23 W85	08 3.4		A	HH	150	2	5	4
6757	26961	CULG	08 10 0045	N21 W90	08 3.1		A	HA	300	2	6	3
6757	26961	SVTO	08 10 0556	N21 W90	08 3.3		A	HA	50	1	1	4
6758		PALE	07 29 0001	S18 E79	08 4.0		A	HS	30	1	1	3
6758		LEAR	07 29 0420	S17 E66	08 3.2		B	BXO	30	2	2	2
6758		RAMY	07 29 1248	S16 E64	08 3.4		B	CAO	60	5	7	3
6758	26963	BOUL	07 29 1338	S16 E60	08 3.1		B	CSO	50	2	3	1
6758	26963	MWIL	07 29 1530	S17 E62	08 3.3	5	(B)					
6758	26963	CULG	07 30 0050	S17 E59	08 3.5		B	DSO	90	4	5	3
6758	26963	LEAR	07 30 0719	S19 E50	08 3.1		B	DSO	140	9	8	2
6758	26963	RAMY	07 30 1215	S15 E51	08 3.4		B	DAO	150	11	8	3
6758	26963	BOUL	07 30 1452	S16 E48	08 3.3		B	DSO	120	5	7	1
6758	26963	HOLL	07 30 1550	S17 E49	08 3.4		B	DSO	140	13	9	3
6758	26963	MWIL	07 30 1830	S17 E48	08 3.4	5	(B)					
6758	26963	LEAR	07 31 0030	S20 E41	08 3.1		B	DAO	210	7	8	3
6758	26963	CULG	07 31 0247	S17 E44	08 3.4		B	DAO	100	7	8	3
6758	26963	SVTO	07 31 0735	S16 E40	08 3.3		B	DSO	150	11	8	4
6758	26963	BOUL	07 31 1442	S16 E36	08 3.3		B	DSO	160	8	9	2
6758	26963	HOLL	07 31 1550	S17 E37	08 3.5		B	DAO	230	17	9	3
6758	26963	RAMY	07 31 1714	S17 E35	08 3.4		B	DAO	190	15	8	3
6758	26963	MWIL	07 31 1845	S17 E35	08 3.4	5	(B)					
6758	26963	PALE	07 31 2040	S18 E39	08 3.8		B	DAO	150	8	8	3
6758	26963	LEAR	08 01 0217	S16 E30	08 3.4		B	DAO	170	7	10	1
6758	26963	SVTO	08 01 0635	S16 E27	08 3.3		B	DAO	130	10	8	3
6758	26963	RAMY	08 01 1230	S17 E24	08 3.3		B	DAO	190	20	8	3
6758	26963	BOUL	08 01 1430	S16 E23	08 3.3		B	DAO	160	13	9	3
6758	26963	HOLL	08 01 1505	S17 E23	08 3.4		B	DSO	130	17	9	2



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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6758	26963	MWIL	08 01 1515	S17 E24	08 3.4	5	(B )					
6758		PALE	08 01 2015	S18 E23	08 3.6		B	DSO	130	15	8	3
6758		CULG	08 02 0008	S16 E19	08 3.4		B	DAO	120	13	9	2
6758		LEAR	08 02 0355	S17 E16	08 3.4		B	DAO	130	11	8	1
6758		SVTO	08 02 0815	S17 E14	08 3.4		B	DSO	170	10	9	2
6758		RAMY	08 02 1231	S17 E11	08 3.3		B	DSO	290	23	10	3
6758		BOUL	08 02 1435	S16 E10	08 3.4		B	DSI	190	13	9	3
6758	26963	MWIL	08 02 1500	S16 E10	08 3.4	5	(B )					
6758		PALE	08 02 1910	S16 E07	08 3.3		B	DAO	200	28	9	3
6758		CULG	08 03 0030	S16 E05	08 3.4		B	DSO	190	19	9	2
6758		LEAR	08 03 0529	S17 E02	08 3.4		B	DAO	180	23	9	2
6758		SVTO	08 03 0735	S16 E00	08 3.3		B	DSO	140	18	9	3
6758		RAMY	08 03 1218	S17 W02	08 3.4		B	EA0	150	34	11	3
6758	26963	MWIL	08 03 1500	S16 W03	08 3.4	5	(B )					
6758		PALE	08 03 2145	S18 W04	08 3.6		B	DSO	90	18	9	3
6758		CULG	08 04 0050	S17 W08	08 3.4		B	DSO	160	19	10	3
6758		LEAR	08 04 0315	S16 W10	08 3.4		B	DSO	130	17	10	2
6758		SVTO	08 04 0705	S16 W13	08 3.3		B	DSO	130	15	10	3
6758		RAMY	08 04 1241	S17 W15	08 3.4		B	DAO	100	28	9	2
6758	26963	MWIL	08 04 1430	S17 W16	08 3.4	5	(B )					
6758		BOUL	08 04 1455	S16 W17	08 3.3		B	DAO	140	13	9	3
6758		PALE	08 04 2200	S16 W18	08 3.5		B	DSO	110	15	9	3
6758		LEAR	08 05 0024	S14 W23	08 3.3		B	DAO	70	17	10	3
6758		HOLL	08 05 0030	S18 W25	08 3.1		B	CSO	120	12	10	1
6758		CULG	08 05 0150	S18 W23	08 3.3		B	CRO	70	12	11	2
6758		SVTO	08 05 0642	S17 W25	08 3.4		B	CSO	70	10	10	4
6758		RAMY	08 05 1200	S18 W29	08 3.3		B	CAO	100	14	10	4
6758		BOUL	08 05 1358	S16 W29	08 3.4		B	DSO	100	3	9	1
6758		HOLL	08 05 1420	S18 W31	08 3.2		B	CSO	110	13	10	4
6758	26963	MWIL	08 05 1515	S16 W31	08 3.3	5	(BP)					
6758		PALE	08 05 1800	S18 W33	08 3.2		B	CAO	80	11	11	4
6758		LEAR	08 06 0030	S13 W37	08 3.2		B	CSO	50	3	10	3
6758		CULG	08 06 0050	S17 W35	08 3.4		B	CSO	60	6	10	3
6758		SVTO	08 06 0715	S17 W43	08 3.0		B	CSO	60	2	4	3
6758		RAMY	08 06 1205	S18 W42	08 3.3		B	CAO	110	6	12	3
6758		HOLL	08 06 1431	S18 W44	08 3.2		B	CSO	100	6	13	3
6758	26963	MWIL	08 06 1500	S17 W46	08 3.1	6	(BP)					
6758		PALE	08 06 1850	S18 W46	08 3.3		B	CSO	90	8	13	4
6758		LEAR	08 07 0014	S18 W53	08 3.0		B	CAO	40	4	5	3
6758		CULG	08 07 0050	S20 W55	08 2.8		B	CSO	40	6	5	3
6758		SVTO	08 07 0730	S17 W55	08 3.1		B	CSO	90	10	9	3
6758		RAMY	08 07 1207	S17 W58	08 3.1		B	DSO	100	7	7	3
6758		BOUL	08 07 1425	S17 W61	08 3.0		BG	CSO	130	6	6	2
6758	26963	MWIL	08 07 1500	S17 W61	08 3.0	5	(BG)					
6758		HOLL	08 07 1526	S18 W61	08 3.0		B	CSO	110	7	5	4
6758		PALE	08 07 1945	S18 W65	08 2.9		B	DSO	160	5	7	2
6758		LEAR	08 08 0017	S17 W65	08 3.1		B	CSO	130	5	8	3
6758		CULG	08 08 0100	S19 W67	08 2.9		BG	CSO	100	6	6	2
6758		SVTO	08 08 0747	S18 W70	08 3.0		B	CSO	120	8	9	3
6758		RAMY	08 08 1341	S17 W75	08 2.9		B	CSO	60	7	8	4
6758		BOUL	08 08 1400	S20 W80	08 2.5		B	DAO	150	3	8	2
6758	26963	MWIL	08 08 1430	S17 W76	08 2.8	4	(AP)					
6758		HOLL	08 08 1720	S17 W77	08 2.9		B	CAO	70	7	7	3
6771		RAMY	08 06 1205	S06 W39	08 3.6		A	AX		1	1	3
6771		HOLL	08 06 1431	S05 W40	08 3.6		A	AX	10	2	2	3
6771	26978	MWIL	08 06 1500	S06 W40	08 3.6	4	(B )					
6771	26978	MWIL	08 07 1500	S06 W54	08 3.6	4	(AP)					
6771		RAMY	08 08 1341	S08 W67	08 3.5		A	AX		1		4
6771	26978	MWIL	08 08 1430	S08 W68	08 3.5	3	(AF)					
6764		RAMY	08 01 1230	S12 E34	08 4.1		A	AX		1		3
6764		HOLL	08 01 1505	S11 E33	08 4.1		A	AX		1		2
6764	26968	MWIL	08 01 1515	S12 E33	08 4.1	4	(AP)					
6764		PALE	08 01 2015	S12 E32	08 4.2		A	AX	10	2	2	3
6764		CULG	08 02 0008	S12 E29	08 4.2		A	AX	10	3	1	2
6764		SVTO	08 02 0815	S12 E23	08 4.1		B	BXO	10	4	1	2
6764		RAMY	08 02 1231	S12 E20	08 4.0		B	CRO	20	6	3	3
6764		BOUL	08 02 1435	S11 E18	08 4.0		B	CSO	20	3	1	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6764	26968	MWIL	08 02 1500	S12 E19	08 4.0	5	(BP)					
6764		PALE	08 02 1910	S12 E16	08 4.0		B	CSO	20	6	3	3
6764		CULG	08 03 0030	S12 E14	08 4.1		B	DSO	20	10	3	2
6764		LEAR	08 03 0529	S12 E10	08 4.0		B	DAO	60	10	4	2
6764		SVTO	08 03 0735	S12 E08	08 3.9		B	DAO	40	4	4	3
6764		RAMY	08 03 1218	S11 E07	08 4.0		B	DAO	70	4	4	3
6764	26968	MWIL	08 03 1500	S12 E05	08 4.0	5	(B )					
6764		PALE	08 03 2145	S12 E03	08 4.1		B	CSO	80	8	5	3
6764		CULG	08 04 0050	S12 E00	08 4.0		B	DSO	60	7	5	3
6764		LEAR	08 04 0315	S12 W02	08 4.0		B	CAO	30	4	5	2
6764		SVTO	08 04 0705	S12 W03	08 4.1		B	DSO	30	5	5	3
6764	26968	MWIL	08 04 1430	S12 W07	08 4.1	5	(BP)					
6764		BOUL	08 04 1455	S10 W08	08 4.0		B	CSO	30	3	4	3
6764		PALE	08 04 2200	S12 W10	08 4.2		B	CSO	30	5	5	3
6764		LEAR	08 05 0024	S10 W15	08 3.9		B	CAO	40	5	4	3
6764		HOLL	08 05 0030	S12 W12	08 4.1		B	CSO	50	3	6	1
6764		CULG	08 05 0150	S12 W13	08 4.1		B	CAO	20	5	5	2
6764		SVTO	08 05 0642	S10 W18	08 3.9		B	CSO	60	4	5	4
6764		RAMY	08 05 1200	S12 W19	08 4.1					0		4
6764		BOUL	08 05 1358	S09 W22	08 3.9		A	HS	30	1	1	1
6764		HOLL	08 05 1420	S11 W21	08 4.0		B	CAO	50	5	6	4
6764	26968	MWIL	08 05 1515	S12 W22	08 4.0	5	(B )					
6764		PALE	08 05 1800	S12 W23	08 4.0		B	CAO	40	5	5	4
6764		LEAR	08 06 0030	S07 W29	08 3.8		A	HA	30	2	3	3
6764		CULG	08 06 0050	S11 W27	08 4.0		A	HA	20	4	1	3
6764		SVTO	08 06 0715	S10 W32	08 3.9		A	HR	20	3	1	3
6764		RAMY	08 06 1205	S10 W32	08 4.1		B	CRO	20	6	5	3
6764		HOLL	08 06 1431	S10 W36	08 3.9		A	AX	10	3	2	3
6764	26968	MWIL	08 06 1500	S11 W37	08 3.8	5	(AP)					
6764		PALE	08 06 1850	S09 W41	08 3.7		B	BXO	10	7	7	4
6764		LEAR	08 07 0014	S11 W41	08 3.9		A	AX	10	2	2	3
6764		CULG	08 07 0050	S13 W42	08 3.9		A	AX		3	1	3
6764		SVTO	08 07 0730	S10 W45	08 3.9		A	HR	10	2	1	3
6764		RAMY	08 07 1207	S11 W48	08 3.9		A	AX		1		3
6764	26968	MWIL	08 07 1500	S11 W49	08 3.9	4	(AP)					
6764		HOLL	08 07 1526	S11 W50	08 3.9		A	AX	10	1	1	4
6764		HOLL	08 08 1720	S08 W68	08 3.6		A	AX		1		3
6758A		SVTO	07 30 1055	S08 E62	08 4.1		A	AX	10	1	1	2
6758A		RAMY	07 30 1215	S08 E66	08 4.4		A	AX	10	1	1	3
6758A		HOLL	07 30 1550	S08 E65	08 4.5		A	AX		1		3
6758A	26965	MWIL	07 30 1830	S07 E65	08 4.6	4	(AP)					
6759A	26971	MWIL	08 02 1500	N31 E25	08 4.6	4	(AP)					
6759A	26971	MWIL	08 03 1500	N29 E07	08 4.2	4	(AP)					
6764A		PALE	08 05 1800	N24 W17	08 4.4		B	BXO		4	7	4
6764B		HOLL	08 05 1420	S09 W09	08 4.9		A	AX		3	1	4
6764C		SVTO	08 05 0642	N12 W03	08 5.0		A	AX		1		4
6764D	26983	MWIL	08 07 1500	S16 W30	08 5.3	4	(AP)					
6764D		HOLL	08 07 1526	S17 W30	08 5.4		A	AX		1	1	4
6759		CULG	07 30 0050	N35 E85	08 5.8		A	HS	60	1	5	3
6759		LEAR	07 30 0719	N30 E78	08 5.4		A	HA	600	2	3	2
6759		SVTO	07 30 1055	N32 E72	08 5.1		A	HA	40	1	3	2
6759		RAMY	07 30 1215	N34 E75	08 5.5		A	HA	60	1	2	3
6759		BOUL	07 30 1452	N34 E72	08 5.3		A	HS	60	1	2	1
6759		HOLL	07 30 1550	N34 E75	08 5.6		A	HS	60	1	1	3
6759	26966	MWIL	07 30 1830	N33 E71	08 5.4	5	(AP)					
6759		LEAR	07 31 0030	N29 E68	08 5.3		A	HS	50	1	2	3
6759		CULG	07 31 0247	N34 E69	08 5.6		A	HS	20	1	2	3
6759		SVTO	07 31 0735	N33 E67	08 5.6		A	HS	50	1	1	4
6759		BOUL	07 31 1442	N34 E61	08 5.5		A	HS	40	1	1	2
6759		RAMY	07 31 1714	N33 E58	08 5.3		A	HS	70	1	2	3
6759	26966	MWIL	07 31 1845	N33 E58	08 5.4	5	AP					
6759		PALE	07 31 2040	N32 E61	08 5.7		A	HS	40	1	1	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6759		LEAR	08 01 0217	N33 E55	08 5.5		A	HS	20	1	1	1
6759		SVTO	08 01 0635	N34 E52	08 5.4		A	HS	70	1	2	3
6759		RAMY	08 01 1230	N33 E48	08 5.3		A	HS	60	1	2	3
6759		BOUL	08 01 1430	N33 E48	08 5.4		A	HS	30	1	1	3
6759		HOLL	08 01 1505	N33 E48	08 5.4		A	HS	20	1	1	2
6759	26966	MWIL	08 01 1515	N33 E48	08 5.4	5	(AP)					
6759		PALE	08 01 2015	N34 E48	08 5.7		A	HA	20	1	1	3
6759		CULG	08 02 0008	N35 E44	08 5.5		A	HS	20	1	2	2
6759		LEAR	08 02 0355	N33 E41	08 5.4		A	HS	30	1	2	1
6759		SVTO	08 02 0815	N34 E39	08 5.4		A	HS	20	1	1	2
6759		RAMY	08 02 1231	N34 E36	08 5.4		A	HS	30	1	2	3
6759		BOUL	08 02 1435	N34 E34	08 5.3		A	HS	20	1	1	3
6759	26966	MWIL	08 02 1500	N34 E35	08 5.4	5	(BF)					
6759		PALE	08 02 1910	N33 E32	08 5.3		B	CSO	30	6	4	3
6759		CULG	08 03 0030	N34 E30	08 5.4		A	HS	30	1	1	2
6759		LEAR	08 03 0529	N32 E28	08 5.4		A	HS	20	2	3	2
6759		SVTO	08 03 0735	N33 E26	08 5.4		A	HS	30	1	2	3
6759		RAMY	08 03 1218	N33 E26	08 5.6		B	CAO	30	4	6	3
6759	26966	MWIL	08 03 1500	N34 E24	08 5.5	5	(AP)					
6759		PALE	08 03 2145	N33 E22	08 5.6		A	HS	20	1	1	3
6759		CULG	08 04 0050	N34 E19	08 5.5		B	CSO	30	3	4	3
6759		LEAR	08 04 0315	N33 E17	08 5.5		B	BXO	10	2	4	2
6759		SVTO	08 04 0705	N33 E16	08 5.6		B	BXO	10	2	3	3
6759		RAMY	08 04 1241	N32 E13	08 5.5		B	BXO	10	4	5	2
6759	26966	MWIL	08 04 1430	N34 E14	08 5.7	3	(AP)					
6759		PALE	08 04 2200	N36 E13	08 6.0		B	BXO	20	6	3	3
6759		LEAR	08 05 0024	N32 E12	08 6.0		B	BXO		2	3	3
6759		CULG	08 05 0150	N36 E08	08 5.7		A	AX		1		2
6759		SVTO	08 05 0642	N35 E07	08 5.8		A	AX		1		4
6759		RAMY	08 05 1200	N32 E01	08 5.6		B	BXO	20	11	5	4
6759		HOLL	08 05 1420	N32 E00	08 5.6		B	BXO	20	14	6	4
6759	26966	MWIL	08 05 1515	N33 W00	08 5.6	4	(AP)					
6759		PALE	08 05 1800	N33 W02	08 5.6		B	BXO	10	9	3	4
6759		LEAR	08 06 0030	N32 W04	08 5.7		B	BXO		2	3	3
6759		CULG	08 06 0050	N33 W07	08 5.5		A	AX		2		3
6759		SVTO	08 06 0715	N34 W10	08 5.5		A	AX	10	1		3
6759		RAMY	08 06 1205	N33 W10	08 5.7		B	CRO	20	7	5	3
6759		HOLL	08 06 1431	N33 W12	08 5.6		B	BXO	10	2	3	3
6759	26966	MWIL	08 06 1500	N34 W13	08 5.6	4	(AP)					
6759		PALE	08 06 1850	N33 W17	08 5.4		A	AX		1		4
6759		LEAR	08 07 0014	N33 W18	08 5.6		A	AX	10	2	2	3
6759		SVTO	08 07 0730	N34 W24	08 5.4		A	AX		1		3
6759		PALE	08 09 0200	N36 W42	08 5.7		A	AX	10	1	1	2
6759B		SVTO	08 05 0642	S08 E08	08 5.9		A	AX		1		4
6759E	26979	MWIL	08 06 1500	S14 W10	08 5.9	4	(AP)					
6759E		PALE	08 06 1850	S15 W13	08 5.8		A	AX		2	1	4
6759D	26980	MWIL	08 06 1500	N07 W05	08 6.2	4	(AF)					
6759C		RAMY	08 11 1205	S20 W61	08 6.8		B	BXO	10	3	2	4
6759C	26987	MWIL	08 11 1445	S21 W65	08 6.6	3	X					
6765		SVTO	08 02 0815	S31 E71	08 7.9		A	HS	20	1	2	2
6765		RAMY	08 02 1231	S32 E69	08 8.0		B	CAO	70	7	3	3
6765		PALE	08 02 1910	S33 E70	08 8.3		B	CAO	80	5	9	3
6765		CULG	08 03 0030	S32 E63	08 8.0		B	CSO	60	4	6	2
6765		LEAR	08 03 0529	S31 E60	08 8.0		B	CAO	60	7	6	2
6765		SVTO	08 03 0735	S32 E56	08 7.7		B	DAO	80	6	7	3
6765		RAMY	08 03 1218	S32 E60	08 8.3		B	DAO	130	8	7	3
6765		PALE	08 03 2145	S37 E58	08 8.6		B	CAO	90	4	8	3
6765		CULG	08 04 0050	S33 E52	08 8.2		B	C O	90	5	8	3
6765		LEAR	08 04 0315	S32 E47	08 7.8		A	HS	50	1	2	2
6765		SVTO	08 04 0705	S32 E48	08 8.1		B	CSO	60	8	9	3
6765		BOUL	08 04 1455	S30 E39	08 7.7		A	HA	70	4	3	3
6765		PALE	08 04 2200	S32 E43	08 8.3		B	CAO	50	8	7	3
6765		LEAR	08 05 0024	S35 E33	08 7.6		B	CAO	80	8	4	3
6765		HOLL	08 05 0030	S32 E40	08 8.2		B	CSO	60	5	9	1

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6765		CULG	08 05 0150	S31 E36	08 7.9		A	HA	60	3	3	2
6765		SVTO	08 05 0642	S31 E32	08 7.8		B	CSO	70	6	8	4
6765		BOUL	08 05 1358	S31 E26	08 7.6		A	HS	70	2	2	1
6765		HOLL	08 05 1420	S32 E27	08 7.7		B	CSO	120	2	11	4
6765		PALE	08 05 1800	S31 E27	08 7.9		B	CAO	80	3	5	4
6765		LEAR	08 06 0030	S33 E16	08 7.3		A	HA	50	2	4	3
6765		CULG	08 06 0050	S32 E23	08 7.8		A	HA	40	5	2	3
6765		SVTO	08 06 0715	S32 E18	08 7.7		A	HS	30	5	3	3
6765		RAMY	08 06 1205	S31 E16	08 7.8		B	CAO	50	12	7	3
6765		HOLL	08 06 1431	S32 E12	08 7.5		A	HR	40	5	2	3
6765		PALE	08 06 1850	S32 E10	08 7.6		A	HA	20	2	2	4
6765		LEAR	08 07 0014	S32 E07	08 7.6		B	CSO	20	4	3	3
6765		CULG	08 07 0050	S31 E07	08 7.6		A	HA	10	3	1	3
6765		SVTO	08 07 0730	S32 E04	08 7.6		B	CAO	20	5	3	3
6765		RAMY	08 07 1207	S32 E00	08 7.5		B	CAO	20	2	3	3
6765		BOUL	08 07 1425	S31 W02	08 7.4		A	AX	10	2	1	2
6765		HOLL	08 07 1526	S32 W02	08 7.5		A	AX	30	4	2	4
6765		PALE	08 07 1945	S32 W04	08 7.5		A	HS	20	1	1	2
6765		LEAR	08 08 0017	S33 W07	08 7.4		A	HS	10	1	1	3
6765		CULG	08 08 0100	S32 W07	08 7.5		A	HA	20	2	1	2
6765		SVTO	08 08 0747	S32 W13	08 7.3		A	AX	10	2	1	3
6765		RAMY	08 08 1341	S32 W12	08 7.6		A	CRO	10	3	7	4
6765		BOUL	08 08 1400	S33 W12	08 7.6		A	AX	10	1	1	2
6765		HOLL	08 08 1720	S32 W14	08 7.6		B	CRO	20	3	7	3
6765		LEAR	08 09 0032	S33 W21	08 7.3		A	AX	10	1	1	1
6765		CULG	08 09 0100	S32 W20	08 7.4		A	HS	10	1	1	2
6765		PALE	08 09 0200	S33 W19	08 7.6		A	HS	10	1	1	2
6765		SVTO	08 09 0633	S33 W25	08 7.3		A	AX	10	1	1	4
6765		RAMY	08 09 1250	S32 W26	08 7.5		B	CAO	20	2	7	3
6765		BOUL	08 09 1447	S33 W29	08 7.3		A	HR	20	1	1	4
6765		HOLL	08 09 1840	S32 W32	08 7.2		A	AX	10	2	1	3
6765		PALE	08 09 1938	S35 W34	08 7.1		A	AX	1	1	1	2
6765		LEAR	08 10 0005	S32 W33	08 7.4		A	AX	10	1	1	4
6765		CULG	08 10 0045	S33 W34	08 7.3		A	AX	1	1	1	3
6765		SVTO	08 10 0556	S33 W38	08 7.2		A	AX	10	1	1	4
6765		RAMY	08 10 1225	S32 W41	08 7.3		A	HR	10	1	1	4
6765		BOUL	08 10 1445	S32 W42	08 7.3		A	AX	10	1	1	3
6765		PALE	08 10 2000	S34 W42	08 7.5		A	AX	10	1	1	2
6765		CULG	08 11 0115	S33 W50	08 7.1		A	AX	10	1	1	3
6775		RAMY	08 10 1225	S07 W37	08 7.7		B	BXO	10	4	3	4
6775	26985	MWIL	08 10 1430	S07 W38	08 7.7	3	X					
6775		PALE	08 10 2000	S07 W38	08 8.0		A	AX	10	7	2	2
6775		CULG	08 11 0115	S07 W44	08 7.7		B	BXO	10	4	3	3
6775		SVTO	08 11 0705	S08 W49	08 7.6		A	AX		3	2	3
6773	26972	MWIL	08 02 1500	S32 E69	08 8.1	4	(B )					
6773	26972	MWIL	08 03 1500	S32 E56	08 8.0	5	(B )					
6773	26972	MWIL	08 04 1430	S33 E45	08 8.2	4	(BP)					
6773	26972	MWIL	08 05 1515	S32 E26	08 7.7	5	(AP)					
6773	26972	MWIL	08 06 1500	S32 E12	08 7.6	5	(AP)					
6773	26972	MWIL	08 07 1500	S32 E02	08 7.8	5	(B )					
6773		CULG	08 08 0100	S32 E03	08 8.3		B	BXO	10	2	2	2
6773		SVTO	08 08 0747	S33 E01	08 8.4		A	AX	10	2	2	3
6773		RAMY	08 08 1341	S33 W03	08 8.3		A	AX	10	3	2	4
6773	26972	MWIL	08 08 1430	S32 W12	08 7.6	4	(B )					
6773		HOLL	08 08 1720	S33 W05	08 8.3		A	AX		1	1	3
6773		RAMY	08 09 1250	S33 W17	08 8.2		A	AX	10	1	1	3
6773	26972	MWIL	08 09 1445	S33 W29	08 7.3	4	(AP)					
6773	26972	MWIL	08 10 1430	S33 W42	08 7.3	4	(AP)					
6773A		RAMY	08 03 1218	S26 E66	08 8.6		A	AX	10	1	1	3
6766		LEAR	08 03 0529	N11 E77	08 9.0		A	HA	60	2	3	2
6766		SVTO	08 03 0735	N11 E76	08 9.0		A	HA	60	1	2	3
6766		RAMY	08 03 1218	N12 E75	08 9.2		A	HA	60	2	2	3
6766	26973	MWIL	08 03 1500	N12 E74	08 9.2	5	(AP)					
6766		PALE	08 03 2145	N10 E72	08 9.3		A	HA	40	2	1	3
6766		CULG	08 04 0050	N11 E70	08 9.3		A	HA	60	2	2	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long- Extent (Deg)	Qual
6766		LEAR	08 04 0315	N11 E67	08 9.2		A	HS	50	1	2	2
6766		SVTO	08 04 0705	N10 E65	08 9.2		A	HS	30	2	1	3
6766	26973	MWIL	08 04 1430	N11 E61	08 9.2	5	(AP)					
6766		BOUL	08 04 1455	N11 E59	08 9.1		A	HA	60	2	2	3
6766		PALE	08 04 2200	N12 E60	08 9.4		A	HA	30	1	1	3
6766		LEAR	08 05 0024	N11 E54	08 9.1		A	HA	70	3	3	3
6766		HOLL	08 05 0030	N11 E55	08 9.1		A	HS	40	2	1	1
6766		CULG	08 05 0150	N13 E55	08 9.2		A	HA	30	2	1	2
6766		SVTO	08 05 0642	N10 E51	08 9.1		A	HS	60	2	2	4
6766		BOUL	08 05 1358	N11 E46	08 9.0		A	HS	30	1	1	1
6766		HOLL	08 05 1420	N12 E48	08 9.2		B	CSO	30	2	5	4
6766	26973	MWIL	08 05 1515	N12 E48	08 9.2	5	(BP)					
6766		PALE	08 05 1800	N11 E46	08 9.2		B	CAO	40	4	3	4
6766		LEAR	08 06 0030	N08 E41	08 9.1		B	CSO	40	3	3	3
6766		CULG	08 06 0050	N13 E42	08 9.2		B	CAO	30	4	4	3
6766		SVTO	08 06 0715	N10 E38	08 9.1		A	HS	20	1	1	3
6766		RAMY	08 06 1205	N11 E36	08 9.2		A	HS	40	1	1	3
6766		HOLL	08 06 1431	N10 E34	08 9.1		A	HS	20	3	2	3
6766	26973	MWIL	08 06 1500	N12 E35	08 9.3	5	(BP)					
6766		PALE	08 06 1850	N10 E32	08 9.2		A	HS	40	3	1	4
6766		LEAR	08 07 0014	N11 E29	08 9.2		A	HS	20	1	2	3
6766		CULG	08 07 0050	N12 E28	08 9.1		A	HA	20	3	1	3
6766		SVTO	08 07 0730	N11 E25	08 9.2		A	HS	20	1	2	3
6766		RAMY	08 07 1207	N10 E22	08 9.1		B	CSO	20	2	3	3
6766		BOUL	08 07 1425	N11 E21	08 9.2		A	HS	20	1	1	2
6766	26973	MWIL	08 07 1500	N11 E22	08 9.3	5	(BP)					
6766		HOLL	08 07 1526	N09 E22	08 9.3		B	CRO	30	3	3	4
6766		PALE	08 07 1945	N10 E19	08 9.2		A	HS	20	1	1	2
6766		LEAR	08 08 0017	N09 E17	08 9.3		B	CSO	20	2	3	3
6766		CULG	08 08 0100	N11 E16	08 9.2		A	HS	20	1	1	2
6766		SVTO	08 08 0747	N10 E11	08 9.1		A	HS	20	1	1	3
6766		RAMY	08 08 1341	N09 E08	08 9.2		A	HA	10	5	1	4
6766		BOUL	08 08 1400	N09 E10	08 9.3		A	AX	10	1	1	2
6766	26973	MWIL	08 08 1430	N09 E09	08 9.3	4	(AP)					
6766		HOLL	08 08 1720	N09 E07	08 9.2		B	CAO	10	3	3	3
6766		LEAR	08 09 0032	N08 E03	08 9.2		A	HS	10	1	2	1
6766		CULG	08 09 0100	N10 E03	08 9.3		A	HS	10	1	1	2
6766		PALE	08 09 0200	N10 E04	08 9.4		A	HS	20	1	1	2
6766		SVTO	08 09 0633	N09 E00	08 9.3		A	HR	10	1	1	4
6766		RAMY	08 09 1250	N09 W03	08 9.3		A	HA	20	1	1	3
6766	26973	MWIL	08 09 1445	N09 W05	08 9.2	4	(AP)					
6766		BOUL	08 09 1447	N10 W05	08 9.2		A	HS	10	1		4
6766		HOLL	08 09 1840	N10 W08	08 9.2		A	HS	10	2	1	3
6766		PALE	08 09 1938	N09 W08	08 9.2		A	AX	10	2	1	2
6766		LEAR	08 10 0005	N09 W10	08 9.2		A	AX	10	1	1	4
6766		CULG	08 10 0045	N10 W11	08 9.2		A	HS	20	1	1	3
6766		SVTO	08 10 0556	N09 W14	08 9.2		A	AX	10	1	1	4
6766		RAMY	08 10 1225	N09 W18	08 9.2		A	HA	20	1	1	4
6766	26973	MWIL	08 10 1430	N09 W18	08 9.2	4	(AP)					
6766		BOUL	08 10 1445	N09 W18	08 9.3		A	AX		1		3
6766		PALE	08 10 2000	N10 W19	08 9.4		A	AX	10	1	1	2
6766		LEAR	08 11 0003	N09 W23	08 9.3		A	AX	10	1	1	3
6766		CULG	08 11 0115	N09 W24	08 9.2		A	AX	10	1		3
6766		SVTO	08 11 0705	N09 W27	08 9.3		A	AX		1		3
6766		RAMY	08 11 1205	N09 W31	08 9.2		A	HR	10	1	1	4
6766		BOUL	08 11 1440	N11 W31	08 9.3		A	AX		1		4
6766	26973	MWIL	08 11 1445	N09 W32	08 9.2	4	AP					
6766		HOLL	08 11 1750	N09 W33	08 9.3		A	AX	10	1		3
6766		PALE	08 11 1820	N09 W34	08 9.2		A	AX		1	1	3
6766		CULG	08 12 0140	N09 W39	08 9.1		A	AX		1		3
6767		SVTO	08 03 0735	S24 E75	08 9.1		A	HS	60	1	2	3
6767		RAMY	08 03 1218	S22 E77	08 9.4		A	HA	90	2	2	3
6767	26974	MWIL	08 03 1500	S24 E75	08 9.4	5	(AP)					
6767		PALE	08 03 2145	S25 E75	08 9.7		A	HA	180	3	1	3
6767		CULG	08 04 0050	S23 E69	08 9.3		A	HA	70	2	2	3
6767		LEAR	08 04 0315	S24 E67	08 9.3		A	HS	120	2	2	2
6767		SVTO	08 04 0705	S25 E66	08 9.4		A	HS	110	2	2	3
6767	26974	MWIL	08 04 1430	S25 E62	08 9.4	4	(AP)					

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6767		BOUL	08 04 1455	S24	E60	08 9.2		A	HA	90	2	2	3
6767		PALE	08 04 2200	S26	E60	08 9.6		A	HA	90	2	2	3
6767		LEAR	08 05 0024	S29	E52	08 9.1		A	HA	180	3	3	3
6767		HOLL	08 05 0030	S24	E56	08 9.3		A	HS	20	2	2	1
6767		CULG	08 05 0150	S24	E58	08 9.5		A	HA	170	2	2	2
6767		SVTO	08 05 0642	S23	E52	08 9.3		A	HS	120	2	2	4
6767		HOLL	08 05 1420	S25	E50	08 9.5		A	HS	180	2	2	4
6767	26974	MWIL	08 05 1515	S25	E48	08 9.3	5	(AP)					
6767		PALE	08 05 1800	S24	E48	08 9.4		A	HA	140	2	2	4
6767		LEAR	08 06 0030	S29	E40	08 9.1		A	HA	100	3	3	3
6767		CULG	08 06 0050	S24	E45	08 9.5		A	HA	130	2	2	3
6767		SVTO	08 06 0715	S24	E40	08 9.4		B	CSO	110	4	4	3
6767		RAMY	08 06 1205	S25	E39	08 9.5		B	CAO	160	4	5	3
6767		HOLL	08 06 1431	S25	E37	08 9.5		A	HS	140	2	2	3
6767	26974	MWIL	08 06 1500	S25	E36	08 9.4	5	(BP)					
6767		PALE	08 06 1850	S25	E36	08 9.6		B	CAO	140	7	5	4
6767		LEAR	08 07 0014	S24	E31	08 9.4		A	HA	100	2	2	3
6767		CULG	08 07 0050	S23	E32	08 9.5		A	HA	100	2	2	3
6767		SVTO	08 07 0730	S24	E28	08 9.5		B	CAO	130	6	6	3
6767		RAMY	08 07 1207	S25	E25	08 9.4		A	HA	80	2	2	3
6767		BOUL	08 07 1425	S23	E23	08 9.4		A	HA	70	2	2	2
6767	26974	MWIL	08 07 1500	S25	E23	08 9.4	5	(AP)					
6767		HOLL	08 07 1526	S24	E23	08 9.4		B	CAO	100	4	4	4
6767		PALE	08 07 1945	S24	E21	08 9.4		A	HA	120	3	2	2
6767		LEAR	08 08 0017	S25	E19	08 9.5		A	HA	70	2	2	3
6767		CULG	08 08 0100	S24	E19	08 9.5		B	CAO	90	3	4	2
6767		SVTO	08 08 0747	S25	E15	08 9.5		B	CAO	100	6	5	3
6767		RAMY	08 08 1341	S26	E13	08 9.6		B	CAO	100	3	5	4
6767	26974	MWIL	08 08 1430	S25	E13	08 9.6	5	(BP)					
6767		HOLL	08 08 1720	S25	E09	08 9.4		A	HA	100	3	2	3
6767		LEAR	08 09 0032	S26	E06	08 9.5		A	HS	70	2	3	1
6767		CULG	08 09 0100	S25	E07	08 9.6		A	HA	60	2	3	2
6767		PALE	08 09 0200	S25	E07	08 9.6		B	CSO	90	4	4	2
6767		SVTO	08 09 0633	S25	E02	08 9.4		A	HA	90	2	2	4
6767		RAMY	08 09 1250	S25	E02	08 9.7		B	CAO	100	8	8	3
6767	26974	MWIL	08 09 1445	S26	W00	08 9.6	5	(BP)					
6767		BOUL	08 09 1447	S24	W03	08 9.4		A	HA	90	2	2	4
6767		HOLL	08 09 1840	S25	W05	08 9.4		A	HS	110	2	2	3
6767		PALE	08 09 1938	S26	W05	08 9.4		A	HA	70	2	2	2
6767		LEAR	08 10 0005	S25	W07	08 9.5		A	HS	70	2	2	4
6767		CULG	08 10 0045	S25	W07	08 9.5		A	HA	80	2	2	3
6767		SVTO	08 10 0556	S25	W11	08 9.4		A	HA	90	2	2	4
6767		RAMY	08 10 1225	S24	W13	08 9.5		B	CAO	70	5	3	4
6767	26974	MWIL	08 10 1430	S25	W15	08 9.4	5	(AP)					
6767		BOUL	08 10 1445	S24	W14	08 9.5		A	HA	70	2	2	3
6767		PALE	08 10 2000	S25	W15	08 9.7		A	HA	50	1	2	2
6767		LEAR	08 11 0003	S25	W20	08 9.4		A	HS	50	2	2	3
6767		CULG	08 11 0115	S25	W21	08 9.4		A	HA	80	2	2	3
6767		SVTO	08 11 0705	S25	W23	08 9.5		A	HS	50	2	2	3
6767		RAMY	08 11 1205	S25	W25	08 9.6		A	HA	100	3	2	4
6767		BOUL	08 11 1440	S24	W27	08 9.5		A	HA	70	2	2	4
6767	26974	MWIL	08 11 1445	S26	W28	08 9.4	5	AP					
6767		HOLL	08 11 1750	S24	W29	08 9.5		A	HS	100	2	2	3
6767		PALE	08 11 1820	S25	W29	08 9.5		A	HA	80	1	2	3
6767		CULG	08 12 0140	S25	W34	08 9.4		B	CSO	50	3	2	3
6767		SVTO	08 12 0710	S23	W37	08 9.4		B	CAO	70	4	3	3
6767		RAMY	08 12 1212	S23	W37	08 9.6		B	CAO	60	4	3	3
6767		HOLL	08 12 1630	S25	W42	08 9.4		A	HS	120	2	2	3
6767		PALE	08 12 1800	S26	W43	08 9.4		A	HA	60	2	2	3
6767		LEAR	08 13 0025	S24	W45	08 9.5		A	HR	30	1	1	3
6767		SVTO	08 13 0715	S24	W50	08 9.4		A	HA	70	1	2	3
6767		RAMY	08 13 1323	S25	W54	08 9.4		A	HA	20	1	2	3
6767		HOLL	08 13 1520	S25	W55	08 9.4		A	HS	80	1	2	3
6767	26974	MWIL	08 13 1630	S24	W54	08 9.5	5	(AP)					
6767		PALE	08 13 1810	S26	W57	08 9.3		A	HS	40	1	2	3
6767		LEAR	08 14 0023	S23	W58	08 9.5		A	HA	40	1	2	3
6767		SVTO	08 14 0701	S25	W64	08 9.3		A	HS	100	1	2	3
6767		RAMY	08 14 1425	S23	W64	08 9.7		A	AX	30	1	1	2
6767		BOUL	08 14 1512	S24	W67	08 9.4		A	HS	60	1	1	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6767		HOLL	08	14	1930	S22	W68	08	9.6		A	HS	60	1	1	2
6767	26974	MWIL	08	14	2015	S24	W68	08	9.6	4	(AP)					
6767		PALE	08	14	2230	S23	W70	08	9.5		A	AX	40	1	1	2
6767		CULG	08	15	0050	S24	W70	08	9.6		A	HS	20	1	1	3
6767		LEAR	08	15	0135	S23	W69	08	9.7		A	AX	30	1	1	2
6767		SVTO	08	15	0835	S25	W78	08	9.3		A	HS	20	1	2	2
6767		RAMY	08	15	1224	S24	W82	08	9.2		A	AX	10	1	1	3
6767A		LEAR	08	05	0024	N11	E62	08	9.7		B	BXO		2	3	3
6767B		SVTO	08	04	0705	N16	E74	08	9.9		A	AX		1		3
6767B		CULG	08	05	0150	N19	E64	08	10.0		A	AX		1		2
6767B		SVTO	08	05	0642	N17	E59	08	9.8		A	AX		1		4
6767B		HOLL	08	05	1420	N17	E55	08	9.8		A	AX	10	2	1	4
6767B	26976	MWIL	08	05	1515	N17	E56	08	9.9	4	(AP)					
6767C		RAMY	08	12	1212	N03	W28	08	10.4		B	BXO	10	6	4	3
6767C		PALE	08	12	1800	N01	W32	08	10.3		A	AX	10	2	2	3
6769		PALE	08	05	1800	N17	E64	08	10.6		A	AX		1		4
6767E	26990	MWIL	08	13	1630	S27	W35	08	11.0	5	(AF)					
6767D		HOLL	08	12	1630	S21	W21	08	11.1		B	BXO	20	2	3	3
6767D		PALE	08	12	1800	S22	W22	08	11.0		B	BXO	10	4	4	3
6767D		LEAR	08	13	0025	S21	W29	08	10.8		A	AX	10	1	1	3
6767D		RAMY	08	13	1323	S22	W36	08	10.8		BGD	A		1		3
6767D	26989	MWIL	08	13	1630	S21	W36	08	10.9	4	(AP)					
6767D		PALE	08	13	1810	S22	W38	08	10.8		A	AX		2	1	3
6767D		CULG	08	14	0050	S18	W39	08	11.1		A	AX		1		2
6768		SVTO	08	05	0642	S14	E82	08	11.5		A	AX	20	2	1	4
6768		BOUL	08	05	1358	S13	E80	08	11.6		B	BXO	20	3	3	1
6768		HOLL	08	05	1420	S13	E78	08	11.5		B	DSO	70	7	5	4
6768	26977	MWIL	08	05	1515	S13	E78	08	11.5	4	(B)					
6768		PALE	08	05	1800	S13	E78	08	11.6		B	BXO	40	7	4	4
6768		LEAR	08	06	0030	S14	E68	08	11.1		B	DAO	80	6	3	3
6768		CULG	08	06	0050	S13	E72	08	11.5		B	BXO		4	3	3
6768		SVTO	08	06	0715	S14	E69	08	11.5		B	CRO	30	4	5	3
6768		RAMY	08	06	1205	S13	E66	08	11.5		B	DAO	70	6	6	3
6768		HOLL	08	06	1431	S14	E65	08	11.5		B	CRI	50	7	6	3
6768	26977	MWIL	08	06	1500	S14	E64	08	11.5	5	(B)					
6768		PALE	08	06	1850	S13	E64	08	11.6		B	CAO	60	10	6	4
6768		LEAR	08	07	0014	S14	E59	08	11.5		B	BXO	40	6	5	3
6768		CULG	08	07	0050	S12	E60	08	11.5		B	BXO	10	6	5	3
6768		SVTO	08	07	0730	S14	E55	08	11.5		B	DSO	60	13	7	3
6768		RAMY	08	07	1207	S14	E52	08	11.4		BG	DSO	40	6	6	3
6768		BOUL	08	07	1425	S13	E48	08	11.2		B	BXO	20	4	4	2
6768	26977	MWIL	08	07	1500	S14	E51	08	11.5	4	(BP)					
6768		HOLL	08	07	1526	S13	E50	08	11.4		B	BXO	60	5	4	4
6768		PALE	08	07	1945	S13	E48	08	11.4		B	CRO	30	4	4	2
6768		LEAR	08	08	0017	S14	E46	08	11.5		B	BXO	30	4	4	3
6768		CULG	08	08	0100	S12	E45	08	11.4		B	CSO	20	3	5	2
6768		SVTO	08	08	0747	S13	E41	08	11.4		B	DRO	30	5	6	3
6768		RAMY	08	08	1341	S13	E38	08	11.4		B	CRO	20	5	5	4
6768		BOUL	08	08	1400	S13	E42	08	11.7		B	BXO	30	4	2	2
6768	26977	MWIL	08	08	1430	S15	E38	08	11.5	4	(AP)					
6768		HOLL	08	08	1720	S13	E35	08	11.4		B	BXO	20	6	4	3
6768		LEAR	08	09	0032	S14	E29	08	11.2		B	BXO	10	3	4	1
6768		CULG	08	09	0100	S13	E33	08	11.5		B	CSO	30	3	3	2
6768		PALE	08	09	0200	S14	E33	08	11.6		A	AX	20	3	2	2
6768		SVTO	08	09	0633	S14	E27	08	11.3		B	BXO	10	3	4	4
6768		RAMY	08	09	1250	S13	E24	08	11.3		B	BXO	10	5	3	3
6768	26977	MWIL	08	09	1445	S15	E26	08	11.6	3	(AP)					
6768		BOUL	08	09	1447	S13	E22	08	11.3		A	AX	10	2	1	4
6768		HOLL	08	09	1840	S13	E21	08	11.4		B	BXO	10	6	3	3
6768		PALE	08	09	1938	S15	E21	08	11.4		A	AX		1	1	2
6768		LEAR	08	10	0005	S14	E18	08	11.4		A	AX	10	1	1	4
6768		SVTO	08	10	0556	S19	E18	08	11.6		A	AX		1		4

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6768		RAMY	08 10 1225	S16 E12	08 11.4		B	BXO	10	4	4	4
6768		BOUL	08 10 1445	S18 E13	08 11.6		A	AX		1		3
6768		PALE	08 10 2000	S18 E14	08 11.9		A	AX	10	1	1	2
6768		LEAR	08 11 0003	S14 E09	08 11.7		A	AX	10	1	1	3
6768		SVTO	08 11 0705	S16 E05	08 11.7		B	BXO	10	3	6	3
6768		RAMY	08 11 1205	S15 E01	08 11.6		B	CRO	20	7	7	4
6768		BOUL	08 11 1440	S13 W03	08 11.4		A	AX		1		4
6768		BOUL	08 11 1440	S17 E00	08 11.6		A	AX		1		4
6768		HOLL	08 11 1750	S18 W02	08 11.6		B	BXO	20	6	9	3
6768		PALE	08 11 1820	S14 W05	08 11.4		A	AX	10	1	1	3
6768		CULG	08 12 0140	S14 W10	08 11.3		A	AX		1		3
6768		SVTO	08 12 0710	S18 W14	08 11.2		B	BXO	10	6	7	3
6768		RAMY	08 12 1212	S16 W17	08 11.2		B	BXO	30	14	8	3
6768		HOLL	08 12 1630	S13 W15	08 11.5		B	BXO	20	8	3	3
6768		PALE	08 12 1800	S12 W16	08 11.5		B	BXO	10	9	4	3
6768		LEAR	08 13 0025	S11 W19	08 11.6		B	CRO	30	10	4	3
6768		SVTO	08 13 0715	S16 W26	08 11.3		B	ERO	60	18	12	3
6768		RAMY	08 13 1323	S12 W28	08 11.4		B	DAO	90	19	7	3
6768		HOLL	08 13 1520	S12 W29	08 11.4		B	CAO	60	14	6	3
6768	26991	MWIL	08 13 1630	S12 W28	08 11.6	5	(B )					
6768		PALE	08 13 1810	S12 W30	08 11.5		B	DAO	80	7	7	3
6768		LEAR	08 14 0023	S12 W33	08 11.5		B	DAO	70	12	8	3
6768		CULG	08 14 0050	S13 W34	08 11.5		B	DAO	80	14	7	2
6768		SVTO	08 14 0701	S12 W36	08 11.6		B	DAO	110	12	7	3
6768		RAMY	08 14 1425	S11 W42	08 11.4		B	DAO	80	5	7	2
6768		BOUL	08 14 1512	S12 W40	08 11.6		B	DAO	100	6	8	3
6768		HOLL	08 14 1930	S10 W43	08 11.6		B	DSO	150	6	7	2
6768	26991	MWIL	08 14 2015	S12 W43	08 11.6	5	(B )					
6768		PALE	08 14 2230	S13 W43	08 11.7		B	DSO	150	10	7	2
6768		CULG	08 15 0050	S12 W46	08 11.6		B	DAO	110	11	7	3
6768		LEAR	08 15 0135	S11 W48	08 11.4		B	DSO	110	2	6	2
6768		SVTO	08 15 0835	S13 W51	08 11.5		B	DAO	120	4	7	2
6768		RAMY	08 15 1224	S12 W52	08 11.6		B	DAO	130	9	8	3
6768		HOLL	08 15 1506	S12 W53	08 11.6		B	DAO	90	4	7	2
6768		PALE	08 15 1945	S11 W56	08 11.6		B	CSO	40	2	8	3
6768		LEAR	08 16 0009	S12 W58	08 11.6		B	CSO	40	8	6	3
6768		SVTO	08 16 0710	S12 W63	08 11.5		B	DAO	60	3	9	3
6768		RAMY	08 16 1219	S12 W63	08 11.8		B	DAO	50	7	9	3
6768		HOLL	08 16 1545	S11 W69	08 11.5		B	BXO	30	4	7	2
6768		BOUL	08 16 1625	S12 W67	08 11.6		B	BXO	20	3	7	3
6768		PALE	08 16 2200	S12 W68	08 11.8		B	CSO	30	2	7	3
6768		LEAR	08 17 0037	S12 W71	08 11.7		B	BXO	30	3	4	4
6768		PALE	08 17 1939	S14 W79	08 11.8		A	AX		2		3
6768A	26986	MWIL	08 10 1430	S19 E14	08 11.7	3	(AF)					
6768A		CULG	08 11 0115	S19 E08	08 11.7		A	AX		1		3
6768A		CULG	08 12 0140	S22 W04	08 11.8		A	AX		1		3
6768A		PALE	08 13 1810	S19 W14	08 12.7		A	AX	10	1	1	3
6768A		LEAR	08 14 0023	S18 W17	08 12.7		A	AX	10	1	1	3
6768A		CULG	08 14 0050	S18 W17	08 12.7		A	AX		1		2
6768A		CULG	08 15 0050	S18 W30	08 12.7		A	AX		1		3
6768C	26992	MWIL	08 13 1630	S15 W20	08 12.2	4	(AF)					
6768B		SVTO	08 07 0730	S04 E74	08 12.8		B	BXO	20	3	4	3
6770		SVTO	08 06 0715	N09 E80	08 12.3		B	CRO	30	2	3	3
6770		RAMY	08 06 1205	N09 E76	08 12.2		B	DAO	80	7	5	3
6770		HOLL	08 06 1431	N08 E76	08 12.3		B	CSO	60	3	10	3
6770	26981	MWIL	08 06 1500	N08 E78	08 12.5	5	(BP)					
6770		PALE	08 06 1850	N09 E75	08 12.4		B	CRO	60	9	8	4
6770		LEAR	08 07 0014	N09 E70	08 12.3		B	CSO	80	4	4	3
6770		CULG	08 07 0050	N12 E71	08 12.4		B	CAO	30	5	5	3
6770		SVTO	08 07 0730	N10 E68	08 12.4		B	DAO	70	7	7	3
6770		RAMY	08 07 1207	N08 E64	08 12.3		B	DSO	90	9	6	3
6770		BOUL	08 07 1425	N10 E62	08 12.2		B	CSO	50	4	6	2
6770	26981	MWIL	08 07 1500	N08 E64	08 12.4	5	(BP)					
6770		HOLL	08 07 1526	N09 E62	08 12.3		B	CRO	100	7	5	4
6770		PALE	08 07 1945	N09 E60	08 12.3		B	CAO	60	7	5	2



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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6770		LEAR	08 08 0017	N10 E58	08 12.4		B	CSO	50	7	4	3
6770		CULG	08 08 0100	N10 E58	08 12.4		B	DSO	70	11	4	2
6770		SVTO	08 08 0747	N09 E52	08 12.2		B	DAO	80	6	5	3
6770		RAMY	08 08 1341	N09 E52	08 12.5		B	DAO	50	4	4	4
6770		BOUL	08 08 1400	N11 E50	08 12.3		B	CAO	60	4	3	2
6770	26981	MWIL	08 08 1430	N09 E51	08 12.4	5	(BP)					
6770		HOLL	08 08 1720	N09 E48	08 12.3		B	CAI	30	10	5	3
6770		LEAR	08 09 0032	N08 E43	08 12.2		B	CSO	40	4	5	1
6770		CULG	08 09 0100	N11 E45	08 12.4		B	CSO	30	3	3	2
6770		PALE	08 09 0200	N09 E46	08 12.5		B	CSO	50	5	4	2
6770		SVTO	08 09 0633	N08 E42	08 12.4		B	CAO	50	5	4	4
6770		RAMY	08 09 1250	N09 E38	08 12.4		B	DAO	60	8	4	3
6770	26981	MWIL	08 09 1445	N08 E38	08 12.5	4	(BP)					
6770		BOUL	08 09 1447	N09 E36	08 12.3		B	CSO	30	4	4	4
6770		HOLL	08 09 1840	N08 E36	08 12.5		B	CSO	70	8	4	3
6770		PALE	08 09 1938	N08 E35	08 12.4		B	CAO	50	8	6	2
6770		LEAR	08 10 0005	N08 E33	08 12.5		B	CSO	30	8	6	4
6770		CULG	08 10 0045	N10 E32	08 12.4		B	DSO	40	9	5	3
6770		SVTO	08 10 0556	N08 E28	08 12.3		B	CSO	40	7	5	4
6770		RAMY	08 10 1225	N08 E26	08 12.5		B	DAO	70	12	5	4
6770	26981	MWIL	08 10 1430	N08 E25	08 12.5	5	(D)					
6770		BOUL	08 10 1445	N08 E23	08 12.3		B	DSO	50	5	4	3
6770		PALE	08 10 2000	N09 E24	08 12.6		B	CSO	30	6	4	2
6770		LEAR	08 11 0003	N07 E20	08 12.5		B	CSO	30	6	4	3
6770		CULG	08 11 0115	N09 E19	08 12.5		B	CSO	10	5	4	3
6770		SVTO	08 11 0705	N08 E16	08 12.5		B	CSO	20	8	4	3
6770		RAMY	08 11 1205	N08 E13	08 12.5		B	DAO	50	10	4	4
6770		BOUL	08 11 1440	N09 E11	08 12.4		B	DAI	40	8	4	4
6770	26981	MWIL	08 11 1445	N08 E11	08 12.4	4	(AP)					
6770		HOLL	08 11 1750	N08 E10	08 12.5		B	CRO	50	13	6	3
6770		PALE	08 11 1820	N07 E11	08 12.6		B	DSO	40	8	6	3
6770		CULG	08 12 0140	N08 E07	08 12.6		B	CRO	10	5	5	3
6770		SVTO	08 12 0710	N07 E04	08 12.6		B	CRO	20	10	7	3
6770		RAMY	08 12 1212	N09 E03	08 12.7		B	CRO	50	22	11	3
6770		HOLL	08 12 1630	N07 W01	08 12.6		B	CRO	40	8	7	3
6770		PALE	08 12 1800	N09 E00	08 12.8		B	CRO	10	10	9	3
6770		LEAR	08 13 0025	N08 W07	08 12.5		B	BXO	10	5	3	3
6770		SVTO	08 13 0715	N08 W11	08 12.5		B	BXO	20	7	4	3
6770		RAMY	08 13 1323	N08 W13	08 12.6		A	AX	10	4	2	3
6770		HOLL	08 13 1520	N08 W15	08 12.5		A	AX	10	2	2	3
6770	26981	MWIL	08 13 1630	N08 W16	08 12.5	5	(B)					
6770		PALE	08 13 1810	N08 W17	08 12.5		A	AX	10	2	1	3
6770		LEAR	08 14 0023	N08 W20	08 12.5		B	BXO	10	4	7	3
6770		SVTO	08 14 0701	N08 W23	08 12.6		B	BXO	10	3	3	3
6770		BOUL	08 14 1512	N08 W27	08 12.6		A	AX		2	1	3
6770		PALE	08 14 2230	N08 W29	08 12.8		B	CSO	20	3	3	2
6772	26982	MWIL	08 06 1500	S23 E82	08 12.9	5	AP					
6772		PALE	08 06 1850	S24 E80	08 13.0		A	HA	90	2	3	4
6772		LEAR	08 07 0014	S24 E78	08 13.0		A	HS	120	1	2	3
6772		CULG	08 07 0050	S22 E76	08 12.9		A	HS	150	1	2	3
6772		SVTO	08 07 0730	S24 E73	08 12.9		A	HS	180	1	3	3
6772		RAMY	08 07 1207	S25 E69	08 12.8		A	HS	180	1	2	3
6772		BOUL	08 07 1425	S24 E70	08 13.0		A	HS	120	1	2	2
6772	26982	MWIL	08 07 1500	S24 E69	08 12.9	5	(AP)					
6772		HOLL	08 07 1526	S23 E70	08 13.0		A	HS	180	1	2	4
6772		PALE	08 07 1945	S23 E69	08 13.1		A	HS	170	3	2	2
6772		LEAR	08 08 0017	S25 E67	08 13.2		A	HS	140	1	2	3
6772		CULG	08 08 0100	S24 E64	08 13.0		A	HS	150	1	3	2
6772		SVTO	08 08 0747	S24 E60	08 12.9		A	HS	180	1	2	3
6772		RAMY	08 08 1341	S23 E58	08 13.0		A	HA	130	1	2	4
6772		BOUL	08 08 1400	S22 E58	08 13.0		A	HA	130	1	3	2
6772	26982	MWIL	08 08 1430	S25 E58	08 13.1	5	(AP)					
6772		HOLL	08 08 1720	S23 E56	08 13.0		A	HS	110	1	2	3
6772		LEAR	08 09 0032	S25 E51	08 13.0		A	HS	110	1	2	1
6772		CULG	08 09 0100	S25 E52	08 13.1		A	HS	180	1	3	2
6772		PALE	08 09 0200	S25 E55	08 13.3		A	HS	150	1	2	2
6772		SVTO	08 09 0633	S25 E49	08 13.1		A	HA	270	1	2	4
6772		RAMY	08 09 1250	S23 E46	08 13.1		A	HK	210	2	7	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day										
6772	26982	MWIL	08	09	1445	S24 E45	08 13.1	5	(AP)					
6772		BOUL	08	09	1447	S24 E43	08 12.9		A	HS	180	1	3	4
6772		HOLL	08	09	1840	S25 E43	08 13.1		A	HH	240	1	3	3
6772		PALE	08	09	1938	S25 E42	08 13.1		A	HH	230	1	3	2
6772		LEAR	08	10	0005	S24 E39	08 13.0		A	HS	150	1	2	4
6772		CULG	08	10	0045	S24 E41	08 13.2		A	HH	190	1	3	3
6772		SVTO	08	10	0556	S24 E36	08 13.0		A	HS	240	1	2	4
6772		RAMY	08	10	1225	S23 E32	08 13.0		A	HK	280	1	2	4
6772	26982	MWIL	08	10	1430	S25 E33	08 13.2	5	(AP)					
6772		BOUL	08	10	1445	S24 E31	08 13.0		A	HS	160	1	3	3
6772		PALE	08	10	2000	S25 E33	08 13.4		A	HA	200	1	2	2
6772		LEAR	08	11	0003	S23 E27	08 13.1		A	HS	130	1	3	3
6772		CULG	08	11	0115	S24 E26	08 13.1		A	HH	220	1	3	3
6772		SVTO	08	11	0705	S24 E23	08 13.1		A	HS	220	1	3	3
6772		RAMY	08	11	1205	S23 E20	08 13.0		A	HH	240	1	3	4
6772		BOUL	08	11	1440	S23 E18	08 13.0		A	HS	170	1	3	4
6772	26982	MWIL	08	11	1445	S24 E19	08 13.1	5	AP					
6772		HOLL	08	11	1750	S23 E18	08 13.1		A	HS	240	2	2	3
6772		PALE	08	11	1820	S24 E17	08 13.1		A	HH	270	1	3	3
6772		CULG	08	12	0140	S23 E13	08 13.1		A	HS	200	1	3	3
6772		SVTO	08	12	0710	S24 E10	08 13.1		A	HK	260	1	3	3
6772		RAMY	08	12	1212	S23 E08	08 13.1		A	HH	260	3	3	3
6772		HOLL	08	12	1630	S23 E05	08 13.1		A	HS	230	1	2	3
6772		PALE	08	12	1800	S24 E04	08 13.0		A	HH	250	2	3	3
6772		LEAR	08	13	0025	S23 E00	08 13.0		A	HS	190	1	3	3
6772		SVTO	08	13	0715	S23 W04	08 13.0		A	HK	260	1	3	3
6772		RAMY	08	13	1323	S24 W07	08 13.0		A	HH	210	1	3	3
6772		HOLL	08	13	1520	S23 W08	08 13.0		A	HS	220	1	2	3
6772	26982	MWIL	08	13	1630	S23 W08	08 13.1	6	(AP)					
6772		PALE	08	13	1810	S24 W10	08 13.0		A	HS	170	1	2	3
6772		LEAR	08	14	0023	S23 W12	08 13.1		A	HK	180	1	4	3
6772		CULG	08	14	0050	S24 W12	08 13.1		A	HS	230	1	2	2
6772		SVTO	08	14	0701	S23 W17	08 13.0		A	HS	240	1	3	3
6772		RAMY	08	14	1425	S23 W20	08 13.0		A	HH	140	1	3	2
6772		BOUL	08	14	1512	S23 W20	08 13.1		A	HH	240	1	3	3
6772		HOLL	08	14	1930	S22 W24	08 13.0		A	HS	250	1	2	2
6772	26982	MWIL	08	14	2015	S23 W23	08 13.1	6	(AP)					
6772		PALE	08	14	2230	S23 W23	08 13.2		A	HS	180	1	2	2
6772		CULG	08	15	0050	S24 W23	08 13.2		B	CSO	260	2	5	3
6772		LEAR	08	15	0135	S23 W24	08 13.2		B	CHO	100	2	5	2
6772		SVTO	08	15	0835	S24 W28	08 13.2		B	CKO	250	2	6	2
6772		RAMY	08	15	1224	S23 W30	08 13.2		B	CHO	160	4	6	3
6772		HOLL	08	15	1506	S22 W31	08 13.2		B	CSO	200	2	5	2
6772		PALE	08	15	1945	S22 W35	08 13.1		B	CSO	90	5	4	3
6772		LEAR	08	16	0009	S23 W38	08 13.1		B	CSO	150	4	4	3
6772		SVTO	08	16	0710	S23 W43	08 13.0		B	DSO	200	3	5	3
6772		RAMY	08	16	1219	S23 W44	08 13.1		B	CHO	190	4	4	3
6772		HOLL	08	16	1545	S23 W47	08 13.0		A	HS	200	1	2	2
6772		BOUL	08	16	1625	S24 W46	08 13.1		A	HS	170	1	3	3
6772		PALE	08	16	2200	S23 W46	08 13.4		B	CSO	140	2	3	3
6772		LEAR	08	17	0037	S24 W50	08 13.2		B	CSO	150	2	5	4
6772		CULG	08	17	0115	S23 W52	08 13.0		B	CSO	170	5	5	3
6772		SVTO	08	17	0659	S24 W54	08 13.1		A	HS	180	1	2	4
6772		RAMY	08	17	1224	S22 W56	08 13.2		A	HS	200	1	2	4
6772		BOUL	08	17	1445	S23 W57	08 13.2		A	HS	130	1	3	3
6772		HOLL	08	17	1745	S24 W62	08 12.9		A	HS	160	1	2	2
6772	26982	MWIL	08	17	1800	S24 W61	08 13.0	5	(AP)					
6772		PALE	08	17	1939	S25 W61	08 13.1		A	HS	140	1	2	3
6772		CULG	08	18	0130	S23 W64	08 13.1		A	HS	180	1	3	3
6772		LEAR	08	18	0132	S24 W64	08 13.1		A	HS	110	1	2	2
6772		SVTO	08	18	0633	S24 W67	08 13.1		A	HS	220	1	2	4
6772		RAMY	08	18	1220	S22 W68	08 13.3		A	HS	170	1	2	4
6772	26982	MWIL	08	18	1430	S23 W71	08 13.1	5	AP					
6772		BOUL	08	18	1450	S24 W69	08 13.3		A	HS	110	1	2	4
6772		HOLL	08	18	1725	S24 W74	08 13.0		A	HS	120	1	2	2
6772		PALE	08	18	2000	S26 W78	08 12.8		A	HS	120	1	2	3
6772		LEAR	08	19	0043	S23 W82	08 12.7		A	HA	90	2	3	3
6772		CULG	08	19	0105	S23 W83	08 12.6		A	HS	120	1	2	2
6772		SVTO	08	19	0820	S24 W81	08 13.1		A	HS	60	1	2	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6774		RAMY	08 08 1341	N05 E87	08 15.1		A	HS	60	1	2	4
6774	26984	BOUL	08 08 1400	N08 E80	08 14.6		A	HA	100	1	2	2
6774		MWIL	08 08 1430	N04 E82	08 14.7	4	X					
6774		HOLL	08 08 1720	N04 E80	08 14.7		B	DSO	80	4	6	3
6774		LEAR	08 09 0032	N04 E78	08 14.8		B	CSO	90	3	5	1
6774		CULG	08 09 0100	N06 E78	08 14.9		B	DSO	130	5	6	2
6774		PALE	08 09 0200	N03 E80	08 15.1		B	DAO	90	2	4	2
6774		SVTO	08 09 0633	N04 E75	08 14.9		B	CSI	170	5	7	4
6774		RAMY	08 09 1250	N05 E69	08 14.7		B	DAO	160	12	5	3
6774		MWIL	08 09 1445	N04 E70	08 14.8	4	(BP)					
6774		BOUL	08 09 1447	N04 E69	08 14.8		B	DAO	150	5	5	4
6774	HOLL	08 09 1840	N03 E69	08 14.9		B	DSO	140	11	8	3	
6774	PALE	08 09 1938	N03 E65	08 14.7		B	DAO	130	6	5	2	
6774	LEAR	08 10 0005	N05 E64	08 14.8		B	DSO	110	8	8	4	
6774	CULG	08 10 0045	N04 E64	08 14.8		B	DKO	150	3	4	3	
6774	SVTO	08 10 0556	N04 E60	08 14.7		B	DAO	150	10	6	4	
6774	RAMY	08 10 1225	N04 E56	08 14.7		B	DAO	110	19	7	4	
6774	MWIL	08 10 1430	N04 E56	08 14.8	4	(DB)						
6774	BOUL	08 10 1445	N05 E56	08 14.8		B	DAI	150	10	6	3	
6774	PALE	08 10 2000	N03 E57	08 15.1		B	DAO	140	8	6	2	
6774	LEAR	08 11 0003	N04 E50	08 14.7		B	DSO	80	4	5	3	
6774	CULG	08 11 0115	N05 E51	08 14.9		B	DAO	50	17	9	3	
6774	SVTO	08 11 0705	N04 E48	08 14.9		B	DSO	70	14	7	3	
6774	RAMY	08 11 1205	N03 E43	08 14.7		B	DAO	80	37	8	4	
6774	BOUL	08 11 1440	N05 E43	08 14.8		B	DAI	100	13	8	4	
6774	MWIL	08 11 1445	N05 E41	08 14.7	4	(B )						
6774	HOLL	08 11 1750	N04 E41	08 14.8		B	DSI	70	16	7	3	
6774	PALE	08 11 1820	N04 E42	08 14.9		B	DAO	70	13	7	3	
6774	CULG	08 12 0140	N05 E36	08 14.8		B	DRO	10	11	3	3	
6774	SVTO	08 12 0710	N04 E33	08 14.8		B	DSO	50	15	5	3	
6774	RAMY	08 12 1212	N03 E29	08 14.7		B	DRO	60	23	7	3	
6774	HOLL	08 12 1630	N04 E28	08 14.8		B	BXO	30	10	6	3	
6774	PALE	08 12 1800	N03 E28	08 14.8		B	CRO	30	14	7	3	
6774	LEAR	08 13 0025	N05 E24	08 14.8		B	BXO	30	9	7	3	
6774	SVTO	08 13 0715	N04 E21	08 14.9		B	CRO	40	15	6	3	
6774	RAMY	08 13 1323	N04 E15	08 14.7		B	CAO	30	14	5	3	
6774	HOLL	08 13 1520	N04 E15	08 14.8		B	BXO	30	12	5	3	
6774	MWIL	08 13 1630	N05 E14	08 14.7	5	(B )						
6774	PALE	08 13 1810	N03 E13	08 14.7		B	BXO	10	8	4	3	
6774	LEAR	08 14 0023	N05 E09	08 14.7		B	BXO	20	15	5	3	
6774	CULG	08 14 0050	N06 E09	08 14.7		B	BXO	10	10	5	2	
6774	SVTO	08 14 0701	N05 E07	08 14.8		B	BXO	30	14	6	3	
6774	RAMY	08 14 1425	N04 E02	08 14.7		B	BX	20	6	2	2	
6774	BOUL	08 14 1512	N05 E01	08 14.7		B	CAO	30	6	4	3	
6774	HOLL	08 14 1930	N05 W02	08 14.7		B	BXO	30	5	4	2	
6774	MWIL	08 14 2015	N06 W02	08 14.7	4	(AF)						
6774	PALE	08 14 2230	N05 E00	08 14.9		B	CSO	20	5	4	2	
6774	CULG	08 15 0050	N05 W04	08 14.7		B	BXO		5	4	3	
6774	RAMY	08 15 1224	N06 W11	08 14.7		B	BXO	10	4	3	3	
6774	PALE	08 15 1945	N05 W09	08 15.1		B	BXO	20	5	3	3	
6774	RAMY	08 16 1219	N06 W22	08 14.9		B	BXO	10	4	3	3	
6774	PALE	08 16 2200	N07 W24	08 15.1		A	AX	10	2	2	3	
6774	PALE	08 17 1939	N09 W32	08 15.4		A	AX		1		3	
6774A		RAMY	08 18 1220	N15 W40	08 15.5		A	AX		1	1	4
6774A	27011	MWIL	08 18 1430	N15 W41	08 15.5	3	(AP)					
6774B		SVTO	08 17 0659	S06 W17	08 16.0		B	BXO	10	3	3	4
6797	27012	MWIL	08 18 1430	S09 W28	08 16.5	3	(B )					
6797		PALE	08 18 2000	S13 W30	08 16.6		B	BXO	70	4	2	3
6797		CULG	08 19 0105	S08 W33	08 16.6		A	AX	10	1	1	2
6797		SVTO	08 19 0820	S09 W37	08 16.6		B	CSO	30	5	4	3
6797		BOUL	08 19 1505	S09 W38	08 16.8		A	AX		2	1	1
6797	27012	MWIL	08 19 1530	S08 W42	08 16.5	5	(B )					
6797	HOLL	08 19 1825	S09 W43	08 16.5		B	BXO	20	4	3	2	
6797	PALE	08 19 1845	S10 W43	08 16.5		B	BXO	10	4	4	3	
6797	LEAR	08 20 0011	S09 W45	08 16.6		B	BXO	20	2	3	3	

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6797		CULG	08 20 0100	S09 W47	08 16.5		B	CRO	10	3	3	3
6797		SVTO	08 20 0733	S10 W48	08 16.7		B	CSO	20	2	3	2
6797		RAMY	08 20 1340	S08 W54	08 16.5		B	BXO	20	2	3	4
6797	27012	MWIL	08 20 1530	S09 W55	08 16.5	4	(B)					
6797		HOLL	08 20 1600	S09 W55	08 16.5		B	BXO	10	3	3	4
6797		PALE	08 20 2300	S09 W57	08 16.7		B	BXO	30	2	4	3
6797A		RAMY	08 17 1224	S15 W11	08 16.7		A	AX	10	3	2	4
6776		LEAR	08 11 0003	S22 E73	08 16.6		B	BXO	10	2	2	3
6776		CULG	08 11 0115	S22 E80	08 17.2		B	BXO	10	2	11	3
6776		SVTO	08 11 0705	S22 E74	08 17.0		B	CRO	30	3	6	3
6776		RAMY	08 11 1205	S22 E71	08 17.0		B	DAO	90	13	9	4
6776		BOUL	08 11 1440	S22 E68	08 16.8		B	BXO	10	2	4	4
6776	26988	MWIL	08 11 1445	S22 E71	08 17.1	4	(B)					
6776		HOLL	08 11 1750	S23 E70	08 17.1		B	BXO	30	3	3	3
6776		PALE	08 11 1820	S22 E70	08 17.1		B	BXO	10	3	6	3
6776		CULG	08 12 0140	S22 E68	08 17.3		B	BXO	10	2	2	3
6776		SVTO	08 12 0710	S22 E61	08 17.0		B	BXO	20	5	4	3
6776		RAMY	08 12 1212	S22 E60	08 17.1		B	DRO	60	11	5	3
6776		HOLL	08 12 1630	S21 E58	08 17.1		B	BXO	20	4	6	3
6776		PALE	08 12 1800	S22 E58	08 17.2		B	BXO	20	5	4	3
6776		LEAR	08 13 0025	S20 E50	08 16.8		B	BXO	20	4	4	3
6776		SVTO	08 13 0715	S22 E46	08 16.8		B	CRO	30	9	7	3
6776		RAMY	08 13 1323	S22 E46	08 17.1		B	CRO	40	9	8	3
6776		HOLL	08 13 1520	S21 E41	08 16.8		B	BXO	20	4	3	3
6776	26988	MWIL	08 13 1630	S21 E41	08 16.8	4	(B)					
6776		PALE	08 13 1810	S21 E40	08 16.8		B	BXO	10	4	3	3
6776		CULG	08 14 0050	S20 E36	08 16.8		A	AX		1		2
6776		PALE	08 14 2230	S24 E29	08 17.2		A	AX	20	2	2	2
6777		RAMY	08 11 1205	N24 E82	08 17.8		A	HA	50	1	2	4
6777		BOUL	08 11 1440	N24 E81	08 17.9		A	HS	30	1	2	4
6777		HOLL	08 11 1750	N24 E84	08 18.2		A	HS	90	1	1	3
6777		PALE	08 11 1820	N23 E83	08 18.1		A	HA	70	1	2	3
6777		CULG	08 12 0140	N24 E80	08 18.2		A	HS	20	1	2	3
6777		SVTO	08 12 0710	N23 E75	08 18.1		A	HA	60	1	2	3
6777		RAMY	08 12 1212	N23 E73	08 18.1		A	HA	100	2	2	3
6777		HOLL	08 12 1630	N24 E71	08 18.2		B	CSO	100	3	6	3
6777		PALE	08 12 1800	N23 E70	08 18.1		BG	HR	60	3	2	3
6777		LEAR	08 13 0025	N23 E66	08 18.1		B	CRO	40	3	3	3
6777		SVTO	08 13 0715	N24 E63	08 18.2		B	CAO	70	3	3	3
6777		RAMY	08 13 1323	N23 E60	08 18.2		B	CAO	80	5	4	3
6777		HOLL	08 13 1520	N23 E60	08 18.3		B	CSO	100	4	4	3
6777	26993	MWIL	08 13 1630	N23 E58	08 18.1	5	(BP)					
6777		PALE	08 13 1810	N23 E58	08 18.2		B	CAO	70	3	4	3
6777		LEAR	08 14 0023	N23 E54	08 18.2		B	CSO	30	3	5	3
6777		CULG	08 14 0050	N23 E54	08 18.2		B	CSO	60	3	3	2
6777		SVTO	08 14 0701	N23 E51	08 18.2		B	CSO	60	5	5	3
6777		RAMY	08 14 1425	N23 E44	08 18.0		A	HS	30	1	2	2
6777		BOUL	08 14 1512	N24 E45	08 18.1		B	CAO	70	2	4	3
6777		HOLL	08 14 1930	N23 E43	08 18.1		A	HS	80	1	1	2
6777	26993	MWIL	08 14 2015	N23 E42	08 18.1	5	(AP)					
6777		PALE	08 14 2230	N24 E42	08 18.2		A	HS	80	1	2	2
6777		CULG	08 15 0050	N24 E39	08 18.0		B	CSO	50	3	3	3
6777		LEAR	08 15 0135	N24 E39	08 18.1		A	HS	30	1	2	2
6777		SVTO	08 15 0835	N23 E35	08 18.0		A	HS	70	2	2	2
6777		RAMY	08 15 1224	N22 E32	08 18.0		A	HA	40	1	2	3
6777		HOLL	08 15 1506	N23 E32	08 18.1		A	HA	70	2	2	2
6777		PALE	08 15 1945	N24 E34	08 18.4		A	HS	50	1	2	3
6777		LEAR	08 16 0009	N23 E27	08 18.1		A	HS	40	1	2	3
6777		SVTO	08 16 0710	N24 E24	08 18.1		B	CSO	70	2	5	3
6777		RAMY	08 16 1219	N23 E19	08 18.0		A	HA	40	1	2	3
6777		HOLL	08 16 1545	N23 E18	08 18.0		A	HS	40	1	2	2
6777		BOUL	08 16 1625	N24 E17	08 18.0		A	HS	40	1	1	3
6777		PALE	08 16 2200	N23 E18	08 18.3		A	HS	40	1	1	3
6777		LEAR	08 17 0037	N23 E13	08 18.0		A	HS	40	1	2	4
6777		CULG	08 17 0115	N24 E13	08 18.0		A	HS	50	1	2	3
6777		SVTO	08 17 0659	N23 E08	08 17.9		B	CSO	60	5	5	4

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6777		RAMY	08 17 1224	N24 E04	08 17.8		B	CAO	70	8	6	4
6777		BOUL	08 17 1445	N24 E05	08 18.0		A	HS	40	1	1	3
6777		HOLL	08 17 1745	N23 E03	08 18.0		A	HS	50	2	2	2
6777	26993	MWIL	08 17 1800	N23 E03	08 18.0	5	(AP)					
6777		PALE	08 17 1939	N23 E03	08 18.0		A	HS	40	1	1	3
6777		CULG	08 18 0130	N24 W02	08 17.9		A	HS	50	1	2	3
6777		LEAR	08 18 0132	N23 W01	08 18.0		A	HS	20	1	2	2
6777		SVTO	08 18 0633	N25 W05	08 17.9		B	CSO	50	4	6	4
6777		RAMY	08 18 1220	N23 W09	08 17.8		B	CSO	70	4	6	4
6777	26993	MWIL	08 18 1430	N24 W08	08 18.0	5	(AP)					
6777		BOUL	08 18 1450	N24 W07	08 18.1		A	HS	20	1	1	4
6777		HOLL	08 18 1725	N23 W11	08 17.9		B	CSO	40	3	6	2
6777		PALE	08 18 2000	N24 W13	08 17.8		B	CSO	40	4	6	3
6777		LEAR	08 19 0043	N24 W17	08 17.7		B	CSO	30	3	7	3
6777		CULG	08 19 0105	N24 W12	08 18.1		A	HS	40	1	1	2
6777		SVTO	08 19 0820	N23 W17	08 18.0		A	HS	40	1	2	3
6777		RAMY	08 19 1321	N23 W19	08 18.1		A	HS	20	1	2	3
6777		BOUL	08 19 1505	N24 W19	08 18.2		A	HS	20	2	1	1
6777	26993	MWIL	08 19 1530	N24 W21	08 18.0	5	(AP)					
6777		HOLL	08 19 1825	N23 W22	08 18.1		A	HS	50	1	1	2
6777		PALE	08 19 1845	N23 W22	08 18.1		A	HS	40	1	1	3
6777		LEAR	08 20 0011	N23 W25	08 18.1		A	HS	20	1	1	3
6777		CULG	08 20 0100	N24 W27	08 17.9		A	HS	40	1	1	3
6777		SVTO	08 20 0733	N24 W28	08 18.1		A	HS	50	1	2	2
6777		RAMY	08 20 1340	N24 W32	08 18.1		A	HS	20	2	1	4
6777	26993	MWIL	08 20 1530	N24 W34	08 18.0	5	(AP)					
6777		HOLL	08 20 1600	N23 W33	08 18.1		A	HS	50	1	2	4
6777		BOUL	08 20 1700	N24 W33	08 18.1		A	HS	30	1	1	1
6777		PALE	08 20 2300	N24 W34	08 18.3		A	HS	30	1	1	3
6777		CULG	08 21 0045	N21 W41	08 17.9		A	HS	30	1	1	2
6777		LEAR	08 21 0128	N23 W39	08 18.0		A	HS	30	1	1	3
6777		SVTO	08 21 0701	N23 W42	08 18.0		A	HS	40	1	2	3
6777		RAMY	08 21 1223	N23 W46	08 18.0		A	HS	30	2	2	4
6777		BOUL	08 21 1445	N24 W46	08 18.1		A	HA	30	2	1	3
6777	26993	MWIL	08 21 1530	N24 W46	08 18.1	5	(AP)					
6777		HOLL	08 21 1550	N23 W47	08 18.0		A	HS	30	1	2	3
6777		PALE	08 21 2315	N24 W48	08 18.3		A	HS	20	1	1	2
6777		CULG	08 22 0125	N23 W53	08 18.0		A	HS	30	1	2	3
6777		LEAR	08 22 0138	N23 W51	08 18.1		A	HS	60	1	2	4
6777		SVTO	08 22 0740	N23 W56	08 18.0		A	HA	20	2	1	3
6777		RAMY	08 22 1434	N20 W58	08 18.2		A	HS	40	1	2	3
6777		BOUL	08 22 1435	N24 W57	08 18.2		A	HS	40	1	1	2
6777	26993	MWIL	08 22 1445	N24 W59	08 18.0	5	(AP)					
6777		PALE	08 22 2018	N22 W62	08 18.1		A	HA	20	1		3
6777		HOLL	08 22 2100	N23 W62	08 18.1		A	HA	20	1	1	2
6777		LEAR	08 23 0015	N23 W63	08 18.1		A	AX	20	1	1	2
6777		SVTO	08 23 0845	N23 W70	08 18.0		A	HS	50	1	1	3
6777		RAMY	08 23 1415	N23 W71	08 18.1		A	HA	30	1	1	4
6777	26993	MWIL	08 23 1440	N24 W70	08 18.2	5	(AP)					
6777		BOUL	08 23 1445	N24 W71	08 18.1		A	HS	40	1	1	3
6777		HOLL	08 23 1530	N23 W72	08 18.1		A	AX	10	1	1	3
6777		CULG	08 24 0022	N23 W78	08 18.0		A	AX		1		2
6777		LEAR	08 24 0055	N23 W75	08 18.2		A	AX	10	1	1	3
6777		PALE	08 24 0240	N23 W78	08 18.1		A	AX	10	1	1	2
6777		SVTO	08 24 0700	N24 W80	08 18.1		A	AX	10	1	1	3
6777		RAMY	08 24 1254	N22 W85	08 18.0		A	AX	10	1	1	3
6777	26993	MWIL	08 24 1440	N24 W84	08 18.1	4	AP					
6778		HOLL	08 11 1750	S08 E79	08 17.7		A	HS	120	1	2	3
6778		PALE	08 11 1820	S09 E86	08 18.2		A	HA	60	1	3	3
6778		CULG	08 12 0140	S08 E81	08 18.1		A	HS	90	1	5	3
6778		SVTO	08 12 0710	S08 E75	08 17.9		A	HA	120	1	2	3
6778		RAMY	08 12 1212	S08 E79	08 18.4		B	CAO	150	9	9	3
6778		HOLL	08 12 1630	S09 E74	08 18.2		B	CSO	180	6	8	3
6778		PALE	08 12 1800	S09 E73	08 18.2		B	CAO	130	7	10	3
6778		LEAR	08 13 0025	S08 E68	08 18.1		B	CAO	190	3	6	3
6778		SVTO	08 13 0715	S08 E65	08 18.2		B	CAO	190	12	9	3
6778		RAMY	08 13 1323	S08 E63	08 18.3		B	CAO	230	14	11	3
6778		HOLL	08 13 1520	S09 E62	08 18.3		B	CSO	150	8	10	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6778	26994	MWIL	08 13 1630	S08 E59	08 18.1	5	(BP)					
6778		PALE	08 13 1810	S08 E59	08 18.2		B	CAO	290	6	7	3
6778		LEAR	08 14 0023	S08 E56	08 18.2		B	CAO	110	3	8	3
6778		CULG	08 14 0050	S08 E55	08 18.1		B	CSO	190	3	9	2
6778		SVTO	08 14 0701	S08 E52	08 18.2		B	CSO	170	7	9	3
6778		RAMY	08 14 1425	S08 E47	08 18.1		B	CAO	130	4	8	2
6778		BOUL	08 14 1512	S07 E46	08 18.1		B	CKO	210	4	8	3
6778		HOLL	08 14 1930	S09 E45	08 18.2		B	CSO	180	5	9	2
6778	26994	MWIL	08 14 2015	S08 E43	08 18.1	5	(BP)					
6778		PALE	08 14 2230	S08 E44	08 18.2		B	CAO	20	5	7	2
6778		CULG	08 15 0050	S08 E41	08 18.1		B	CSO	130	3	8	3
6778		LEAR	08 15 0135	S08 E40	08 18.1		B	CAO	100	3	7	2
6778		SVTO	08 15 0835	S08 E37	08 18.1		B	CAO	180	5	8	2
6778		RAMY	08 15 1224	S09 E36	08 18.2		B	CHO	140	11	9	3
6778		HOLL	08 15 1506	S08 E34	08 18.2		BG	CAO	160	9	9	2
6778		PALE	08 15 1945	S08 E34	08 18.4		B	CSO	130	9	12	3
6778		LEAR	08 16 0009	S08 E29	08 18.2		B	CSO	180	6	8	3
6778		SVTO	08 16 0710	S09 E26	08 18.2		B	CAO	20	4	8	3
6778		RAMY	08 16 1219	S08 E23	08 18.2		B	CKO	170	9	11	3
6778		HOLL	08 16 1545	S09 E20	08 18.1		B	CSO	120	4	8	2
6778		BOUL	08 16 1625	S07 E16	08 17.9		A	HS	110	1	2	3
6778		PALE	08 16 2200	S08 E17	08 18.2		B	CSO	170	6	12	3
6778		LEAR	08 17 0037	S09 E17	08 18.3		B	CAO	140	12	11	4
6778		CULG	08 17 0115	S08 E12	08 17.9		A	HA	80	2	3	3
6778		SVTO	08 17 0659	S08 E09	08 18.0		B	CAO	120	5	5	4
6778		RAMY	08 17 1224	S09 E10	08 18.3		B	CAO	140	16	11	4
6778		BOUL	08 17 1445	S07 E04	08 17.9		A	HA	90	2	2	3
6778		HOLL	08 17 1745	S09 E08	08 18.3		B	CAO	120	5	12	2
6778	26994	MWIL	08 17 1800	S08 E03	08 18.0	5	(BP)					
6778		PALE	08 17 1939	S09 E08	08 18.4		B	CSO	100	8	11	3
6778		CULG	08 18 0130	S08 E01	08 18.1		B	CSO	120	10	10	3
6778		LEAR	08 18 0132	S09 E02	08 18.2		B	CSO	110	7	10	2
6778		SVTO	08 18 0633	S08 W05	08 17.9		B	CAO	140	5	4	4
6778		RAMY	08 18 1220	S09 W03	08 18.3		B	CAO	120	15	11	4
6778	26994	MWIL	08 18 1430	S08 W09	08 17.9	5	(AP)					
6778		BOUL	08 18 1450	S07 W09	08 17.9		A	HS	90	3	2	4
6778		HOLL	08 18 1725	S08 W10	08 18.0		B	CAO	70	4	3	2
6778		PALE	08 18 2000	S09 W07	08 18.3		B	CAO	80	5	9	3
6778		LEAR	08 19 0043	S08 W13	08 18.0				60	4	3	3
6778		CULG	08 19 0105	S08 W16	08 17.8		B	CAO	100	6	12	2
6778		SVTO	08 19 0820	S08 W19	08 17.9		B	DAO	70	2	3	3
6778		RAMY	08 19 1321	S08 W22	08 17.9		A	FA	80	3	3	3
6778	26994	MWIL	08 19 1530	S08 W21	08 18.1	5	(BP)					
6778		HOLL	08 19 1825	S08 W24	08 18.0		B	DSO	60	2	3	2
6778		PALE	08 19 1845	S09 W20	08 18.3		B	CSO	90	5	9	3
6778		LEAR	08 20 0011	S08 W28	08 17.9		B	DAC	40	2	3	3
6778		CULG	08 20 0100	S08 W28	08 17.9		A	HA	60	1	2	3
6778		SVTO	08 20 0733	S08 W30	08 18.1		B	DAO	60	2	3	2
6778		RAMY	08 20 1340	S09 W35	08 17.9		B	CSO	60	4	3	4
6778	26994	MWIL	08 20 1530	S08 W36	08 17.9	5	(AP)					
6778		HOLL	08 20 1600	S09 W36	08 18.0		B	CSO	50	4	3	4
6778		BOUL	08 20 1700	S08 W36	08 18.0		B	DSO	50	3	3	1
6778		PALE	08 20 2300	S08 W37	08 18.2		B	CSO	60	9	4	3
6778		CULG	08 21 0045	S11 W41	08 17.9		B	CSO	50	3	1	2
6778		LEAR	08 21 0128	S09 W42	08 17.9		B	CAO	90	3	4	3
6778		SVTO	08 21 0701	S08 W44	08 18.0		B	CSO	30	4	4	3
6778		RAMY	08 21 1223	S08 W47	08 18.0		B	CSO	40	7	3	4
6778		BOUL	08 21 1445	S07 W49	08 17.9		B	CAO	50	5	4	3
6778	26994	MWIL	08 21 1530	S07 W49	08 18.0	5	(BF)					
6778		HOLL	08 21 1550	S09 W50	08 17.9		B	CAI	80	7	4	3
6778		PALE	08 21 2315	S09 W50	08 18.2		B	DAO	70	5	3	2
6778		CULG	08 22 0125	S08 W55	08 17.9		B	CSI	40	2	2	3
6778		LEAR	08 22 0138	S08 W55	08 17.9		B	CSO	50	2	3	4
6778		SVTO	08 22 0740	S08 W58	08 18.0		B	CAO	40	2	3	3
6778		RAMY	08 22 1434	S08 W60	08 18.1		B	CAO	40	3	4	3
6778		BOUL	08 22 1435	S08 W59	08 18.2		B	CSO	40	2	3	2
6778	26994	MWIL	08 22 1445	S08 W61	08 18.0	5	(AP)					
6778		PALE	08 22 2018	S09 W65	08 18.0		A	HS	50	1	1	3
6778		HOLL	08 22 2100	S09 W66	08 17.9		B	CSO	40	2	4	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6778		LEAR	08 23 0015	S08 W67	08 18.0		A	HS	30	1	2	2
6778		CULG	08 23 0100	S08 W67	08 18.0		A	HS	30	1	1	3
6778		SVTO	08 23 0845	S10 W78	08 17.5		A	HS	120	1	2	3
6778		RAMY	08 23 1415	S08 W77	08 17.8		A	HA	30	1	1	4
6778	26994	MWIL	08 23 1440	S08 W76	08 17.9	4	(AP)					
6778		BOUL	08 23 1445	S08 W75	08 18.0		A	HS	50	1	1	3
6778		HOLL	08 23 1530	S08 W78	08 17.8		A	HS	50	1	1	3
6784		HOLL	08 14 1930	S21 E47	08 18.4		B	BXO	10	6	5	2
6784	26999	MWIL	08 14 2015	S20 E46	08 18.4	4	(B )					
6784		PALE	08 14 2230	S22 E48	08 18.6		B	BXO	10	3	3	2
6784		CULG	08 15 0050	S19 E44	08 18.4		B	BXO	10	13	6	3
6784		LEAR	08 15 0135	S19 E43	08 18.3		B	CSO	80	7	6	2
6784		SVTO	08 15 0835	S20 E41	08 18.5		B	DAI	130	19	6	2
6784		RAMY	08 15 1224	S19 E37	08 18.3		B	DAI	60	23	8	3
6784		HOLL	08 15 1506	S19 E36	08 18.4		B	DAO	210	16	8	2
6784		PALE	08 15 1945	S19 E38	08 18.7		B	DAI	210	15	8	3
6784		LEAR	08 16 0009	S19 E31	08 18.4		B	DAO	250	22	9	3
6784		SVTO	08 16 0710	S20 E28	08 18.4		BG	DAO	320	26	10	3
6784		RAMY	08 16 1219	S18 E23	08 18.3		B	EKI	310	51	12	3
6784		HOLL	08 16 1545	S19 E23	08 18.4		B	EKI	310	36	12	2
6784		BOUL	08 16 1625	S18 E21	08 18.3		B	EAI	400	28	11	3
6784		PALE	08 16 2200	S18 E24	08 18.7		B	EAI	250	28	11	3
6784		LEAR	08 17 0037	S19 E18	08 18.4		B	EAI	300	40	11	4
6784		CULG	08 17 0115	S19 E18	08 18.4		B	EKO	330	27	12	3
6784		SVTO	08 17 0659	S19 E14	08 18.3		BGD	EAC	450	44	13	4
6784		RAMY	08 17 1224	S19 E10	08 18.3		B	EKI	360	61	12	4
6784		BOUL	08 17 1445	S19 E10	08 18.4		B	EAI	360	28	13	3
6784		HOLL	08 17 1745	S20 E08	08 18.3		BG	EAI	320	39	13	2
6784	26999	MWIL	08 17 1800	S19 E08	08 18.4	5	(D )					
6784		PALE	08 17 1939	S19 E09	08 18.5		B	EKI	360	39	13	3
6784		CULG	08 18 0130	S19 E04	08 18.4		B	EAO	350	32	13	3
6784		LEAR	08 18 0132	S19 E04	08 18.4		B	EAI	250	28	14	2
6784		SVTO	08 18 0633	S20 E01	08 18.3		B	EAI	370	33	12	4
6784		RAMY	08 18 1220	S19 W02	08 18.4		B	EKO	370	48	13	4
6784	26999	MWIL	08 18 1430	S19 W05	08 18.2	5	(D )					
6784		BOUL	08 18 1450	S19 W04	08 18.3		B	EAI	310	28	13	4
6784		HOLL	08 18 1725	S19 W05	08 18.3		B	ESI	270	32	13	2
6784		PALE	08 18 2000	S20 W06	08 18.4		B	EAI	340	25	13	3
6784		CULG	08 19 0105	S19 W12	08 18.1		B	EAO	250	11	13	2
6784		SVTO	08 19 0820	S20 W13	08 18.3		B	EAI	310	19	14	3
6784		RAMY	08 19 1321	S20 W17	08 18.2		B	EKO	230	23	12	3
6784		BOUL	08 19 1505	S19 W17	08 18.3		B	DKO	290	14	9	1
6784	26999	MWIL	08 19 1530	S19 W18	08 18.3	6	(D )					
6784		HOLL	08 19 1825	S20 W19	08 18.3		B	EAO	250	19	12	2
6784		PALE	08 19 1845	S20 W19	08 18.3		B	ESO	350	51	13	3
6784		LEAR	08 20 0011	S20 W22	08 18.3		B	EAO	220	14	11	3
6784		CULG	08 20 0100	S20 W24	08 18.2		B	EAO	200	10	12	3
6784		SVTO	08 20 0733	S20 W27	08 18.2		B	EAO	240	11	13	2
6784		RAMY	08 20 1340	S19 W31	08 18.2		B	EHI	240	21	12	4
6784	26999	MWIL	08 20 1530	S19 W32	08 18.2	5	(B )					
6784		HOLL	08 20 1600	S19 W31	08 18.3		B	ESO	280	18	13	4
6784		BOUL	08 20 1700	S19 W31	08 18.3		B	DSO	200	7	9	1
6784		PALE	08 20 2300	S21 W32	08 18.5		B	ESO	190	10	12	3
6784		CULG	08 21 0045	S22 W36	08 18.3		B	EAO	260	8	9	2
6784		LEAR	08 21 0128	S20 W36	08 18.3		B	DHO	190	3	10	3
6784		SVTO	08 21 0701	S19 W39	08 18.3		B	EAO	260	11	13	3
6784		RAMY	08 21 1223	S20 W43	08 18.2		B	EAO	210	22	11	4
6784		BOUL	08 21 1445	S19 W44	08 18.2		B	EAO	390	13	11	3
6784	26999	MWIL	08 21 1530	S18 W45	08 18.2	5	(B )					
6784		HOLL	08 21 1550	S20 W45	08 18.2		B	ESO	240	16	12	3
6784		PALE	08 21 2315	S19 W46	08 18.4		B	ESO	180	21	12	2
6784		CULG	08 22 0125	S20 W48	08 18.4		B	EAO	250	12	11	3
6784		LEAR	08 22 0138	S20 W50	08 18.2		B	EHO	380	8	12	4
6784		SVTO	08 22 0740	S20 W55	08 18.1		B	CAO	170	14	13	3
6784		RAMY	08 22 1434	S20 W56	08 18.3		B	ESO	230	23	13	3
6784		BOUL	08 22 1435	S19 W56	08 18.3		B	EAI	270	16	13	2
6784	26999	MWIL	08 22 1445	S19 W60	08 18.0	5	(BP)					
6784		PALE	08 22 2018	S21 W60	08 18.2		B	CSO	150	8	10	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6784		HOLL	08 22 2100	S20 W60	08 18.3		B	CSO	170	14	13	2
6784		LEAR	08 23 0015	S20 W61	08 18.3		B	CSO	110	9	13	2
6784		CULG	08 23 0100	S20 W61	08 18.4		B	CAO	300	11	14	3
6784		SVTO	08 23 0845	S20 W72	08 17.8		B	FAO	280	7	16	3
6784	26999	RAMY	08 23 1415	S19 W73	08 18.0		B	CAO	180	8	10	4
6784		MWIL	08 23 1440	S19 W74	08 18.0	5	(AP)					
6784		BOUL	08 23 1445	S19 W70	08 18.3		B	EAO	190	6	11	3
6784		HOLL	08 23 1530	S20 W67	08 18.5		B	CSO	150	6	10	3
6784		CULG	08 24 0022	S20 W80	08 17.9		A	HS	120	1	5	2
6784		LEAR	08 24 0055	S19 W76	08 18.2		A	HS	60	1	2	3
6784		PALE	08 24 0240	S20 W80	08 18.0		B	CAO	80	3	12	2
6784		SVTO	08 24 0700	S19 W86	08 17.7		A	HS	30	1	4	3
6780		SVTO	08 13 0715	N10 E74	08 18.9		B	BXO	30	6	5	3
6780		RAMY	08 13 1323	N09 E75	08 19.2		B	BXO	30	6	5	3
6780	26995	HOLL	08 13 1520	N10 E70	08 18.9		B	BXO	40	5	8	3
6780		MWIL	08 13 1630	N09 E71	08 19.0	4	(B )					
6780		PALE	08 13 1810	N09 E70	08 19.0		B	BXO	10	4	4	3
6780		LEAR	08 14 0023	N09 E65	08 18.9		B	BXO	20	7	8	3
6780		CULG	08 14 0050	N09 E66	08 19.0		B	BXO		3	3	2
6780		SVTO	08 14 0701	N10 E62	08 18.9		B	BXO	20	5	6	3
6780		RAMY	08 14 1425	N08 E55	08 18.7		A	AX	10	1	1	2
6780		BOUL	08 14 1512	N09 E54	08 18.7		A	AX	10	1	1	3
6780	26995	HOLL	08 14 1930	N08 E54	08 18.9		A	AX	10	2	2	2
6780		MWIL	08 14 2015	N08 E53	08 18.8	4	(AP)					
6780		PALE	08 14 2230	N08 E53	08 18.9		A	AX	10	2	2	2
6780		CULG	08 15 0050	N09 E50	08 18.8		B	BXO		2	2	3
6780		LEAR	08 15 0135	N09 E49	08 18.7		B	BXO	10	2	3	2
6780		SVTO	08 15 0835	N07 E45	08 18.7		B	BXO	20	2	2	2
6780		RAMY	08 15 1224	N08 E42	08 18.7		B	BXO	10	4	3	3
6780		HOLL	08 15 1506	N08 E42	08 18.8		A	AX	10	2	2	2
6780		PALE	08 15 1945	N08 E42	08 19.0		A	AX	10	2	2	3
6780		LEAR	08 16 0009	N08 E36	08 18.7		A	AX	10	1	1	3
6780		SVTO	08 16 0710	N08 E32	08 18.7		B	CSO	20	2	2	3
6780		RAMY	08 16 1219	N08 E30	08 18.8		B	BXO	10	4	5	3
6780		HOLL	08 16 1545	N08 E27	08 18.7		A	AX	10	2	1	2
6780		BOUL	08 16 1625	N08 E25	08 18.5		A	AX		1		3
6780		PALE	08 16 2200	N08 E28	08 19.0		A	AX	10	2	1	3
6780		LEAR	08 17 0037	N07 E22	08 18.7		A	AX	10	1	1	4
6780		CULG	08 17 0115	N09 E20	08 18.5		B	BXO		2	2	3
6780		SVTO	08 17 0659	N07 E18	08 18.6		A	AX		2	1	4
6780		RAMY	08 17 1224	N07 E12	08 18.4		B	BXO	10	3	4	4
6780		BOUL	08 17 1445	N07 E13	08 18.6		A	AX		1		3
6780A		BOUL	08 17 1445	S09 E12	08 18.5		B	BXO	10	4	2	3
6780C		RAMY	08 17 1224	N11 E22	08 19.2		A	AX	10	4	2	4
6780C		PALE	08 17 1939	N11 E18	08 19.2		A	AX		2	1	3
6780C		RAMY	08 18 1220	N12 E09	08 19.2		B	BXO	10	4	3	4
6781		SVTO	08 13 0715	S18 E78	08 19.2		A	HA	60	1	2	3
6781		RAMY	08 13 1323	S19 E79	08 19.6		B	EAO	110	6	11	3
6781	26996	HOLL	08 13 1520	S18 E77	08 19.5		B	CSO	90	4	11	3
6781		MWIL	08 13 1630	S18 E75	08 19.4	5	B					
6781		PALE	08 13 1810	S18 E76	08 19.5		B	DAO	120	3	9	3
6781		LEAR	08 14 0023	S16 E70	08 19.3		B	DAO	120	6	10	3
6781		CULG	08 14 0050	S18 E72	08 19.5		B	DAO	100	7	10	2
6781		SVTO	08 14 0701	S18 E68	08 19.5		B	DAO	140	8	8	3
6781		RAMY	08 14 1425	S18 E64	08 19.5		B	DAO	130	5	7	2
6781		BOUL	08 14 1512	S18 E62	08 19.3		B	DAO	170	4	8	3
6781	26996	HOLL	08 14 1930	S19 E61	08 19.5		B	DSO	170	9	10	2
6781		MWIL	08 14 2015	S18 E60	08 19.4	5	(B )					
6781		PALE	08 14 2230	S18 E61	08 19.6		B	DAO	140	12	9	2
6781		CULG	08 15 0050	S18 E58	08 19.4		B	DAO	60	9	9	3
6781		LEAR	08 15 0135	S20 E58	08 19.5		B	DSO	270	8	9	2
6781		SVTO	08 15 0835	S19 E55	08 19.5		B	DAO	130	9	8	2
6781		RAMY	08 15 1224	S18 E53	08 19.5		B	DAO	1070	15	9	3
6781		HOLL	08 15 1506	S18 E51	08 19.5		B	DAO	150	15	9	2
6781		PALE	08 15 1945	S19 E52	08 19.8		B	DAO	140	9	10	3



SUNSPOT GROUPS  
(Ordered by Central Meridian Passage Date)

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6781		LEAR	08 16 0009	S18	E46	08 19.5		B	CSO	50	7	7	3
6781		SVTO	08 16 0710	S18	E43	08 19.6		B	DAO	210	12	10	3
6781		RAMY	08 16 1219	S18	E38	08 19.4		B	DAI	200	33	9	3
6781		HOLL	08 16 1545	S18	E38	08 19.5		B	DSI	220	33	10	2
6781		BOUL	08 16 1625	S19	E36	08 19.4		B	CSO	80	8	9	3
6781		PALE	08 16 2200	S19	E38	08 19.8		B	DAO	70	11	9	3
6781		LEAR	08 17 0037	S19	E31	08 19.4		B	CSO	70	7	8	4
6781		CULG	08 17 0115	S18	E33	08 19.6		B	DSO	140	14	8	3
6781		SVTO	08 17 0659	S19	E30	08 19.6		B	DSO	100	7	7	4
6781		RAMY	08 17 1224	S19	E26	08 19.5		B	DAO	90	17	8	4
6781		BOUL	08 17 1445	S17	E25	08 19.5		B	DKI	380	30	9	3
6781		HOLL	08 17 1745	S17	E23	08 19.5		B	DAI	230	47	9	2
6781	26996	MWIL	08 17 1800	S16	E23	08 19.5	5	(B )					
6781		PALE	08 17 1939	S17	E23	08 19.6		B	DAI	370	52	8	3
6781		CULG	08 18 0130	S17	E19	08 19.5		B	DKO	450	14	10	3
6781		LEAR	08 18 0132	S17	E20	08 19.6		B	DAI	410	30	10	2
6781		SVTO	08 18 0633	S17	E16	08 19.5		B	DAI	440	36	10	4
6781		RAMY	08 18 1220	S16	E13	08 19.5		B	EKI	480	75	11	4
6781	26996	MWIL	08 18 1430	S16	E11	08 19.4	5	(B )					
6781		BOUL	08 18 1450	S17	E11	08 19.4		B	DKI	400	31	10	4
6781		HOLL	08 18 1725	S16	E10	08 19.5		B	EKI	410	31	12	2
6781		PALE	08 18 2000	S16	E08	08 19.4		B	DAI	390	49	10	3
6781		CULG	08 19 0105	S19	E03	08 19.3		B	EAO	550	26	13	2
6781		SVTO	08 19 0820	S18	E02	08 19.5		B	EAI	380	46	12	3
6781		RAMY	08 19 1321	S17	E00	08 19.5		BG	EKI	450	23	15	3
6781		BOUL	08 19 1505	S16	W02	08 19.5		B	DKI	390	37	10	1
6781	26996	MWIL	08 19 1530	S16	W03	08 19.4	5	(BG)					
6781		HOLL	08 19 1825	S17	W05	08 19.4		BG	EAC	450	74	13	2
6781		PALE	08 19 1845	S17	W05	08 19.4		B	EAI	500	90	12	3
6781		LEAR	08 20 0011	S17	W06	08 19.5		B	EKC	580	46	12	3
6781		CULG	08 20 0100	S17	W08	08 19.4		B	EAI	440	54	11	3
6781		SVTO	08 20 0733	S18	W11	08 19.5		B	EKI	570	34	13	2
6781		RAMY	08 20 1340	S17	W14	08 19.5		B	EKC	690	55	12	4
6781	26996	MWIL	08 20 1530	S16	W16	08 19.4	5	(D )					
6781		HOLL	08 20 1600	S17	W16	08 19.4		B	EKI	820	84	12	4
6781		BOUL	08 20 1700	S16	W15	08 19.6		B	DKI	770	29	9	1
6781		PALE	08 20 2300	S17	W17	08 19.7		B	EKI	460	87	11	3
6781		CULG	08 21 0045	S18	W20	08 19.5		B	EKI	680	33	11	2
6781		LEAR	08 21 0128	S19	W19	08 19.6		B	EKI	1470	24	13	3
6781		SVTO	08 21 0701	S17	W25	08 19.4		B	EKI	790	47	12	3
6781		RAMY	08 21 1223	S16	W26	08 19.5		BG	EKC	670	92	11	4
6781		BOUL	08 21 1445	S16	W27	08 19.6		B	DKC	970	82	10	3
6781	26996	MWIL	08 21 1530	S16	W29	08 19.4	5	(D )					
6781		HOLL	08 21 1550	S17	W29	08 19.4		B	EKC	1200	88	12	3
6781		PALE	08 21 2315	S18	W30	08 19.7		B	EKI	980	85	11	2
6781		CULG	08 22 0125	S17	W34	08 19.5		BD	EKC	950	45	12	3
6781		LEAR	08 22 0138	S18	W31	08 19.7		BD	EKC	1760	29	14	4
6781		SVTO	08 22 0740	S18	W37	08 19.5		BD	EKI	700	96	12	3
6781		RAMY	08 22 1434	S16	W40	08 19.6		BG	EKC	920	69	13	3
6781		BOUL	08 22 1435	S16	W42	08 19.4		B	EKC	910	75	11	2
6781	26996	MWIL	08 22 1445	S17	W40	08 19.6	5	(D )					
6781		PALE	08 22 2018	S19	W44	08 19.5		B	EKI	930	75	12	3
6781		HOLL	08 22 2100	S18	W45	08 19.4		BD	FKC	1150	76	16	2
6781		LEAR	08 23 0015	S19	W46	08 19.5		BD	EKC	830	54	12	2
6781		CULG	08 23 0100	S17	W46	08 19.5		BD	EKC	1080	41	13	3
6781		SVTO	08 23 0845	S18	W53	08 19.3		BD	EKC	1670	27	13	3
6781		RAMY	08 23 1415	S19	W54	08 19.5		BGD	EKC	1310	74	12	4
6781	26996	MWIL	08 23 1440	S17	W54	08 19.5	5	(D )					
6781		BOUL	08 23 1445	S17	W54	08 19.5		B	EKC	1310	64	12	3
6781		HOLL	08 23 1530	S19	W55	08 19.4		BD	FKC	880	56	17	3
6781		CULG	08 24 0022	S17	W60	08 19.4		BD	EKI	1200	22	13	2
6781		LEAR	08 24 0055	S19	W60	08 19.4		BD	EKC	920	33	14	3
6781		PALE	08 24 0240	S19	W60	08 19.5		BD	EKC	970	41	15	2
6781		SVTO	08 24 0700	S18	W63	08 19.5		BD	EKI	830	33	13	3
6781		RAMY	08 24 1254	S18	W66	08 19.5		BGD	EKC	1390	18	13	3
6781	26996	MWIL	08 24 1440	S18	W68	08 19.4	5	(D )					
6781		BOUL	08 24 1450	S20	W63	08 19.8		B	EKC	1250	24	12	3
6781		HOLL	08 24 1725	S19	W70	08 19.4		BD	EKC	1260	44	11	2
6781		PALE	08 24 1931	S20	W67	08 19.7		BD	DKC	940	19	10	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6781		CULG	08 25 0030	S17 W72	08 19.5		BD	EKC	1300	14	14	3
6781		LEAR	08 25 0050	S18 W70	08 19.7		BD	CKC	1110	13	16	3
6781		SVTO	08 25 0903	S20 W78	08 19.4		BD	EKC	620	14	11	2
6781		RAMY	08 25 1310	S18 W77	08 19.7		BD	EKC	570	13	12	3
6781	26996	MWIL	08 25 1440	S19 W85	08 19.1	5	X					
6781		BOUL	08 25 1445	S17 W83	08 19.3		B	EKC	510	4	15	3
6781		HOLL	08 25 1540	S18 W86	08 19.1		BD	CKC	660	13	12	3
6781		PALE	08 25 1800	S20 W85	08 19.2		BD	DKC	510	9	10	3
6783	26997	MWIL	08 13 1630	S13 E75	08 19.3	4	(AF)					
6783		BOUL	08 14 1512	S13 E63	08 19.4		B	DAO	120	3	6	3
6783	26997	MWIL	08 14 2015	S14 E59	08 19.3	5	(B )					
6783		PALE	08 14 2230	S13 E62	08 19.6		B	CAO	60	5	4	2
6783		CULG	08 15 0050	S14 E59	08 19.5		B	DAO	100	9	7	3
6783		LEAR	08 15 0135	S13 E55	08 19.2		B	DSO	170	4	4	2
6783		RAMY	08 15 1224	S14 E52	08 19.4		B	DAO	100	13	6	3
6783		HOLL	08 15 1506	S13 E50	08 19.4		B	DAO	130	7	6	2
6783		PALE	08 15 1945	S15 E51	08 19.7		B	DAO	140	7	5	3
6783		LEAR	08 16 0009	S15 E47	08 19.6		B	DAO	210	16	7	3
6783		SVTO	08 16 0710	S13 E43	08 19.5		B	DAI	270	8	8	3
6783		RAMY	08 16 1219	S13 E39	08 19.4		B	DAO	140	9	7	3
6783		HOLL	08 16 1545	S13 E37	08 19.4		B	DAO	130	6	6	2
6783		BOUL	08 16 1625	S16 E37	08 19.5		B	DSI	280	18	9	3
6783		PALE	08 16 2200	S13 E37	08 19.7		B	DAO	140	15	7	3
6783		LEAR	08 17 0037	S15 E33	08 19.5		B	DAI	230	35	10	4
6783		CULG	08 17 0115	S14 E32	08 19.5		B	DAO	220	20	9	3
6783		SVTO	08 17 0659	S15 E29	08 19.5		B	DAC	500	36	9	4
6783		RAMY	08 17 1224	S16 E26	08 19.5		B	EAI	290	53	11	4
6782		SVTO	08 13 0715	S09 E81	08 19.4		A	HA	30	1	2	3
6782		RAMY	08 13 1323	S11 E84	08 19.9		B	EAO	90	3	11	3
6782		HOLL	08 13 1520	S10 E78	08 19.5		B	CSO	120	5	6	3
6782	26998	MWIL	08 13 1630	S10 E77	08 19.5	4	(BP)					
6782		PALE	08 13 1810	S09 E77	08 19.5		B	CAO	180	4	5	3
6782		LEAR	08 14 0023	S10 E71	08 19.3		B	CAO	150	5	9	3
6782		CULG	08 14 0050	S12 E71	08 19.4		B	CAO	100	8	6	2
6782		SVTO	08 14 0701	S12 E68	08 19.4		B	DAO	280	14	7	3
6782		RAMY	08 14 1425	S12 E65	08 19.5		B	DHI	390	10	7	2
6782		BOUL	08 14 1512	S10 E63	08 19.4		B	DAO	400	9	7	3
6782		HOLL	08 14 1930	S13 E63	08 19.6		B	DAI	590	17	8	2
6782	26998	MWIL	08 14 2015	S10 E60	08 19.3	5	(B )					
6782		PALE	08 14 2230	S10 E63	08 19.7		B	CAO	400	4	6	2
6782		CULG	08 15 0050	S10 E61	08 19.6		B	DAC	420	9	7	3
6782		LEAR	08 15 0135	S10 E57	08 19.3		B	DAO	200	2	4	2
6782		SVTO	08 15 0835	S10 E55	08 19.5		B	FKO	570	8	18	2
6782		RAMY	08 15 1224	S10 E53	08 19.5		B	DKI	440	18	8	3
6782		HOLL	08 15 1506	S10 E52	08 19.5		B	DAC	410	7	6	2
6782		PALE	08 15 1945	S10 E54	08 19.9		B	DAO	400	8	8	3
6782		LEAR	08 16 0009	S10 E48	08 19.6		B	DSO	450	14	8	3
6782		SVTO	08 16 0710	S11 E44	08 19.6		B	DKO	400	7	8	3
6782		RAMY	08 16 1219	S08 E41	08 19.6		B	DKO	490	20	9	3
6782		HOLL	08 16 1545	S08 E40	08 19.6		B	DHI	470	16	8	2
6782		BOUL	08 16 1625	S11 E37	08 19.5		B	DAI	450	13	8	3
6782		PALE	08 16 2200	S08 E39	08 19.8		B	DSO	350	10	10	3
6782		LEAR	08 17 0037	S09 E35	08 19.6		B	DKO	330	16	9	4
6782		CULG	08 17 0115	S09 E35	08 19.7		B	DKO	400	12	9	3
6782		SVTO	08 17 0659	S09 E31	08 19.6		B	DAI	520	16	8	4
6782		RAMY	08 17 1224	S10 E28	08 19.6		B	DKO	540	39	8	4
6782		BOUL	08 17 1445	S09 E26	08 19.6		B	DKI	410	13	7	3
6782		HOLL	08 17 1745	S09 E25	08 19.6		B	DAI	380	26	8	2
6782	26998	MWIL	08 17 1800	S11 E23	08 19.5	5	(B )					
6782		PALE	08 17 1939	S09 E25	08 19.7		B	DKI	390	24	7	3
6782		CULG	08 18 0130	S09 E21	08 19.6		B	DKO	440	20	10	3
6782		LEAR	08 18 0132	S09 E20	08 19.6		B	DKO	340	14	6	2
6782		SVTO	08 18 0633	S11 E17	08 19.5		B	DAI	550	27	9	4
6782		RAMY	08 18 1220	S10 E15	08 19.6		B	DKO	440	43	10	4
6782	26998	MWIL	08 18 1430	S11 E12	08 19.5	5	(B )					
6782		BOUL	08 18 1450	S10 E13	08 19.6		B	DKI	400	26	7	4
6782		HOLL	08 18 1725	S10 E11	08 19.5		B	DAI	360	21	8	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6782		PALE	08 18 2000	S10 E11	08 19.6		B	DAO	270	24	8	3
6782		CULG	08 19 0105	S10 E05	08 19.4		B	DKO	300	13	8	2
6782		SVTO	08 19 0820	S12 E04	08 19.6		B	DAI	360	31	9	3
6782		RAMY	08 19 1321	S11 E02	08 19.7		B	DKI	390	36	9	3
6782		BOUL	08 19 1505	S09 E01	08 19.7		B	DKI	330	20	9	1
6782	26998	MWIL	08 19 1530	S09 W01	08 19.6	6	(B)					
6782		HOLL	08 19 1825	S10 W01	08 19.7		B	DSC	350	29	8	2
6782		PALE	08 19 1845	S10 W02	08 19.6		B	DAI	360	33	8	3
6782		LEAR	08 20 0011	S10 W05	08 19.6		B	DKO	360	13	9	3
6782		CULG	08 20 0100	S09 W06	08 19.6		B	DKO	310	13	8	3
6782		SVTO	08 20 0733	S11 W08	08 19.7		B	DAI	380	21	8	2
6782		RAMY	08 20 1340	S10 W12	08 19.7		B	DHI	340	29	8	4
6782	26998	MWIL	08 20 1530	S09 W14	08 19.6	5	(D)					
6782		HOLL	08 20 1600	S10 W13	08 19.7		B	DAI	340	28	9	4
6782		BOUL	08 20 1700	S09 W14	08 19.6		B	DKO	310	9	8	1
6782		PALE	08 20 2300	S08 W16	08 19.7		B	DAI	150	14	5	3
6782		CULG	08 21 0045	S11 W20	08 19.5		B	DKO	340	10	7	2
6782		LEAR	08 21 0128	S09 W20	08 19.6		B	DKO	410	6	9	3
6782		SVTO	08 21 0701	S10 W22	08 19.6		B	DAO	330	12	8	3
6782		RAMY	08 21 1223	S10 W25	08 19.6		B	DKI	400	35	8	4
6782		BOUL	08 21 1445	S08 W26	08 19.7		B	DKO	360	23	6	3
6782	26998	MWIL	08 21 1530	S08 W27	08 19.6	5	(D)					
6782		HOLL	08 21 1550	S10 W27	08 19.6		B	DKI	360	23	8	3
6782		PALE	08 21 2315	S10 W28	08 19.9		B	DSO	240	13	8	2
6782		CULG	08 22 0125	S09 W32	08 19.6		B	DKO	360	11	9	3
6782		LEAR	08 22 0138	S10 W32	08 19.7		B	DKO	300	6	8	4
6782		SVTO	08 22 0740	S09 W36	08 19.6		B	DAO	220	26	8	3
6782		RAMY	08 22 1434	S10 W39	08 19.7		B	CKO	300	18	8	3
6782		BOUL	08 22 1435	S08 W39	08 19.7		B	DKO	340	12	7	2
6782	26998	MWIL	08 22 1445	S09 W40	08 19.6	5	(B)					
6782		PALE	08 22 2018	S10 W42	08 19.7		B	CKO	200	14	8	3
6782		HOLL	08 22 2100	S09 W43	08 19.6		B	CHO	310	16	9	2
6782		LEAR	08 23 0015	S10 W43	08 19.8		B	CSO	170	14	7	2
6782		CULG	08 23 0100	S09 W45	08 19.7		B	CAO	290	12	9	3
6782		SVTO	08 23 0845	S09 W51	08 19.5		B	CAO	180	6	8	3
6782		RAMY	08 23 1415	S09 W52	08 19.7		B	CAO	260	20	9	4
6782	26998	MWIL	08 23 1440	S09 W54	08 19.5	5	(BP)					
6782		BOUL	08 23 1445	S07 W52	08 19.7		B	CAO	220	12	8	3
6782		HOLL	08 23 1530	S08 W54	08 19.6		B	CSO	200	12	10	3
6782		CULG	08 24 0022	S09 W61	08 19.4		A	HS	180	1	2	2
6782		LEAR	08 24 0055	S09 W59	08 19.6		B	CAO	120	2	6	3
6782		PALE	08 24 0240	S10 W59	08 19.7		B	CAO	130	6	8	2
6782		SVTO	08 24 0700	S08 W65	08 19.4		A	HS	140	1	2	3
6782		RAMY	08 24 1254	S09 W66	08 19.6		B	CAO	160	4	4	3
6782	26998	MWIL	08 24 1440	S08 W69	08 19.4	5	(AP)					
6782		BOUL	08 24 1450	S09 W66	08 19.7		A	HA	130	3	3	3
6782		HOLL	08 24 1725	S09 W70	08 19.5		A	HA	170	1	2	2
6782		PALE	08 24 1931	S11 W69	08 19.6		A	HA	100	2	2	2
6782		CULG	08 25 0030	S09 W73	08 19.5		A	HK	60	1	2	3
6782		LEAR	08 25 0050	S08 W72	08 19.6		A	HA	120	1	3	3
6782		SVTO	08 25 0903	S09 W79	08 19.4		A	HA	80	1	2	2
6782		RAMY	08 25 1310	S08 W79	08 19.6		A	HS	60	1	3	3
6782	26998	MWIL	08 25 1440	S09 W85	08 19.2	5	AP					
6782		BOUL	08 25 1445	S08 W83	08 19.4		A	HS	50	1	3	3
6782		HOLL	08 25 1540	S09 W85	08 19.3		A	HS	60	1	2	3
6782		PALE	08 25 1800	S10 W86	08 19.3		A	HA	90	1	3	3
6783A		BOUL	08 16 1625	S06 E42	08 19.8		B	CSO	30	3	3	3
6795	27001	MWIL	08 17 1800	S13 E33	08 20.2	5	(AP)					
6795	27001	MWIL	08 18 1430	S12 E22	08 20.3	5	(AP)					
6795		BOUL	08 18 1450	S13 E22	08 20.3		A	HS	50	1	1	4
6795		PALE	08 18 2000	S13 E20	08 20.3		A	HA	70	2	2	3
6795		CULG	08 19 0105	S14 E16	08 20.2		A	HS	90	1	2	2
6795		SVTO	08 19 0820	S14 E12	08 20.2		B	CAO	80	2	3	3
6795		RAMY	08 19 1321	S12 E10	08 20.3		B	CAO	80	2	4	3
6795		BOUL	08 19 1505	S12 E09	08 20.3		B	CSO	40	2	2	1
6795	27001	MWIL	08 19 1530	S13 E08	08 20.2	5	(AP)					
6795		PALE	08 19 1845	S12 E08	08 20.4		B	CSO	60	5	3	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation			CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day	Time (UT)								
6795		LEAR	08	20	0011	S13 E04	08 20.3	B	CSO	40	3	3	3
6795		CULG	08	20	0100	S13 E03	08 20.3	B	CSO	40	3	3	3
6795		SVTO	08	20	0733	S12 E01	08 20.4	B	CSO	40	3	3	2
6795		RAMY	08	20	1340	S12 W04	08 20.3	A	HS	60	2	1	4
6795	27001	MWIL	08	20	1530	S13 W05	08 20.3	5	(AP)				
6795		HOLL	08	20	1600	S12 W05	08 20.3	A	HA	60	4	2	4
6795		BOUL	08	20	1700	S11 W05	08 20.3	A	HS	50	1	1	1
6795		PALE	08	20	2300	S12 W05	08 20.6	A	HA	40	4	2	3
6795		CULG	08	21	0045	S13 W08	08 20.4	A	HA	40	1	1	2
6795		LEAR	08	21	0128	S13 W11	08 20.2	A	HA	60	1	3	3
6795		SVTO	08	21	0701	S13 W13	08 20.3	B	CAO	40	4	4	3
6795		RAMY	08	21	1223	S12 W16	08 20.3	B	CAO	40	4	3	4
6795		BOUL	08	21	1445	S11 W16	08 20.4	B	DAO	50	5	4	3
6795	27001	MWIL	08	21	1530	S12 W17	08 20.4	5	(AP)				
6795		HOLL	08	21	1550	S13 W18	08 20.3	B	CSI	60	6	5	3
6795		PALE	08	21	2315	S13 W19	08 20.5	B	DSO	30	5	3	2
6795		CULG	08	22	0125	S12 W23	08 20.3	B	CSO	50	2	3	3
6795		LEAR	08	22	0138	S12 W24	08 20.2	B	DAO	70	2	4	4
6795		SVTO	08	22	0740	S13 W26	08 20.3	B	DAO	40	4	4	3
6795		RAMY	08	22	1434	S13 W26	08 20.6	B	CAO	10	6	3	3
6795		BOUL	08	22	1435	S11 W29	08 20.4	B	DAO	70	6	3	2
6795		HOLL	08	22	2100	S12 W33	08 20.4	B	CSO	30	5	3	2
6795		LEAR	08	23	0015	S13 W34	08 20.4	B	CSO	40	3	3	2
6795		CULG	08	23	0100	S12 W36	08 20.3	B	CSI	30	3	3	3
6795		SVTO	08	23	0845	S13 W42	08 20.2	A	HS	30	2	2	3
6795		RAMY	08	23	1415	S11 W43	08 20.3	A	HA	40	3	2	4
6795		BOUL	08	23	1445	S11 W43	08 20.4	B	CAO	40	3	2	3
6795		HOLL	08	23	1530	S12 W45	08 20.2	B	CSO	10	4	3	3
6795		CULG	08	24	0022	S12 W49	08 20.3	A	HS	30	1	2	2
6795		LEAR	08	24	0055	S13 W49	08 20.3	A	HS	30	1	2	3
6795		PALE	08	24	0240	S12 W50	08 20.3	A	HS	20	1	1	2
6795		SVTO	08	24	0700	S11 W51	08 20.4	A	HS	20	3	2	3
6795		RAMY	08	24	1254	S12 W56	08 20.3	A	HA	40	4	2	3
6795		BOUL	08	24	1450	S12 W54	08 20.5	A	HS	30	3	2	3
6795		HOLL	08	24	1725	S12 W59	08 20.3	A	HS	40	3	2	2
6795		PALE	08	24	1931	S14 W57	08 20.5	A	HS	20	1		2
6795		CULG	08	25	0030	S12 W62	08 20.3	A	AX		1	1	3
6786		BOUL	08	14	1512	S09 E80	08 20.6	A	AX	10	1	1	3
6786		HOLL	08	14	1930	S10 E79	08 20.7	A	AX	10	2	1	2
6786	27000	MWIL	08	14	2015	S09 E79	08 20.8	4	(AP)				
6786		PALE	08	14	2230	S09 E77	08 20.7	A	AX	20	1	1	2
6786		CULG	08	15	0050	S09 E74	08 20.6	A	HS	20	1	1	3
6786		LEAR	08	15	0135	S08 E75	08 20.7	A	HS	60	1	1	2
6786		SVTO	08	15	0835	S07 E75	08 21.0	A	HS	30	1	1	2
6786		RAMY	08	15	1224	S09 E69	08 20.7	B	DAO	60	11	7	3
6786		HOLL	08	15	1506	S09 E68	08 20.7	B	EAO	280	7	11	2
6786		PALE	08	15	1945	S09 E70	08 21.1	B	DAO	200	1	8	3
6786		LEAR	08	16	0009	S08 E62	08 20.6	B	DAO	320	15	9	3
6786		SVTO	08	16	0710	S10 E60	08 20.8	B	EAI	540	16	13	3
6786		RAMY	08	16	1219	S09 E53	08 20.5	BG	EKI	460	43	13	3
6786		HOLL	08	16	1545	S09 E55	08 20.8	B	EKI	420	33	13	2
6786		BOUL	08	16	1625	S09 E54	08 20.7	B	EAI	560	17	13	3
6786		PALE	08	16	2200	S08 E55	08 21.0	BG	EKI	380	17	12	3
6786		LEAR	08	17	0037	S10 E50	08 20.8	B	EKI	480	29	14	4
6786		CULG	08	17	0115	S09 E49	08 20.7	B	EKO	450	22	13	3
6786		SVTO	08	17	0659	S10 E46	08 20.7	BG	EKI	590	28	14	4
6786		RAMY	08	17	1224	S09 E42	08 20.7	B	EKI	500	49	14	4
6786		BOUL	08	17	1445	S11 E38	08 20.5	B	DHI	370	22	8	3
6786		HOLL	08	17	1745	S10 E40	08 20.7	BG	FHI	430	30	16	2
6786	27000	MWIL	08	17	1800	S08 E39	08 20.7	6	(BG)				
6786		PALE	08	17	1939	S10 E39	08 20.7	B	DKI	330	22	8	3
6786		CULG	08	18	0130	S09 E37	08 20.8	B	EAO	480	29	14	3
6786		LEAR	08	18	0132	S10 E35	08 20.7	B	EHI	430	26	15	2
6786		SVTO	08	18	0633	S10 E33	08 20.7	B	EKI	600	37	14	4
6786		RAMY	08	18	1220	S10 E31	08 20.8	B	EKI	580	68	14	4
6786	27000	MWIL	08	18	1430	S10 E28	08 20.7	5	(B )				
6786		BOUL	08	18	1450	S09 E28	08 20.7	B	EKC	360	27	12	4
6786		HOLL	08	18	1725	S10 E27	08 20.7	BD	FHI	470	32	16	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	Chp Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6786		PALE	08 18 2000	S09 E26	08 20.8		B	EKI	410	32	13	3
6786		CULG	08 19 0105	S09 E21	08 20.6		B	EKI	430	14	12	2
6786		SVTO	08 19 0820	S10 E17	08 20.6		B	EKI	360	35	13	3
6786		RAMY	08 19 1321	S09 E17	08 20.8		B	EKI	540	59	13	3
6786		BOUL	08 19 1505	S08 E16	08 20.8		B	EKC	410	23	13	1
6786	27000	MWIL	08 19 1530	S09 E14	08 20.7	6	(BG)					
6786		HOLL	08 19 1825	S10 E13	08 20.7		B	EHC	560	53	15	2
6786		PALE	08 19 1845	S07 E14	08 20.8		B	EKI	550	47	13	3
6786		LEAR	08 20 0011	S10 E11	08 20.8		B	EKC	510	32	13	3
6786		CULG	08 20 0100	S08 E10	08 20.8		B	EKC	460	32	13	3
6786		SVTO	08 20 0733	S08 E07	08 20.8		B	EKI	460	32	13	2
6786		RAMY	08 20 1340	S09 E03	08 20.8		B	EKC	450	36	12	4
6786	27000	MWIL	08 20 1530	S09 W00	08 20.6	6	(BG)					
6786		HOLL	08 20 1600	S08 E02	08 20.8		B	EKC	540	48	13	4
6786		BOUL	08 20 1700	S08 E02	08 20.8		B	EKI	520	29	12	1
6786		PALE	08 20 2300	S09 E02	08 21.1		B	EKI	320	45	13	3
6786		CULG	08 21 0045	S08 W03	08 20.8		B	EKI	460	22	12	2
6786		LEAR	08 21 0128	S10 W04	08 20.8		B	EKI	700	21	14	3
6786		SVTO	08 21 0701	S09 W07	08 20.8		B	EKI	470	29	13	3
6786		RAMY	08 21 1223	S09 W10	08 20.8		BG	EKI	480	48	12	4
6786		BOUL	08 21 1445	S07 W11	08 20.8		B	EKI	460	30	11	3
6786	27000	MWIL	08 21 1530	S08 W14	08 20.6	5	(BP)					
6786		HOLL	08 21 1550	S09 W12	08 20.7		B	EKI	500	55	13	3
6786		PALE	08 21 2315	S09 W14	08 20.9		B	EKI	450	40	11	2
6786		CULG	08 22 0125	S09 W16	08 20.8		B	EKI	520	18	9	3
6786		LEAR	08 22 0138	S09 W18	08 20.7		B	DKI	630	10	10	4
6786		SVTO	08 22 0740	S09 W22	08 20.7		B	CKO	300	22	8	3
6786		RAMY	08 22 1434	S09 W24	08 20.8		BG	EKI	410	25	12	3
6786		BOUL	08 22 1435	S07 W24	08 20.8		B	DKI	430	30	10	2
6786	27000	MWIL	08 22 1445	S09 W29	08 20.4	5	(BP)					
6786		PALE	08 22 2018	S09 W29	08 20.7		B	DKI	380	29	9	3
6786		HOLL	08 22 2100	S09 W29	08 20.7		B	DKI	330	22	9	2
6786		LEAR	08 23 0015	S10 W31	08 20.7		B	CKO	420	18	8	2
6786		CULG	08 23 0100	S09 W30	08 20.8		B	DKO	460	20	11	3
6786		SVTO	08 23 0845	S10 W39	08 20.4		B	CKO	380	5	8	3
6786		RAMY	08 23 1415	S10 W39	08 20.7		B	EKO	330	21	11	4
6786	27000	MWIL	08 23 1440	S09 W42	08 20.4	5	(BP)					
6786		BOUL	08 23 1445	S08 W36	08 20.9		B	CKI	320	25	11	3
6786		HOLL	08 23 1530	S09 W40	08 20.6		B	DKI	320	16	9	3
6786		CULG	08 24 0022	S09 W45	08 20.6		B	CKO	280	13	8	2
6786		LEAR	08 24 0055	S10 W45	08 20.6		B	CKO	220	12	7	3
6786		PALE	08 24 0240	S10 W45	08 20.7		B	EKO	350	21	11	2
6786		SVTO	08 24 0700	S09 W47	08 20.8		B	DKO	230	13	8	3
6786		RAMY	08 24 1254	S09 W51	08 20.7		B	DKO	360	9	10	3
6786	27000	MWIL	08 24 1440	S09 W55	08 20.5	5	(BP)					
6786		BOUL	08 24 1450	S09 W53	08 20.6		B	DKI	450	12	4	3
6786		HOLL	08 24 1725	S09 W53	08 20.7		B	DKI	360	17	10	2
6786		PALE	08 24 1931	S12 W54	08 20.7		B	DKO	300	14	8	2
6786		CULG	08 25 0030	S09 W59	08 20.6		B	CSO	210	5	4	3
6786		LEAR	08 25 0050	S09 W61	08 20.4		B	CKO	360	8	4	3
6786		SVTO	08 25 0903	S10 W66	08 20.4		B	DKI	180	11	4	2
6786		RAMY	08 25 1310	S09 W65	08 20.7		B	CAO	260	12	7	3
6786	27000	MWIL	08 25 1440	S09 W69	08 20.4	5	(AP)					
6786		BOUL	08 25 1445	S09 W65	08 20.7		B	DAI	180	9	4	3
6786		HOLL	08 25 1540	S08 W70	08 20.4		B	DAI	290	10	5	3
6786		PALE	08 25 1800	S10 W69	08 20.6		B	DAO	210	9	5	3
6786		CULG	08 26 0015	S11 W75	08 20.4		B	CSO	250	3	4	2
6786		LEAR	08 26 0055	S08 W71	08 20.7		B	CAO	150	5	4	3
6786		SVTO	08 26 0720	S08 W78	08 20.4		B	CAO	70	2	3	3
6786		RAMY	08 26 1248	S08 W85	08 20.2		B	CAO	100	5	6	4
6786		BOUL	08 26 1350	S09 W82	08 20.4		A	HS	60	2	2	1
6786		HOLL	08 26 1440	S09 W80	08 20.6		B	CSO	60	2	4	4
6786		PALE	08 26 1830	S09 W88	08 20.2		A	HA	120	1	3	3
6788A		BOUL	08 17 1445	S07 E47	08 21.1		B	DAO	80	4	3	3
6786B		CULG	08 17 0115	N10 E56	08 21.2		A	AX		1		3
6787		CULG	08 15 0050	S04 E83	08 21.2		A	HS	40	1	1	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6787		SVTO	08 15 0835	S04 E78	08 21.2		A	HA	60	1	2	2
6787		RAMY	08 15 1224	S03 E78	08 21.3		B	CAO	60	4	4	3
6787		HOLL	08 15 1506	S04 E76	08 21.3		B	CAO	60	3	5	2
6787		PALE	08 15 1945	S04 E75	08 21.4		A	HA	60	1	1	3
6787		LEAR	08 16 0009	S04 E69	08 21.2		B	CSO	80	3	4	3
6787		SVTO	08 16 0710	S05 E67	08 21.3		A	HA	100	2	3	3
6787		RAMY	08 16 1219	S03 E64	08 21.3		B	CAO	60	6	4	3
6787		HOLL	08 16 1545	S03 E62	08 21.3		B	CSI	80	4	3	2
6787		BOUL	08 16 1625	S03 E61	08 21.2		A	HS	90	2	3	3
6787		PALE	08 16 2200	S08 E63	08 21.6		B	DAO	170	7	5	3
6787		LEAR	08 17 0037	S04 E57	08 21.3		B	CSO	50	3	3	4
6787		CULG	08 17 0115	S04 E57	08 21.3		A	HA	80	2	2	3
6787		SVTO	08 17 0659	S04 E53	08 21.2		B	DAO	90	3	3	4
6787		RAMY	08 17 1224	S03 E54	08 21.5		B	CAO	80	8	10	4
6787		BOUL	08 17 1445	S03 E49	08 21.3		A	HS	70	2	2	3
6787		HOLL	08 17 1745	S05 E46	08 21.2		B	DAO	130	5	6	2
6787	27002	MWIL	08 17 1800	S04 E46	08 21.2	5	(AP)					
6787		PALE	08 17 1939	S06 E46	08 21.3		B	CAO	90	12	5	3
6787		CULG	08 18 0130	S04 E44	08 21.3		B	CSI	60	2	2	3
6787		LEAR	08 18 0132	S04 E43	08 21.3		B	CSO	60	3	3	2
6787		SVTO	08 18 0633	S04 E41	08 21.3		A	HA	50	2	1	4
6787		RAMY	08 18 1220	S03 E38	08 21.3		A	HA	70	4	2	4
6787	27002	MWIL	08 18 1430	S03 E36	08 21.3	5	(AP)					
6787		BOUL	08 18 1450	S03 E35	08 21.2		A	HS	50	2	2	4
6787		HOLL	08 18 1725	S03 E35	08 21.3		A	HS	70	6	3	2
6787		PALE	08 18 2000	S03 E33	08 21.3		A	HS	30	1	1	3
6787		CULG	08 19 0105	S05 E30	08 21.3		A	HS	20	1	1	2
6787		SVTO	08 19 0820	S04 E25	08 21.2		B	CSO	20	3	3	3
6787		RAMY	08 19 1321	S04 E23	08 21.3		B	CAO	40	6	3	3
6787		BOUL	08 19 1505	S02 E22	08 21.3		A	HS	30	2	1	1
6787	27002	MWIL	08 19 1530	S03 E22	08 21.3	5	(AP)					
6787		HOLL	08 19 1825	S03 E20	08 21.3		A	HS	30	1	1	2
6787		PALE	08 19 1845	S03 E21	08 21.3		A	HS	40	1	1	3
6787		LEAR	08 20 0011	S04 E17	08 21.3		A	HS	20	1	1	3
6787		CULG	08 20 0100	S04 E16	08 21.2		A	HS	20	1	1	3
6787		SVTO	08 20 0733	S03 E13	08 21.3		B	CSO	40	2	3	2
6787		RAMY	08 20 1340	S03 E09	08 21.2		A	HS	20	1	1	4
6787	27002	MWIL	08 20 1530	S03 E08	08 21.2	5	(BP)					
6787		HOLL	08 20 1600	S03 E08	08 21.3		B	CSO	50	3	4	4
6787		BOUL	08 20 1700	S02 E09	08 21.4		A	HS	30	1	1	1
6787		PALE	08 20 2300	S02 E08	08 21.5		B	CSO	30	3	4	3
6787		CULG	08 21 0045	S02 E05	08 21.4		A	HS	20	2	4	2
6787		LEAR	08 21 0128	S05 E03	08 21.3		B	CSO	50	2	4	3
6787		SVTO	08 21 0701	S03 E01	08 21.4		B	CSO	40	4	4	3
6787		RAMY	08 21 1223	S02 W02	08 21.4		B	CSO	40	3	4	4
6787		BOUL	08 21 1445	S03 W04	08 21.3		A	HS	40	1	1	3
6787	27002	MWIL	08 21 1530	S03 W04	08 21.3	5	(BP)					
6787		HOLL	08 21 1550	S03 W06	08 21.2		A	HS	40	1	2	3
6787		PALE	08 21 2315	S04 W08	08 21.4		A	HS	20	1	2	2
6787		CULG	08 22 0125	S03 W10	08 21.3		A	HS	30	1	2	3
6787		LEAR	08 22 0138	S03 W11	08 21.2		A	HS	40	1	1	4
6787		SVTO	08 22 0740	S03 W14	08 21.3		A	HA	30	2	2	3
6787		RAMY	08 22 1434	S03 W17	08 21.3		B	CSO	40	5	4	3
6787		BOUL	08 22 1435	N01 W16	08 21.4		B	CSO	30	4	3	2
6787	27002	MWIL	08 22 1445	S02 W18	08 21.3	5	(AP)					
6787		PALE	08 22 2018	S03 W20	08 21.3		B	CAO	20	4	2	3
6787		HOLL	08 22 2100	S03 W21	08 21.3		A	HS	20	2	1	2
6787		LEAR	08 23 0015	S04 W23	08 21.3		A	HS	20	1	2	2
6787		CULG	08 23 0100	S03 W23	08 21.3		A	HS	30	1	1	3
6787		SVTO	08 23 0845	S04 W28	08 21.3		A	HS	30	1	1	3
6787		RAMY	08 23 1415	S02 W31	08 21.3		B	CAO	20	2	3	4
6787	27002	MWIL	08 23 1440	S02 W31	08 21.3	4	(AP)					
6787		BOUL	08 23 1445	S02 W30	08 21.4		B	CSO	20	2	2	3
6787		HOLL	08 23 1530	S02 W32	08 21.2		B	CRO	20	3	4	3
6787		CULG	08 24 0022	S03 W36	08 21.3		A	HS	10	1	1	2
6787		LEAR	08 24 0055	S04 W37	08 21.3		A	AX	10	1	1	3
6787		PALE	08 24 0240	S03 W38	08 21.3		A	HS	10	1	1	2
6787		SVTO	08 24 0700	S04 W40	08 21.3		A	AX	10	1	1	3
6787		RAMY	08 24 1254	S03 W43	08 21.3		A	HS	30	1	1	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6787	27002	MWIL	08	24	1440	S03	W45	08 21.2	4	(AP)					
6787		BOUL	08	24	1450	S04	W44	08 21.3		A	HS	20	1	1	3
6787		HOLL	08	24	1725	S04	W47	08 21.2		A	HS	50	3	2	2
6787		PALE	08	24	1931	S05	W46	08 21.4		A	AX		1		2
6787		CULG	08	25	0030	S03	W51	08 21.2		A	HS	20	1	1	3
6787		LEAR	08	25	0050	S02	W50	08 21.3		A	AX		1	1	3
6787		SVTO	08	25	0903	S03	W55	08 21.3		A	HR	20	1	1	2
6787		RAMY	08	25	1310	S03	W57	08 21.3		A	HR	20	1	1	3
6787	27002	MWIL	08	25	1440	S02	W59	08 21.2	4	(AP)					
6787		BOUL	08	25	1445	S04	W57	08 21.3		A	HS	20	1	1	3
6787		HOLL	08	25	1540	S04	W59	08 21.2		A	HS	20	1	1	3
6787		PALE	08	25	1800	S05	W60	08 21.3		A	HS	20	1	1	3
6787		CULG	08	26	0015	S05	W65	08 21.1		A	AX	10	1	1	2
6787		LEAR	08	26	0055	S04	W64	08 21.2		A	AX	20	1	1	3
6787		SVTO	08	26	0720	S03	W67	08 21.3		A	AX	10	1		3
6787		RAMY	08	26	1248	S03	W71	08 21.2		A	AX	10	1	1	4
6787		BOUL	08	26	1350	S03	W70	08 21.3		A	AX		1		1
6787		HOLL	08	26	1440	S04	W71	08 21.3		A	AX	10	1	1	4
6788		RAMY	08	15	1224	S18	E81	08 21.7		A	HA	30	1	1	3
6788		HOLL	08	15	1506	S16	E79	08 21.6		B	CSO	60	3	9	2
6788		LEAR	08	16	0009	S15	E75	08 21.7		B	BXO	40	5	8	3
6788		SVTO	08	16	0710	S17	E73	08 21.8		B	CAO	70	4	12	3
6788		RAMY	08	16	1219	S17	E67	08 21.6		B	DAO	90	12	7	3
6788		HOLL	08	16	1545	S17	E68	08 21.8		B	DSO	90	6	8	2
6788		BOUL	08	16	1625	S15	E67	08 21.7		B	ESO	70	5	12	3
6788		PALE	08	16	2200	S17	E68	08 22.1		B	EAO	130	5	10	3
6788		LEAR	08	17	0037	S16	E63	08 21.8		B	DSO	90	10	10	4
6788		CULG	08	17	0115	S16	E63	08 21.8		B	DSO	110	8	10	3
6788		SVTO	08	17	0659	S16	E59	08 21.8		B	EAI	200	10	11	4
6788		RAMY	08	17	1224	S16	E52	08 21.5		B	DAO	130	23	10	4
6788		BOUL	08	17	1445	S16	E55	08 21.8		B	ESI	180	9	11	3
6788		HOLL	08	17	1745	S16	E52	08 21.7		B	DAO	120	14	12	2
6788	27005	MWIL	08	17	1800	S17	E53	08 21.8	5	(B)					
6788		PALE	08	17	1939	S16	E54	08 21.9		B	EAO	120	27	12	3
6788		CULG	08	18	0130	S16	E52	08 22.0		B	DSO	140	12	10	3
6788		LEAR	08	18	0132	S16	E50	08 21.8		B	DAO	140	16	10	2
6788		SVTO	08	18	0633	S16	E47	08 21.8		B	DAI	190	15	9	4
6788		RAMY	08	18	1220	S15	E42	08 21.7		B	DAO	120	29	10	4
6788	27005	MWIL	08	18	1430	S16	E41	08 21.7	4	(B)					
6788		BOUL	08	18	1450	S17	E42	08 21.8		B	ESI	80	8	11	4
6788		HOLL	08	18	1725	S16	E41	08 21.8		B	EAI	150	13	11	2
6788		PALE	08	18	2000	S16	E40	08 21.9		B	DSO	70	10	9	3
6788		CULG	08	19	0105	S18	E36	08 21.8		B	DSO	40	8	10	2
6788		SVTO	08	19	0820	S18	E32	08 21.8		B	DSO	80	9	12	3
6788		RAMY	08	19	1321	S16	E31	08 21.9		B	DSO	90	20	10	3
6788		BOUL	08	19	1505	S17	E28	08 21.7		B	DSO	100	5	8	1
6788	27005	MWIL	08	19	1530	S16	E28	08 21.8	5	(B)					
6788		HOLL	08	19	1825	S18	E27	08 21.8		B	DSO	60	8	10	2
6788		PALE	08	19	1845	S18	E27	08 21.8		B	DSO	70	10	10	3
6788		LEAR	08	20	0011	S18	E25	08 21.9		B	BXO	20	7	10	3
6788		CULG	08	20	0100	S17	E23	08 21.8		B	CSO	20	7	10	3
6788		SVTO	08	20	0733	S17	E20	08 21.8		B	ESO	50	8	11	2
6788		RAMY	08	20	1340	S17	E15	08 21.7		B	CSO	40	8	10	4
6788	27005	MWIL	08	20	1530	S17	E16	08 21.9	5	(B)					
6788		HOLL	08	20	1600	S17	E16	08 21.9		B	CSO	30	8	10	4
6788		BOUL	08	20	1700	S17	E16	08 21.9		B	CAO	40	2	9	1
6788		PALE	08	20	2300	S18	E15	08 22.1		B	DSO	60	7	10	3
6788		CULG	08	21	0045	S15	E13	08 22.0		B	CAO	30	8	8	2
6788		LEAR	08	21	0128	S17	E09	08 21.7		B	DSO	40	2	10	3
6788		SVTO	08	21	0701	S18	E07	08 21.8		B	CSO	30	8	12	3
6788		RAMY	08	21	1223	S16	E04	08 21.8		B	CSO	20	20	8	4
6788		BOUL	08	21	1445	S15	E03	08 21.8		B	CSO	50	18	12	3
6788	27005	MWIL	08	21	1530	S17	W02	08 21.5	5	(B)					
6788		HOLL	08	21	1550	S19	E04	08 22.0		B	CSO	50	15	13	3
6788		PALE	08	21	2315	S18	W02	08 21.8		B	CSO	20	6	6	2
6788		CULG	08	22	0125	S17	W03	08 21.8		B	CSO	40	9	8	3
6788		LEAR	08	22	0138	S16	W07	08 21.5		B	DSO	60	3	4	4
6788		SVTO	08	22	0740	S17	W09	08 21.6		B	CAO	20	6	6	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
			Mo	Day (UT)									
6788		RAMY	08 22	1434	S15 W10	08 21.8		B	BXO	30	26	7	3
6788		BOUL	08 22	1435	S14 W12	08 21.7		B	CSO	40	16	7	2
6788	27005	MWIL	08 22	1445	S16 W14	08 21.5	4	(B )					
6788		PALE	08 22	2018	S16 W15	08 21.7		B	BXO	10	4	4	3
6788		HOLL	08 22	2100	S18 W17	08 21.6		B	CRO	20	4	9	2
6788		LEAR	08 23	0015	S18 W18	08 21.6		B	BXO	20	3	4	2
6788		CULG	08 23	0100	S16 W17	08 21.7		B	CSO	40	13	6	3
6788	27005	RAMY	08 23	1415	S14 W24	08 21.8		B	CRO	30	16	7	4
6788		MWIL	08 23	1440	S14 W27	08 21.6	4	(B )					
6788		BOUL	08 23	1445	S15 W27	08 21.6		A	HS	20	1	1	3
6788		HOLL	08 23	1530	S16 W29	08 21.4		A	AX	10	1	1	3
6788		CULG	08 24	0022	S16 W33	08 21.5		A	AX		1		2
6788		LEAR	08 24	0055	S17 W33	08 21.5		A	AX	10	1	1	3
6788		PALE	08 24	0240	S17 W36	08 21.4		A	AX	10	1	1	2
6788		SVTO	08 24	0700	S16 W37	08 21.5		A	AX		1		3
6796	27003	MWIL	08 17	1800	N09 E47	08 21.3	3	(B )					
6796	27003	MWIL	08 18	1430	N09 E32	08 21.0	3	(AP)					
6796		BOUL	08 18	1450	N09 E31	08 20.9		A	AX		1		4
6796		PALE	08 18	2000	N09 E29	08 21.0		A	AX		1		3
6796		SVTO	08 19	0820	N09 E27	08 21.4		B	BXO	10	3	3	3
6796		RAMY	08 19	1321	N09 E22	08 21.2		B	BXO	20	8	4	3
6796	27003	BOUL	08 19	1505	N09 E21	08 21.2		B	BXO		2	3	1
6796		MWIL	08 19	1530	N09 E22	08 21.3	4	(B )					
6796		HOLL	08 19	1825	N09 E21	08 21.3		B	BXO	20	5	3	2
6796		PALE	08 19	1845	N09 E21	08 21.3		B	BXO	10	8	6	3
6796		LEAR	08 20	0011	N08 E18	08 21.3		B	BXO	20	6	6	3
6796		CULG	08 20	0100	N09 E16	08 21.2		B	CRO	10	6	6	3
6796		SVTO	08 20	0733	N10 E14	08 21.4		B	CRO	20	8	7	2
6796	27003	RAMY	08 20	1340	N10 E09	08 21.2		B	BXO	10	8	1	4
6796		MWIL	08 20	1530	N10 E09	08 21.3	4	(BG)					
6796		HOLL	08 20	1600	N09 E09	08 21.3		B	BXO	10	7	4	4
6796		BOUL	08 20	1700	N09 E11	08 21.5		B	BXO		2	3	1
6796		PALE	08 20	2300	N09 E08	08 21.5		B	CSO	10	4	3	3
6796		SVTO	08 21	0701	N08 E03	08 21.5		B	BXO	10	3	4	3
6796		PALE	08 21	2315	N08 W11	08 21.1		A	AX	10	2	2	2
6796A		BOUL	08 18	1450	S13 E40	08 21.6		B	BXI	20	7	4	4
6785		SVTO	08 15	0835	N10 E85	08 21.7		A	HK	80	1	4	2
6785		RAMY	08 15	1224	N11 E83	08 21.8		A	HH	120	1	2	3
6785		HOLL	08 15	1506	N10 E86	08 22.1		A	HS	180	1	3	2
6785		PALE	08 15	1945	N11 E85	08 22.2		A	HA	140	1	1	3
6785		LEAR	08 16	0009	N11 E78	08 21.9		B	CSO	180	3	4	3
6785		SVTO	08 16	0710	N10 E75	08 21.9		B	CHO	230	3	8	3
6785		RAMY	08 16	1219	N11 E70	08 21.8		B	CHO	290	9	5	3
6785		HOLL	08 16	1545	N11 E70	08 21.9		B	CHO	270	5	9	2
6785		BOUL	08 16	1625	N12 E67	08 21.7		A	HK	220	2	3	3
6785		PALE	08 16	2200	N11 E70	08 22.2		B	CKO	230	3	4	3
6785		LEAR	08 17	0037	N11 E66	08 22.0		B	CHO	220	6	12	4
6785		CULG	08 17	0115	N11 E65	08 21.9		B	CAO	250	4	6	3
6785		SVTO	08 17	0659	N10 E59	08 21.7		B	CKO	300	6	13	4
6785		RAMY	08 17	1224	N10 E54	08 21.6		B	EKO	360	11	12	4
6785		BOUL	08 17	1445	N11 E56	08 21.8		B	DKO	280	3	6	3
6785	27006	HOLL	08 17	1745	N09 E51	08 21.6		B	DAO	240	7	15	2
6785		MWIL	08 17	1800	N11 E54	08 21.8	5	(AP)					
6785		PALE	08 17	1939	N09 E50	08 21.6		B	CKO	210	9	17	3
6785		CULG	08 18	0130	N11 E50	08 21.8		B	CAO	270	3	5	3
6785		LEAR	08 18	0132	N11 E53	08 22.0		B	CHO	240	2	6	2
6785		SVTO	08 18	0633	N10 E48	08 21.9		B	CKO	280	4	8	4
6785	27006	RAMY	08 18	1220	N10 E41	08 21.6		B	CKO	290	21	14	4
6785		MWIL	08 18	1430	N10 E44	08 21.9	5	(AP)					
6785		BOUL	08 18	1450	N11 E43	08 21.8		B	CHO	190	3	6	4
6785		HOLL	08 18	1725	N10 E42	08 21.9		B	CKO	260	5	6	2
6785		PALE	08 18	2000	N09 E43	08 22.1		B	CKO	210	7	7	3
6785		CULG	08 19	0105	N10 E37	08 21.8		B	CKO	250	5	7	2
6785		SVTO	08 19	0820	N10 E35	08 22.0		B	CKO	230	10	7	3
6785		RAMY	08 19	1321	N09 E32	08 21.9		B	CKO	180	12	9	3
6785		BOUL	08 19	1505	N11 E29	08 21.8		A	HA	140	4	2	1



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SUNSPOT GROUPS  
(Ordered by Central Meridian Passage Date)

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NOAA/ USAF Group	Mt Wilson Group	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6785	27006	MWIL	08	19	1530	N11	E29	08	21.8	5	(BP)					
6785		HOLL	08	19	1825	N10	E30	08	22.0		B	CHO	220	10	8	2
6785		PALE	08	19	1845	N10	E30	08	22.0		B	CKO	250	13	6	3
6785		LEAR	08	20	0011	N09	E27	08	22.0		B	CAO	150	6	7	3
6785		CULG	08	20	0100	N11	E25	08	21.9		B	CKO	150	12	7	3
6785		SVTO	08	20	0733	N11	E23	08	22.0		B	CKO	210	15	8	2
6785		RAMY	08	20	1340	N08	E18	08	21.9		B	CKO	190	22	8	4
6785	27006	MWIL	08	20	1530	N10	E17	08	21.9	5	(AP)					
6785		HOLL	08	20	1600	N09	E17	08	21.9		B	CAO	170	18	8	4
6785		BOUL	08	20	1700	N08	E19	08	22.1		B	BXO	10	4	3	1
6785		BOUL	08	20	1700	N11	E15	08	21.8		A	HA	130	4	2	1
6785		PALE	08	20	2300	N10	E18	08	22.3		B	CKO	210	5	7	3
6785		CULG	08	21	0045	N13	E12	08	21.9		B	CAO	200	12	5	2
6785		LEAR	08	21	0128	N09	E10	08	21.8		B	CHO	160	6	6	3
6785		SVTO	08	21	0701	N10	E08	08	21.9		B	CKO	180	13	7	3
6785		RAMY	08	21	1223	N10	E06	08	22.0		B	CKO	220	20	6	4
6785		BOUL	08	21	1445	N11	E04	08	21.9		B	CAO	150	10	4	3
6785	27006	MWIL	08	21	1530	N11	E03	08	21.9	5	(AP)					
6785		HOLL	08	21	1550	N10	E05	08	22.0		B	CKO	210	19	5	3
6785		PALE	08	21	2315	N09	E03	08	22.2		B	CAO	100	11	6	2
6785		CULG	08	22	0125	N11	W01	08	22.0		B	CKI	180	13	8	3
6785		LEAR	08	22	0138	N12	W03	08	21.8		B	CKO	170	15	4	4
6785		SVTO	08	22	0740	N07	W06	08	21.9		B	CAO	130	12	4	3
6785		RAMY	08	22	1434	N10	W08	08	22.0		B	CAO	110	8	4	3
6785		BOUL	08	22	1435	N11	W09	08	21.9		B	CAO	160	11	7	2
6785	27006	MWIL	08	22	1445	N10	W10	08	21.9	5	(AP)					
6785		PALE	08	22	2018	N11	W12	08	21.9		B	CAO	180	13	4	3
6785		HOLL	08	22	2100	N11	W13	08	21.9		A	HA	150	4	2	2
6785		LEAR	08	23	0015	N10	W15	08	21.9		A	HA	100	3	2	2
6785		CULG	08	23	0100	N10	W14	08	22.0		B	CKO	140	13	6	3
6785		SVTO	08	23	0845	N10	W21	08	21.8		A	HA	130	4	2	3
6785		RAMY	08	23	1415	N12	W22	08	21.9		B	CAO	170	23	9	4
6785	27006	MWIL	08	23	1440	N11	W22	08	21.9	5	(BP)					
6785		BOUL	08	23	1445	N13	W23	08	21.9		B	CAO	140	11	7	3
6785		HOLL	08	23	1530	N10	W22	08	22.0		B	CAO	150	10	6	3
6785		CULG	08	24	0022	N11	W27	08	22.0		B	CAO	100	5	4	2
6785		LEAR	08	24	0055	N10	W28	08	21.9		B	CAO	110	7	4	3
6785		PALE	08	24	0240	N09	W29	08	21.9		B	CAO	90	7	4	2
6785		SVTO	08	24	0700	N10	W30	08	22.0		B	CSO	110	6	5	3
6785		RAMY	08	24	1254	N10	W34	08	22.0		B	CAO	100	6	5	3
6785	27006	MWIL	08	24	1440	N11	W37	08	21.8	5	(AP)					
6785		BOUL	08	24	1450	N10	W34	08	22.1		B	CAO	130	5	5	3
6785		HOLL	08	24	1725	N10	W38	08	21.9		B	CAO	110	5	4	2
6785		PALE	08	24	1931	N09	W38	08	22.0		A	HA	100	2	2	2
6785		CULG	08	25	0030	N11	W42	08	21.9		A	HA	50	2	2	3
6785		LEAR	08	25	0050	N10	W41	08	21.9		B	CAO	90	5	5	3
6785		SVTO	08	25	0903	N10	W46	08	21.9		B	CAO	70	3	5	2
6785		RAMY	08	25	1310	N10	W47	08	22.0		B	CAO	90	4	4	3
6785	27006	MWIL	08	25	1440	N10	W49	08	21.9	5	(AP)					
6785		BOUL	08	25	1445	N10	W48	08	22.0		A	HA	90	3	2	3
6785		HOLL	08	25	1540	N10	W49	08	22.0		B	CAO	120	6	5	3
6785		PALE	08	25	1800	N09	W50	08	22.0		B	CAO	90	7	5	3
6785		CULG	08	26	0015	N08	W57	08	21.7		B	CSO	150	4	4	2
6785		LEAR	08	26	0055	N10	W55	08	21.9		A	HS	70	2	2	3
6785		SVTO	08	26	0720	N10	W59	08	21.9		A	HS	40	2	1	3
6785		RAMY	08	26	1248	N11	W62	08	21.9		A	HA	80	3	2	4
6785		BOUL	08	26	1350	N10	W62	08	21.9		B	CSO	80	3	2	1
6785		HOLL	08	26	1440	N11	W62	08	21.9		B	CSO	100	5	4	4
6785		PALE	08	26	1830	N09	W65	08	21.9		A	HA	80	3	2	3
6785	27006	MWIL	08	26	2445	N10	W68	08	21.9	5	AP					
6785		LEAR	08	27	0014	N10	W68	08	21.9		A	HS	100	2	3	3
6785		CULG	08	27	0045	N10	W72	08	21.6		A	HA	120	1	2	2
6785		SVTO	08	27	0835	N11	W73	08	21.9		A	HA	60	1	2	3
6785		RAMY	08	27	1310	N10	W72	08	22.1		B	CAO	140	5	5	3
6785		BOUL	08	27	1333	N11	W73	08	22.1		A	HS	120	2	2	1
6785		HOLL	08	27	1515	N10	W78	08	21.8		A	HS	120	2	2	3
6785	27006	MWIL	08	27	1515	N12	W78	08	21.7	5	(AP)					
6785		PALE	08	27	2045	N11	W81	08	21.8		A	HS	60	2	2	3
6785		CULG	08	27	2130	N10	W79	08	21.9		A	HS	60	1	2	1

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)		Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6785		LEAR	08 28	0006	N11 W80	08 22.0		A	HA	120	2	3	3
6785		SVTO	08 28	0725	N10 W87	08 21.8		A	HA	60	1	2	3
6794		PALE	08 18	2000	S12 E40	08 21.8		B	BXO	10	8	5	3
6794		CULG	08 19	0105	S13 E35	08 21.7		B	BXO	80	2	4	2
6794		SVTO	08 19	0820	S13 E32	08 21.8		B	BXO	10	8	5	3
6794		BOUL	08 19	1505	S12 E29	08 21.8		B	BXO	100	5	4	1
6794		HOLL	08 19	1825	S12 E28	08 21.9		B	BXO	20	4	3	2
6794		PALE	08 19	1845	S12 E27	08 21.8		B	BXO	10	7	6	3
6794		SVTO	08 20	0733	S12 E21	08 21.9		B	BXO	10	7	7	2
6794		PALE	08 20	2300	S12 E15	08 22.1		A	AX	20	5	2	3
6794		SVTO	08 21	0701	S13 E07	08 21.8		B	BXO	10	7	4	3
6794		PALE	08 21	2315	S12 E00	08 22.0		A	AX	10	2	2	2
6794		LEAR	08 22	0138	S13 W04	08 21.8		B	BXO	20	2	4	4
6794		SVTO	08 22	0740	S13 W04	08 22.0		B	CRO	20	5	7	3
6794		PALE	08 22	2018	S12 W05	08 22.5		A	AX		2		3
6794		HOLL	08 22	2100	S12 W15	08 21.7		B	BXO	10	4	3	2
6794		LEAR	08 23	0015	S14 W16	08 21.8		B	BXO	10	4	4	2
6794		RAMY	08 23	1415	S13 W25	08 21.7		B	BXO	30	15	6	4
6794		HOLL	08 23	1530	S13 W25	08 21.7		B	BXO	10	5	5	3
6790		SVTO	08 16	0710	N03 E77	08 22.0		A	HA	10	2	1	3
6790		RAMY	08 16	1219	N02 E74	08 22.0		B	DAO	110	6	7	3
6790		HOLL	08 16	1545	N02 E75	08 22.2		B	CAO	170	3	10	2
6790		BOUL	08 16	1625	N03 E72	08 22.1		B	DSO	160	2	7	3
6790		PALE	08 16	2200	N02 E75	08 22.5		B	CAO	80	2	5	3
6790		LEAR	08 17	0037	N03 E72	08 22.4		B	ESO	270	12	14	4
6790		CULG	08 17	0115	N02 E69	08 22.2		B	CSO	130	3	6	3
6790		SVTO	08 17	0659	N02 E70	08 22.5		B	FAI	360	7	16	4
6790		RAMY	08 17	1224	N02 E62	08 22.1		B	EAO	280	13	14	4
6790		BOUL	08 17	1445	N02 E59	08 22.0		B	DAO	180	4	6	3
6790		HOLL	08 17	1745	N02 E59	08 22.1		B	CAO	160	5	9	2
6790	27007	MWIL	08 17	1800	N02 E56	08 21.9	5	(BP)					
6790		PALE	08 17	1939	N02 E59	08 22.2		B	DAO	150	7	8	3
6790		CULG	08 18	0130	N02 E56	08 22.2		B	DSO	240	3	7	3
6790		LEAR	08 18	0132	N03 E54	08 22.1		B	CAO	200	5	8	2
6790		SVTO	08 18	0633	N02 E52	08 22.1		B	DAO	310	15	9	4
6790		RAMY	08 18	1220	N02 E47	08 22.0		B	DKO	250	16	9	4
6790	27007	MWIL	08 18	1430	N02 E44	08 21.9	6	(BP)					
6790		BOUL	08 18	1450	N02 E47	08 22.1		B	CSO	160	3	8	4
6790		HOLL	08 18	1725	N02 E45	08 22.1		B	CHO	280	8	9	2
6790		PALE	08 18	2000	N02 E44	08 22.1		B	CKO	250	12	10	3
6790		CULG	08 19	0105	N02 E37	08 21.8		B	DKO	290	4	9	2
6790		SVTO	08 19	0820	N03 E36	08 22.0		B	CKO	210	8	8	3
6790		RAMY	08 19	1321	N03 E33	08 22.0		B	CKO	250	12	10	3
6790		BOUL	08 19	1505	N04 E32	08 22.0		B	CAO	180	6	9	1
6790	27007	MWIL	08 19	1530	N03 E30	08 21.9	6	(BP)					
6790		HOLL	08 19	1825	N03 E30	08 22.0		B	CAO	220	12	8	2
6790		PALE	08 19	1845	N03 E31	08 22.1		B	CKO	230	7	9	3
6790		LEAR	08 20	0011	N02 E26	08 21.9		B	CKO	220	3	6	3
6790		CULG	08 20	0100	N03 E25	08 21.9		B	CKO	230	2	6	3
6790		SVTO	08 20	0733	N04 E24	08 22.1		B	CKO	220	13	9	2
6790		RAMY	08 20	1340	N02 E20	08 22.1		B	CKO	270	22	9	4
6790	27007	MWIL	08 20	1530	N03 E17	08 21.9	5	(BG)					
6790		HOLL	08 20	1600	N02 E19	08 22.1		B	CKO	260	11	8	4
6790		BOUL	08 20	1700	N04 E17	08 22.0		B	CAO	130	3	4	1
6790		PALE	08 20	2300	N03 E18	08 22.3		B	CKO	210	11	8	3
6790		CULG	08 21	0045	N05 E14	08 22.1		B	CKO	240	7	6	2
6790		LEAR	08 21	0128	N02 E12	08 21.9		B	DHO	260	9	8	3
6790		SVTO	08 21	0701	N03 E09	08 22.0		B	DKO	250	14	8	3
6790		RAMY	08 21	1223	N02 E07	08 22.0		B	CKO	240	15	9	4
6790		BOUL	08 21	1445	N04 E06	08 22.1		B	DKI	260	16	7	3
6790	27007	MWIL	08 21	1530	N03 E03	08 21.9	5	(BG)					
6790		HOLL	08 21	1550	N02 E05	08 22.0		BG	CHO	250	20	8	3
6790		PALE	08 21	2315	N03 E04	08 22.3		B	DKO	240	11	8	2
6790		CULG	08 22	0125	N03 E02	08 22.2		B	DSO	240	11	7	3
6790		LEAR	08 22	0138	N04 E00	08 22.1		B	CHO	270	10	10	4
6790		SVTO	08 22	0740	N03 W04	08 22.0		B	CAO	250	15	7	3
6790		RAMY	08 22	1434	N02 W07	08 22.1		B	CHO	210	9	6	3

SUNSPOT GROUPS  
(Ordered by Central Meridian Passage Date)

AUGUST 1991

NOAA/ USAF Group	Mt Wilson Group	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6790		BOUL	08	22	1435	N03	W08	08	22.0		B	CAO	150	10	6	2
6790	27007	MWIL	08	22	1445	N03	W09	08	21.9	5	(BG)					
6790		PALE	08	22	2018	N03	W05	08	22.5		B	BXO	200	5	5	3
6790		HOLL	08	22	2100	N02	W12	08	22.0		B	CHO	250	5	6	2
6790		LEAR	08	23	0015	N03	W11	08	22.2		B	CSO	180	9	10	2
6790		CULG	08	23	0100	N03	W14	08	22.0		B	CSO	220	10	6	3
6790		SVTO	08	23	0845	N03	W16	08	22.2		B	EAO	200	10	12	3
6790		RAMY	08	23	1415	N02	W22	08	21.9		B	CKO	210	5	6	4
6790	27007	MWIL	08	23	1440	N04	W21	08	22.0	5	(BG)					
6790		BOUL	08	23	1445	N03	W21	08	22.0		B	CSO	200	4	7	3
6790		HOLL	08	23	1530	N02	W23	08	21.9		B	CSO	170	3	5	3
6790		CULG	08	24	0022	N03	W27	08	22.0		A	HH	170	1	3	2
6790		LEAR	08	24	0055	N03	W28	08	21.9		A	HH	160	2	3	3
6790		PALE	08	24	0240	N03	W26	08	22.2		B	DSO	200	2	9	2
6790		SVTO	08	24	0700	N04	W27	08	22.3		B	CSO	180	2	9	3
6790		RAMY	08	24	1254	N03	W33	08	22.1		B	CHO	140	2	9	3
6790	27007	MWIL	08	24	1440	N03	W35	08	22.0	5	(AP)					
6790		BOUL	08	24	1450	N03	W35	08	22.0		A	HH	170	1	3	3
6790		HOLL	08	24	1725	N02	W39	08	21.8		A	HS	230	1	2	2
6790		PALE	08	24	1931	N01	W38	08	22.0		A	HS	100	1	2	2
6790		CULG	08	25	0030	N03	W42	08	21.9		A	HH	180	1	3	3
6790		SVTO	08	25	0903	N03	W46	08	21.9		A	HS	160	1	2	2
6790		RAMY	08	25	1310	N03	W48	08	22.0		A	HS	110	1	2	3
6790	27007	MWIL	08	25	1440	N02	W49	08	21.9	5	(AP)					
6790		BOUL	08	25	1445	N03	W48	08	22.0		A	HH	210	1	3	3
6790		HOLL	08	25	1540	N02	W50	08	21.9		A	HS	190	1	2	3
6790		PALE	08	25	1800	N01	W51	08	21.9		A	HS	200	1	3	3
6790		CULG	08	26	0015	N01	W48	08	22.4		A	HS	180	1	2	2
6790		LEAR	08	26	0055	N03	W53	08	22.1		B	CSO	140	1	4	3
6790		SVTO	08	26	0720	N03	W57	08	22.0		A	HS	110	1	2	3
6790		RAMY	08	26	1248	N03	W61	08	22.0		B	CAO	120	2	4	4
6790		BOUL	08	26	1350	N03	W60	08	22.1		B	CSO	190	2	5	1
6790		HOLL	08	26	1440	N03	W62	08	22.0		B	CSO	190	4	2	4
6790		PALE	08	26	1830	N01	W64	08	22.0		B	CAO	90	3	5	3
6790	27007	MWIL	08	26	2445	N02	W67	08	22.0	5	AP					
6790		LEAR	08	27	0014	N02	W69	08	21.8		A	HS	100	2	3	3
6790		CULG	08	27	0045	N03	W68	08	22.0		B	CSO	240	2	4	2
6790		SVTO	08	27	0835	N03	W72	08	22.0		A	HA	180	1	2	3
6790		RAMY	08	27	1310	N02	W76	08	21.9		A	HA	120	1	2	3
6790		BOUL	08	27	1333	N03	W74	08	22.0		A	HS	140	1	2	1
6790		HOLL	08	27	1515	N02	W78	08	21.8		A	HS	100	1	2	3
6790	27007	MWIL	08	27	1515	N03	W77	08	21.9	6	(AP)					
6790		PALE	08	27	2045	N01	W81	08	21.8		A	HS	80	2	2	3
6790		CULG	08	27	2130	N02	W78	08	22.1		A	HS	120	1	2	1
6790		LEAR	08	28	0006	N02	W78	08	22.2		A	HA	120	2	3	3
6790		SVTO	08	28	0725	N03	W86	08	21.9		A	HA	60	1	2	3
6789		RAMY	08	15	1224	S27	E86	08	22.2		A	HA	60	1	2	3
6789		HOLL	08	15	1506	S25	E79	08	21.7		A	HS	60	1	2	2
6789		LEAR	08	16	0009	S26	E74	08	21.7		A	HS	60	1	3	3
6789		SVTO	08	16	0710	S27	E70	08	21.7		A	HA	110	1	3	3
6789		RAMY	08	16	1219	S27	E67	08	21.7		A	HA	180	2	2	3
6789		HOLL	08	16	1545	S27	E66	08	21.8		B	HA	240	2	2	2
6789		BOUL	08	16	1625	S26	E65	08	21.7		A	HA	120	2	4	3
6789		PALE	08	16	2200	S27	E68	08	22.2		A	HA	80	2	2	3
6789		LEAR	08	17	0037	S26	E61	08	21.8		A	HS	160	2	2	4
6789		CULG	08	17	0115	S27	E60	08	21.7		B	CAO	130	3	3	3
6789		SVTO	08	17	0659	S27	E58	08	21.8		A	HA	180	2	2	4
6789		RAMY	08	17	1224	S25	E57	08	21.9		B	CAO	200	6	9	4
6789		BOUL	08	17	1445	S26	E55	08	21.9		A	HA	180	2	3	3
6789		HOLL	08	17	1745	S27	E55	08	22.0		B	CAO	150	4	10	2
6789	27004	MWIL	08	17	1800	S27	E53	08	21.9	5	(AP)					
6789		PALE	08	17	1939	S26	E54	08	22.0		A	HA	130	2	2	3
6789		CULG	08	18	0130	S27	E48	08	21.8		A	HA	150	2	2	3
6789		LEAR	08	18	0132	S26	E51	08	22.0		B	CAO	120	3	8	2
6789		SVTO	08	18	0633	S26	E45	08	21.8		A	HA	110	1	2	4
6789		RAMY	08	18	1220	S27	E45	08	22.0		B	CAO	130	9	10	4
6789	27004	MWIL	08	18	1430	S27	E42	08	21.9	5	(BP)					
6789		BOUL	08	18	1450	S26	E40	08	21.7		A	HS	100	2	2	4

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)		Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6789		HOLL	08 18	1725	S26	E39	08 21.7		A	HA	90	2	3	2
6789		PALE	08 18	2000	S28	E45	08 22.3		B	CAO	140	5	14	3
6789		CULG	08 19	0105	S28	E36	08 21.8		A	HS	120	1	2	2
6789		SVTO	08 19	0820	S28	E33	08 21.9		B	CSO	60	5	4	3
6789		RAMY	08 19	1321	S27	E33	08 22.1		B	CSO	110	9	11	3
6789		BOUL	08 19	1505	S26	E29	08 21.9		B	CSO	50	2	3	1
6789	27004	MWIL	08 19	1530	S27	E29	08 21.9	5	(AP)					
6789		HOLL	08 19	1825	S26	E27	08 21.9		B	CSO	130	2	3	2
6789		PALE	08 19	1845	S26	E28	08 21.9		B	CAO	130	4	4	3
6789		LEAR	08 20	0011	S27	E24	08 21.9		B	CSO	50	2	3	3
6789		CULG	08 20	0100	S26	E24	08 21.9		B	CSO	80	3	3	3
6789		SVTO	08 20	0733	S25	E22	08 22.0		B	DSO	80	6	5	2
6789		RAMY	08 20	1340	S26	E18	08 22.0		B	CSO	80	6	4	4
6789	27004	MWIL	08 20	1530	S27	E16	08 21.9	5	(AP)					
6789		HOLL	08 20	1600	S27	E17	08 22.0		B	CSO	110	5	4	4
6789		BOUL	08 20	1700	S26	E16	08 21.9		B	CSO	60	2	3	1
6789		PALE	08 20	2300	S27	E18	08 22.4		B	CSO	110	7	3	3
6789		CULG	08 21	0045	S25	E15	08 22.2		B	CSO	150	5	1	2
6789		LEAR	08 21	0128	S27	E12	08 22.0		B	CSO	110	3	4	3
6789		SVTO	08 21	0701	S27	E10	08 22.1		B	CSO	130	7	5	3
6789		RAMY	08 21	1223	S27	E07	08 22.1		B	CSO	110	10	4	4
6789		BOUL	08 21	1445	S26	E05	08 22.0		B	CAO	110	7	3	3
6789	27004	MWIL	08 21	1530	S27	E03	08 21.9	5	(BP)					
6789		HOLL	08 21	1550	S27	E05	08 22.0		B	CSO	130	12	4	3
6789		PALE	08 21	2315	S28	E03	08 22.2		B	CSO	70	3	3	2
6789		CULG	08 22	0125	S25	E02	08 22.2		B	CSI	110	4	3	3
6789		LEAR	08 22	0138	S26	W03	08 21.8		A	HS	80	1	2	4
6789		SVTO	08 22	0740	S26	W04	08 22.0		B	CAO	90	5	3	3
6789		RAMY	08 22	1434	S27	W07	08 22.1		B	CAO	50	8	3	3
6789		BOUL	08 22	1435	S25	W08	08 22.0		B	CAO	90	3	2	2
6789	27004	MWIL	08 22	1445	S27	W09	08 21.9	5	(AP)					
6789		PALE	08 22	2018	S28	W10	08 22.1		A	HS	50	1	1	3
6789		HOLL	08 22	2100	S26	W11	08 22.0		B	DSO	70	3	3	2
6789		LEAR	08 23	0015	S27	W12	08 22.1		A	HA	60	2	2	2
6789		CULG	08 23	0100	S27	W11	08 22.2		B	DSI	80	3	2	3
6789		RAMY	08 23	1415	S28	W19	08 22.1		B	CAO	100	16	6	4
6789	27004	MWIL	08 23	1440	S27	W20	08 22.0	5	(AP)					
6789		BOUL	08 23	1445	S24	W18	08 22.2		B	DAO	60	8	5	3
6789		HOLL	08 23	1530	S27	W20	08 22.1		B	CSO	50	6	5	3
6789		CULG	08 24	0022	S24	W27	08 21.9		B	CAI	50	3	2	2
6789		LEAR	08 24	0055	S26	W26	08 22.0		B	CSO	40	3	4	3
6789		PALE	08 24	0240	S26	W26	08 22.1		B	CAO	30	4	4	2
6789		SVTO	08 24	0700	S26	W27	08 22.2		B	CRO	30	5	4	3
6789		RAMY	08 24	1254	S26	W31	08 22.1		B	CSO	60	6	4	3
6789	27004	MWIL	08 24	1440	S26	W34	08 22.0	4	(AP)					
6789		BOUL	08 24	1450	S26	W33	08 22.0		B	CSO	50	3	3	3
6789		HOLL	08 24	1725	S25	W35	08 22.0		B	CSI	50	7	5	2
6789		PALE	08 24	1931	S27	W33	08 22.2		B	CAO	50	8	4	2
6789		CULG	08 25	0030	S27	W37	08 22.1		B	CSO	40	4	4	3
6789		LEAR	08 25	0050	S26	W38	08 22.1		B	CAO	30	3	4	3
6789		SVTO	08 25	0903	S25	W43	08 22.0		B	CSO	30	4	4	2
6789		RAMY	08 25	1310	S25	W45	08 22.1		B	CAO	30	5	4	3
6789	27004	MWIL	08 25	1440	S27	W48	08 21.9	5	(AP)					
6789		BOUL	08 25	1445	S26	W44	08 22.2		A	HS	30	2	2	3
6789		HOLL	08 25	1540	S25	W48	08 21.9		B	CAO	40	5	4	3
6789		PALE	08 25	1800	S27	W46	08 22.2		B	CAO	50	4	5	3
6789		CULG	08 26	0015	S28	W50	08 22.1		B	CAO	40	2	2	2
6789		LEAR	08 26	0055	S27	W51	08 22.1		B	CSO	20	2	4	3
6789		SVTO	08 26	0720	S26	W55	08 22.0		A	HS	20	2	2	3
6789		RAMY	08 26	1248	S27	W57	08 22.1		A	HA	20	1	2	4
6789		BOUL	08 26	1350	S27	W58	08 22.0		A	HS	30	1	1	1
6789		HOLL	08 26	1440	S29	W59	08 22.0		A	HR	20	1	1	4
6789		PALE	08 26	1830	S28	W61	08 22.0		A	HR	20	1	2	3
6789	27004	MWIL	08 26	2445	S27	W64	08 22.0	4	AP					
6789		LEAR	08 27	0014	S29	W67	08 21.7		A	AX	10	1	1	3
6789		CULG	08 27	0045	S25	W62	08 22.2		A	AX	10	1	1	2
6789A	27013	MWIL	08 18	1430	S03	E48	08 22.2	3	(AF)					

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NOAA/ USAF Group	Mt Wilson Group	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6794A		BOUL	08	19	1505	N09	E34	08	22.2		B	BXO		3	3	1
6804		CULG	08	23	0100	N07	W08	08	22.4		B	CSO	10	2	3	3
6804		RAMY	08	23	1415	N05	W13	08	22.6		B	DAO	30	13	4	4
6804		BOUL	08	23	1445	N06	W13	08	22.6		B	CAO	40	9	4	3
6804		HOLL	08	23	1530	N05	W15	08	22.5		B	BXO	20	10	3	3
6804		CULG	08	24	0022	N05	W19	08	22.6		B	CAO	30	5	5	2
6804		LEAR	08	24	0055	N04	W20	08	22.5		B	BXO	20	5	4	3
6804		BOUL	08	24	1450	N04	W28	08	22.5		A	AX		1		3
6804		HOLL	08	24	1725	N04	W32	08	22.3		A	AX	10	2	1	2
6792		CULG	08	17	0115	N01	E82	08	23.2		A	HS	60	1	2	3
6792		BOUL	08	17	1445	N02	E71	08	22.9		A	HS	60	1	2	3
6792		HOLL	08	17	1745	N01	E72	08	23.1		A	HS	60	1	2	2
6792	27009	MWIL	08	17	1800	N02	E70	08	23.0	4	(AP)					
6792		PALE	08	17	1939	N02	E71	08	23.1		A	HS	50	1	1	3
6792		CULG	08	18	0130	N02	E67	08	23.1		A	HS	60	1	2	3
6792		LEAR	08	18	0132	N03	E68	08	23.1		A	HS	50	1	2	2
6792		SVTO	08	18	0633	N02	E65	08	23.1		A	HS	90	1	1	4
6792		RAMY	08	18	1220	N02	E60	08	23.0		A	HA	80	1	2	4
6792	27009	MWIL	08	18	1430	N02	E60	08	23.1	5	(AP)					
6792		BOUL	08	18	1450	N02	E59	08	23.0		A	HS	60	1	1	4
6792		HOLL	08	18	1725	N02	E57	08	23.0		A	HS	60	1	2	2
6792		PALE	08	18	2000	N02	E58	08	23.2		A	HS	40	1	1	3
6792		CULG	08	19	0105	N01	E53	08	23.0		A	HS	70	1	2	2
6792		SVTO	08	19	0820	N02	E48	08	22.9		A	HS	60	1	2	3
6792		RAMY	08	19	1321	N03	E47	08	23.1		A	HA	80	1	2	3
6792		BOUL	08	19	1505	N03	E46	08	23.1		A	HS	60	1	2	1
6792	27009	MWIL	08	19	1530	N02	E46	08	23.1	5	(AP)					
6792		HOLL	08	19	1825	N02	E45	08	23.1		A	HS	80	1	1	2
6792		PALE	08	19	1845	N02	E45	08	23.1		A	HS	60	1	2	3
6792		LEAR	08	20	0011	N01	E41	08	23.1		A	HA	40	1	1	3
6792		CULG	08	20	0100	N03	E41	08	23.1		A	HS	50	1	1	3
6792		SVTO	08	20	0733	N04	E38	08	23.1		A	HS	50	1	2	2
6792		RAMY	08	20	1340	N02	E33	08	23.0		A	HS	40	2	1	4
6792	27009	MWIL	08	20	1530	N02	E32	08	23.0	5	(AP)					
6792		HOLL	08	20	1600	N02	E32	08	23.0		A	HS	80	1	2	4
6792		BOUL	08	20	1700	N03	E32	08	23.1		A	HS	40	1	1	1
6792		PALE	08	20	2300	N02	E32	08	23.3		A	HS	40	1	2	3
6792		CULG	08	21	0045	N06	E28	08	23.1		A	HS	90	1	1	2
6792		LEAR	08	21	0128	N01	E26	08	23.0		A	HS	40	1	1	3
6792		SVTO	08	21	0701	N02	E24	08	23.1		A	HS	60	1	2	3
6792		RAMY	08	21	1223	N02	E21	08	23.1		A	HS	40	2	2	4
6792		BOUL	08	21	1445	N03	E18	08	22.9		A	HS	40	1	1	3
6792	27009	MWIL	08	21	1530	N02	E19	08	23.1	5	(AP)					
6792		HOLL	08	21	1550	N01	E20	08	23.1		A	HS	70	1	2	3
6792		PALE	08	21	2315	N03	E18	08	23.3		A	HS	40	1	2	2
6792		CULG	08	22	0125	N02	E14	08	23.1		A	HS	40	1	2	3
6792		LEAR	08	22	0138	N02	E13	08	23.0		A	HS	60	1	1	4
6792		SVTO	08	22	0740	N02	E11	08	23.1		A	HA	50	2	2	3
6792		RAMY	08	22	1434	N02	E07	08	23.1		A	HS	40	1	2	3
6792		BOUL	08	22	1435	N03	E06	08	23.0		A	HS	70	1	2	2
6792	27009	MWIL	08	22	1445	N02	E06	08	23.1	5	(AP)					
6792		PALE	08	22	2018	N01	E03	08	23.1		A	HS	40	1	1	3
6792		HOLL	08	22	2100	N02	E05	08	23.2		B	CSO	70	3	4	2
6792		LEAR	08	23	0015	N02	E01	08	23.1		A	HS	50	2	2	2
6792		CULG	08	23	0100	N02	E01	08	23.1		A	HA	50	2	2	3
6792		SVTO	08	23	0845	N02	W04	08	23.1		A	HA	60	1	2	3
6792		RAMY	08	23	1415	N02	W06	08	23.1		B	CAO	70	8	3	4
6792	27009	MWIL	08	23	1440	N02	W08	08	23.0	5	(AP)					
6792		BOUL	08	23	1445	N03	W07	08	23.1		B	CAO	50	4	3	3
6792		HOLL	08	23	1530	N02	W07	08	23.1		B	CSO	80	5	3	3
6792		CULG	08	24	0022	N02	W12	08	23.1		B	CSO	40	3	4	2
6792		LEAR	08	24	0055	N02	W13	08	23.1		A	HS	40	1	2	3
6792		PALE	08	24	0240	N01	W13	08	23.1		A	HA	50	1	2	2
6792		SVTO	08	24	0700	N03	W16	08	23.1		A	HS	30	3	1	3
6792		RAMY	08	24	1254	N01	W20	08	23.0		A	HS	40	2	2	3
6792	27009	MWIL	08	24	1440	N02	W20	08	23.1	5	(AP)					
6792		BOUL	08	24	1450	N02	W20	08	23.1		A	HA	40	4	1	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6792		HOLL	08 24 1725	N01 W22	08 23.1		B	CAO	50	5	3	2
6792		PALE	08 24 1931	N00 W22	08 23.2		B	CAO	20	4	2	2
6792		CULG	08 25 0030	N02 W26	08 23.1		A	HS	30	1	1	3
6792		SVTO	08 25 0903	N02 W31	08 23.1		A	HA	20	2	2	2
6792		RAMY	08 25 1310	N02 W33	08 23.1		A	HS	10	2	1	3
6792	27009	MWIL	08 25 1440	N02 W34	08 23.1	4	(BP)					
6792		BOUL	08 25 1445	N02 W34	08 23.1		A	HA	30	2	1	3
6792		HOLL	08 25 1540	N01 W35	08 23.0		A	HS	40	2	1	3
6792		PALE	08 25 1800	N00 W37	08 23.0		B	CSO	30	5	4	3
6792		CULG	08 26 0015	N01 W40	08 23.0		A	BXO	10	2	1	2
6792		SVTO	08 26 0720	N02 W42	08 23.2		A	HS	20	2	1	3
6792		RAMY	08 26 1248	N02 W46	08 23.1		A	HA	10	2	2	4
6792		BOUL	08 26 1350	N02 W47	08 23.1		A	HS	30	1	1	1
6792		HOLL	08 26 1440	N02 W47	08 23.1		A	HR	10	2	1	4
6792		PALE	08 26 1830	N01 W50	08 23.0		A	HS	20	1	1	3
6792	27009	MWIL	08 26 2445	N02 W52	08 23.1	4	AP					
6792		LEAR	08 27 0014	N02 W53	08 23.0		A	AX		1	1	3
6792		CULG	08 27 0045	N02 W53	08 23.1		A	AX	10	1	1	2
6793	27008	MWIL	08 17 1800	N16 E69	08 23.0	4	(AP)					
6793		CULG	08 18 0130	N17 E67	08 23.1		B	BXO		2	2	3
6793		RAMY	08 18 1220	N18 E60	08 23.1		B	CAO	40	6	5	4
6793	27008	MWIL	08 18 1430	N16 E58	08 23.0	4	(AP)					
6793		BOUL	08 18 1450	N16 E57	08 22.9		A	HS	30	1	1	4
6793		HOLL	08 18 1725	N17 E58	08 23.1		B	CRO	40	4	5	2
6793		PALE	08 18 2000	N18 E57	08 23.2		B	CAO	50	5	5	3
6793		CULG	08 19 0105	N18 E52	08 23.0		B	CSO	40	3	5	2
6793		SVTO	08 19 0820	N17 E47	08 22.9		B	DAO	60	8	6	3
6793		RAMY	08 19 1321	N17 E47	08 23.1		B	CAO	60	12	7	3
6793		BOUL	08 19 1505	N18 E46	08 23.1		B	DSO	60	4	5	1
6793	27008	MWIL	08 19 1530	N17 E45	08 23.1	5	(B )					
6793		HOLL	08 19 1825	N18 E44	08 23.1		B	CSO	80	15	7	2
6793		PALE	08 19 1845	N18 E44	08 23.1		B	DAO	30	12	6	3
6793		LEAR	08 20 0011	N16 E40	08 23.0		B	CSO	30	7	6	3
6793		CULG	08 20 0100	N18 E39	08 23.0		B	CAO	60	7	6	3
6793		SVTO	08 20 0733	N19 E36	08 23.1		B	DAO	70	8	7	2
6793		RAMY	08 20 1340	N17 E33	08 23.1		B	DAO	20	7	7	4
6793	27008	MWIL	08 20 1530	N17 E33	08 23.1	5	(BP)					
6793		HOLL	08 20 1600	N17 E32	08 23.1		B	DAO	60	10	7	4
6793		BOUL	08 20 1700	N18 E31	08 23.1		B	CAO	80	4	6	1
6793		PALE	08 20 2300	N18 E32	08 23.4		B	DSO	60	10	6	3
6793		CULG	08 21 0045	N22 E25	08 22.9		B	CAO	50	6	5	2
6793		LEAR	08 21 0128	N18 E25	08 23.0		B	CAO	70	5	8	3
6793		SVTO	08 21 0701	N17 E23	08 23.0		B	DAO	100	10	7	3
6793		RAMY	08 21 1223	N18 E20	08 23.0		B	DAO	120	17	7	4
6793		BOUL	08 21 1445	N17 E19	08 23.0		B	DAO	140	14	6	3
6793	27008	MWIL	08 21 1530	N17 E19	08 23.1	5	(BG)					
6793		HOLL	08 21 1550	N18 E20	08 23.2		B	ESI	140	23	13	3
6793		PALE	08 21 2315	N17 E17	08 23.3		B	DAO	80	9	6	2
6793		CULG	08 22 0125	N18 E12	08 23.0		B	DAO	110	12	10	3
6793		LEAR	08 22 0138	N18 E14	08 23.1		B	DAO	150	4	7	4
6793		RAMY	08 22 1434	N17 E07	08 23.1		B	DSO	100	13	6	3
6793		BOUL	08 22 1435	N18 E04	08 22.9		B	DAO	150	17	8	2
6793	27008	MWIL	08 22 1445	N17 E06	08 23.1	5	(BG)					
6793		PALE	08 22 2018	N16 E03	08 23.1		B	DAO	80	6	5	3
6793		HOLL	08 22 2100	N18 E02	08 23.0		B	DSI	110	10	6	2
6793		LEAR	08 23 0015	N17 E01	08 23.1		B	DSO	70	10	6	2
6793		CULG	08 23 0100	N18 E01	08 23.1		B	DAO	90	14	6	3
6793		SVTO	08 23 0845	N16 W04	08 23.1		B	DAO	90	7	6	3
6793		RAMY	08 23 1415	N18 W07	08 23.1		B	DAO	80	24	7	4
6793	27008	MWIL	08 23 1440	N17 W08	08 23.0	5	(B )					
6793		BOUL	08 23 1445	N18 W07	08 23.1		B	DSO	80	20	6	3
6793		HOLL	08 23 1530	N18 W08	08 23.0		B	CSO	80	14	8	3
6793		CULG	08 24 0022	N18 W13	08 23.0		B	CSO	60	11	6	2
6793		LEAR	08 24 0055	N17 W13	08 23.0		B	CSO	70	9	7	3
6793		PALE	08 24 0240	N16 W13	08 23.1		B	CSO	50	13	7	2
6793		SVTO	08 24 0700	N17 W15	08 23.1		B	CSO	50	9	7	3
6793		RAMY	08 24 1254	N19 W18	08 23.2		B	CSO	40	6	6	3
6793	27008	MWIL	08 24 1440	N16 W21	08 23.0	5	(BP)					

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)	Lat Mo Day	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long- Extent (Deg)	Qual
6793		BOUL	08 24 1450	N16	W20	08 23.1		B	CAO	50	7	6	3
6793		HOLL	08 24 1725	N17	W22	08 23.0		B	CAO	70	7	7	2
6793		PALE	08 24 1931	N16	W22	08 23.1		B	CSO	60	11	6	2
6793		CULG	08 25 0030	N18	W29	08 22.8		A	HAO	20	2	1	3
6793		SVTO	08 25 0903	N15	W33	08 22.9		A	HA	20	3	2	2
6793		RAMY	08 25 1310	N16	W34	08 23.0		B	CSO	20	2	3	3
6793	27008	MWIL	08 25 1440	N16	W36	08 22.9	4	(AP)					
6793		BOUL	08 25 1445	N15	W36	08 22.9		B	CAO	40	3	2	3
6793		HOLL	08 25 1540	N15	W36	08 22.9		A	HA	40	3	3	3
6793		PALE	08 25 1800	N14	W37	08 22.9		A	HA	50	3	2	3
6793		CULG	08 26 0015	N13	W42	08 22.8		B	CAO	50	2	3	2
6793		SVTO	08 26 0720	N16	W45	08 22.9		A	HS	20	1	1	3
6793		RAMY	08 26 1248	N15	W47	08 23.0		B	CAO	20	4	3	4
6793		BOUL	08 26 1350	N16	W48	08 22.9		A	HS	30	1	1	1
6793		HOLL	08 26 1440	N16	W48	08 23.0		A	HS	30	2	1	4
6793		PALE	08 26 1830	N14	W51	08 22.9		A	HA	30	1	1	3
6793	27008	MWIL	08 26 2445	N16	W55	08 22.8	4	AP					
6793		LEAR	08 27 0014	N15	W56	08 22.8		B	BXO		2	3	3
6793		CULG	08 27 0045	N16	W57	08 22.7		A	HA	20	1	1	2
6793		SVTO	08 27 0835	N15	W59	08 22.9		A	HS	20	1	2	3
6793		RAMY	08 27 1310	N15	W61	08 22.9		A	HA	20	1	1	3
6793		BOUL	08 27 1333	N16	W60	08 23.0		A	HS	20	1	1	1
6793		HOLL	08 27 1515	N16	W63	08 22.8		A	AX	10	1	1	3
6793	27008	MWIL	08 27 1515	N17	W62	08 22.9	4	(AP)					
6793		PALE	08 27 2045	N15	W65	08 22.9		A	AX	10	2	2	3
6793		CULG	08 27 2130	N17	W68	08 22.7		A	AX	10	1	1	1
6793		LEAR	08 28 0006	N16	W67	08 22.9		A	AX		1	1	3
6804A		SVTO	08 18 0633	N07	E64	08 23.1		A	HR	40	2	1	4
6793A		CULG	08 23 0100	S27	E04	08 23.3		B	BXO	10	2	3	3
6791		LEAR	08 17 0037	N11	E80	08 23.0		A	HS	60	1	2	4
6791		SVTO	08 17 0659	N10	E81	08 23.4		A	HA	180	1	2	4
6791		RAMY	08 17 1224	N10	E76	08 23.2		B	DAO	170	4	6	4
6791		BOUL	08 17 1445	N11	E76	08 23.3		B	DSO	160	3	3	3
6791		HOLL	08 17 1745	N12	E75	08 23.4		B	CKO	150	4	8	2
6791	27010	MWIL	08 17 1800	N10	E75	08 23.4	5	(AF)					
6791		PALE	08 17 1939	N14	E72	08 23.3		B	CAO	140	4	5	3
6791		CULG	08 18 0130	N12	E69	08 23.3		B	CSO	120	3	4	3
6791		LEAR	08 18 0132	N13	E69	08 23.3		B	CHO	200	6	8	2
6791		SVTO	08 18 0633	N10	E68	08 23.4		B	DAO	220	7	5	4
6791		RAMY	08 18 1220	N11	E63	08 23.2		B	DAO	220	18	8	4
6791	27010	MWIL	08 18 1430	N10	E62	08 23.3	5	(BF)					
6791		BOUL	08 18 1450	N12	E62	08 23.3		B	DAI	230	10	6	4
6791		HOLL	08 18 1725	N12	E62	08 23.4		B	DAI	220	13	9	2
6791		PALE	08 18 2000	N12	E60	08 23.3		B	DAO	240	9	5	3
6791		CULG	08 19 0105	N08	E58	08 23.4		B	DAO	600	8	6	2
6791		SVTO	08 19 0820	N11	E52	08 23.2		B	DKO	380	14	8	3
6791		RAMY	08 19 1321	N12	E52	08 23.5		GD	DKI	350	20	8	3
6791		BOUL	08 19 1505	N12	E51	08 23.5		B	DKI	290	8	8	1
6791	27010	MWIL	08 19 1530	N12	E49	08 23.3	5	(D)					
6791		HOLL	08 19 1825	N11	E49	08 23.4		B	DAC	460	16	8	2
6791		PALE	08 19 1845	N12	E49	08 23.5		B	DAI	350	16	7	3
6791		LEAR	08 20 0011	N11	E44	08 23.3		B	DAI	220	15	6	3
6791		CULG	08 20 0100	N12	E44	08 23.3		B	DAI	300	15	9	3
6791		SVTO	08 20 0733	N13	E41	08 23.4		B	DAI	270	20	9	2
6791		RAMY	08 20 1340	N11	E37	08 23.3		B	DKI	280	19	8	4
6791	27010	MWIL	08 20 1530	N12	E36	08 23.3	5	(D)					
6791		HOLL	08 20 1600	N12	E37	08 23.4		B	DAI	280	25	10	4
6791		BOUL	08 20 1700	N12	E36	08 23.4		B	DAI	280	9	6	1
6791		PALE	08 20 2300	N12	E37	08 23.7		B	DAI	270	36	8	3
6791		CULG	08 21 0045	N11	E30	08 23.3		B	DAI	240	24	6	2
6791		LEAR	08 21 0128	N10	E30	08 23.3		B	DAO	170	9	7	3
6791		SVTO	08 21 0701	N11	E27	08 23.3		B	DAI	230	19	8	3
6791		RAMY	08 21 1223	N12	E25	08 23.4		B	DAO	250	33	10	4
6791		BOUL	08 21 1445	N13	E23	08 23.4		B	DAO	290	26	9	3
6791	27010	MWIL	08 21 1530	N11	E23	08 23.4	5	(BG)					
6791		HOLL	08 21 1550	N11	E23	08 23.4		B	DSI	260	52	8	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6791		PALE	08 21 2315	N11 E22	08 23.6		B	DSO	160	15	8	2
6791		CULG	08 22 0125	N13 E18	08 23.4		B	ESO	240	28	14	3
6791		LEAR	08 22 0138	N11 E15	08 23.2		B	EAI	230	14	11	4
6791		SVTO	08 22 0740	N12 E17	08 23.6		B	ESI	230	35	14	3
6791		RAMY	08 22 1434	N13 E11	08 23.4		B	DSI	230	33	9	3
6791		BOUL	08 22 1435	N13 E10	08 23.4		B	DAO	250	29	8	2
6791	27010	MWIL	08 22 1445	N10 E11	08 23.4	5	(BF)					
6791		PALE	08 22 2018	N11 E07	08 23.4		B	DSI	200	18	8	3
6791		HOLL	08 22 2100	N11 E08	08 23.5		BG	DSI	300	24	8	2
6791		LEAR	08 23 0015	N12 E05	08 23.4		B	DSO	180	15	7	2
6791		CULG	08 23 0100	N12 E05	08 23.4		B	EAO	220	22	14	3
6791		RAMY	08 23 1415	N11 W02	08 23.4		B	DAO	210	38	10	4
6791	27010	MWIL	08 23 1440	N11 W03	08 23.4	5	(BG)					
6791		BOUL	08 23 1445	N14 W04	08 23.3		B	DAO	210	30	10	3
6791		HOLL	08 23 1530	N12 W04	08 23.3		B	DSI	180	21	8	3
6791		CULG	08 24 0022	N12 W08	08 23.4		B	ESO	210	23	13	2
6791		LEAR	08 24 0055	N10 W09	08 23.4		B	DSO	200	28	9	3
6791		PALE	08 24 0240	N12 W09	08 23.4		B	DSO	170	19	8	2
6791		SVTO	08 24 0700	N09 W07	08 23.8		B	DSO	150	12	10	3
6791		RAMY	08 24 1254	N12 W15	08 23.4		B	DSO	120	16	8	3
6791	27010	MWIL	08 24 1440	N11 W17	08 23.3	5	(BF)					
6791		BOUL	08 24 1450	N10 W15	08 23.5		B	CSO	150	16	8	3
6791		HOLL	08 24 1725	N12 W19	08 23.3		B	CSI	190	18	9	2
6791		PALE	08 24 1931	N11 W18	08 23.4		B	CSO	120	15	8	2
6791		CULG	08 25 0030	N12 W22	08 23.4		B	CSO	210	7	7	3
6791		LEAR	08 25 0050	N09 W20	08 23.5		B	CKO	150	9	10	3
6791		SVTO	08 25 0903	N10 W25	08 23.5		B	CAO	120	5	11	2
6791		RAMY	08 25 1310	N11 W30	08 23.3		B	CSO	80	8	7	3
6791	27010	MWIL	08 25 1440	N10 W29	08 23.4	5	(BF)					
6791		BOUL	08 25 1445	N11 W30	08 23.3		B	DSO	140	5	7	3
6791		HOLL	08 25 1540	N10 W32	08 23.2		B	CSO	170	9	8	3
6791		PALE	08 25 1800	N09 W29	08 23.6		B	CSO	130	5	4	3
6791		CULG	08 26 0015	N08 W32	08 23.6		B	CSO	130	4	12	2
6791		SVTO	08 26 0720	N09 W35	08 23.7		B	CSO	130	8	7	3
6791		RAMY	08 26 1248	N09 W39	08 23.6		B	CSO	100	6	4	4
6791		BOUL	08 26 1350	N10 W40	08 23.6		B	CSO	100	3	3	1
6791		HOLL	08 26 1440	N10 W40	08 23.6		B	CSO	80	7	4	4
6791		PALE	08 26 1830	N09 W42	08 23.6		B	CSO	120	1	4	3
6791	27010	MWIL	08 26 2445	N09 W46	08 23.6	5	BP+					
6791		LEAR	08 27 0014	N09 W46	08 23.5		B	CAO	110	3	5	3
6791		CULG	08 27 0045	N09 W47	08 23.5		B	CSO	150	2	6	2
6791		SVTO	08 27 0835	N09 W48	08 23.7		B	CSO	90	2	6	3
6791		RAMY	08 27 1310	N09 W53	08 23.6		A	HS	100	1	2	3
6791		BOUL	08 27 1333	N10 W51	08 23.7		A	HS	120	2	2	1
6791	27010	MWIL	08 27 1515	N10 W53	08 23.6	5	(BP)					
6791		HOLL	08 27 1515	N10 W57	08 23.3		A	HS	120	2	2	3
6791		PALE	08 27 2045	N09 W56	08 23.7		B	CSO	40	3	3	3
6791		CULG	08 27 2130	N09 W59	08 23.5		A	HS	40	1	2	1
6791		LEAR	08 28 0006	N09 W58	08 23.6		B	CAO	110	3	5	3
6791		SVTO	08 28 0725	N08 W64	08 23.5		B	CSO	80	2	6	3
6791		BOUL	08 28 1352	N10 W67	08 23.5		A	HS	100	1	2	2
6791	27010	MWIL	08 28 1500	N10 W68	08 23.5	5	(AF)					
6791		HOLL	08 28 1520	N09 W70	08 23.4		A	HS	140	1	2	3
6791		PALE	08 28 1935	N09 W72	08 23.4		A	HS	60	1	2	3
6791		LEAR	08 29 0015	N10 W71	08 23.7		A	HS	50	1	1	2
6791		CULG	08 29 0045	N09 W71	08 23.7		A	HS	110	1	2	3
6791		SVTO	08 29 0804	N10 W79	08 23.4		A	HA	120	1	2	3
6791		RAMY	08 29 1410	N09 W83	08 23.4		A	HA	60	1	2	3
6791		BOUL	08 29 1425	N11 W80	08 23.6		A	HA	120	1	3	3
6791	27010	MWIL	08 29 1500	N10 W80	08 23.6	5	(AF)					
6791		HOLL	08 29 2040	N09 W86	08 23.4		A	HS	60	1	2	4
6802A		LEAR	08 23 0015	S27 E07	08 23.5		B	BXO	10	2	3	2
6801		SVTO	08 21 0701	N14 E32	08 23.7		B	BXO	10	3	3	3
6801		RAMY	08 21 1223	N09 E33	08 24.0		B	BXO	10	5	3	4
6801		BOUL	08 21 1445	N11 E31	08 23.9		B	CAO	50	6	3	3
6801	27016	MWIL	08 21 1530	N09 E31	08 24.0	5	(B)					
6801		HOLL	08 21 1550	N09 E32	08 24.1		B	BXO	20	11	3	3



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SUNSPOT GROUPS  
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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6801		PALE	08 21 2315	N10 E29	08 24.1		B	CAO	40	3	4	2
6801		LEAR	08 22 0138	N09 E25	08 23.9		B	CSO	30	3	4	4
6801		SVTO	08 22 0740	N14 E18	08 23.7		B	BXO		3	2	3
6801		RAMY	08 22 1434	N09 E18	08 23.9		B	CSO	40	9	4	3
6801		BOUL	08 22 1435	N10 E17	08 23.9		B	CAO	40	7	5	2
6801	27016	MWIL	08 22 1445	N09 E17	08 23.9	5	(BP)					
6801		PALE	08 22 2018	N09 E15	08 24.0		B	DAO	40	4	4	3
6801		HOLL	08 22 2100	N10 E15	08 24.0		B	DSO	70	6	6	2
6801		LEAR	08 23 0015	N08 E13	08 24.0		B	CSO	30	4	4	2
6801		RAMY	08 23 1415	N09 E05	08 24.0		B	CAO	70	23	8	4
6801	27016	MWIL	08 23 1440	N09 E03	08 23.8	4	(BG)					
6801		BOUL	08 23 1445	N10 E03	08 23.8		B	CAO	40	8	4	3
6801		HOLL	08 23 1530	N09 E03	08 23.9		B	CSO	50	17	7	3
6801		LEAR	08 24 0055	N08 W01	08 24.0		B	CSO	30	5	4	3
6801		PALE	08 24 0240	N09 W03	08 23.9		B	CSO	30	8	6	2
6801		RAMY	08 24 1254	N08 W09	08 23.9		B	CAO	30	11	5	3
6801	27016	MWIL	08 24 1440	N08 W10	08 23.9	4	(BF)					
6801		BOUL	08 24 1450	N08 W10	08 23.9		A	HS	20	1	1	3
6801		HOLL	08 24 1725	N08 W12	08 23.8		B	CSO	20	8	3	2
6801		PALE	08 24 1931	N07 W14	08 23.8		B	CSO	20	4	3	2
6801		RAMY	08 25 1310	N08 W22	08 23.9		B	CSO	10	2	3	3
6801	27016	MWIL	08 25 1440	N08 W23	08 23.9	4	(AP)					
6801		BOUL	08 25 1445	N08 W23	08 23.9		A	HS	10	1	1	3
6801		HOLL	08 25 1540	N08 W24	08 23.8		A	AX	10	2	1	3
6801		PALE	08 25 1800	N08 W25	08 23.9		A	HR	10	1	1	3
6801		RAMY	08 26 1248	N08 W35	08 23.9		A	HR	20	1	1	4
6801		BOUL	08 26 1350	N09 W36	08 23.9		A	HS	20	1	1	1
6801		HOLL	08 26 1440	N09 W36	08 23.9		A	AX	10	1	1	4
6801		PALE	08 26 1830	N08 W39	08 23.8		A	R	10	1	1	3
6801		RAMY	08 27 1310	N08 W49	08 23.9		A	AX		1	1	3
6801		HOLL	08 27 1515	N09 W50	08 23.9		A	AX	10	2	2	3
6801		PALE	08 27 2045	N08 W54	08 23.8		A	AX	10	1	1	3
6801		RAMY	08 29 1410	N07 W72	08 24.2		A	AX	10	1	1	3
6801		HOLL	08 29 2040	N08 W75	08 24.2		B	BXO	10	3	5	4
6802		BOUL	08 22 1435	S20 E19	08 24.1		A	AX		1		2
6802	27018	MWIL	08 22 1445	S20 E19	08 24.1	4	(AP)					
6798		RAMY	08 19 1321	S08 E62	08 24.2		B	BXO	20	4	3	3
6798	27014	MWIL	08 19 1530	S09 E60	08 24.1	4	(B )					
6798		HOLL	08 19 1825	S09 E59	08 24.2		B	BXO	20	3	3	2
6798		PALE	08 19 1845	S09 E59	08 24.2		B	BXO	10	4	3	3
6798		LEAR	08 20 0011	S10 E55	08 24.1		B	BXO	30	1	4	3
6798		CULG	08 20 0100	S09 E56	08 24.2		B	BXO		4	4	3
6798		SVTO	08 20 0733	S08 E52	08 24.2		B	DRO	30	7	6	2
6798		RAMY	08 20 1340	S10 E48	08 24.2		B	BXO	10	5	5	4
6798	27014	MWIL	08 20 1530	S09 E47	08 24.2	4	(B )					
6798		HOLL	08 20 1600	S10 E48	08 24.3		B	BXO	10	3	3	4
6798		BOUL	08 20 1700	S09 E46	08 24.2		B	BXO	10	2	4	1
6798		PALE	08 20 2300	S11 E47	08 24.5		B	CSO	20	3	3	3
6798		CULG	08 21 0045	S09 E43	08 24.2		A	AX	10	1	1	2
6798		SVTO	08 21 0701	S09 E38	08 24.1		B	BXO	10	4	5	3
6798		RAMY	08 21 1223	S09 E36	08 24.2		B	BXO	10	9	3	4
6798		BOUL	08 21 1445	S09 E33	08 24.1		B	BXO	20	5	3	3
6798	27014	MWIL	08 21 1530	S10 E33	08 24.1	4	(B )					
6798		HOLL	08 21 1550	S09 E35	08 24.3		B	BXO	10	9	5	3
6798		PALE	08 21 2315	S11 E33	08 24.4		B	BXO	40	8	4	2
6798		CULG	08 22 0125	S08 E29	08 24.2		B	CAO	40	8	4	3
6798		LEAR	08 22 0138	S09 E28	08 24.2		B	DAO	70	2	5	4
6798		SVTO	08 22 0740	S09 E26	08 24.3		B	BXO	10	8	5	3
6798		RAMY	08 22 1434	S10 E23	08 24.3		B	BXO	10	11	6	3
6798		BOUL	08 22 1435	S09 E21	08 24.2		B	BXO	10	7	5	2
6798	27014	MWIL	08 22 1445	S10 E20	08 24.1	4	(B )					
6798		PALE	08 22 2018	S10 E19	08 24.3		B	BXO	10	8	6	3
6798		HOLL	08 22 2100	S10 E18	08 24.2		B	BXO	10	6	4	2
6798		LEAR	08 23 0015	S10 E17	08 24.3		B	BXO	20	7	5	2
6798		CULG	08 23 0100	S08 E16	08 24.2		B	BXO	10	6	2	3
6798		RAMY	08 23 1415	S10 E09	08 24.3		A	AX	10	2	2	4
6798	27014	MWIL	08 23 1440	S09 E09	08 24.3	4	(B )					

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6798		BOUL	08 23 1445	S09 E09	08 24.3		B	BXO		2	2	3
6798		HOLL	08 23 1530	S09 E08	08 24.2		A	AX	10	3	1	3
6798		RAMY	08 24 1254	S07 W04	08 24.2		A	AX	10	4	2	3
6798	27014	MWIL	08 24 1440	S09 W06	08 24.2	4	(AP)					
6798		HOLL	08 24 1725	S10 W08	08 24.1		A	AX	10	3	2	2
6798		PALE	08 24 1931	S09 W06	08 24.4		A	AX		1		2
6798	27014	MWIL	08 25 1440	S09 W18	08 24.3	4	(B )					
6798		PALE	08 28 1935	S11 W60	08 24.3		A	HS	10	1	1	3
6798		LEAR	08 29 0015	S10 W65	08 24.1		B	BXO	10	2	1	2
6798		CULG	08 29 0045	S08 W63	08 24.3		B	BXO	10	2		3
6798		SVTO	08 29 0804	S10 W71	08 24.0		A	HR	30	1	1	3
6798		RAMY	08 29 1410	S10 W75	08 23.9		A	HX	30	3	4	3
6798		BOUL	08 29 1425	S10 W78	08 23.7		A	AX	10	2	4	3
6798	27030	MWIL	08 29 1500	S09 W74	08 24.1	4	(B )					
6798		HOLL	08 29 2040	S10 W79	08 23.9		B	BXO	10	3	4	4
6798		PALE	08 30 0216	S09 W81	08 24.0		A	AX		1		2
6798A		BOUL	08 24 1450	N11 E04	08 24.9		A	AX		1		3
6798A	27031	MWIL	08 29 1500	N07 W71	08 24.3	4	(B )					
6799		RAMY	08 19 1321	N13 E79	08 25.5		A	AX	10	1	1	3
6799	27015	MWIL	08 19 1530	N13 E79	08 25.6	4	(AP)					
6799		HOLL	08 19 1825	N12 E78	08 25.6		A	AX	10	1		2
6799		PALE	08 19 1845	N13 E78	08 25.7		A	AX	10	1	1	3
6799		LEAR	08 20 0011	N13 E71	08 25.4		A	AX		1	1	3
6799		CULG	08 20 0100	N13 E74	08 25.6		A	AX		1		3
6799		SVTO	08 20 0733	N15 E72	08 25.8		B	CRO	30	5	5	2
6799		RAMY	08 20 1340	N12 E65	08 25.5		A	AX	10	1	1	4
6799	27015	MWIL	08 20 1530	N13 E65	08 25.5	4	(AF)					
6799		HOLL	08 20 1600	N13 E65	08 25.6		A	AX	10	2	1	4
6799		BOUL	08 20 1700	N14 E66	08 25.7		A	AX	10	1		1
6799		PALE	08 20 2300	N13 E66	08 25.9		A	AX	10	1	1	3
6799		CULG	08 21 0045	N10 E60	08 25.5		A	AX	10	1	1	2
6799		LEAR	08 21 0128	N13 E58	08 25.4		A	AX	10	1	1	3
6799		SVTO	08 21 0701	N13 E56	08 25.5		A	HR	20	1	1	3
6799		RAMY	08 21 1223	N13 E52	08 25.4		B	CAO	20	4	3	4
6799		BOUL	08 21 1445	N14 E52	08 25.5		A	AX	20	1	1	3
6799	27015	MWIL	08 21 1530	N12 E52	08 25.6	5	(BF)					
6799		HOLL	08 21 1550	N12 E51	08 25.5		B	BXO	10	3	3	3
6799		PALE	08 21 2315	N14 E51	08 25.8		A	AX	40	1	1	2
6799		CULG	08 22 0125	N13 E47	08 25.6		A	AX		1		3
6799		LEAR	08 22 0138	N13 E45	08 25.5		A	AX	10	1	1	4
6799		SVTO	08 22 0740	N14 E43	08 25.6		A	AX		1		3
6799		RAMY	08 22 1434	N13 E39	08 25.5		A	AX		1		3
6799		BOUL	08 22 1435	N13 E38	08 25.5		A	HS	10	1	1	2
6799	27015	MWIL	08 22 1445	N12 E39	08 25.5	4	(AF)					
6799		PALE	08 22 2018	N14 E36	08 25.6		A	AX		2	1	3
6799		HOLL	08 22 2100	N13 E36	08 25.6		A	AX	10	3	2	2
6799		LEAR	08 23 0015	N13 E33	08 25.5		A	AX	10	3	2	2
6799		CULG	08 23 0100	N14 E33	08 25.5		B	BXO	10	2	2	3
6799		SVTO	08 24 0700	N11 E27	08 26.3		B	BXO	20	6	5	3
6799	27015	MWIL	08 24 1440	N11 E15	08 25.7	3	(AP)					
6799		SVTO	08 25 0903	N11 E13	08 26.3		B	BXO	10	5	5	2
6799		SVTO	08 26 0720	N12 W02	08 26.1		B	BXO	10	2	3	3
6800		RAMY	08 21 1223	N13 E64	08 26.3		B	CRO	10	6	3	4
6800		BOUL	08 21 1445	N13 E62	08 26.3		B	CSO	40	5	3	3
6800	27017	MWIL	08 21 1530	N12 E62	08 26.3	5	(B )					
6800		HOLL	08 21 1550	N12 E63	08 26.4		B	CSO	40	3	4	3
6800		PALE	08 21 2315	N13 E62	08 26.6		B	CAO	20	3	4	2
6800		CULG	08 22 0125	N13 E58	08 26.4		B	CAO	30	6	3	3
6800		LEAR	08 22 0138	N13 E58	08 26.4		B	CAO	60	3	3	4
6800		SVTO	08 22 0740	N14 E54	08 26.4		B	DAO	80	8	5	3
6800		RAMY	08 22 1434	N12 E50	08 26.4		B	CAO	40	6	7	3
6800		BOUL	08 22 1435	N13 E48	08 26.2		B	DAO	100	7	5	2
6800	27017	MWIL	08 22 1445	N12 E50	08 26.4	4	(B )					
6800		PALE	08 22 2018	N13 E46	08 26.3		B	BXO	10	11	4	3
6800		HOLL	08 22 2100	N12 E46	08 26.3		B	CRO	20	9	5	2
6800		LEAR	08 23 0015	N13 E43	08 26.2		B	BXO	30	6	5	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6800		CULG	08 23 0100	N14 E45	08 26.4		B	DAO	50	7	5	3
6800		RAMY	08 23 1415	N12 E37	08 26.4		B	BXO	20	12	5	4
6800	27017	MWIL	08 23 1440	N13 E38	08 26.5	4	(B)					
6800		BOUL	08 23 1445	N13 E35	08 26.2		B	DAO	50	8	4	3
6800		HOLL	08 23 1530	N12 E36	08 26.3		B	BXO	20	10	5	3
6800		CULG	08 24 0022	N13 E31	08 26.3		B	BXO	10	6	5	2
6800		LEAR	08 24 0055	N12 E30	08 26.3		B	BXO	30	7	6	3
6800		PALE	08 24 0240	N12 E30	08 26.4		B	BXO	20	6	4	2
6800		RAMY	08 24 1254	N12 E24	08 26.3		B	BXO	10	7	5	3
6800	27017	MWIL	08 24 1440	N12 E22	08 26.3	4	(B)					
6800		BOUL	08 24 1450	N13 E22	08 26.3		B	BXO	10	5	4	3
6800		HOLL	08 24 1725	N12 E22	08 26.4		B	BXO	10	3	5	2
6800		PALE	08 24 1931	N12 E20	08 26.3		B	BXO	10	5	3	2
6800		CULG	08 25 0030	N13 E17	08 26.3		B	BXO	10	3	4	3
6800		RAMY	08 25 1310	N12 E09	08 26.2		B	BXO	10	5	2	3
6800	27017	MWIL	08 25 1440	N11 E08	08 26.2	4	(AP)					
6800		BOUL	08 25 1445	N12 E07	08 26.1		A	AX	10	3	1	3
6800		HOLL	08 25 1540	N11 E08	08 26.2		A	AX	10	3	1	3
6800		PALE	08 25 1800	N11 E07	08 26.3		B	BXO	10	4	4	3
6800		RAMY	08 26 1248	N12 W04	08 26.2		A	AX		1		4
6800		BOUL	08 26 1350	N12 W05	08 26.2		A	AX		1		1
6800		HOLL	08 26 1440	N12 W05	08 26.2		A	AX		1		4
6806		RAMY	08 23 1415	N16 E58	08 28.0		B	BXO	10	3	3	4
6806	27020	MWIL	08 23 1440	N15 E57	08 27.9	4	(AP)					
6806		BOUL	08 23 1445	N16 E56	08 27.9		A	AX	10	1	1	3
6806		HOLL	08 23 1530	N16 E56	08 27.9		A	AX		1		3
6806		LEAR	08 24 0055	N17 E51	08 27.9		B	BXO	30	7	4	3
6806		PALE	08 24 0240	N17 E51	08 28.0		B	BXO	20	7	4	2
6806		SVTO	08 24 0700	N16 E49	08 28.0		B	BXO	20	10	5	3
6806		RAMY	08 24 1254	N16 E46	08 28.0		B	CAO	30	11	5	3
6806	27020	MWIL	08 24 1440	N15 E45	08 28.0	4	(B)					
6806		BOUL	08 24 1450	N16 E44	08 27.9		B	DSI	60	9	5	3
6806		HOLL	08 24 1725	N16 E43	08 28.0		B	DAI	50	12	7	2
6806		PALE	08 24 1931	N18 E43	08 28.1		B	CAO	40	8	6	2
6806		CULG	08 25 0030	N16 E39	08 28.0		B	CSO	20	7	6	3
6806		SVTO	08 25 0903	N16 E34	08 27.9		B	DAO	40	8	7	2
6806		RAMY	08 25 1310	N15 E32	08 28.0		B	CSO	40	11	6	3
6806	27020	MWIL	08 25 1440	N15 E29	08 27.8	5	(BP)					
6806		BOUL	08 25 1445	N16 E29	08 27.8		B	DAO	60	8	7	3
6806		HOLL	08 25 1540	N15 E30	08 27.9		A	HS	70	7	7	3
6806		PALE	08 25 1800	N17 E28	08 27.9		B	CSO	60	11	7	3
6806		CULG	08 26 0015	N18 E23	08 27.8		B	DAO	130	7	6	2
6806		SVTO	08 26 0720	N14 E20	08 27.8		B	DSO	60	7	7	3
6806		RAMY	08 26 1248	N16 E18	08 27.9		B	CSO	110	24	7	4
6806		BOUL	08 26 1350	N16 E16	08 27.8		B	CSO	70	11	8	1
6806		HOLL	08 26 1440	N15 E17	08 27.9		B	CSO	70	17	7	4
6806		PALE	08 26 1830	N16 E15	08 27.9		B	CAO	110	11	8	3
6806	27020	MWIL	08 26 2445	N15 E10	08 27.8	5	BP					
6806		CULG	08 27 0045	N16 E09	08 27.7		B	CSO	100	6	8	2
6806		SVTO	08 27 0835	N17 E07	08 27.9		B	DAO	60	6	7	3
6806		RAMY	08 27 1310	N15 E01	08 27.6		B	CAO	80	18	12	3
6806		BOUL	08 27 1333	N16 E04	08 27.9		B	CAO	60	9	6	1
6806	27020	MWIL	08 27 1515	N15 E02	08 27.8	5	(BP)					
6806		HOLL	08 27 1515	N16 E03	08 27.9		B	CSO	100	8	7	3
6806		PALE	08 27 2045	N16 E01	08 27.9		B	DSO	60	4	6	3
6806		CULG	08 27 2130	N16 W02	08 27.7		B	CSO	90	2	7	1
6806		LEAR	08 28 0006	N17 W02	08 27.8		B	CSO	100	7	7	3
6806		SVTO	08 28 0725	N16 W07	08 27.8		B	DSO	80	12	8	3
6806		BOUL	08 28 1352	N16 W08	08 28.0		B	CAO	90	9	7	2
6806	27020	MWIL	08 28 1500	N15 W10	08 27.9	5	(BP)					
6806		HOLL	08 28 1520	N15 W11	08 27.8		BG	CSO	110	9	8	3
6806		PALE	08 28 1935	N15 W12	08 27.9		B	CSO	70	15	7	3
6806		LEAR	08 29 0015	N16 W13	08 28.0		B	CSO	50	3	6	2
6806		CULG	08 29 0045	N16 W16	08 27.8		B	DAO	70	4	7	3
6806		SVTO	08 29 0804	N15 W18	08 28.0		B	DSO	100	5	7	3
6806		RAMY	08 29 1410	N16 W22	08 27.9		B	CAO	70	3	7	3
6806		BOUL	08 29 1425	N15 W23	08 27.8		B	DAO	50	2	6	3
6806	27020	MWIL	08 29 1500	N15 W24	08 27.8	5	(BP)					

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6806		HOLL	08 29 2040	N15 W26	08 27.9		B	CAO	70	7	7	4
6806		LEAR	08 30 0054	N15 W27	08 28.0		B	CSO	50	2	6	2
6806		CULG	08 30 0110	N17 W28	08 27.9		B	CAO	70	3	7	3
6806		PALE	08 30 0216	N15 W29	08 27.9		B	CAO	60	5	7	2
6806		SVTO	08 30 0750	N15 W33	08 27.8		B	CSO	40	3	6	3
6806		RAMY	08 30 1321	N14 W38	08 27.7		A	HS	60	1	2	4
6806		HOLL	08 30 1440	N15 W38	08 27.7		A	HS	70	1	1	4
6806		BOUL	08 30 1445	N15 W38	08 27.7		A	HA	60	1	2	3
6806		PALE	08 30 1720	N14 W41	08 27.6		A	HS	80	1	2	4
6806		LEAR	08 31 0009	N14 W43	08 27.7		A	HS	40	1	2	3
6806		CULG	08 31 0050	N17 W43	08 27.8		A	HS	60	1	2	3
6806		SVTO	08 31 0720	N14 W47	08 27.7		A	HS	50	1	1	3
6806		RAMY	08 31 1320	N14 W52	08 27.6		A	HA	30	1	2	3
6806		BOUL	08 31 1445	N14 W52	08 27.7		A	HS	60	1	2	3
6806		HOLL	08 31 1545	N13 W53	08 27.6		A	HS	60	1	2	4
6806		PALE	08 31 1830	N14 W55	08 27.6		A	HA	70	1	2	3
6806	27020	MWIL	08 31 2145	N14 W56	08 27.7	5	(AP)					
6806		LEAR	09 01 0027	N14 W57	08 27.8		A	HS	30	1	2	3
6806		CULG	09 01 0030	N13 W60	08 27.6		A	HS	60	1	2	3
6806		SVTO	09 01 0615	N15 W62	08 27.7		A	HS	40	1	1	4
6806		RAMY	09 01 1240	N14 W65	08 27.7		A	HS	40	1	2	3
6806		BOUL	09 01 1445	N15 W64	08 27.9		A	HS	80	1	2	4
6806	27020	MWIL	09 01 1515	N15 W66	08 27.7	5	(AP)					
6806		HOLL	09 01 1520	N13 W66	08 27.7		A	HS	60	1	2	4
6806		PALE	09 01 1715	N14 W68	08 27.7		A	HA	70	1	2	4
6806		LEAR	09 02 0009	N15 W69	08 27.9		A	HA	50	1	2	3
6806		CULG	09 02 0030	N14 W73	08 27.6		A	HA	60	1	2	2
6806		RAMY	09 02 1345	N16 W75	08 28.0		A	HS	40	1	1	3
6806		BOUL	09 02 1423	N16 W76	08 27.9		A	HS	60	1	1	1
6806		HOLL	09 02 1500	N14 W80	08 27.7		A	HS	60	1	1	4
6806	27020	MWIL	09 02 1515	N15 W79	08 27.7	5	(AP)					
6806		CULG	09 03 0040	N14 W86	08 27.6		A	HS	30	1	2	4
6806		LEAR	09 03 0051	N15 W79	08 28.1		A	AX	50	1	1	3
6806		PALE	09 03 0300	N12 W85	08 27.8		A	HS	30	1	1	2
6806A		HOLL	09 02 1500	N07 W79	08 27.8		B	BXO	30	4	3	4
6806A	27039	MWIL	09 02 1515	N08 W79	08 27.8	4	(B )					
6806B		LEAR	09 02 0009	N08 W67	08 28.1		A	AX	20	1	1	3
6806C		BOUL	08 30 1445	N19 W27	08 28.5		A	AX		2	1	3
6803		RAMY	08 22 1434	S09 E88	08 29.2		A	HS	60	1	2	3
6803	27019	MWIL	08 22 1445	S10 E82	08 28.8	5	AP					
6803		PALE	08 22 2018	S09 E82	08 29.0		A	HK	60	1	3	3
6803		HOLL	08 22 2100	S09 E79	08 28.8		A	HS	60	1	1	2
6803		LEAR	08 23 0015	S08 E75	08 28.6		A	HS	60	1	2	2
6803		CULG	08 23 0100	S09 E80	08 29.0		A	HS	60	1	2	3
6803		RAMY	08 23 1415	S11 E73	08 29.1		B	EAO	150	7	11	4
6803	27019	MWIL	08 23 1440	S10 E68	08 28.7	5	(BP)					
6803		BOUL	08 23 1445	S11 E73	08 29.1		B	ESO	120	3	13	3
6803		HOLL	08 23 1530	S10 E73	08 29.1		B	CSO	150	4	11	3
6803		CULG	08 24 0022	S13 E66	08 29.0		B	DSO	10	6	5	2
6803		LEAR	08 24 0055	S12 E62	08 28.7		B	EAO	240	6	13	3
6803		PALE	08 24 0240	S10 E67	08 29.1		B	DAO	210	5	12	2
6803		SVTO	08 24 0700	S13 E69	08 29.5		B	FSO	180	5	18	3
6803		RAMY	08 24 1254	S09 E59	08 29.0		B	CSO	80	3	3	3
6803	27019	MWIL	08 24 1440	S09 E57	08 28.9	5	(BP)					
6803		BOUL	08 24 1450	S11 E62	08 29.3		B	EAO	210	6	14	3
6803		HOLL	08 24 1725	S09 E55	08 28.8		B	CSO	100	2	4	2
6803		PALE	08 24 1931	S09 E52	08 28.7		B	EAO	190	5	15	2
6803		CULG	08 25 0030	S10 E50	08 28.8		B	ESO	320	6	15	3
6803		SVTO	08 25 0903	S11 E52	08 29.3		B	ESO	200	5	14	2
6803		RAMY	08 25 1310	S08 E44	08 28.8		A	HS	80	1	2	3
6803	27019	MWIL	08 25 1440	S09 E42	08 28.8	5	(AP)					
6803		BOUL	08 25 1445	S08 E42	08 28.8		A	HS	80	1	2	3
6803		HOLL	08 25 1540	S09 E42	08 28.8		A	HS	80	1	1	3
6803		PALE	08 25 1800	S08 E41	08 28.8		A	HS	80	1	2	3
6803		CULG	08 26 0015	S06 E38	08 28.8		A	HS	100	1	2	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6803		SVTO	08 26 0720	S07 E34	08 28.8		B	DSO	120	9	7	3
6803		RAMY	08 26 1248	S07 E32	08 28.9		B	CAO	100	3	4	4
6803		BOUL	08 26 1350	S08 E29	08 28.7		B	CSO	70	2	4	1
6803		HOLL	08 26 1440	S08 E30	08 28.9		B	CSO	100	4	5	4
6803	27019	PALE	08 26 1830	S09 E28	08 28.9		A	HS	90	1	2	3
6803	27019	MWIL	08 26 2445	S09 E23	08 28.7	5	AP					
6803	27019	LEAR	08 27 0014	S09 E22	08 28.7		A	HS	70	2	3	3
6803	27019	CULG	08 27 0045	S08 E24	08 28.8		A	HS	110	1	2	2
6803	27019	SVTO	08 27 0835	S08 E18	08 28.7		A	HS	90	1	2	3
6803	27019	RAMY	08 27 1310	S09 E16	08 28.7		A	HS	90	1	2	3
6803	27019	BOUL	08 27 1333	S08 E16	08 28.8		A	HS	80	1	2	1
6803	27019	HOLL	08 27 1515	S08 E15	08 28.8		A	HS	120	1	2	3
6803	27019	MWIL	08 27 1515	S09 E15	08 28.8	5	(AP)					
6803	27019	PALE	08 27 2045	S09 E12	08 28.8		A	HS	60	1	2	3
6803	27019	CULG	08 27 2130	S08 E13	08 28.9		A	HS	60	1	2	1
6803	27019	LEAR	08 28 0006	S08 E10	08 28.7		A	HA	60	2	3	3
6803	27019	SVTO	08 28 0725	S08 E07	08 28.8		A	HS	80	1	2	3
6803	27019	BOUL	08 28 1352	S07 E02	08 28.7		A	HS	80	1	2	2
6803	27019	MWIL	08 28 1500	S09 E02	08 28.8	5	(AP)					
6803	27019	HOLL	08 28 1520	S09 E02	08 28.8		A	HS	120	1	2	3
6803	27019	PALE	08 28 1935	S09 E01	08 28.9		A	HS	60	1	2	3
6803	27019	LEAR	08 29 0015	S09 W03	08 28.8		A	HA	40	1	2	2
6803	27019	CULG	08 29 0045	S08 W03	08 28.8		A	HS	70	1	2	3
6803	27019	SVTO	08 29 0804	S09 W07	08 28.8		B	CSO	200	2	4	3
6803	27019	RAMY	08 29 1410	S09 W10	08 28.8		B	CAO	60	2	3	3
6803	27019	BOUL	08 29 1425	S09 W12	08 28.7		B	CSO	30	3	3	3
6803	27019	MWIL	08 29 1500	S08 W11	08 28.8	5	(BP)					
6803	27019	HOLL	08 29 2040	S09 W15	08 28.7		A	HS	70	1	2	4
6803	27019	LEAR	08 30 0054	S09 W17	08 28.8		A	HS	70	1	2	2
6803	27019	CULG	08 30 0110	S08 W17	08 28.8		A	HS	70	1	2	3
6803	27019	PALE	08 30 0216	S09 W17	08 28.8		A	HS	40	1	1	2
6803	27019	SVTO	08 30 0750	S09 W21	08 28.7		A	HS	60	1	2	3
6803	27019	RAMY	08 30 1321	S09 W23	08 28.8		A	HS	70	1	2	4
6803	27019	HOLL	08 30 1440	S08 W25	08 28.7		A	HS	70	2	2	4
6803	27019	BOUL	08 30 1445	S08 W24	08 28.8		A	HA	70	1	2	3
6803	27019	PALE	08 30 1720	S09 W26	08 28.8		A	HS	70	1	2	4
6803	27019	LEAR	08 31 0009	S09 W30	08 28.7		A	HS	40	1	2	3
6803	27019	CULG	08 31 0050	S08 W31	08 28.7		A	HS	50	1	2	3
6803	27019	SVTO	08 31 0720	S10 W34	08 28.7		A	HS	50	1	1	3
6803	27019	RAMY	08 31 1320	S08 W37	08 28.8		A	HS	40	1	2	3
6803	27019	BOUL	08 31 1445	S08 W37	08 28.8		A	HA	50	2	2	3
6803	27019	HOLL	08 31 1545	S09 W38	08 28.8		A	HS	70	1	2	4
6803	27019	PALE	08 31 1830	S09 W40	08 28.8		A	HS	70	1	2	3
6803	27019	MWIL	08 31 2145	S08 W42	08 28.7	5	(AP)					
6803	27019	LEAR	09 01 0027	S09 W43	08 28.9		A	HS	30	1	2	3
6803	27019	CULG	09 01 0030	S11 W44	08 28.8		A	HS	60	1	2	3
6803	27019	SVTO	09 01 0615	S09 W47	08 28.8		A	HS	50	1	1	4
6803	27019	RAMY	09 01 1240	S09 W50	08 28.9		A	HS	50	2	1	3
6803	27019	BOUL	09 01 1445	S08 W50	08 29.0		A	HS	60	1	2	4
6803	27019	MWIL	09 01 1515	S08 W52	08 28.8	5	(AP)					
6803	27019	HOLL	09 01 1520	S09 W51	08 28.9		A	HS	60	1	2	4
6803	27019	PALE	09 01 1715	S09 W53	08 28.8		A	HS	70	1	2	4
6803	27019	LEAR	09 02 0009	S09 W57	08 28.8		A	HA	40	1	2	3
6803	27019	CULG	09 02 0030	S09 W58	08 28.8		A	HA	40	1	2	2
6803	27019	SVTO	09 02 0735	S08 W61	08 28.8		A	HS	60	1	2	3
6803	27019	RAMY	09 02 1345	S08 W62	08 29.0		A	HA	40	1	1	3
6803	27019	BOUL	09 02 1423	S09 W63	08 29.0		A	HS	70	1	1	1
6803	27019	HOLL	09 02 1500	S09 W65	08 28.8		A	HS	50	1	1	4
6803	27019	MWIL	09 02 1515	S08 W65	08 28.9	5	(AP)					
6803	27019	CULG	09 03 0040	S11 W73	08 28.6		A	HS	30	1	2	4
6803	27019	LEAR	09 03 0051	S08 W69	08 29.0		A	HS	60	1	1	3
6803	27019	PALE	09 03 0300	S10 W69	08 29.0		A	HS	30	1	1	2
6803	27019	RAMY	09 03 1205	S08 W73	08 29.1		A	HA	60	1	1	3
6803	27019	BOUL	09 03 1350	S09 W78	08 28.8		A	HS	110	1	2	1
6803	27019	HOLL	09 03 1510	S10 W80	08 28.7		A	HS	40	1	1	3
6803	27019	MWIL	09 03 1530	S09 W78	08 28.9	3	(AP)					
6803	27019	PALE	09 03 2100	S09 W77	08 29.2		A	HS	30	1	1	3
68088	27032	MWIL	08 29 1500	S03 W03	08 29.4	4	(AP)					

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6808	27021	MWIL	08 23 1440	S12 E77	08 29.4	5	AP					
6808	27021	RAMY	08 24 1254	S13 E67	08 29.6		B	DAO	250	9	6	3
6808		MWIL	08 24 1440	S12 E64	08 29.4	5	(BP)					
6808	27021	HOLL	08 24 1725	S13 E65	08 29.6		B	DAO	220	7	9	2
6808		PALE	08 24 1931	S14 E70	08 30.1		A	HA	60	1	1	2
6808	27021	SVTO	08 25 0903	S16 E61	08 30.0		A	HA	30	1	2	2
6808		RAMY	08 25 1310	S13 E56	08 29.8		B	DAO	100	6	7	3
6808	27021	MWIL	08 25 1440	S12 E52	08 29.5	5	(B )					
6808		BOUL	08 25 1445	S12 E52	08 29.5		B	DAO	140	5	7	3
6808	27021	HOLL	08 25 1540	S12 E52	08 29.6		B	DSO	240	5	6	3
6808		PALE	08 25 1800	S10 E52	08 29.6		B	DAO	140	5	7	3
6808	27021	CULG	08 26 0015	S09 E48	08 29.6		B	DAO	150	2	7	2
6808		SVTO	08 26 0720	S11 E49	08 30.0		A	HS	30	1	1	3
6808	27021	RAMY	08 26 1248	S12 E41	08 29.6		B	DAO	140	10	8	4
6808		BOUL	08 26 1350	S12 E40	08 29.6		B	DAO	180	8	5	1
6808	27021	HOLL	08 26 1440	S12 E39	08 29.5		B	DSO	160	9	6	4
6808		PALE	08 26 1830	S12 E38	08 29.6		B	DSO	140	7	7	3
6808	27027	MWIL	08 26 2445	S07 E33	08 29.5	3	X					
6808	27021	MWIL	08 26 2445	S12 E34	08 29.6	5	B					
6808		CULG	08 27 0045	S10 E36	08 29.7		B	DAO	160	4	6	2
6808	27021	SVTO	08 27 0835	S12 E28	08 29.5		B	DAO	100	2	7	3
6808		RAMY	08 27 1310	S12 E27	08 29.6		B	DAO	170	10	7	3
6808	27021	BOUL	08 27 1333	S12 E26	08 29.5		B	CAO	110	12	8	1
6808		HOLL	08 27 1515	S12 E26	08 29.6		B	CSO	120	9	6	3
6808	27021	MWIL	08 27 1515	S13 E25	08 29.5	5	(BP)					
6808		PALE	08 27 2045	S13 E24	08 29.7		B	DSO	90	7	6	3
6808	27021	CULG	08 27 2130	S11 E22	08 29.5		B	DAO	80	2	5	1
6808		LEAR	08 28 0006	S12 E20	08 29.5		B	CAO	70	8	7	3
6808	27021	SVTO	08 28 0725	S12 E17	08 29.6		B	DAO	80	10	7	3
6808		BOUL	08 28 1352	S12 E13	08 29.5		B	DAO	100	9	7	2
6808	27021	MWIL	08 28 1500	S12 E13	08 29.6	5	(BP)					
6808		HOLL	08 28 1520	S12 E13	08 29.6		B	CSO	90	10	7	3
6808	27021	PALE	08 28 1935	S12 E12	08 29.7		B	CSO	80	12	7	3
6808		LEAR	08 29 0015	S13 E06	08 29.5		A	HS	40	2	2	2
6808	27021	CULG	08 29 0045	S11 E08	08 29.6		B	CKO	70	4	5	3
6808		SVTO	08 29 0804	S12 E03	08 29.6		B	CAO	70	3	6	3
6808	27021	RAMY	08 29 1410	S11 W01	08 29.5		B	CAO	60	9	6	3
6808		BOUL	08 29 1425	S13 W01	08 29.5		B	DAO	40	4	7	3
6808	27021	MWIL	08 29 1500	S13 W02	08 29.5	5	(BP)					
6808		HOLL	08 29 2040	S13 W03	08 29.6		B	CAO	50	5	4	4
6808	27021	LEAR	08 30 0054	S12 W08	08 29.4		A	HS	30	1	2	2
6808		CULG	08 30 0110	S12 W07	08 29.5		B	CAO	40	3	2	3
6808	27021	PALE	08 30 0216	S12 W08	08 29.5		B	BXO	10	4	3	2
6808		SVTO	08 30 0750	S13 W12	08 29.4		A	HR	20	3	2	3
6808	27021	RAMY	08 30 1321	S12 W15	08 29.4		B	CAO	30	5	2	4
6808		HOLL	08 30 1440	S12 W15	08 29.5		B	BXO	20	7	3	4
6808	27021	BOUL	08 30 1445	S12 W16	08 29.4		B	CSO	20	4	2	3
6808		PALE	08 30 1720	S13 W17	08 29.4		A	HS	20	2	2	4
6808	27021	LEAR	08 31 0009	S13 W22	08 29.3		A	AX	10	1	1	3
6808		CULG	08 31 0050	S12 W21	08 29.4		A	AX		1		3
6808	27021	SVTO	08 31 0720	S13 W25	08 29.4		A	AX	20	1		3
6808		RAMY	08 31 1320	S13 W29	08 29.4		A	AX	10	1	1	3
6808	27021	BOUL	08 31 1445	S12 W29	08 29.4		A	HR	10	1		3
6808		HOLL	08 31 1545	S13 W28	08 29.5		B	BXO	10	2	3	4
6808	27021	PALE	08 31 1830	S13 W32	08 29.3		A	AX	10	1	1	3
6808		MWIL	08 31 2145	S12 W34	08 29.3	4	(AP)					
6808	27021	LEAR	09 01 0027	S13 W35	08 29.5		A	AX	10	1	1	3
6808		CULG	09 01 0030	S14 W36	08 29.4		A	AX	10	1	1	3
6808A		CULG	08 27 0045	S04 E34	08 29.6		B	BXO	20	2	1	2
6809	27023	CULG	08 24 0022	S17 E82	08 30.2		A	AX	10	1		2
6809		MWIL	08 24 1440	S17 E70	08 29.9	5	(AP)					
6809	27023	BOUL	08 24 1450	S16 E71	08 30.0		A	HS	60	1	3	3
6809		RAMY	08 25 1310	S16 E58	08 29.9		A	HS	40	1	1	3
6809	27023	MWIL	08 25 1440	S17 E58	08 30.0	4	(AP)					
6809		BOUL	08 25 1445	S16 E57	08 29.9		A	HS	40	1	1	3
6809	27023	HOLL	08 25 1540	S17 E58	08 30.1		A	HS	60	1	1	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6809		PALE	08 25 1800	S15 E57	08 30.1		A	HS	40	1	2	3
6809		CULG	08 26 0015	S14 E54	08 30.1		A	HS	70	1	1	2
6809		RAMY	08 26 1248	S16 E45	08 29.9		A	HA	30	1	2	4
6809		BOUL	08 26 1350	S16 E44	08 29.9		A	HS	50	1	1	1
6809		HOLL	08 26 1440	S16 E45	08 30.0		A	HS	90	1	2	4
6809		PALE	08 26 1830	S16 E43	08 30.0		A	HS	60	1	2	3
6809	27023	MWIL	08 26 2445	S17 E38	08 29.9	5	AP					
6809		CULG	08 27 0045	S14 E41	08 30.1		A	HS	50	1	1	2
6809		SVTO	08 27 0835	S16 E34	08 29.9		A	HA	30	1	2	3
6809		RAMY	08 27 1310	S17 E31	08 29.9		A	HA	50	1	1	3
6809		BOUL	08 27 1333	S16 E32	08 30.0		A	HS	40	1	1	1
6809	27023	MWIL	08 27 1515	S17 E30	08 29.9	5	(AP)					
6809		HOLL	08 27 1515	S18 E32	08 30.1		B	CSO	60	3	5	3
6809		PALE	08 27 2045	S17 E29	08 30.1		A	HS	20	1	1	3
6809		CULG	08 27 2130	S14 E28	08 30.0		A	HS	30	1	1	1
6809		LEAR	08 28 0006	S16 E26	08 30.0		A	HS	50	2	3	3
6809		SVTO	08 28 0725	S17 E23	08 30.0		B	CSO	30	2	4	3
6809		BOUL	08 28 1352	S16 E19	08 30.0		A	HS	30	1	1	2
6809	27023	MWIL	08 28 1500	S17 E17	08 29.9	5	(AP)					
6809		HOLL	08 28 1520	S16 E19	08 30.1		A	HS	40	1	1	3
6809		PALE	08 28 1935	S17 E17	08 30.1		A	HS	10	1	1	3
6809		LEAR	08 29 0015	S16 E13	08 30.0		A	HS	40	1	1	2
6809		CULG	08 29 0045	S16 E13	08 30.0		A	HS	30	1	2	3
6809		SVTO	08 29 0804	S16 E08	08 29.9		A	HS	30	2	1	3
6809		RAMY	08 29 1410	S16 E05	08 30.0		A	HA	20	1	1	3
6809		BOUL	08 29 1425	S17 E03	08 29.8		A	HS	20	1	1	3
6809	27023	MWIL	08 29 1500	S16 E04	08 29.9	5	(AP)					
6809		HOLL	08 29 2040	S17 E01	08 29.9		A	HA	30	5	2	4
6809		LEAR	08 30 0054	S16 W01	08 30.0		A	HS	20	2	1	2
6809		CULG	08 30 0110	S15 W02	08 29.9		B	CSI	30	2	2	3
6809		PALE	08 30 0216	S16 W02	08 29.9		A	HS	20	1	2	2
6809		SVTO	08 30 0750	S16 W05	08 29.9		A	HR	30	2	2	3
6809		RAMY	08 30 1321	S16 W09	08 29.9		B	CAO	20	4	3	4
6809		HOLL	08 30 1440	S16 W09	08 29.9		B	BXO	10	5	4	4
6809		BOUL	08 30 1445	S16 W09	08 29.9		B	CSO	20	6	4	3
6809		PALE	08 30 1720	S17 W09	08 30.0		B	CAO	20	3	4	4
6809		LEAR	08 31 0009	S16 W14	08 29.9		A	HS	10	1	1	3
6809		CULG	08 31 0050	S15 W15	08 29.9		A	HS	10	1	1	3
6809		SVTO	08 31 0720	S16 W18	08 29.9		A	AX	20	1	1	3
6809		RAMY	08 31 1320	S15 W22	08 29.9		B	CSO	10	3	2	3
6809		BOUL	08 31 1445	S15 W22	08 29.9		A	HR	10	1	1	3
6809		HOLL	08 31 1545	S17 W23	08 29.9		A	AX	10	2	1	4
6809		PALE	08 31 1830	S17 W25	08 29.9		A	AX	10	2	2	3
6807		LEAR	08 24 0055	S07 E78	08 29.9		A	HS	60	1	2	3
6807		PALE	08 24 0240	S07 E76	08 29.8		B	CAO	60	2	11	2
6807		SVTO	08 24 0700	S07 E78	08 30.1		A	HS	30	1	2	3
6807		RAMY	08 24 1254	S08 E76	08 30.2		B	CAO	90	5	7	3
6807	27024	MWIL	08 24 1440	S08 E72	08 30.0	4	(AF)					
6807	27026	MWIL	08 24 1440	S11 E81	08 30.7	4	AF					
6807		BOUL	08 24 1450	S06 E72	08 30.0		B	DSO	90	2	4	3
6807		HOLL	08 24 1725	S08 E75	08 30.3		B	CAO	50	9	10	2
6807		PALE	08 24 1931	S05 E71	08 30.1		B	CAO	60	2	2	2
6807		CULG	08 25 0030	S07 E70	08 30.3		B	BXO	20	6	6	3
6807		SVTO	08 25 0903	S09 E66	08 30.3		B	BXO	30	4	9	2
6807		RAMY	08 25 1310	S07 E62	08 30.2		B	CRO	40	6	7	3
6807	27024	MWIL	08 25 1440	S07 E59	08 30.0	4	(B )					
6807	27026	MWIL	08 25 1440	S11 E66	08 30.6	4	(AF)					
6807		BOUL	08 25 1445	S06 E58	08 29.9		A	AX	10	2	2	3
6807		HOLL	08 25 1540	S09 E61	08 30.2		B	CRO	40	8	7	3
6807		PALE	08 25 1800	S05 E58	08 30.1		B	BXO	10	4	2	3
6807		CULG	08 26 0015	S05 E55	08 30.1		B	BXO	40	5	1	2
6807		SVTO	08 26 0720	S10 E53	08 30.3		B	CRO	30	9	10	3
6807		RAMY	08 26 1248	S12 E55	08 30.7		B	CRO	40	6	4	4
6807		BOUL	08 26 1350	S12 E52	08 30.5		B	BXO	30	4	4	1
6807		HOLL	08 26 1440	S11 E51	08 30.4		B	CRO	30	9	4	4
6807		PALE	08 26 1830	S10 E50	08 30.5		B	CRO	30	6	5	3
6807	27026	MWIL	08 26 2445	S10 E45	08 30.4	5	B					
6807		CULG	08 27 0045	S08 E47	08 30.5		B	BXO	40	3	6	2

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)	Lat	CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6807		SVTO	08 27 0835	S11	E39	08 30.3		B	DSO	60	7	8	3
6807		RAMY	08 27 1310	S11	E39	08 30.5		B	BXO	30	10	7	3
6807		BOUL	08 27 1333	S11	E38	08 30.4		B	BXO	30	6	6	1
6807		HOLL	08 27 1515	S11	E37	08 30.4		B	BXO	30	8	6	3
6807	27026	MWIL	08 27 1515	S11	E37	08 30.4	5	(BG)					
6807		PALE	08 27 2045	S10	E35	08 30.5		B	DSO	70	6	7	3
6807		CULG	08 27 2130	S06	E33	08 30.4		B	CAO	50	4	6	1
6807		LEAR	08 28 0006	S08	E33	08 30.5		B	CSO	20	13	7	3
6807		SVTO	08 28 0725	S08	E28	08 30.4		B	DSO	80	21	8	3
6807		BOUL	08 28 1352	S07	E26	08 30.5		B	DSO	120	20	9	2
6807	27026	MWIL	08 28 1500	S09	E23	08 30.3	5	(BG)					
6807		HOLL	08 28 1520	S08	E25	08 30.5		BG	DRI	100	39	8	3
6807		PALE	08 28 1935	S08	E23	08 30.5		B	DSO	10	35	7	3
6807		LEAR	08 29 0015	S09	E19	08 30.4		B	CRO	40	14	8	2
6807		CULG	08 29 0045	S08	E19	08 30.4		B	DSO	90	24	9	3
6807		SVTO	08 29 0804	S08	E14	08 30.4		B	DAI	140	25	8	3
6807		RAMY	08 29 1410	S08	E11	08 30.4		B	CAO	60	31	7	3
6807		BOUL	08 29 1425	S09	E10	08 30.3		B	DAI	160	29	10	3
6807	27026	MWIL	08 29 1500	S07	E09	08 30.3	5	(BG)					
6807		HOLL	08 29 2040	S07	E07	08 30.4		BG	DAI	230	61	8	4
6807		LEAR	08 30 0054	S08	E04	08 30.3		B	DKO	300	35	8	2
6807		CULG	08 30 0110	S08	E05	08 30.4		B	DKO	190	39	7	3
6807		PALE	08 30 0216	S07	E04	08 30.4		BG	DKI	270	40	7	2
6807		SVTO	08 30 0750	S08	W01	08 30.2		BG	DKC	420	47	8	3
6807		RAMY	08 30 1321	S08	W04	08 30.2		BD	DKI	420	42	8	4
6807		HOLL	08 30 1440	S08	W03	08 30.4		BGD	DKC	230	52	7	4
6807		BOUL	08 30 1445	S08	W04	08 30.3		BGD	DKC	470	75	8	3
6807		PALE	08 30 1720	S08	W04	08 30.4		BD	DKI	300	46	10	4
6807		LEAR	08 31 0009	S08	W08	08 30.4		B	DAI	290	31	8	3
6807		CULG	08 31 0050	S08	W09	08 30.3		BGD	DAO	290	49	9	3
6807		SVTO	08 31 0720	S08	W12	08 30.4		B	DAO	230	36	9	3
6807		RAMY	08 31 1320	S07	W16	08 30.3		BG	DAI	290	48	9	3
6807		BOUL	08 31 1445	S06	W16	08 30.4		BG	DAI	330	50	9	3
6807		HOLL	08 31 1545	S07	W17	08 30.4		BG	DAI	250	61	10	4
6807		PALE	08 31 1830	S08	W18	08 30.4		BG	DAI	140	46	9	3
6807	27026	MWIL	08 31 2145	S07	W21	08 30.3	5	(BG)					
6807		LEAR	09 01 0027	S07	W24	08 30.3		BG	DAI	190	35	10	3
6807		CULG	09 01 0030	S07	W23	08 30.4		BG	DAI	160	23	9	3
6807		SVTO	09 01 0615	S07	W25	08 30.5		B	DSI	130	45	10	4
6807		RAMY	09 01 1240	S07	W29	08 30.4		B	EAO	110	52	11	3
6807		BOUL	09 01 1445	S06	W30	08 30.5		BG	DAI	220	40	10	4
6807	27026	MWIL	09 01 1515	S07	W30	08 30.5	5	(BG)					
6807		HOLL	09 01 1520	S07	W30	08 30.5		B	EAI	160	51	13	4
6807		PALE	09 01 1715	S07	W31	08 30.5		B	EAI	130	44	11	4
6807		LEAR	09 02 0009	S06	W35	08 30.5		BG	EAO	70	21	12	3
6807		CULG	09 02 0030	S07	W37	08 30.3		BG	DAO	170	19	10	2
6807		SVTO	09 02 0740	S06	W40	08 30.4		B	CSO	50	16	11	2
6807		RAMY	09 02 1345	S05	W43	08 30.4		B	ESI	130	19	11	3
6807		BOUL	09 02 1423	S06	W42	08 30.5		B	DSI	70	16	10	1
6807		HOLL	09 02 1500	S05	W45	08 30.3		B	ESI	80	31	12	4
6807	27026	MWIL	09 02 1515	S06	W44	08 30.4	5	(BG)					
6807		CULG	09 03 0040	S07	W52	08 30.2		BG	CSO	40	9	8	4
6807		LEAR	09 03 0051	S05	W48	08 30.5		BG	EAO	110	6	12	3
6807		PALE	09 03 0300	S08	W49	08 30.5		B	DSO	70	16	9	2
6807		SVTO	09 03 0735	S05	W53	08 30.4		BG	ESO	50	15	11	3
6807		RAMY	09 03 1205	S03	W55	08 30.5		B	DAO	90	21	10	3
6807		BOUL	09 03 1350	S05	W56	08 30.5				110	7	8	1
6807		HOLL	09 03 1510	S05	W59	08 30.3		B	CSO	60	13	10	3
6807	27026	MWIL	09 03 1530	S05	W59	08 30.3	4	(BP)					
6807		PALE	09 03 2100	S05	W62	08 30.3		B	DSO	40	7	10	3
6807		CULG	09 04 0100	S05	W64	08 30.3		B	CAO	70	15	14	3
6807		SVTO	09 04 0728	S04	W71	08 30.1		B	DSO	80	9	11	3
6807		RAMY	09 04 1305	S04	W74	08 30.1		B	DRO	90	15	7	4
6807		BOUL	09 04 1435	S04	W75	08 30.1		B	DSO	80	8	8	2
6807		HOLL	09 04 1720	S04	W78	08 30.0		B	BXO	20	9	8	3
6807		PALE	09 04 1720	S05	W78	08 30.0		B	CAO	90	9	7	3
6807	27026	MWIL	09 04 1800	S04	W75	08 30.2	5	(BP)					
6807		CULG	09 05 0055	S04	W81	08 30.1		B	BXO	10	2	2	3



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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time (UT)	Lat	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6805A		BOUL	08 25 1445	S11 E67	08 30.6		A	HS	40	1	2	3
6805A		PALE	08 25 1800	S10 E64	08 30.5		B	CRO	30	3	5	3
6805A		BOUL	08 30 1445	S12 E02	08 30.8		A	AX		1		3
6805		RAMY	08 23 1415	N21 E85	08 30.1		A	HA	120	1	2	4
6805	27025	MWIL	08 23 1440	N20 E88	08 30.3	5	AP					
6805		BOUL	08 23 1445	N20 E85	08 30.1		A	HS	90	1	2	3
6805		HOLL	08 23 1530	N21 E87	08 30.3		A	HA	90	1	2	3
6805		CULG	08 24 0022	N21 E81	08 30.2		A	HA	90	2	5	2
6805		LEAR	08 24 0055	N24 E80	08 30.2		B	DKO	180	4	6	3
6805		SVTO	08 24 0700	N24 E85	08 30.8		B	EHO	360	7	12	3
6805		RAMY	08 24 1254	N23 E78	08 30.5		B	EKO	800	4	15	3
6805	27025	MWIL	08 24 1440	N21 E75	08 30.4	5	(AP)					
6805		BOUL	08 24 1450	N22 E73	08 30.2		B	DSO	210	2	5	3
6805		HOLL	08 24 1725	N23 E78	08 30.7		B	EKI	860	9	15	2
6805		PALE	08 24 1931	N25 E78	08 30.8		B	FKO	620	6	16	2
6805		CULG	08 25 0030	N21 E70	08 30.4		B	FAO	750	5	19	3
6805		SVTO	08 25 0903	N23 E70	08 30.8		B	FKI	850	12	16	2
6805		RAMY	08 25 1310	N24 E67	08 30.7		BG	EKI	660	16	13	3
6805	27025	MWIL	08 25 1440	N22 E61	08 30.3	5	(AP)					
6805		BOUL	08 25 1445	N22 E61	08 30.3		B	DAO	180	3	3	3
6805		HOLL	08 25 1540	N22 E60	08 30.3		B	DSI	210	5	4	3
6805		PALE	08 25 1800	N23 E60	08 30.4		B	DAO	130	5	4	3
6805		CULG	08 26 0015	N26 E58	08 30.5		B	DAO	180	3	4	2
6805		SVTO	08 26 0720	N21 E53	08 30.4		B	DSO	110	6	4	3
6805		RAMY	08 26 1248	N24 E54	08 30.7		BGD	FKI	910	22	17	4
6805		BOUL	08 26 1350	N24 E55	08 30.8		B	FKI	870	16	17	1
6805		HOLL	08 26 1440	N23 E53	08 30.7		BGD	EKI	820	24	15	4
6805		PALE	08 26 1830	N24 E53	08 30.9		BD	EKI	800	17	15	3
6805	27025	MWIL	08 26 2445	N22 E42	08 30.2	5	AP					
6805		LEAR	08 27 0014	N23 E45	08 30.5				670	16	15	3
6805		CULG	08 27 0045	N26 E48	08 30.8		BG	FKI	820	16	18	2
6805		SVTO	08 27 0835	N24 E44	08 30.7		BD	FKI	870	20	14	3
6805		RAMY	08 27 1310	N23 E43	08 30.9		BGD	EKO	770	24	13	3
6805		BOUL	08 27 1333	N23 E41	08 30.7		B	FKI	720	26	16	1
6805	27025	MWIL	08 27 1515	N23 E41	08 30.8	6	(D )					
6805		HOLL	08 27 1515	N24 E42	08 30.9		BGD	EKC	730	33	15	3
6805		PALE	08 27 2045	N24 E39	08 30.9		BD	EKI	420	38	14	3
6805		CULG	08 27 2130	N26 E37	08 30.8		BG	FKO	780	12	16	1
6805		LEAR	08 28 0006	N25 E37	08 30.9		BD	DKO	650	26	14	3
6805		SVTO	08 28 0725	N23 E33	08 30.8		BGD	EKI	610	17	14	3
6805		BOUL	08 28 1352	N23 E31	08 31.0		B	FKI	750	36	16	2
6805	27025	MWIL	08 28 1500	N24 E29	08 30.9	6	(D )					
6805		HOLL	08 28 1520	N23 E30	08 30.9		BGD	FKI	740	61	17	3
6805		PALE	08 28 1935	N25 E28	08 31.0		B	FKI	510	44	18	3
6805		LEAR	08 29 0015	N23 E27	08 31.1		B	FKI	580	32	19	2
6805		CULG	08 29 0045	N24 E25	08 31.0		BGD	FKO	680	32	16	3
6805		SVTO	08 29 0804	N24 E23	08 31.1				840	48	17	3
6805		RAMY	08 29 1410	N24 E19	08 31.0		BGD	FKO	700	31	18	3
6805		BOUL	08 29 1425	N23 E19	08 31.1		BGD	FKO	470	24	16	3
6805	27025	MWIL	08 29 1500	N24 E17	08 30.9	5	(D )					
6805		HOLL	08 29 2040	N23 E15	08 31.0		BGD	FKI	590	72	17	4
6805		LEAR	08 30 0054	N24 E12	08 31.0		B	EKI	460	35	15	2
6805		CULG	08 30 0110	N24 E13	08 31.0		BGD	FKO	620	25	16	3
6805		PALE	08 30 0216	N24 E12	08 31.0		BGD	FKI	510	38	16	2
6805		SVTO	08 30 0750	N24 E08	08 30.9		BG	FAI	560	45	16	3
6805		RAMY	08 30 1321	N24 E07	08 31.1		BGD	FKI	590	38	18	4
6805		HOLL	08 30 1440	N23 E05	08 31.0		BGD	FHI	530	56	17	4
6805		BOUL	08 30 1445	N24 E04	08 30.9		BG	FKI	540	47	17	3
6805		PALE	08 30 1720	N22 E03	08 30.9		BGD	FKI	460	47	16	4
6805		LEAR	08 31 0009	N22 W02	08 30.8		B	EKO	460	30	13	3
6805		CULG	08 31 0050	N24 W01	08 30.9		BGD	FAO	520	33	16	3
6805		SVTO	08 31 0720	N21 W05	08 30.9		B	FKO	270	19	17	3
6805		RAMY	08 31 1320	N24 W08	08 30.9		BG	EHI	340	28	13	3
6805		BOUL	08 31 1445	N25 W08	08 31.0		BG	EKI	350	27	11	3
6805		HOLL	08 31 1545	N23 W10	08 30.9		BGD	EHI	430	33	13	4
6805		PALE	08 31 1830	N24 W13	08 30.8		BGD	EHI	370	22	13	3
6805	27025	MWIL	08 31 2145	N24 W12	08 31.0	5	(BF)					
6805		LEAR	09 01 0027	N22 W15	08 31.0		B	EKO	290	17	14	3

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NOAA/ USAF Group	Mt Wilson Group	Sta	Mo	Day	Observation Time (UT)	Lat	CMD	CMP Mo	Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6805		CULG	09	01	0030	N25	W15	08	30.9		BGD	EAO	420	17	13	3
6805		SVTO	09	01	0615	N23	W17	08	31.0		BGD	EKI	300	31	14	4
6805		RAMY	09	01	1240	N24	W22	08	30.9		B	EHI	310	29	13	3
6805		BOUL	09	01	1445	N24	W22	08	31.0		BG	EAI	290	25	12	4
6805	27025	MWIL	09	01	1515	N24	W21	08	31.0	5	(BG)					
6805		HOLL	09	01	1520	N23	W23	08	31.0		BG	EHI	410	33	13	4
6805		PALE	09	01	1715	N23	W24	08	31.0		B	EHI	330	28	13	4
6805		LEAR	09	02	0009	N24	W25	08	31.1		BG	EKO	220	12	9	3
6805		CULG	09	02	0030	N26	W30	08	30.8		BG	EHO	320	13	13	2
6805		SVTO	09	02	0740	N23	W32	08	30.9		BG	EHO	230	11	11	2
6805		RAMY	09	02	1345	N24	W35	08	31.0		B	EHO	250	10	12	3
6805		BOUL	09	02	1423	N24	W34	08	31.0		BG	DAI	220	11	9	1
6805		HOLL	09	02	1500	N23	W35	08	31.0		BG	EHI	280	16	11	4
6805	27025	MWIL	09	02	1515	N23	W33	08	31.1	5	(BG)					
6805		CULG	09	03	0040	N24	W42	08	30.9		BG	EAO	260	15	13	4
6805		LEAR	09	03	0051	N24	W35	08	31.3		BG	DHO	210	4	6	3
6805		PALE	09	03	0300	N23	W39	08	31.1		B	DHI	230	10	6	2
6805		SVTO	09	03	0735	N24	W41	08	31.1		BG	DSO	160	9	7	3
6805		RAMY	09	03	1205	N23	W44	08	31.1		B	EAO	300	22	13	3
6805		BOUL	09	03	1350	N24	W45	08	31.1		BG	DAI	220	15	10	1
6805		HOLL	09	03	1510	N23	W45	08	31.2		BG	DSI	280	22	9	3
6805	27025	MWIL	09	03	1530	N24	W45	08	31.2	5	(D )					
6805		PALE	09	03	2100	N24	W47	08	31.2		BG	DHI	240	23	7	3
6805		CULG	09	04	0100	N24	W53	08	31.0		BG	DAO	250	10	8	3
6805		SVTO	09	04	0728	N23	W54	08	31.1		BG	DAO	340	16	8	3
6805		RAMY	09	04	1305	N22	W56	08	31.2		B	DAO	450	20	7	4
6805		BOUL	09	04	1435	N24	W56	08	31.3		B	DKI	490	28	8	2
6805		PALE	09	04	1720	N22	W58	08	31.3		BG	DHI	490	24	9	3
6805		HOLL	09	04	1720	N22	W59	08	31.2		BD	DKC	450	22	9	3
6805	27025	MWIL	09	04	1800	N24	W59	08	31.2	5	(BP)					
6805		CULG	09	05	0055	N24	W62	08	31.2		BGD	DKO	420	11	7	3
6805		SVTO	09	05	0650	N23	W65	08	31.3		BGD	DAI	310	11	7	3
6805		RAMY	09	05	1310	N23	W70	08	31.1		B	DAO	420	8	7	4
6805		BOUL	09	05	1437	N24	W69	08	31.3		B	DKO	460	15	7	2
6805		HOLL	09	05	1750	N23	W74	08	31.0		G	DKC	460	5	8	2
6805		PALE	09	05	1905	N22	W73	08	31.2		B	DSO	220	5	8	4
6805	27025	MWIL	09	05	2345	N24	W75	08	31.2	4	(B )					
6805		CULG	09	06	0045	N23	W76	08	31.2		BGD	DAO	390	6	8	3
6805		SVTO	09	06	0731	N23	W82	08	31.0		B	DKO	240	5	6	4
6805		RAMY	09	06	1329	N23	W82	08	31.2		B	DKO	210	6	8	3
6805		BOUL	09	06	1445	N23	W83	08	31.2		B	DAO	240	7	2	2
6805		PALE	09	06	1830	N21	W89	08	31.0		B	CSI	180	5	6	4
6805C	27022	MWIL	08	24	1440	N24	E81	08	30.9	5	D %					
6805C	27022	MWIL	08	25	1440	N24	E69	08	30.9	5	(D )					
6805C	27022	MWIL	08	26	2445	N24	E50	08	30.9	6	D *					
6805B		BOUL	08	24	1450	N25	E78	08	30.7		B	DKO	400	4	9	3
6805B		BOUL	08	25	1445	N25	E67	08	30.8		B	DKO	480	6	10	3
6805B		HOLL	08	25	1540	N25	E69	08	31.0		B	DKI	660	6	9	3
6805B		PALE	08	25	1800	N26	E68	08	31.0		B	DKO	740	8	8	3
6805B		SVTO	08	26	0720	N24	E61	08	31.0		BD	EKI	650	13	13	3
6807B		SVTO	09	02	0735	N04	W31	08	31.0		A	AX		1		3
6807A		BOUL	08	30	1445	N19	E06	08	31.1		A	AX		1		3
6807A		BOUL	08	31	1445	N19	W07	08	31.1		A	HS	20	2	1	3
6807A	27035	MWIL	08	31	2145	N19	W11	08	31.1	4	(B )					
6807A		BOUL	09	01	1445	N19	W21	08	31.0		A	AX		1		4
6807A	27035	MWIL	09	01	1515	N19	W20	08	31.1	4	(B )					
6807A	27035	MWIL	09	02	1515	N18	W32	08	31.2	4	(AF)					
6812		SVTO	08	29	0804	N13	E32	08	31.7		A	AX	20	3	2	3
6812		RAMY	08	29	1410	N12	E29	08	31.8		B	CAO	30	6	4	3
6812		BOUL	08	29	1425	N12	E28	08	31.7		B	CAO	40	2	3	3
6812	27033	MWIL	08	29	1500	N12	E28	08	31.7	5	(B )					
6812		HOLL	08	29	2040	N12	E25	08	31.7		B	DAO	50	14	6	4
6812		LEAR	08	30	0054	N12	E23	08	31.8		B	CAO	30	7	7	2
6812		CULG	08	30	0110	N12	E22	08	31.7		B	DAO	70	9	6	3

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SUNSPOT GROUPS  
(Ordered by Central Meridian Passage Date)

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time Mo Day (UT)	Lat CMD	CMP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
6812		PALE	08 30 0216	N11 E23	08 31.8		B	CAO	50	11	6	2
6812		SVTO	08 30 0750	N11 E19	08 31.7		B	DRI	110	17	7	3
6812		RAMY	08 30 1321	N12 E16	08 31.8		B	DAO	100	15	7	4
6812		HOLL	08 30 1440	N12 E16	08 31.8		B	DRI	80	24	7	4
6812		BOUL	08 30 1445	N12 E15	08 31.7		B	DAI	120	22	8	3
6812		PALE	08 30 1720	N12 E14	08 31.8		B	DAI	100	19	8	4
6812		LEAR	08 31 0009	N12 E09	08 31.7		B	DAO	100	15	8	3
6812		CULG	08 31 0050	N12 E10	08 31.8		B	DAO	70	21	9	3
6812		SVTO	08 31 0720	N11 E06	08 31.7		B	DAO	80	12	9	3
6812		RAMY	08 31 1320	N12 E02	08 31.7		B	DAO	80	19	9	3
6812		BOUL	08 31 1445	N12 E02	08 31.8		B	DAI	160	21	9	3
6812		HOLL	08 31 1545	N12 E01	08 31.7		B	DAO	90	20	9	4
6812		PALE	08 31 1830	N12 W01	08 31.7		B	CAO	80	12	9	3
6812	27033	MWIL	08 31 2145	N12 W03	08 31.7	5	(BG)					
6812		LEAR	09 01 0027	N11 W05	08 31.6		B	CAO	70	8	8	3
6812		CULG	09 01 0030	N12 W04	08 31.7		B	DAO	60	10	9	3
6812		SVTO	09 01 0615	N11 W07	08 31.7		B	CAO	50	13	10	4
6812		RAMY	09 01 1240	N12 W12	08 31.6		B	CAO	70	22	9	3
6812		BOUL	09 01 1445	N13 W13	08 31.6		B	DAI	910	17	10	4
6812	27033	MWIL	09 01 1515	N12 W13	08 31.6	5	(B )					
6812		HOLL	09 01 1520	N12 W13	08 31.6		B	EAO	90	23	11	4
6812		PALE	09 01 1715	N11 W14	08 31.7		B	CAO	60	17	10	4
6812		LEAR	09 02 0009	N12 W18	08 31.6		B	DAO	50	9	9	3
6812		CULG	09 02 0030	N11 W19	08 31.6		B	CAO	40	6	9	2
6812		SVTO	09 02 0740	N10 W23	08 31.6		B	DAO	60	11	10	2
6812		RAMY	09 02 1345	N12 W25	08 31.7		B	DAO	90	9	9	3
6812		BOUL	09 02 1423	N11 W26	08 31.6		B	DSI	90	9	9	1
6812		HOLL	09 02 1500	N10 W26	08 31.7		B	DAI	100	21	10	4
6812	27033	MWIL	09 02 1515	N12 W26	08 31.7	5	(BG)					
6812		CULG	09 03 0040	N11 W34	08 31.5		B	DAO	120	7	9	4
6812		LEAR	09 03 0051	N12 W31	08 31.7		B	DAO	90	5	10	3
6812		PALE	09 03 0300	N11 W32	08 31.7		B	ESO	100	13	11	2
6812		SVTO	09 03 0735	N12 W37	08 31.5		B	DAO	50	11	10	3
6812		RAMY	09 03 1205	N11 W38	08 31.6		B	DAO	110	20	10	3
6812		BOUL	09 03 1350	N12 W38	08 31.7		B	DAI	90	12	9	1
6812		HOLL	09 03 1510	N11 W40	08 31.6		B	CSO	70	15	10	3
6812	27033	MWIL	09 03 1530	N11 W38	08 31.8	5	(BF)					
6812		PALE	09 03 2100	N11 W42	08 31.7		B	DSO	80	11	8	3
6812		CULG	09 04 0100	N12 W46	08 31.6		B	CSI	50	12	8	3
6812		SVTO	09 04 0728	N12 W48	08 31.7		B	CAO	50	14	8	3
6812		RAMY	09 04 1305	N11 W51	08 31.7		B	CAO	80	9	9	4
6812		BOUL	09 04 1435	N13 W53	08 31.6		B	DSO	70	12	9	2
6812		HOLL	09 04 1720	N11 W53	08 31.7		B	CAO	60	6	8	3
6812		PALE	09 04 1720	N11 W55	08 31.6		B	CSO	80	8	9	3
6812	27033	MWIL	09 04 1800	N12 W54	08 31.7	4	(BF)					
6812		CULG	09 05 0055	N12 W57	08 31.7		B	CSO	60	4	6	3
6812		SVTO	09 05 0650	N12 W62	08 31.6		B	CSO	60	8	10	3
6812		RAMY	09 05 1310	N11 W62	08 31.9		B	CAO	80	8	9	4
6812		BOUL	09 05 1437	N12 W64	08 31.8		B	CSO	60	7	8	2
6812		HOLL	09 05 1750	N12 W69	08 31.5		B	CRO	80	8	9	2
6812		PALE	09 05 1905	N11 W68	08 31.7		B	CAO	70	11	8	4
6812	27033	MWIL	09 05 2345	N12 W68	08 31.9	4	AF)					
6812		CULG	09 06 0045	N12 W70	08 31.7		B	CSO	60	2	1	3
6812		SVTO	09 06 0731	N11 W75	08 31.7		B	CAO	60	3	6	4
6812		RAMY	09 06 1329	N11 W77	08 31.8		B	CAO	20	11	10	3
6812		BOUL	09 06 1445	N11 W78	08 31.7		B	CSO	40	3	6	2
6812		PALE	09 06 1830	N10 W81	08 31.7		B	BXO	60	4	10	4

Stations reporting:

BOUL = Boulder  
CULG = Culgoora

HOLL = Holloman  
LEAR = Learmonth

MWIL = Mt. Wilson  
PALE = Palehua

RAMY = Ramey  
SVTO = San Vito

SUDDEN IONOSPHERIC DISTURBANCES

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AUGUST 1991

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type					Flare (UT)	X-ray Class	NOAA Region
						SWF	SEA	SPA	LF-SPA	SES			
01	0101	0106	0130	1-	1			1			0059E	C5.4	
01	0207	0214	0237	1-	1			1			*		
01	0632	0643	0713	1-	5	1		1	1	6	0629	C4.3	
01	0833	0844	0857	1-	1			1			No flare		
01	0913	0924	1016	1-	5					2	0916	C4.6	6750
01	1043	1056	1056D	1	3	1	1		1	2	1054	C4.0	
01	1104	1119	1127	1-	5			1		1	No flare		
01	1149	1202	1235	1-	5	1	3	1	1	8	1142	C9.2	
01	1441	1503	1514D	2	5	4	2	1	1	15	1447	M2.4	6757
01	1514E	1529	1633	2+	5	3	3	1	1	7	1510	M4.0	6749
01	1810	1819	1852	2-	3					4	1826E	C7.5	6757
01	1917	1920	1945	1+	3					3	1918	C6.3	
01	1921	1933	2005	1-	1			1			1918	C6.3	
01	2149	2207	2312	2+	5	2		1		10	2150	M2.8	
02	0146	0200	0217	1-	1			1			0140		6757
02	0232	0239	0305	1-	1			1			*		
02	0306	0318	0438D	3	5	3		1		4	0307	X1.5	6757
02	0438E	0449	0514D	2+	5			1		3	0435	C8.6	6757
02	0514E	0527	0628	2-	5			1		3	No flare		
02	0645	0700	0719	1-	5			1	1	1	0636		6757
02	0718	0722	0730	1	3		2				*		
02	0822	0855	0955	2+	1					1	*		
02	1013	1029	1117	1	5	3	4	1	1	6	1009	C8.4	
02	1229	1231	1246	1-	3					2	1229		
02	1314	1322	1332	1-	1						1316		6757
02	1354	1358	1421	1	5					2	1354		6749
02	1637	1643	1700	1	1		1				No flare		
02	1828	1832	1844	1-	3					2	1829		6757
02	1905	1915	1925	1-	1					1	1911		6757
02	2118	2203	2305	1-	1			1			2120	C6.0	6765
03	0121	0126	0258	3-	5	2		1		2	0122E	M2.9	6757
03	0307	0328	0346D	2+	3	1		1			0325	M1.4	6757
03	0346E	0416	0625	2+	1			1			0355E		6757
03	1154	1200	1220	1-	5				1	5	1152E		6757
03	1322	1326	1430	2+	1					1	No flare		
03	1346	1348	1403	1-	3					2	1346	C1.8	
03	1421	1421	1435	1-	1					1	1428		6757
03	1546	1550	1616	1+	3					2	1549	C2.7	
03	1704	1719	1825	3-	3					3	1718		6757
03	1841	1848	1925	1-	5	1		1		7	1857	M1.6	6757
03	2035	2049	2142	1-	5	1		1		7	2028		6758
03	2214	2243	2452	3	5	2		1		6	2229E	M7.4	6757
04	0150	0204	0302	1-	1			1			No flare		
04	0504	0515	0528	1	3		2				0508		6757
04	0946	0947	1000	1-	1					1	0947		6749
04	1059	1121	1140	1	3		2				*		
04	1140	1159	1218	1+	3		2				1157		6749
04	1330	1340	1355	1-	1					1	1343		6766
04	1511	1515	1538	1	5					2	1507	C2.2	6749
04	1800	1803	1827	1	5					8	1809	M1.7	6757
04	1810	1814	1913	2	5					7	1809	M1.7	6757
04	1928	1930	2002	2	1					1	1932		6749
04	1958	2019	2052	1-	1			1			*		
04	2142	2147	2216	1-	5			1		1	2146	C4.2	6749
04	2145	2208	2246	1	1			1		1	2146	C4.2	6749
05	0030	0054	0054D	1-	1			1			0027	C3.7	6757
05	0300	0309	0335	1-	1			1			0259	C2.0	6757
05	0528	0532	0711	2	5	1	3	1	1	2	0528		6749
05	1010	1021	1055	1	3		2				*		
05	1300	1306	1314	1-	1						1304		6757
05	1357	1404	1417	1-	5					4	1357	C1.9	6757
05	1524	1529	1545	1-	5				1	8	1523	C3.6	6757
05	1633	1651	1728	1-	1			1			No flare		

\* = no flare patrol.

SUDDEN IONOSPHERIC DISTURBANCES

AUGUST 1991

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type					Flare (UT)	X-ray Class	NOAA Region
						SWF	SEA	SPA	LF-SPA	SES			
05	1826	1831	1846	1	1						1826		6749
05	2020	2040U	2100	2	1						2012		6749
05	2208	2214	2224	1-	1						2215		6749
05	2233	2244	2300	1+	5						No flare		
05	2256	2305	2326	1-	5			1			2253	C2.4	6757
06	0042	0046	0120	2	1						0042	C3.0	6757
06	0046	0105	0150	1-	1			1			0042	C3.0	6757
06	0215	0227	0313D	1-	1			1			0212		6757
06	0308E	0317	0417	1-	1			1			0301		6757
06	0440	0449	0720	3	5	1		1		4	0438		6757
06	0524	0530	0615	2	1		1				0539		6758
06	0535	0554	0657	2-	3		2				0539		6758
06	0800E	0807	0843	2	1					1	0755		6758
06	1408	1415	1439	1+	1						1410		6758
06	1726	1730	1745	1	3		2				1735		6764
06	1926	1928	1950	1	3					2	No flare		
06	2240	2247	2319	1-	5			1		1	No flare		
07	0631	0638	0724	1-	5			1	1	4	0627		6769
07	0821	0827	0857	1+	1		1				0832	C1.1	
07	1148	1155	1215	1-	3				1	1	1150	C3.1	6757
07	1412	1422	1442	1	1					1	1416E	C1.4	6758
07	1831	1833	1855	1	5					2	1833		6757
07	1902	1914	2037	2-	5	1		1		6	1901	C2.6	6758
08	0246	0300	0317	1-	1			1			0244	C1.7	
08	0405	0412	0412D	1-	1			1			0401	C2.5	6757
08	0620	0631	0729	1	5			1		3	0617E	C5.4	
08	0621	0652	0728	1-	5			1	1	3	0617E	C5.4	
08	0725	0755	0912	3	1		1				*		
08	0759	0813	0845	2	3		2				No flare		
08	0856	0901	1005	1	5	1		1	1	5	0850	C6.3	6757
08	1411	1422	1454	1-	5	1	4	1	1	7	No flare		
08	1759	1800	1820	1	1					1	1759	C1.4	
09	0031	0040	0054	1-	1			1			0032	C1.7	
09	0141	0152	0214	1-	1			1			0148E	C2.1	
09	1030	1035	1045	1-	1						1034	C1.5	6757
09	1053	1106	1118	1	1						*		
09	1432	1446	1505	1	3		2				No flare		
09	1624	1644	1745	2	1		1				1600	C1.4	
10	0716	0804	0822	1	1			1			No flare		
10	1349	1400U	1520	2	1			1			No flare		
10	1349	1452	1522	1+	3			2			No flare		
10	1920	1926	1935	1-	1					1	1921	B8.5	6765
11	0710	0726	0742D	2	1			1			No flare		
11	0742	0802	0824D	3	1			1			No flare		
11	0824	0835	0843D	1	1			1			No flare		
11	0843	0858	0915	1	1			1			No flare		
11	1037	1105	1148	2	1			1			No flare		
11	1300	1304	1319	1-	3					2	1303	C1.0	
11	1512	1520	1630	2+	1					1	No flare		
11	1642	1642	1703	1	1					1	No flare		
11	1716	1718	1725	1-	1					1	No flare		
12	1400	1428	1511	2	1			1			No flare		
12	1906	1914	1935U	1+	1					1	1909	C1.5	6767
12	2002	2012	2041	2-									
13	0106	0130	0204	1-	1			1			No flare		
13	0515	0525	0546	1-	1			1			No flare		
13	1330	1340	1600	2	1			1			No flare		
13	1520	1524	1529	1-	1					1	1520		6777
13	1847	1914	1941	2	1					1	1847		6778
13	2112	2133	2145	1-	5			1		1	*		

\* = no flare patrol.

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Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type					Flare (UT)	X-ray Class	NOAA Region
						SWF	SEA	SPA	LF-SPA	SES			
14	0242	0250	0310	1-	1			1			*		
14	0319	0323	0338	1-	1			1			0318	C2.3	6776
14	0447	0452	0502	1-	1			1			0443	C1.6	6776
14	1030	1100U	1117	1	1					1	*		
14	1150	1152	1200	1-	1					1	1151		6776
14	1316	1319	1333	1-	1					1	1316	C2.3	
14	1413	1417	1435	1	3					2	1412		6773
14	1508	1511	1530	1	1					1	1508		6782
14	1839	1844	1859	1-	3					2	1843		
15	0141	0153	0245	1-	1			1			0145		
15	0636	0643	0657	1-	1			1			*		
15	0702	0712	0731	1-	1			1			*		
15	0732	0735	0800	1+	1					1	0728		6768
15	0817	0824	0852	1-	5			1	1	1	0813		6781
15	1335	1345	1400	1-	5	1	2		1	1	*		
15	1614	1618	1629	1-	5					6	1614	C3.8	
15	1758	1801	1832	2-	3					4	1759	C6.1	6784
15	2131	2137	2147D	1-	5	1		1			*		
15	2300	2307	2329	1-	5			1		1	No flare		
16	0046	0057	0132D	2+	5	2		1		1	0044E	M1.9	
16	0120	0124	0128	1-	1	1					0118		6784
16	0130E	0138	0244	1+	3	1		1			No flare		
16	0432	0441	0513	1-	1			1			*		
16	0523	0549	0613	1-	1			1			0519		6774
16	0617	0625	0757	3	5	4	6	1	1	7	0617		6786
16	1056	1108	1145	1-	3	1	1			3	1055E		6774
16	1154	1158	1222	1+	3					2	1150		6786
16	1309	1315	1327	1-	1					1	1309		6784
16	1433	1446	1507	1-	5			1		2	*		
16	1547	1603	1708	2+	1						1547		6783
16	1808	1817	1839	1-	5			1		9	1810E	C9.8	6786
16	1859	1903	1919	1-	3					6	1851	C7.3	6786
16	1943	1953	2042	1-	5			1		5	1943E	C9.6	6772
16	2125	2145	2218	1-	5	1		1		1	2117		6784
16	2303	2318	2335	1-	5	1		1			No flare		
17	0026	0034	0137	2	5			1		1	0021	M1.4	6784
17	0145E	0153	0222	1-	1			1			0144E	C5.3	
17	0342	0351	0435	1-	1			1			0342		6790
17	0757	0812	0855	1-	1			1			0800	C3.4	6781
17	1048	1057	1120	1+	3					2	No flare		
17	1426	1428	1438	1-	1					1	1427		6785
17	1735	1743	1800	1+	1					1	1740	C2.7	6784
17	1917	1921	1932	1-	1					1	1917	C2.7	6781
17	2125	2142	2155	1-	5			1		2	2124	C4.2	
17	2206	2214	2230	1-	1			1			2206	C4.7	6786
17	2336	2347	2422	1-	1			1			2334E	C4.1	
18	0243	0248	0306	1-	1			1			0239	C2.6	6786
18	0316	0323	0347	1-	1			1			0317	C3.3	6786
18	0555	0620	0659	1-	1			1			0558		6790
18	0732	0746	0804	1-	5		2	1			0732		6785
18	0825	0849	0927	2	3		2				No flare		
18	0944	0946	0956	1-	5			1	1	3	0940	C3.1	6788
18	1018	1023	1052	1-	5		1	1	1	3	1018	C3.7	6786
18	1130	1140	1157	1+	1					1	1127E		6791
18	1233	1236	1247	1-	1					1	1231	C2.8	
18	1253	1303	1334	1	5	2	5	1	1	12	1249		6788
18	1432	1456	1542D	1	5		3	1	1	11	1449	C8.5	6791
18	1542E	1554	1638	1-	5		2	1	1	9	1534	C8.2	6786
18	1612	1640	1734	1	3		2				No flare		
18	1734	1740	1807	1	3					6	1736		6786
18	1804	1817	1836	1+	3					3	1805		6791
18	1826	1833	1906	2-	5					4	1829		6786
18	1932	1936	1950	1-	3					3	1933	C3.9	
18	2003	2012	2045	1-	5			1		5	2006	C4.8	6786

\* = no flare patrol.

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Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type					Flare (UT)	X-ray Class	NOAA Region
						SWF	SEA	SPA	LF-SPA	SES			
19	0531	0546	0657D	1+	3	1		1			0532	C8.4	6774
19	0657E	0701	0732	1-	5		1	1	1	3	0657	C5.1	6786
19	1318	1329	1358	2-	1					1	1320		6786
19	1326	1400U	1538	2	1		1				No flare		
19	1437	1443	1450U	1-	1					1	1442		6786
19	1619	1622	1645	1+	1					1	1615		6786
19	1800	1805	1815	1-	3					2	1800		6786
19	1843	1845	1854	1-	1					1	1844		6786
19	2144	2158	2222	1-	1			1			No flare		
19	2249	2259	2311	1-	1			1			*		
20	0605	0615	0640	1+	1		1				0624	C2.4	
20	1047	1052	1117U	1+	1					1	1056	C4.5	6791
20	1216	1231	1400	2	5	3	4	1	1	12	1204	M1.7	6784
20	1330	1400U	1430D	1+	1		1				1331E		6781
20	1545	1549	1557	1-	1					1	1543	C2.5	6786
20	1604	1609	1622	1-	1					1	1608	C3.2	6781
20	1945	2000	2028	2	1					1	1949	C4.1	6787
20	2100	2109	2127D	1-	5			1		2	2100	C4.6	6781
20	2127E	2133	2202	1-	5			1		1	2133	C3.0	6781
20	2225	2228	2259	1	1					1	2235	C2.2	
20	2246	2256	2322	1-	1			1			2241		6796
21	0104	0112	0125	1-	1			1			0105	C2.2	6787
21	0954	0957	1020	1-	1		1		1		0952	C2.5	
21	1129	1131	1134	1-	1					1	1128	C2.3	
21	1325	1352	1404	1	1		1				No flare		
21	1437	1438	1447	1-	1					1	1426	C2.2	6782
21	1729	1730	1750	1	3					4	1730	C3.2	6782
22	0158	0208	0222D	1-	1			1			No flare		
22	0223	0242	0326D	1+	3	1		1			0228E	C6.3	
22	0458	0527	0547D	1-	1			1			No flare		
22	0547E	0557	0702	2+	5	2		1	1	2	0548	M1.3	6795
22	0934	0948	1028	1	1		1				No flare		
22	1032	1042	1108	1	1		1				1045		6791
22	1520	1526	1544	1	5		2			3	1524	C4.9	
22	1649	1700	1721	1	1		1				1650		6784
22	1710	1715	1722	1-	1					1	1721		6784
22	1905	1910	1935	1+	3					7	1905	C6.2	
22	2112	2234	2538D	2	5	1		1		3	*		
23	0135	0141	0150	1-	1	1					No flare		
23	0152	0208	0249D	1	3	1		1			*		
23	0249E	0257	0345D	1-	3	1		1			0240		6786
23	0345E	0354	0442	1-	1			1			0344	C4.7	
23	0545	0558	0640	1-	1			1			0547	C3.7	6781
23	1125	1135	1135D	1-	3	1				1	1138	C4.6	6791
23	1150	1158	1225	1-	5				1	3	1148E		6791
23	1238	1242	1310	1-	5				1	3	1237		6793
23	1731	1737	1753	1	1					1	1735	C3.2	
23	1844	1850	1904	1	1						1845		6786
23	1931	1938	2007	2-	3					5	1935	C5.1	6786
23	2138	2145	2157D	1-	5	1		1		4	2138	C6.5	
23	2156E	2205	2224	1-	5			1			*		
24	0023	0035	0150	2	5	2		1		2	0032E	M1.2	6786
24	0236	0248	0308	1-	1			1			No flare		
24	0955	1000	1009	1-	1					1	0959		6788
24	1058	1108	1135	1-	5		1	1	1	3	1100	C4.4	6786
24	1201	1201	1215D	1-	1					1	1200		6781
24	1217	1233	1301	1-	5		5	1	1	6	1230		6805
24	1306	1311	1320	1-	1					1	1311	C6.0	6781
24	1314	1316	1330	1-	5		1		1	5	1311	C6.0	6781
24	1343	1349	1407	1	3					2	1352	C3.7	6786
24	1420	1423	1440	1-	5					6	*		
24	1441	1451	1514	1	1	1					*		
24	1635	1640	1716	1-	5	1	2	1	1	11	1635E		6781

\* = no flare patrol.

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Aug 91

AUGUST 1991

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type					Flare (UT)	X-ray Class	NOAA Region
						SWF	SEA	SPA	LF-SPA	SES			
24	1725	1731	1755	1+	3					2	No flare		
24	1819	1821	1845	1+	1					1	No flare		
24	1932	1943	2025	1-	5			1		8	1933	C8.5 6781	
24	2038	2048	2131	1-	5			1		4	*		
24	2133	2142	2158	1-	5			1		3	2130	C4.5	
25	0027	0112	0517	3	5	1		1		1	0026	6805	
25	0045	0145	0220	2+	1	1					No flare		
25	0517E	0522	0830	2+	5	1		1		3	0504	6805	
25	0934	0947	1033	2-	5	2	2	1	1	5	0936	6781	
25	1111	1117	1130	1-	1		1		1		*		
25	1232	1237	1305	1-	1					1	1250	6805	
25	1311	1318	1350	1-	5		2		1	5	No flare		
25	1359	1422	1443	1	1		1				No flare		
25	1436	1451	1507	1-	5	1	2	1	1	3	1419	6805	
25	1540	1549	1629	1-	5	1	1	1	1	9	1535	C6.1	
25	1606	1609	1640	1+	1					1	1606	6781	
25	1654	1701	1720	1+	1					1	1657	6806	
25	1741	1743	1813	1+	3					4	1741	C4.7	
25	1820	1837	1900	1-	5			1		7	1818	M1.0 6807	
25	2042	2049	2104	1-	1			1			No flare		
25	2127	2143	2154D	1-	1			1			2147	6810	
25	2154E	2208	2227	1-	1			1			2147E	6810	
25	2316	2336	2536	3-	5	2		1		1	2317E	6810	
26	0343	0351	0514	2+	3	1		1			0341	M1.2	
26	0535	0541	0644D	3-	5	1	2	1	1	2	0542	M1.6 6810	
26	0643E	0702	0713	1-	5	1		1	1	2	0644	C4.1	
26	0721E	0731	0753D	1-	5	1		1	1	1	No flare		
26	0753E	0807	0900D	2	5	1	1	1	1	6	0755	C9.5	
26	0845	0846	0905D	1	1					1	0857	C8.3	
26	0857E	0927	1012D	2	5	1	1	1	1	5	0857	C8.3	
26	1012E	1027	1120	2-	5	3	3	1	1	7	1009	M1.2	
26	1154	1209	1241	2	5	3	3	1	1	8	1153	M1.5	
26	1318	1325	1407	2	1	1					*		
26	1424	1431	1452	1	5	1	7	1	1	10	1422	C6.5	
26	1536	1553	1625	2+	1					1	1556	6806	
26	1944	1945	1959	1-	1					1	1944	6805	
26	2000	2016	2038	2	1					1	1957	6798	
26	2346	2406	2505	1-	1			1			No flare		
27	0352	0406	0419D	1-	1			1			No flare		
27	0419E	0425	0456D	1-	1			1			No flare		
27	0455	0503	0538	1-	5			1			0454	C4.9	
27	0556	0558	0613	1-	1					1	No flare		
27	0605	0618	0634	1-	1			1			No flare		
27	0816	0832	0839	1-	1			1			No flare		
27	1132	1154	1254	1	1		1				No flare		
27	1405	1423	1445	1-	5		3	1	1	4	1418E	C4.2 6785	
27	1443	1524	1528	1	1		1				1418E	C4.2 6785	
27	1606	1612	1659	1	1					1	1617	C2.3 6785	
27	1758	1804	1815	1-	1					1	1759	6785	
27	2039	2048	2109	1-	1			1			No flare		
27	2154	2201	2228	1-	5	1		1			No flare		
27	2314	2323	2416	1+	5	2		1		1	2314	M1.0 6785	
28	0224	0245	0319	1-	1			1			0219	C3.1 6785	
28	0631	0642	0706	1-	5			1		3	0632	C4.3	
28	1217	1228	1243	1-	5			1	1	1	1203	C4.4	
28	1343	1359	1724	1	1		1				No flare		
28	1520	1524	1558D	2	1					1	1523	6805	
28	1544	1553	1608	2-	5	2				3	1547	C2.6	
28	1556	1605	1717	2	5	2	5	1	1	7	1555	M4.3 6785	
28	1645	1652	1730	2	1					1	1647	6806	
28	1715	1721	1730	1-	1					1	1711	6805	
28	1858	1901	2000	2+	1					1	No flare		
28	1950	1957	2031	1-	5			1		6	1948	C6.7 6805	

\* = no flare patrol.



SUDDEN IONOSPHERIC DISTURBANCES

AUGUST 1991

Day	Start (UT)	Max (UT)	End (UT)	Imp	Wide Spread Index	Number of Station Reports by Type					Flare (UT)	X-ray Class	NOAA Region
						SWF	SEA	SPA	LF-SPA	SES			
29	0006	0020	0032D	1-	1			1			0007	C3.1	
29	0032E	0042	0115	1-	1			1			0032	C4.6	6807
29	0128	0134	0143	1-	1			1			0126	C1.8	
29	0501	0510	0606	3	5	1		1		3	0459	M3.0	
29	0813	0821	0923	1-	5	1	4	1	1	3	0756	C3.5	6811
29	0900	0935	1022	2+	1		1				No flare		
29	0944	0949	1000	1-	5		2	1		1	0950	C2.1	6798
29	1003	1010	1025	1+	1		2				1013		6810
29	1105	1120	1225	2+	3		2				1128	C1.7	6811
29	1314	1322	1350	1-	5	1			1	2	1307		6807
29	1349	1357	1423	2	1					1	1346		6805
29	1625	1630	1718	2	5					3	1624E	C3.8	6811
29	2000	2015	2028	1+	1					1	2002		6807
29	2054	2055	2117	1	1					1	2053		6805
29	2147	2153	2228	1-	1			1		1	2128E		6807
29	2234	2242	2300	1-	1			1			2237		6805
30	0115	0123	0410	3-	5	3		1		3	No flare		
30	0605	0611	0639	1-	1			1			0548	C2.3	6811
30	0735	0742	0807	1-	5			1	1	2	0734	C3.5	6807
30	1324	1338	1430	1	3		3		1	3	1321	C3.5	6807
30	1417	1422	1435	1	1					1	1417		6812
30	1530	1540	1623	1	1		1				No flare		
30	2236	2241	2252	1-	1			1			2231E	C3.2	
31	0152	0207	0353	3	5	2		1		1	0150	M2.9	6811
31	0924	0940	1014	2	1			1			No flare		
31	1206	1215	1230	1	1					1	1209		6811
31	1252	1258	1306	1	1			1			No flare		
31	1613	1623	1643	1	1			1			1612		6808
31	1804	1806	1815	1-	1					1	1804	C1.7	6807
31	2119	2123	2130	1-	1					1	*		

\* = no flare patrol.

OBSERVATORIES REPORTING FOR AUGUST 1991

Amherst, New Hampshire, USA	SES	Madison, Wisconsin, USA	SES
Athens, Georgia, USA	SES	Manahawkin, New Jersey, USA	SES
Ayrshire, Scotland	SES	Maui, Hawaii, USA	SWF
Boksborg, Rep of S. Africa	SES	Nerja, Spain	SES
Cleveland, Ohio, USA	SES	Panska Ves, Czechoslovakia	SES, SEA, SWF
Darmstadt, Germany	SWF	Paterson, New Jersey, USA	SES
Edenvale, Rep of S. Africa	SES	Piscataway, New Jersey, USA	SES
Farsta, Sweden	SES	Rimavska Sobota, Czechoslovakia	SEA
Gettysburg, Pennsylvania, USA	SES	San Francisco, California, USA	SES
Hiraiso, Japan	SWF	Shaker Heights, Ohio, USA	SES
Houston, Texas, USA	SES	Sofia, Bulgaria	SES
Hudson, Ohio, USA	SES	Tucson, Arizona, USA	SES
Inubo, Japan	SPA	Uccle, Belgium	SEA
Johannesburg, Rep of S. Africa	SES	Upice, Czechoslovakia	SEA
Juliusruh, Germany	SWF	Vlasim, Czechoslovakia	SEA
Kandilli, Turkey	SEA	Windsor Locks, Connecticut, USA	SES
Kuhlungsborn, Germany	SEA, SPA	Ziar nad Hronom, Czechoslovakia	SEA
LaCrescenta, California, USA	SES	Zilina, Czechoslovakia	SEA
Locust Grove, Georgia, USA	SES		

Observations are not necessarily continuous.

S O L A R R A D I O E M I S S I O N  
Spectral Observations

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Aug 91

AUGUST 1991

Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
01	0000	0715	CULG				0200.0	0736.0	1				CONT
	0623	1456	LEAR				0623.0E	1456.0U	3				I,S,C,DC
			POTS				0628.2	0630.9	3				IIIG
			POTS				0629.0	0629.2	1				UNCLF
			SVTO				0655.0	0655.0	2				III
			POTS				0655.4	0655.6	1				IIIB
			POTS				0708.1	0708.2	2				IIIG
			SVTO				0720.0	0746.0	2				S
			POTS				0733.1	0733.5	1				IIIG
			SVTO				0826.0	1601.0	2				CONT
			POTS				1053.2	1054.7	2				UG
			POTS				1056.7	1058.0	2				IIIG
	0440	1236	WEIS	1057.3	1058.0	2							IIIB,DCIM
	0830	1402	ONDR	1057.9	1058.0	2							IIIG
			POTS				1106.3	1106.5	1				IIIB
			POTS				1129.9	1130.6	2				IIIG,U?
			SGMR				1136.0	0000.0	2				CONT
			POTS				1156.8	1157.8	2				IIIG
			POTS				1203.7	1213.1	3				IIIGG
			SVTO				1206.0	1323.0	3				S
			WEIS				1206.5	1208.2	2				IIIG
			SGMR				1207.0	1303.0	2				S
			ONDR				1207.2	1208.0	1				IIIG
			WEIS				1222.0	1734.0	1				I,N
			POTS				1222.7	1224.2	3				IIIGG,RS
			WEIS				1222.7	1223.7	2				IIIG
			POTS				1227.1	1231.0	3				IIIGG
			WEIS				1227.2	1232.7	3				IIIGG
			POTS				1254.2	1303.0	2				IIIGG
	1239	1833	WEIS				1254.2	1254.4	1				IIIG
			WEIS				1300.1	1302.8	3				IIIG
			WEIS				1312.5	1313.6	2				IIIB
			WEIS				1315.7	1317.8	1				IIIG
			POTS				1319.2	1319.7	2				IIIG
			POTS				1448.4	1454.3	2				IIIGG,UG,C
			SVTO				1449.0	1642.0	2				S
			WEIS				1449.6	1450.9	2				IIIG,SPIKES
			WEIS	1514.6	1528.4	2							CONT,P,CP
			WEIS				1514.7	1515.2	2				IIIG
			PALE				1639.0	0454.0	1				CONT
			WEIS				1712.3	1712.8	1				IIIG
			SGMR				1715.0	1721.0	2				V
			WEIS				1716.1	1720.2	2				IIIGG,RS
			WEIS				1734.1	1734.3	1				IIIG
			WEIS				1802.0	1820.0	2				I
			PALE				1815.0	1823.0	2				V
			SGMR				1819.0	1823.0	3				V
			WEIS				1819.9	1820.2	2				IIIG
	2050	2400	CULG				2054.5E	2359.5D	1				UNCLF
02	0000	0330	CULG				0001.0	0214.0	1				IIIS
			LEAR				0115.0	0945.0	2				CONT
			CULG				0145.5	0152.5	2				IIIG
			CULG				0155.5	0157.0	1				IIIG
			CULG				0303.5	0308.0	1				IIIN
			CULG				0309.0	0319.5	3	0309.0	0319.5	2	IIIGG
			LEAR				0309.0	0320.0	3				S
			CULG				0321.0	0326.5	1				UNCLF
			SVTO				0423.0	0425.0	2				III
			LEAR				0457.0	0458.0	3				III
			SVTO				0457.0	0458.0	2				III
	0440	1832	WEIS				0457.8	0458.1	2				IIIG
	0500	0715	CULG				0500.0E	0553.0	1				IV C
			WEIS				0503.0	1824.0	2				I,S
			SVTO				0528.0	0631.0	2				S
			WEIS				0528.3	0528.5	2				IIIB
			CULG				0549.0	0549.0	1				IIIB
	0617	1453	POTS				0617.0E	1453.0U	1				I,S,C,DC

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S O L A R R A D I O E M I S S I O N  
Spectral Observations

AUGUST 1991

Observation			Decimetric Band			Metric Band			Dekametric Band			Spectral Type
Day	Start (UT)	End (UT)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
02						0634.0	1741.0	2				CONT
						0648.4	0649.0	1				IIIG
						0818.0	1826.0	2				IIIN
						0818.7	0827.5	2				IIIGG
						0822.0	0825.0	3				III
						0855.1	0855.3	1				IIIG
						0912.1	0912.2	1				RS
						0921.6	0929.2	2				IIIG
			0929.1	0929.2	2							IIIB
						1010.0	1751.0	1				CONT
						1021.4	1021.5	1				IIIB
						1036.8	1044.2	2				IIIGG
						1305.0	1314.0	2				III
						1318.3	1338.0	2				IIIG
						1352.9	1355.4	2				IIIG,RS
						1442.9	1443.0	1				IIIB
						1623.0	0453.0	2				CONT
						1751.0	1810.0	2				CONT
						1810.0	2315.0	1				CONT
						1844.0	1847.0	2				III
						1912.0	2135.0	2				S
	2050	2400				2120.0	2121.0	1				IIIG
						2237.5	2253.0	1				IIIGG
						2315.0	0134.0	1				CONT
						2344.0	2344.0	1				IIIB
03	0000	0610				0020.0	0021.5	1				IIIGG
						0020.0	0021.0	2				III
						0020.0	0021.0	3				III
						0023.5	0026.5	1				IIIG
						0030.0	0037.0	2				III
						0033.0	0035.0	1				IIIGG
						0037.0	0037.5	1				IIIG
						0121.0	0129.0	3				III
						0122.0	0126.0	1				IIIGG
						0123.5	0219.0	1				IIIS
						0131.0	0132.0	2				III
						0134.0	0235.0	2				IV
						0134.0	0946.0	3				IV
						0247.0	0252.0	1				IIIGG
						0247.0	0251.0	2				III
						0300.0	0430.0	1				IIIS
						0425.0	1740.0	3				CONT
						0430.0	0610.0	2				IV
	0441	1830				0508.0	1811.0	2				C
	0648	1451				0648.0E	1451.0U	2				I,N,DC
						0743.0	1157.0	2				I,S,C,DC
						0813.0	1756.0	2				I,S
						1004.0	2314.0	2				IIIN
						1028.3	1028.4	1				CONT
						1041.9	1049.3	3				IIIB
						1048.6	1049.6	3				IIIG,V
			1049.1	1049.2	3							IIIG
						1059.0	1059.1	1				IIIB
						1122.5	1126.6	1				IIIB
						1140.0	1141.0	2				IIIG
						1141.0	1144.9	2				III
						1209.0	1210.0	2				IIIG
						1209.4	1210.2	2				III
						1209.7	1210.2	3				IIIG
						1232.8	1235.5	1				IIIG,V
						1318.7	1355.1	3				IIIG
						1346.0	1349.0	3				IIIGG,RS
						1417.3	1426.0	2				III
						1507.2	1507.7	3				IIIGG,SPIKES
						1513.5	1514.0	3				IIIG
						1604.9	1605.3	3				IIIG
						1605.0	1759.0	3				S
						1644.0	1647.0	3				III

S O L A R R A D I O E M I S S I O N  
Spectral Observations

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Aug 91

AUGUST 1991

Observation Start End Day (UT) (UT) Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
03				1705.0	1707.0	2				III
				1735.0	0453.0	2				CONT
				1758.2	1759.0	3				IIIG
				2158.0	2159.0	3				III
				2332.0	0913.0	1				CONT
04				0048.0	0049.0	3				III
				0102.0	0102.0	2				III
				0116.0	0148.0	2				S
				0210.0	0213.0	2				III
				0223.0	0228.0	3				III
				0230.0	0249.0	2				S
	0230	0712	CULG	0246.0	0247.0	1				IIIG
			LEAR	0250.0	0253.0	3				III
			CULG	0340.0	0340.0	1				IIIG
			LEAR	0341.0	0342.0	2				III
			LEAR	0406.0	0406.0	2				III
			LEAR	0454.0	0500.0	2				III
			LEAR	0511.0	0512.0	3				III
			CULG	0511.5	0511.5	1				IIIB
	0443	1827	WEIS	0511.9	0512.1	2				IIIB
			SVTO	0512.0	1739.0	1				CONT
			LEAR	0549.0	0602.0	2				S
	0629	1445	POTS	0629.0E	1445.0U	2				I,S,C,DC,P
			LEAR	0658.0	0658.0	2				III
			POTS	0759.0	0759.2	1				IIIG
			POTS	0919.1	0919.4	1				IIIB,V
			WEIS	0919.1	0919.3	1				U
			POTS	0939.0	0939.2	2				IIIG
			POTS	0955.8	0959.7	1				IIIG
			WEIS	1016.2	1016.3	1				IIIB
			WEIS	1056.0	1759.0	2				I,N,DC
			SGMR	1058.0	1058.0	1				III
			POTS	1058.6	1058.7	1				IIIB
			WEIS	1058.6	1058.7	2				IIIG
			POTS	1119.1	1119.2	1				DCIM
			POTS		1139.1	1140.2	1			IIIG
			POTS		1156.3	1203.5U	2			IIIGG
			SGMR		1203.0	2305.0	1			CONT
		POTS		1238.6	1241.8	2			IIIGG	
		WEIS		1239.8	1241.6	2			IIIG	
		POTS		1249.9	1250.0	1			IIIB	
		POTS		1255.7	1259.9	1			IIIG	
		WEIS		1258.7	1259.9	2			IIIG	
		POTS		1338.1	1343.0	1			IIIG	
		POTS	1358.1	1358.4	1				DCIM	
		SVTO		1413.0	1501.0	2			S	
		POTS		1415.6	1415.7	2			IIIB	
		WEIS		1415.7	1415.8	2			IIIG	
		WEIS		1425.3	1425.6	2			IIIG	
		POTS		1431.2	1431.3	3			IIIB	
		POTS		1432.2	1445.0U	1			IIIGG	
		PALE		1639.0	0452.0	2			CONT	
		PALE		1745.0	1755.0	2			III	
		SGMR		1745.0	1748.0	3			V	
		WEIS		1745.8	1747.0	3			IIIG,U	
		SGMR		1754.0	1755.0	2			III	
		WEIS		1754.7	1754.9	3			IIIG	
		SGMR		1812.0	1827.0	2			S	
		SGMR		1909.0	1909.0	2			III	
		SGMR		1920.0	1921.0	2			III	
		SGMR		2001.0	2001.0	2			III	
2050	2400	CULG		2058.0	2135.0	1			IS	
		SGMR		2113.0	2114.0	2			III	
		CULG		2114.0	2219.0	1			IIIN	
		LEAR		2350.0	2359.0	1			III	
05		LEAR		0003.0	0004.0	1				III
		LEAR		0013.0	0014.0	1				III

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Observation			Decimetric Band			Metric Band			Dekametric Band			Spectral Type
Day	Start (UT)	End (UT)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
05	0000	0720	CULG			0018.0	0019.0	1				IIIG
			LEAR			0018.0	0019.0	3				III
			PALE			0018.0	0019.0	3				V
			LEAR			0048.0	0109.0	1				S
			LEAR			0113.0	0113.0	2				III
			LEAR			0138.0	0836.0	1				CONT
			LEAR			0218.0	0219.0	2				III
			SVTO			0423.0	1627.0	1				CONT
			LEAR			0437.0	0439.0	2				III
			LEAR			0453.0	0457.0	2				III
			SVTO			0453.0	0529.0	3				S
0445	1313		WEIS			0453.4	0453.6	2				IIIG
			CULG			0454.0	0606.0	2				IIIN
			LEAR			0507.0	0534.0	3				S
			WEIS			0507.7	0507.9	2				IIIG
			WEIS			0521.2	0521.3	2				IIIG
			WEIS			0528.3	0529.0	1				IIIG
			WEIS	0530.2	0530.7	1						IIIG
			LEAR			0605.0	0606.0	3				III
			SVTO			0605.0	0606.0	3				III
			WEIS			0605.9	0606.1	2				IIIG
			LEAR			0653.0	0655.0	3				III
			WEIS			0655.1	0655.2	1				IIIB
0707	1501		POTS			0707.0E	1501.0U	2				I,S,C,DC
			POTS			0736.9	0737.1	1				IIIB
			LEAR			0737.0	0737.0	2				III
			SVTO			0737.0	1039.0	2				S
			LEAR			0836.0	0836.0	2				III
			POTS			0836.6	0836.7	2				IIIB
			WEIS			0836.7	0836.8	2				IIIB
			POTS			0909.2	0909.3	2				IIIG
			WEIS			1031.5	1031.6	2				IIIB
			POTS			1032.6	1035.9	2				IIIG
			SGMR			1035.0	1036.0	1				III
			POTS			1035.7	1038.9	1				IIIG
			WEIS			1035.7	1035.8	2				IIIB
			SGMR			1124.0	1124.0	1				III
			POTS			1136.3	1136.4	1				IIIB
			SGMR			1145.0	2309.0	1				CONT
			POTS			1147.8	1150.0	1				IIIG
			POTS			1207.5	1208.2	2				IIIG
			WEIS			1208.2	1208.3	1				IIIB
			POTS			1222.1	1222.2	2				IIIG
			POTS			1227.0	1227.1	1				IIIB
			POTS	1353.7	1355.7	1						DCIM
			POTS			1356.8	1358.9	1				IIIG
			SVTO			1400.0	1401.0	2				III
1418	1450		WEIS									IIIG
			POTS			1450.2	1452.1	1				IIIG
			SVTO			1451.0	1527.0	2				S
			SGMR			1504.0	1518.0	2				S
			SGMR			1521.0	1524.0	3				V
			SVTO			1521.0	1523.0	3				III
1545	1624		WEIS			1603.0	1624.0	1				I
			PALE			1738.0	1740.0	2				III
			SGMR			1738.0	1740.0	3				III
			SVTO			1738.0	1738.0	3				III
			PALE			1743.0	0452.0	1				CONT
2050	2300		CULG			2050.0E	2300.0D	2				CONTINUUM
			CULG			2132.0	2133.0	1				IIIPAIR
			PALE			2132.0	2134.0	2				III
			PALE			2147.0	2151.0	2				III
			SGMR			2147.0	2151.0	2				III
			PALE			2226.0	2307.0	3				S
			CULG			2228.0	2300.0	2	2228.0	2300.0	1	IIIN
			SGMR			2244.0	2246.0	3				III
			SGMR			2259.0	2300.0	2				III
			LEAR			2327.0	0947.0	1				CONT
			PALE			2337.0	2355.0	2				S

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Observation Start End Day (UT) (UT) Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
05				2340.0	2349.0	2				III
				2351.0	2354.0	3				III
06	0000	0720	CULG	0000.0E	0720.0D	1				CONTINUUM
			CULG	0023.0	0145.0	1				IIIN
			PALE	0026.0	0026.0	2				S
			LEAR	0027.0	0039.0	2				S
			LEAR	0049.0	0050.0	2				III
			LEAR	0105.0	0111.0	2				III
			LEAR	0137.0	0145.0	2				III
			CULG	0238.0	0325.5	1				IIIN
			LEAR	0238.0	0238.0	2				III
			LEAR	0311.0	0311.0	2				III
			LEAR	0325.0	0325.0	2				III
			CULG	0449.0	0450.0	1				IIIPAIR
			LEAR	0449.0	0450.0	2				III
			SVTO	0449.0	0450.0	2				III
			LEAR	0525.0	0544.0	2				S
			SVTO	0526.0	1737.0	2				CONT
			CULG	0534.0	0537.0	1				IIIG
			SVTO	0534.0	0540.0	2				III
	0642	1501	POTS	0642.0E	1501.0U	3				I,C,DC,P
	0728	0810	WEIS	0728.0	1824.0	3				I,S
			POTS	0738.4	0738.5	3				IIIB
			POTS	0801.3	0802.4	1				IIIG
			LEAR	0802.0	0803.0	2				III
			LEAR	0836.0	0838.0	2				III
			SVTO	0836.0	0838.0	3				V
	0820	1053	WEIS	0838.4	0838.5	2				IIIB
			POTS	0859.3	0859.4	1				IIIB
			WEIS	0957.3	0957.7	2				IIIG
			SGMR	1104.0	2308.0	1				CONT
			POTS	1220.0	1220.1	1				IIIB
			SVTO	1237.0	1238.0	3				III
			SGMR	1238.0	1238.0	2				III
			POTS	1238.1	1238.4	2				IIIG
	1135	1824	WEIS	1238.2	1238.4	2				IIIG
			SGMR	1315.0	1315.0	2				III
			SVTO	1315.0	1415.0	3				S
			POTS	1315.4	1315.6	1				IIIB
			WEIS	1315.4	1315.6	2				IIIB,U
			SGMR	1336.0	1341.0	2				III
			POTS	1336.2	1348.6	3				IIIGG
			WEIS	1336.3	1341.3	3				IIIGG
			WEIS	1345.1	1345.7	3				IIIG
			WEIS	1348.5	1348.6	2				IIIB
			SGMR	1454.0	1524.0	2				S
			SVTO	1454.0	1523.0	3				S
			WEIS	1454.9	1455.8	2				IIIG
			WEIS	1519.3	1519.4	2				IIIB
			WEIS	1521.7	1523.4	2				IIIG,U
			WEIS	1610.1	1610.3	2				IIIG
			WEIS	1618.3	1618.5	2				IIIB
			WEIS	1654.6	1654.7	2				IIIB
			PALE	1720.0	0451.0	1				CONT
			WEIS	1733.6	1740.6	2				IIIGG
			SGMR	2009.0	2011.0	2				III
	2050	2300	CULG	2050.0E	2400.0D	2				CONTINUUM
			LEAR	2311.0	0947.0	1				CONT
			LEAR	2340.0	2349.0	2				III
			LEAR	2351.0	2354.0	3				III
07	0000	0720	CULG	0000.0E	0720.0D	2				CONTINUUM
			LEAR	0051.0	0052.0	2				III
			LEAR	0114.0	0114.0	2				III
			CULG	0201.0	0202.0	1				IIIG
			LEAR	0201.0	0202.0	2				III
			SVTO	0446.0	1736.0	2				CONT
			CULG	0502.5	0503.0	1				IIIPAIR

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Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
07	0447	1545	WEIS				0617.4	0617.5	1				IIIB
	0627	1501	POTS				0627.0E	1501.0U	1				I,C,DC,P
			WEIS				1051.0	1100.0	1				I
			SGMR				1136.0	2056.0	1				CONT
	1553	1825	WEIS				1617.0	1630.0	1				I
			PALE				1902.0	1907.0	2				V
			SGMR				1902.0	1907.0	2				V
	2050	2400	CULG				2053.0	2120.0	1				CONTINUUM
08			PALE				0018.0	0019.0	1				III
	0000	0720	CULG				0018.5	0018.5	1				IIIB
	0448	0925	WEIS										
	0629	1501	POTS				0629.0E	1501.0U	1				I,S,C,DC
			POTS				1135.2	1136.5	1				IIIG
			SGMR				1356.0	1421.0	3			IV	
			SVTO				1356.0	1357.0	2				III
			POTS				1357.4	1413.0U	3				IIIGG,C
			WEIS				1357.8	1411.3	3				IIIGG
			SVTO				1358.0	1417.0	3			IV	
	0928	1821	WEIS				1517.0	1526.0	1				I
			PALE				1851.0	1853.0	1				III
			SGMR				1851.0	1854.0	1				III
			PALE				1929.0	0330.0	1				CONT
			SGMR				1932.0	2029.0	1				CONT
	2050	2400	CULG										
09	0000	0720	CULG				0203.5	0203.5	1				IIIG
			LEAR				0333.0	0333.0	1				III
			PALE				0333.0	0333.0	1				III
			CULG				0355.0	0355.0	1				IIIB
			LEAR				0400.0	0401.0	1				III
			CULG				0401.0	0401.5	1				IIIG
			CULG				0444.5	0444.5	1				IIIB
			CULG				0446.5	0446.5	1				IIIG
			CULG				0447.5	0447.5	1				IIIB
			LEAR				0620.0	0620.0	2				III
			CULG				0620.5	0620.5	1				IIIB
			LEAR				0657.0	0658.0	2				III
			SVTO				0657.0	0658.0	3				III
	0450	1555	WEIS				0657.7	0658.1	3				IIIG
			CULG				0658.0	0658.0	1				IIIB
			CULG				0658.5	0658.5	1				IIIB
	0701	1509	POTS				0701.0E	0754.0	1				I,S,W
			POTS				0829.8	0832.9	3				IIIG,U
			SVTO				0832.0	0832.0	1				III
			WEIS				0832.8	0833.0	1				IIIB
			SVTO				0846.0	0847.0	2				III
			POTS				0846.7	0848.0	3				IIIG,I,RS
			LEAR				0847.0	0847.0	1				III
			WEIS				0847.2	0847.5	2				IIIG
			SVTO				0913.0	0914.0	2				III
			WEIS				0913.2	0915.4	2				IIIG
			POTS				0914.0	0915.6	3				IIIG,U
			POTS				0955.0	1509.0U	1				I,S
			POTS				1136.5	1136.6	1				IIIB
			POTS				1249.2	1249.3	1				IIIB
			SVTO				1308.0	1309.0	2				III
			POTS				1308.9	1309.3	2				IIIG
			SGMR				1309.0	1309.0	1				III
		SGMR				1411.0	2046.0	1				CONT	
		POTS				1456.8	1457.1	1				IIIG,RS	
	1622	1822	WEIS										
10	0000	0720	CULG										
	0629	1439	POTS				0629.0E	1439.0U	1				I,S,W
			POTS				0927.1	0927.6	1				RSG,IIIG
			POTS				0958.3	1004.4	2				IIIGG
	0450	1819	WEIS				1002.6	1002.7	2				IIIB
			POTS				1046.0	1046.4	1				IIIG

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Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
10			SGMR				1200.0	1200.0	1				III
			POTS				1200.7	1202.6	1				III G
			POTS				1220.5	1220.7	1				UNCLF
			POTS				1244.2	1252.7	2				III G
			SGMR				1252.0	1252.0	1				III
			POTS				1332.8	1333.5	3				III G
			POTS				1344.1	1344.2	1				III B
			WEIS				1714.7	1715.2	2				III B
			PALE				1832.0	1832.0	2				III
			SGMR				1832.0	1832.0	1				III
	2045	2400	CULG										
11	0000	0720	CULG				0049.5	0053.5	1				IIIN
	0453	0920	WEIS										
	0621	1430	POTS				0705.0E	0705.7	1				III G
			POTS				0807.3	0807.5	1				UNCLF
			POTS				0958.1	1000.5	1				I
			POTS				1016.3	1016.5	1				III G
			POTS				1117.5	1120.2	1				III G
			POTS				1148.1	1148.2	2				III B
			POTS				1153.9	1154.1	1				I
			POTS				1239.3	1245.0	1				III G
			SGMR				1240.0	1243.0	1				III
			SVTO				1240.0	1243.0	2				III
			POTS				1302.2	1302.9	3				III G, V, RS
	0939	1818	WEIS				1302.2	1302.7	3				III G
	0552	1403	ONDR	1302.4	1302.7	3	1302.2	1302.7	3				III G
		PALE				1721.0	1722.0	2				III G	
2045	2400	CULG										III	
12	0000	0720	CULG				0619.0	0619.5	1				III B
			LEAR				0619.0	0620.0	2				III
			SVTO				0619.0	0619.0	2				III
	0635	1521	POTS				0635.0E	1036.0	1				I, S
			POTS				0714.7	0714.8	1				III B
			POTS				0809.2	0810.6	2				III G, RS
	0543	1815	WEIS				0809.6	0810.5	3				III G
	0555	1403	ONDR	0810.0	0810.6	2	0810.0	0810.6	2				III G
			SVTO				0810.0	0810.0	2				III
			POTS				0812.8	0813.2	2				UG
			WEIS				0812.8	0813.0	2				III G
			POTS				1032.5	1032.7	1				RS, III G
			POTS	1032.7	1032.8	1							DCIM
			POTS	1151.3	1151.5	1							DCIM
			WEIS				1151.3	1151.8	3				III G, RS
			POTS				1151.4	1151.9	3				RSG, III G
			SGMR				1320.0	1321.0	1				III
			SVTO				1320.0	1321.0	2				III
			WEIS				1320.7	1321.0	2				III B
			POTS				1320.8	1323.7	2				III G
			POTS				1324.6	1521.0U	1				I
			POTS				1357.1	1358.0	2				III G
			POTS				1435.5	1435.7	1				III G
		SGMR				1706.0	1708.0	1				III	
		WEIS				1706.3	1706.5	2				III B	
		SGMR				2018.0	2018.0	1				III	
2120	2400	CULG											
13	0000	0720	CULG										
	0455	0509	WEIS										
			LEAR				0611.0	0615.0	1				III
			LEAR				0628.0	0628.0	1				III
	0629	1515	POTS				0755.3	0755.7	1				III G
			LEAR				0811.0	0812.0	1				III
			SVTO				0811.0	0812.0	3				III
			POTS				0811.4	0815.5	1				III G
			POTS				0840.8	1100.0U	1				I, S, W
			SVTO				0929.0	0931.0	3				III
	0516	1129	WEIS				0929.4	0929.6	2				III B



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Observation		Decimetric Band			Metric Band			Dekametric Band			Spectral Type	
Day	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)			
13			POTS		0929.5	0931.2	2				IIIG	
			WEIS		0930.9	0931.1	1				IIIB	
			POTS		1012.7	1018.9	3				IIIGG,C	
			SGMR		1016.0	1017.0	1				III	
			SVTO		1016.0	1017.0	2				III	
			WEIS		1016.3	1017.3	3				IIIG	
			WEIS		1113.2	1113.3	2				IIIB	
			WEIS		1115.7	1116.3	2				IIIG	
			SGMR		1116.0	1116.0	1				III	
			POTS		1300.1	1300.3	2				IIIB	
			POTS		1300.4	1300.7	1				I	
			POTS		1331.3	1338.5	1				IIIGG	
			POTS		1357.6	1357.7	3				IIIB	
	1236	1813	WEIS		1357.7	1357.8	2				IIIB	
			SVTO		1512.0	1513.0	1				III	
			WEIS		1513.1	1513.4	1				IIIG	
			SGMR		1519.0	1523.0	2				V	
			SVTO		1521.0	1523.0	3				III	
			WEIS		1521.8	1523.5	3				IIIG	
			SGMR		1618.0	1620.0	2				V	
			SVTO		1618.0	1620.0	2				III	
			WEIS		1618.8	1620.3	3				IIIG	
			PALE		1806.0	1806.0	2				III	
			SGMR		1806.0	1807.0	2				V	
			WEIS		1806.0	1806.6	2				IIIG	
			PALE		1851.0	1852.0	2				III	
			PALE		2032.0	2032.0	1				III	
		SGMR		2032.0	2032.0	1				III		
		PALE		2044.0	2046.0	2				III		
		SGMR		2044.0	2046.0	2				III		
2120	2400	CULG		2256.5	2257.0	2				IIIB		
14	0000	0720	CULG		0230.0	0230.0	1				III	
			LEAR		0320.0	0320.0	1				III	
			LEAR									
	0455	1812	WEIS		1241.1	1241.3	1				U	
	0631	1530	POTS		1339.0	1340.0	1				III	
			SGMR		1339.5	1340.4	2				IIIG	
			POTS		1515.1	1515.7	2				IIIGG	
			POTS		1946.0	2013.0	1				S	
			PALE		1946.0	1948.0	1				III	
			SGMR		2009.0	2013.0	1				V	
	2045	2400	CULG									
	15	0000	0730	CULG		0033.0	0033.0	1				IIIB
				CULG		0035.0	0035.0	1				IIIB
			LEAR		0313.0	0315.0	2				III	
			PALE		0313.0	0315.0	2				III	
			CULG		0313.5	0315.0	2				IIIB	
			LEAR		0519.0	0519.0	2				III	
			LEAR		0644.0	0645.0	2				III	
0642		1517	POTS		0701.9	0702.3	2				UNCLF	
			POTS		0751.0	1517.0U	1				I,S	
			POTS		0756.1	0756.9	1				IIIG	
			SVTO		0811.0	0923.0	2				S	
			POTS		0822.0	0822.1	1				IIIB	
			LEAR		0833.0	0833.0	1				III	
			POTS		0833.5	0833.8	2				IIIG	
0457		1812	WEIS		0833.7	0833.9	2				IIIG	
			LEAR		0846.0	0847.0	2				III	
			POTS		0846.3	0847.0	3				IIIG,V	
			WEIS		0846.3	0847.1	3				IIIG	
			POTS		0922.6	0923.2	3				IIIG	
			WEIS		0923.0	0923.2	3				IIIG	
			POTS		0952.7	0952.8	1				UNCLF	
			POTS		1015.6	1015.9	2				IIIG,RSG	
			POTS		1017.4	1018.2	1				C	
			POTS		1031.4	1031.8	1				IIIG	

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Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
15			POTS				1054.9	1056.0	2				III G,RS
			SVTO				1105.0	1106.0	2				III
			SGMR				1106.0	1107.0	1				III
			WEIS				1106.1	1106.4	2				III G
			POTS				1106.2	1106.3	3				III G
			POTS				1301.4	1301.6	2				UNCLF
			SGMR				1336.0	1338.0	1				III
			SVTO				1336.0	1337.0	2				III
			POTS				1336.6	1337.0	1				III G, I
			WEIS				1336.6	1337.6	3				III G
			POTS				1347.3	1347.4	1				III B
			SVTO				1426.0	1427.0	2				III
			POTS				1426.8	1427.1	2				III G
			SGMR				1427.0	1427.0	1				III
			WEIS				1427.0	1427.2	2				III B
			SGMR				1446.0	1513.0	1				S
			SVTO				1446.0	1540.0	2				S
			POTS				1446.1	1451.5	1				III GG
			WEIS				1446.1	1453.3	2				III G
			WEIS				1507.4	1509.0	1				III G
			WEIS				1512.8	1512.9	1				III B
			WEIS				1517.0	1517.1	1				III B
			WEIS				1525.8	1525.9	1				III B
			PALE				1810.0	1811.0	1				III
			PALE				1910.0	1911.0	1				III
			SGMR				1953.0	1953.0	1				V
			SGMR				2005.0	2006.0	1				III
		2045 2400	CULG				2055.0	2055.0	1				III B
			PALE				2055.0	2055.0	1				III
			SGMR				2055.0	2055.0	1				III
		SGMR				2122.0	2123.0	1				V	
		PALE				2212.0	2214.0	2				III	
		CULG				2213.0	2214.5	1				III G	
		SGMR				2214.0	2215.0	1				V	
		PALE				2333.0	2335.0	1				III	
16			PALE				0102.0	0104.0	2				V
			LEAR				0103.0	0104.0	2				III
		0000 0730	CULG				0103.5	0104.5	1				III G
			LEAR				0147.0	0148.0	1				III
			PALE				0147.0	0147.0	1				III
			CULG				0341.5	0341.5	1				III B
			LEAR				0536.0	0537.0	2				III
		0457 0852	WEIS				0536.2	0536.4	3				III G
			CULG				0536.5	0536.5	1				III G
			SVTO				0543.0	0543.0	1				III
			CULG				0543.5	0543.5	1				III B
		0626 1515	POTS				0626.0E	1515.0U	2				I, S, C, DC
			POTS				0803.2	0803.9	1				III G
			POTS				0815.9	0816.3	3				RSG, C
			WEIS				0816.0	0816.2	2				III B
		0859 1021	WEIS										
			POTS				1051.0	1051.1	2				RS
			POTS				1233.9	1234.0	1				III B
			POTS				1421.6	1421.7	3				III B
		1106 1809	WEIS				1614.0	1631.0	1				I
	2045 2400	CULG											
17		0000 0730	CULG				0142.0	0147.5	1				III GG
			LEAR				0142.0	0149.0	2				III
			PALE				0142.0	0147.0	1				III
			PALE				0312.0	0315.0	2				V
			LEAR				0313.0	0315.0	3				III
			CULG				0313.5	0315.5	1				III G
		0500 0824	WEIS				0544.9	0545.6	3				III G, RS
			CULG				0545.0	0545.0	1				III G
		0629 1455	POTS				0629.0E	1455.0U	1				I, S, C, DC
			LEAR				0702.0	0702.0	1				III
			POTS				0813.4	0829.0U	1				III GG

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	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
17  0829 1809				0926.0	0926.0	2				III
				0926.3	0926.4	1				IIIB
				0947.0	1018.0	2				S
				0947.7	0947.8	1				IIIB
				1011.9	1018.8	3				IIIG
				1017.8	1018.2	2				IIIG
				1105.1	1105.2	1				IIIB
				1120.0	1120.0	1				III
				1120.2	1121.8	2				IIIG
				1120.2	1120.6	2				IIIG
				1223.0	1224.0	2				III
				1223.0	1224.0	3				III
				1223.7	1223.9	2				IIIG,V
				1223.8	1224.1	3				IIIB
				1336.0	1336.0	2				III
				1336.0	1336.0	3				III
				1336.1	1336.2	3				IIIB
				1336.7	1336.4	3				IIIB
				1453.0	1454.0	1				III
				1453.0	1454.0	2				III
			1453.8	1454.1	2				IIIB	
			1752.0	1759.0	1				V	
			1850.0	1851.0	1				V	
2045 2400										CULG
18  0000 0730  0500 1805  0641 1500				0248.0	0248.0	1				III
				0437.0	0800.0	1				CONT
				0557.0	0557.0	1				IIIB
				0613.5	0613.5	1				IIIB
				0625.0	1546.0	2				I,N,DC
				0630.0	0631.0	2				III
				0630.0	0631.0	2				III
				0631.0	0631.0	1				IIIG
				0641.0E	0813.0U	2				I,S,C,DC
				0646.0	0648.0	2				III
				0646.0	0801.0	2				S
				0646.5	0648.5	1				IIIG
				0648.0	0648.1	1				IIIB
				0649.5	0649.6	1				IIIB
				0705.6	0705.7	1				IIIB
				0713.3	0713.4	1				UNCLF
				0718.0	0718.0	2				III
				0733.6	0735.9	2				IIIG
				0806.9	0807.5	2				RSG
				1041.7	1041.9	1				IIIG
				1142.0	1316.0	1				S
				1142.2	1143.5	1				IIIG
				1142.2	1143.4	1				IIIG
				1212.6	1212.7	1				IIIB
				1242.0	1247.0	2				III
				1315.2	1316.4	1				IIIG
				1343.0	1345.0	2				III
				1432.0	1458.0	1				S
				1441.0	1443.0	3				III
				1442.0	1443.0	2				III
				1442.2	1443.1	3				IIIG
				1451.0	1452.0	2				III
				1452.1	1452.4	1				IIIG
				1527.0	2203.0	1				CONT
				1527.0	1527.0	2				III
				1527.8	1527.9	1				IIIG
				1606.0	1609.0	2				V
				1606.0	1609.0	3				III
				1606.4	1609.2	3				IIIG
				1724.6	1724.8	3				IIIG
			2012.0	2012.0	1				III	
			2030.0	2031.0	2				III	
2040 2400			2042.0	2146.0	1				IIIN	
			2058.0	0443.0	1				CONT	

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	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)			
19	0000	0700	CULG				0029.0	0054.0	1				IIIN		
			LEAR				0040.0	0107.0	1				S		
			LEAR				0112.0	0800.0	1				CONT		
			CULG				0149.0	0241.0	1				IIIN		
			LEAR				0149.0	0149.0	2				III		
			LEAR				0208.0	0241.0	2				S		
			LEAR				0304.0	0307.0	2				III		
			0503	0530	WEIS				0526.1	0526.2	1				IIIG
					SVTO				0550.0	0604.0	2				III
	POTS														
	0627	1515	LEAR				0635.0	0636.0	3				III		
			SVTO				0635.0	0640.0	3				III		
			CULG				0635.5	0637.5	1				IIIG		
			CULG				0640.0	0640.0	1				IIIB		
			SVTO				0702.0	0722.0	2				III		
			POTS				0705.8	0705.9	1				IIIB		
			0611	1805	WEIS				0705.8	0705.9	2				IIIB
					SVTO				0738.0	0746.0	2				III
					POTS	0800.5	0800.7	1							DCIM
						WEIS			0808.1	0808.2	1				IIIB
						SVTO			0823.0	0912.0	2				III
						LEAR			0829.0	0829.0	1				III
				WEIS			0829.1	0829.3	1				IIIG		
				POTS			0911.7	0912.0	1				UNCLF		
				WEIS			0912.8	0915.7	2				IIIG, SPIKES		
	0553	1403	ONDR	0913.3	0915.8	2	0913.3	0915.8	2				IIIG		
			SVTO				1018.0	1026.0	2				III		
			POTS				1023.6	1026.2	1				IIIG		
			WEIS				1023.7	1025.2	2				IIIG		
			WEIS				1038.7	1038.8	1				IIIG		
			POTS	1044.4	1044.5	2							DCIM		
			WEIS				1044.5	1044.6	1				IIIG		
			WEIS				1102.5	1102.7	2				IIIG,U		
ONDR			1102.6	1102.8	2	1102.6	1102.8	2				IIIG			
SVTO						1154.0	1155.0	2				III			
WEIS						1207.0	1207.3	1				IIIG			
SVTO						1245.0	1321.0	1				S			
WEIS			1253.9	1254.2	1							IIIG			
SVTO						1351.0	1357.0	2				III			
POTS						1355.1	1357.0	1				IIIG			
WEIS						1355.1	1358.2	2				IIIG			
SVTO						1436.0	1446.0	2				III			
POTS						1446.2	1446.4	1				IIIB			
WEIS				1446.3	1446.4	1				IIIB					
WEIS				1526.1	1526.3	1				IIIG					
WEIS				1639.2	1639.5	2				IIIG					
2040	2400	CULG													
20	0000	0730	LEAR				0102.0	0109.0	2				III		
			CULG				0105.0	0106.0	1				IIIG		
			PALE				0105.0	0109.0	2				III		
			CULG				0109.0	0111.0	1				IIIG		
			LEAR				0310.0	0310.0	1				III		
			CULG				0541.0	0544.0	1				IIIGG		
			SVTO				0541.0	0551.0	2				III		
			0502	1657	WEIS				0541.9	0544.0	1				IIIG
					CULG				0549.0	0552.0	1				IIIGG
	LEAR						0813.0	0814.0	2				III		
	SVTO				0813.0	0814.0	3				III				
	WEIS				0813.0	0814.4	3				IIIG, SPIKES				
	0629	1509	POTS				0813.2	0814.2	2				IIIG		
			POTS	1059.3	1059.5	2							IIIG		
			WEIS	1059.4	1059.5	2							IIIG		
	0553	1403	ONDR	1059.5	1059.6	2							IIIG		
			SGMR				1138.0	1139.0	1				III		
			SGMR				1213.0	1221.0	3				V		
			SVTO				1213.0	1221.0	3				V		
			WEIS				1213.7	1219.8	3				IIIGG, RS		
			POTS				1213.8	1219.7	2				IIIGG, V		

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Observation Start End Day (UT) (UT) Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
20										IIIGG
	ONDR	1218.3	1219.4	3	1218.3	1219.4	3			S
	SGMR				1223.0	1310.0	1			IIIG
	POTS				1233.8	1234.7	1			S
	SGMR				1411.0	0000.0	1			III
	SVTO				1443.0	1443.0	2			I
	WEIS				1507.0	1521.0	1			V
	SGMR				1509.0	1514.0	2			III
	SVTO				1509.0	1511.0	3			IIIG
	WEIS				1509.0	1510.9	3			SPIKES
	WEIS				1510.1	1513.8	3			S
	SGMR				1552.0	1603.0	1			III
	SGMR				1714.0	1714.0	1			III
	PALE				1832.0	1842.0	2			III
	PALE				2142.0	2147.0	1			III
	SGMR				2143.0	2144.0	1			V
	PALE				2233.0	2237.0	2			IIIG
2040 2400	CULG				2234.0	2236.0	1			III
	LEAR				2358.0	2358.0	2			III
	PALE				2358.0	2358.0	1			III
	CULG				2359.0	2359.5	1			IIIPAIR
21					0105.0	0106.0	1			III
	LEAR				0124.0	0126.0	2			III
	PALE				0124.0	0126.0	1			IIIG
0000 0730	CULG				0124.5	0126.0	1			III
	PALE				0248.0	0251.0	3			IIIG
	CULG				0249.5	0251.5	1			III
	PALE				0316.0	0316.0	1			III
	LEAR				0527.0	0528.0	2			IIIG
	CULG				0528.0	0529.0	1			I,S,DC
0527 1617	WEIS				0545.0	1742.0	3			IN
0555 1402	ONDR				0636.5	1402.0	1			III
	LEAR				0640.0	0644.0	2			III
	SVTO				0644.0	0644.0	1			IIIB
	CULG				0645.0	0645.0	1			III
	LEAR				0700.0	0701.0	2			III
	SVTO				0700.0	0701.0	2			IIIG
0629 1523	POTS				0700.6	0701.0	2			IIIG
	WEIS				0700.7	0701.1	3			IIIB
	CULG				0701.0	0701.0	1			IIIG
	WEIS				0744.5	0744.7	2			SPIKES
	POTS	0941.6	0942.2	2						S
	SVTO				0942.0	0953.0	2			IIIG
	ONDR	0953.5	0953.8	3						DCIM
	POTS	0953.5	0956.9	3						IIIB
	POTS				0953.6	0953.8	3			IIIG,RS
	WEIS				0953.6	0953.9	3			CONT
	SGMR				1200.0	0000.0	1			S
	SVTO				1349.0	1505.0	2			IIIG
	POTS				1353.0	1355.7	2			IIIB
	WEIS				1353.0	1353.2	2			IIIB
	WEIS				1355.1	1355.2	1			IIIB
	WEIS				1505.4	1505.5	2			IIIB
	WEIS				1556.1	1566.2	1			IIIB
1623 1802	WEIS				1852.0	1854.0	1			III
	PALE				1926.0	0052.0	1			CONT
2040 2400	CULG				2131.0	2132.0	1			IIIGG
22					0202.0	0202.0	2			III
0000 0730	LEAR				0202.5	0202.5	1			IIIG
	CULG				0412.5	0412.5	1			I,N,DC
0505 1758	WEIS				0507.0	1653.0	2			III
	SVTO				0551.0	0551.0	2			IN
0553 1402	ONDR				0731.0	1402.0	1			IIIG
	WEIS				0739.7	0739.9	2			IIIG
	WEIS				0805.9	0808.4	3			IIIG
	ONDR	0807.5	0808.3	1	0807.5	0808.3	1			IIIG
0635 1521	POTS				0941.1	0941.3	2			UNCLF

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Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type			
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)				
22			WEIS	1015.6	1015.7	2							IIIB,U			
			WEIS				1410.3	1410.4	1				IIIG			
			WEIS				1503.2	1503.3	1				IIIB			
			SGMR				1805.0	1821.0	1				S			
	2040	2400	CULG													
		SGMR				2041.0	2042.0	1					III			
23	0000	0730	LEAR				0037.0	0042.0	3				III			
			CULG				0039.5	0045.0	1				IIIGG			
			LEAR				0122.0	0122.0	2				III			
			LEAR				0236.0	0237.0	3				III			
			CULG				0243.0	0243.0	1				IIIB			
			LEAR				0352.0	0352.0	2				III			
			CULG				0353.5	0353.5	1				IIIB			
			LEAR				0406.0	0408.0	2				III			
			CULG				0413.0	0414.0	1				IIIG			
	0627	0801	POTS													
			SVTO				0634.0	0643.0	1					III		
			LEAR				0643.0	0644.0	2					III		
	0508	1032	WEIS				0643.5	0643.6	2					IIIB		
			SVTO				0909.0	0910.0	1					III		
	0814	1457	POTS				1001.5	1001.7	1					IIIB		
			WEIS				1001.6	1001.7	2					IIIB		
			POTS	1007.0	1140.0	1								I ? , S		
			WEIS	1026.0	1124.0	2								I		
			SGMR				1652.0	1653.0	1					III		
1037	1759	WEIS				1652.7	1653.1	2					IIIG			
		SGMR				1951.0	1954.0	2					V			
2040	2400	CULG				2107.0	2107.0	1					IIIB			
24	0000	0730	CULG													
			LEAR				0524.0	0524.0	1					III		
			SVTO				0524.0	0524.0	2					III		
			SVTO				0906.0	0906.0	2					III		
			SGMR				1205.0	1206.0	2					III		
			SVTO				1205.0	1206.0	3					III		
			0639	1455	POTS				1205.7	1206.2	2					IIIG
					WEIS				1205.7	1206.0	2					IIIG
			0507	1756	POTS				1345.0	1346.2	1					UNCLF
	SGMR						1345.0	1346.0	1					III		
			SGMR				1510.0	1511.0	1					III		
			SGMR				1624.0	1626.0	2					V		
			SVTO				1624.0	1625.0	1					III		
			WEIS				1624.6	1625.2	3					IIIG		
			SGMR				1752.0	1753.0	1					III		
	2040	2400	CULG				2236.0	2236.0	1					IIIB		
	25	0000	0730	PALE				0039.0	0040.0	1					III	
				LEAR				0040.0	0042.0	1					III	
				CULG				0045.0	0055.0	2					IIIGG	
LEAR							0049.0	0052.0	1					III		
PALE							0049.0	0159.0	3					IV		
LEAR							0052.0	0219.0	3					IV		
CULG							0055.0	0103.0	2					IV		
CULG							0103.0	0120.0	2					IV		
CULG							0218.0	0218.0	1						C	
LEAR					0749.0	0750.0	2						IIIB			
SVTO					0749.0	0750.0	2						III			
0627		1455	POTS				0749.8	0750.0	1					III		
			WEIS				0859.7	0859.9	1					IIIB		
0510		1050	WEIS				0859.7	0859.9	1					IIIG		
			WEIS													
1056		1754	PALE				1820.0	1822.0	2					V		
			SGMR				1820.0	1823.0	2					V		
			SGMR				1830.0	1947.0	1					CONT		
			PALE				1847.0	1847.0	1					III		
	PALE					2103.0	2113.0	1					S			
26	0000	0730	CULG				0020.0	0130.0	1					CONTINUUM		
			CULG				0311.0	0311.5	1					IIIB		

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Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type	
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)		
26			LEAR				0311.0	0316.0	2				III	
			PALE				0311.0	0315.0	1				III	
			CULG				0315.0	0316.5	1				IIIG	
	0510	0815	WEIS											
			CULG				0520.0	0610.0	1				CONTINUUM	
			SVTO				0937.0	1003.0	2				S	
	0834	1752	WEIS				0939.3	0940.4	2				IIIG	
	0629	1505	POTS				0939.7	0943.1	2				IIIG	
			WEIS				1021.2	1021.4	1				IIIG	
			WEIS				1222.7	1223.0	2				IIIG	
2030	2400	CULG				2030.0E	2150.0	1				CONTINUUM		
27			PALE										III	
	0000	0730	CULG				0200.0E	0400.0	1				CONTINUUM	
	0638	0822	POTS											
	0513	1541	WEIS				0743.0	0743.3	1				IIIG	
			WEIS				0850.8	0850.9	1				IIIB	
	0840	1521	POTS	1112.1	1112.2	1							DCIM	
			POTS				1140.5	1140.6	1				IIIB	
			SGMR				1338.0	1412.0	1				S	
			SVTO				1343.0	1351.0	1				III	
			POTS				1343.8	1344.1	1				IIIB,V	
			POTS				1402.2	1409.5	2				UNCLF	
			SGMR				1408.0	1410.0	2				V	
			SVTO				1408.0	1409.0	2				V	
			WEIS				1408.0	1409.4	3				IIIG	
			SGMR				1502.0	1503.0	1				V	
			SGMR				1611.0	1613.0	1				V	
			SGMR				1615.0	1620.0	2				V	
			SVTO				1615.0	1620.0	2				V	
	1648	1751	WEIS											III
			PALE				1655.0	1656.0	1					V
			SGMR				1754.0	1758.0	1					V
			PALE				1810.0	1811.0	1					V
			SGMR				1842.0	1842.0	1					III
			SGMR				1910.0	1911.0	1					V
			SGMR				1915.0	1919.0	1					III
			PALE				1915.0	1919.0	1					III
			SGMR				1949.0	1954.0	3					V
			PALE				1949.0	1953.0	2					V
			SGMR				2029.0	2056.0	1					V
			SGMR				2035.0	0302.0	1					CONT
	2030	2400	PALE				2155.0	2200.0	1					IIIG
			CULG				2156.0	2203.0	2					III
			PALE				2312.0	2313.5	1					IIIB
		CULG				2315.0	2318.5	1					IIIG	
		LEAR				2325.0	2326.0	1					III	
		CULG				2325.5	2326.1	1					IIIB	
		CULG				2337.5	2338.0	1					IIIB	
		LEAR				2348.0	2349.0	2					III	
		PALE				2348.0	2349.0	2					III	
		CULG				2351.0	2352.0	1					IIIB	
28	0000	0730	CULG				0025.0	0105.0	1				CONTINUUM	
			CULG				0114.0	0114.5	1				IIIB	
			LEAR				0114.0	0119.0	1				III	
			PALE				0114.0	0119.0	2				III	
			CULG				0119.0	0120.0	1				IIIB	
			LEAR				0146.0	0146.0	1				III	
			LEAR				0218.0	0245.0	2				CONT	
			LEAR				0402.0	0406.0	2				III	
			CULG				0402.5	0410.0	2				IIIG	
			PALE				0404.0	0406.0	2				III	
			LEAR				0503.0	0506.0	1				III	
			LEAR				0619.0	0633.0	2				S	
			SVTO				0619.0	0827.0	2				S	
	0629	0855	POTS				0630.0	0630.7	2				IIIG	
	0513	1747	WEIS				0630.0	0630.2	1				IIIB	
			LEAR				0701.0	0713.0	1				S	

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Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type		
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)			
28	0934	1523	WEIS				0725.7	0726.2	1				IIIG		
			POTS				1111.5	1113.4	1				IIIG,C		
			SGMR				1112.0	1113.0	1				III		
			SVTO				1112.0	1114.0	2				V		
			SGMR				1215.0	1217.0	1				III		
			SGMR				1317.0	1318.0	2				III		
			SVTO				1318.0	1318.0	2				III		
			POTS				1318.2	1318.4	3				IIIB		
			WEIS				1318.2	1318.3	1				IIIB		
			SGMR				1556.0	1605.0	3				V		
			SGMR				1607.0	1613.0	1				III		
			PALE				1737.0	1737.0	2				III		
			SGMR				1737.0	1737.0	2				III		
	PALE				2128.0	2129.0	1				III				
	PALE				2232.0	2234.0	1				III				
	PALE				2307.0	2308.0	2				V				
	2030	2400	CULG				2308.0	2308.0	1				IIIG		
			LEAR				2337.0	2338.0	1				III		
	29	0000	0730	LEAR				0123.0	0211.0	1				S	
PALE							0127.0	0133.0	1				III		
CULG							0127.5	0127.5	1				IIIG		
CULG							0132.0	0133.0	1				IIIG		
LEAR							0433.0	0446.0	2				S		
CULG							0434.0	0434.0	1				IIIB		
LEAR							0501.0	0508.0	2				III		
CULG							0503.0	0507.0	1				IIIGG		
SVTO							0505.0	0506.0	2				III		
LEAR							0540.0	0541.0	2				III		
SVTO							0540.0	0541.0	2				III		
0515				0548	WEIS				0540.5	0540.7	2				IIIB
					CULG				0541.0	0541.0	1				IIIG
		LEAR					0602.0	0603.0	1				III		
		CULG					0602.5	0602.5	1				IIIG		
		SVTO					0835.0	0836.0	2				III		
0707		1511	POTS				0835.8	0836.1	2				IIIB		
			LEAR				0836.0	0836.0	2				III		
			POTS				0856.1	0856.4	2				UNCLF		
			POTS				0901.2	0901.3	1				IIIB		
0821		1213	POTS	0908.1	0908.6	2							DCIM		
			SVTO				0913.0	0923.0	2				V		
			POTS				0915.8	0922.0	3				IIIGG		
			LEAR				0920.0	0921.0	2				III		
			WEIS				0920.5	0921.3	1				IIIG		
			POTS				0949.4	1000.3	2				IIIG,I		
			POTS				1022.9	1025.9	3				IIIG,C		
			SVTO				1023.0	1025.0	2				V		
			SGMR				1025.0	1025.0	1				III		
			SVTO				1127.0	1130.0	2				V		
			POTS				1128.2	1129.5	2				IIIG,I		
			SGMR				1303.0	1306.0	1				III		
			SVTO				1303.0	1306.0	2				III		
POTS					1305.0	1306.5	2				IIIG,V,U				
POTS					1355.5	1356.0	1				IIIG				
SVTO					1426.0	1431.0	3				V				
POTS					1426.9	1430.3	3				IIIB,V,C				
SGMR					1427.0	1431.0	3				V				
1253		1747	WEIS				1427.0	1428.9	2				IIIG/V/U		
			SGMR				1534.0	1535.0	2				V		
			SVTO				1604.0	1605.0	1				III		
	SGMR					1658.0	1659.0	1				V			
	SGMR					1715.0	1726.0	1				S			
	SGMR					1841.0	1855.0	2				S			
	PALE					1850.0	1856.0	2				III			
	PALE					2006.0	2015.0	1				III			
	SGMR					2006.0	2014.0	1				S			
	SGMR					2034.0	2035.0	1				III			
	PALE					2117.0	2120.0	2				III			
	2030		2400	CULG				2118.0	2118.0	1				IIIB	



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Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
29			PALE				2138.0	2210.0	2				S
			CULG				2144.0	2212.0	1				IIIS
			CULG				2323.5	2325.0	1				IIIG
			PALE				2342.0	2343.0	1				III
30	0000	0730	PALE				0004.0	0005.0	1				III
			PALE				0120.0	0138.0	1				S
			CULG				0121.0	0122.0	1				IIIGG
			LEAR				0121.0	0138.0	1				S
			CULG				0135.0	0138.0	1				IIIGG
			PALE				0158.0	0159.0	1				III
			LEAR				0208.0	0217.0	3				III
			PALE				0208.0	0210.0	2				III
			CULG				0213.5	0214.5	1				IIIG
			CULG				0216.0	0216.0	1				IIIG
			PALE				0216.0	0223.0	1				III
			LEAR				0220.0	0226.0	1				III
			LEAR				0253.0	0255.0	3				III
			PALE				0253.0	0254.0	1				III
			CULG				0255.5	0255.0	1				IIIB
			LEAR				0455.0	0458.0	1				III
			LEAR				0506.0	0511.0	2				III
			CULG				0507.5	0507.5	1				IIIB
	CULG				0509.0	0510.0	1				IIIG		
	CULG				0615.0	0620.0	1				IIIGG		
	LEAR				0615.0	0620.0	3				III		
	SVTO				0615.0	0627.0	3				S		
	0515	1743	WEIS				0615.3	0617.2	2				IIIG
			POTS				0617.0E	1507.0U	2				I,S,C,DC
	0617	1507	POTS				0617.0E	0639.3	2				IIIGG
			WEIS				0629.8	0620.0	2				IIIG
			LEAR				0716.0	0717.0	2				III
			SVTO				0716.0	0719.0	3				III
			POTS				0716.7	0719.1	2				IIIG
			WEIS				0716.7	0717.0	1				IIIB
			CULG				0717.0	0717.0	1				IIIB
			LEAR				0749.0	0756.0	2				III
			SVTO				0749.0	0750.0	2				III
			POTS				0749.9	0750.0	1				IIIB
			POTS				0817.3	0825.2	2				IIIGG
			POTS				0852.3	0903.3	3				IIIGG
			SVTO				0853.0	0902.0	2				III
			POTS				0926.2	0944.2	2				IIIGG
			SVTO				0931.0	0936.0	2				III
			SVTO				0959.0	1001.0	2				III
			POTS				0959.4	1001.5	2				IIIGG
			POTS				1008.7	1008.8	2				IIIB
			POTS				1102.9	1103.0	1				IIIB
			POTS				1124.3	1124.5	2				IIIB
			POTS				1147.5	1147.9	1				U
			SGMR				1223.0	1224.0	1				V
			SVTO				1223.0	1223.0	1				III
			POTS				1223.2	1223.3	2				IIIB,V
			WEIS				1223.4	1223.9	2				IIIB
			SGMR				1252.0	1303.0	1				S
			SGMR				1344.0	1347.0	2				V
			SVTO				1344.0	1347.0	2				V
			POTS				1344.3	1350.1	3				IIIGG,C,U
			SGMR				1351.0	1351.0	1				III
POTS						1408.9	1409.0	1				IIIB	
POTS						1415.6	1422.9	2				IIIG	
SGMR						1719.0	1719.0	1				III	
SGMR						1820.0	1833.0	2				S	
PALE						1822.0	1826.0	1				III	
PALE						1827.0	1826.0	1				III	
PALE				1849.0	1852.0	1				III			
PALE				1908.0	1910.0	1				III			
SGMR				1908.0	1910.0	1				III			
PALE				1942.0	1945.0	1				III			

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Day	Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
	Start (UT)	End (UT)		Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	
30			SGMR				1943.0	1944.0	1				III
			PALE				2005.0	2012.0	2				V
			SGMR				2010.0	2012.0	2				V
			PALE				2012.0	0434.0	1				CONT
			SGMR				2012.0	2253.0	1				CONT
	2030	2400	CULG				2223.0	2241.0	1				IIIGG
			CULG				2315.0	2400.0	1				IIIS
31	0000	0730	CULG				0000.0E	0103.0	1				IIIS
			LEAR				0110.0	0111.0	1				III
			CULG				0145.5	0146.0	1				IIIG
			CULG				0155.0	0155.0	1				IIIB
			CULG				0157.0	0157.0	1				IIIB
			CULG				0528.5	0528.5	1				IIIB
	0631	0721	POTS				0631.0E	0721.0U	2				I,S,C,DC
	0518	0749	WEIS				0646.0	1722.0	2				I,N
			LEAR				0712.0	0714.0	2				III
			SVTO				0712.0	0714.0	2				III
			CULG				0712.5	0712.5	1				IIIG
			POTS				0712.5	0712.9	2				IIIG
	0903	1503	POTS				0903.0E	1503.0U	3				I,S,C,DC
			POTS				1044.3	1044.4	2				IIIB
			SVTO				1252.0	1252.0	2				III
			SGMR				1540.0	1544.0	1				III
			SVTO				1611.0	1613.0	2				III
	0851	1743	WEIS				1611.2	1613.7	2				IIIG
			SGMR				1613.0	1615.0	1				V
			PALE				1710.0	1710.0	1				III
			SGMR				1710.0	1711.0	1				V
			SGMR				1734.0	1734.0	1				III
			SGMR				1758.0	1806.0	2				V
			PALE				1804.0	1805.0	1				III
			PALE				1842.0	1852.0	1				III
			SGMR				1842.0	1852.0	1				V
			PALE				1946.0	1958.0	1				S
	2030	2400	CULG				2042.0	2046.0	1				IIIG
			PALE				2045.0	2048.0	1				III
			PALE				2154.0	2155.0	1				III
			CULG				2154.5	2155.5	1				IIIB
		CULG				2241.0	2245.0	1				IIIB	
		PALE				2317.0	2318.0	1				III	
		CULG				2318.0	2318.5	1				IIIB	
		CULG				2321.0	2321.5	1				IIIB	

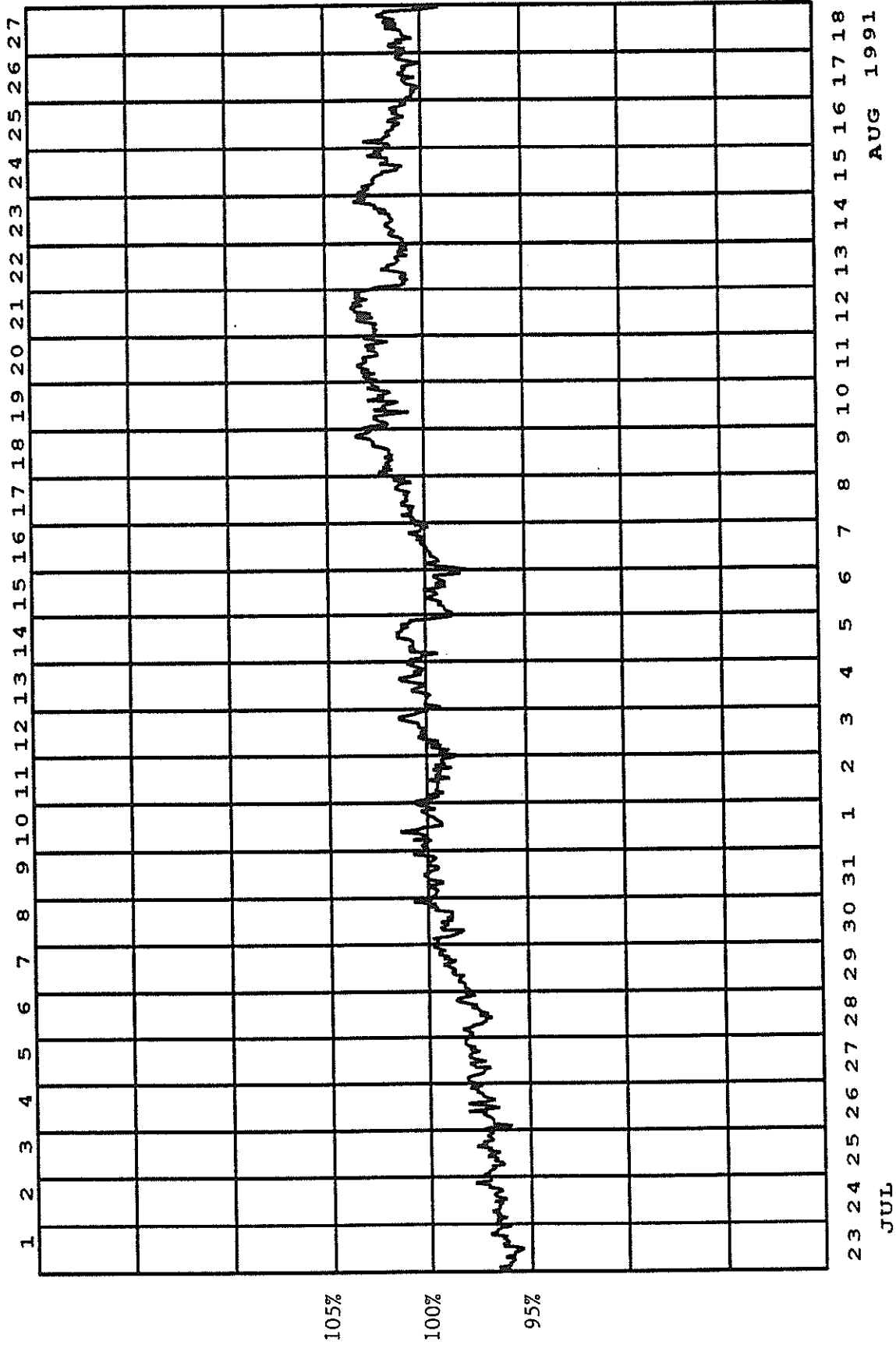
The symbols used under the column heading SPECTRAL TYPE have the following definitions:

- |   |  |
|---|--|
| B = Single burst<br>G = Small group (< 10) of bursts<br>GG = Large group (> 10) of burst<br>C = Underlying continuum (particularly with Type I)<br>S = Storm in the sense of intermittent but apparently connected activity<br>N = Intermittent activity in this period<br>U = U-shaped burst of Type III | RS = Reverse slope burst<br>DP = Drifting pairs<br>DC = Drifting Chains<br>H = Herringbone<br>W = Weak<br>P = Pulsations<br>CONT = Continuum<br>UNCLF = Unclassified activity<br>DCIM = Fast drift |
|---|--|

Stations Reporting:

- |                |                      |                  |                  |                |
|----------------|----------------------|------------------|------------------|----------------|
| BLEN = Bleien  | CULG = Culgoora      | LEAR = Learmonth | ONDR = Ondrejov  | PALE = Palehua |
| POTS = Potsdam | SGMR = Sagamore Hill | SVTO = San Vito  | WEIS = Weissenau |                |

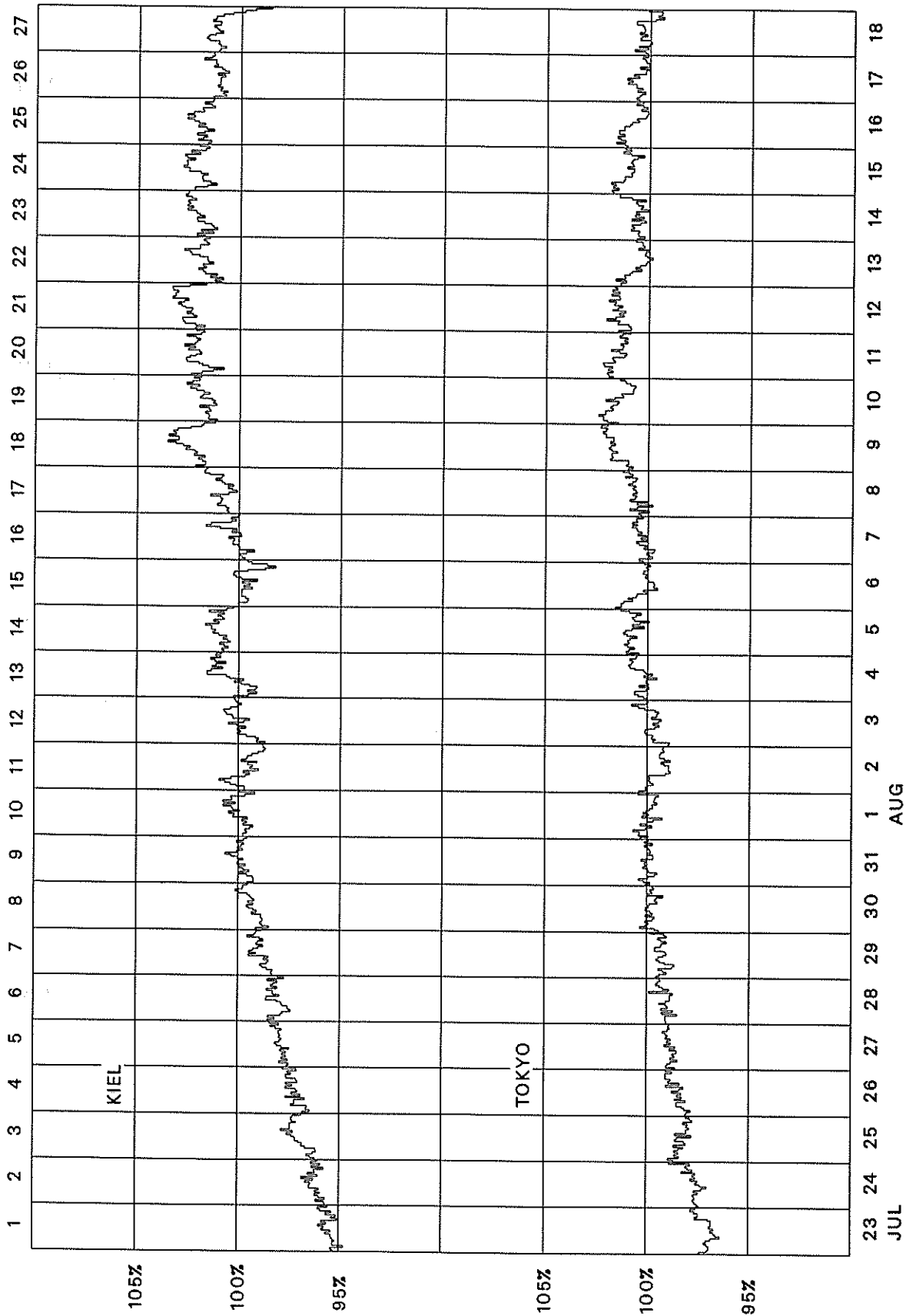
# THULE NEUTRON MONITOR



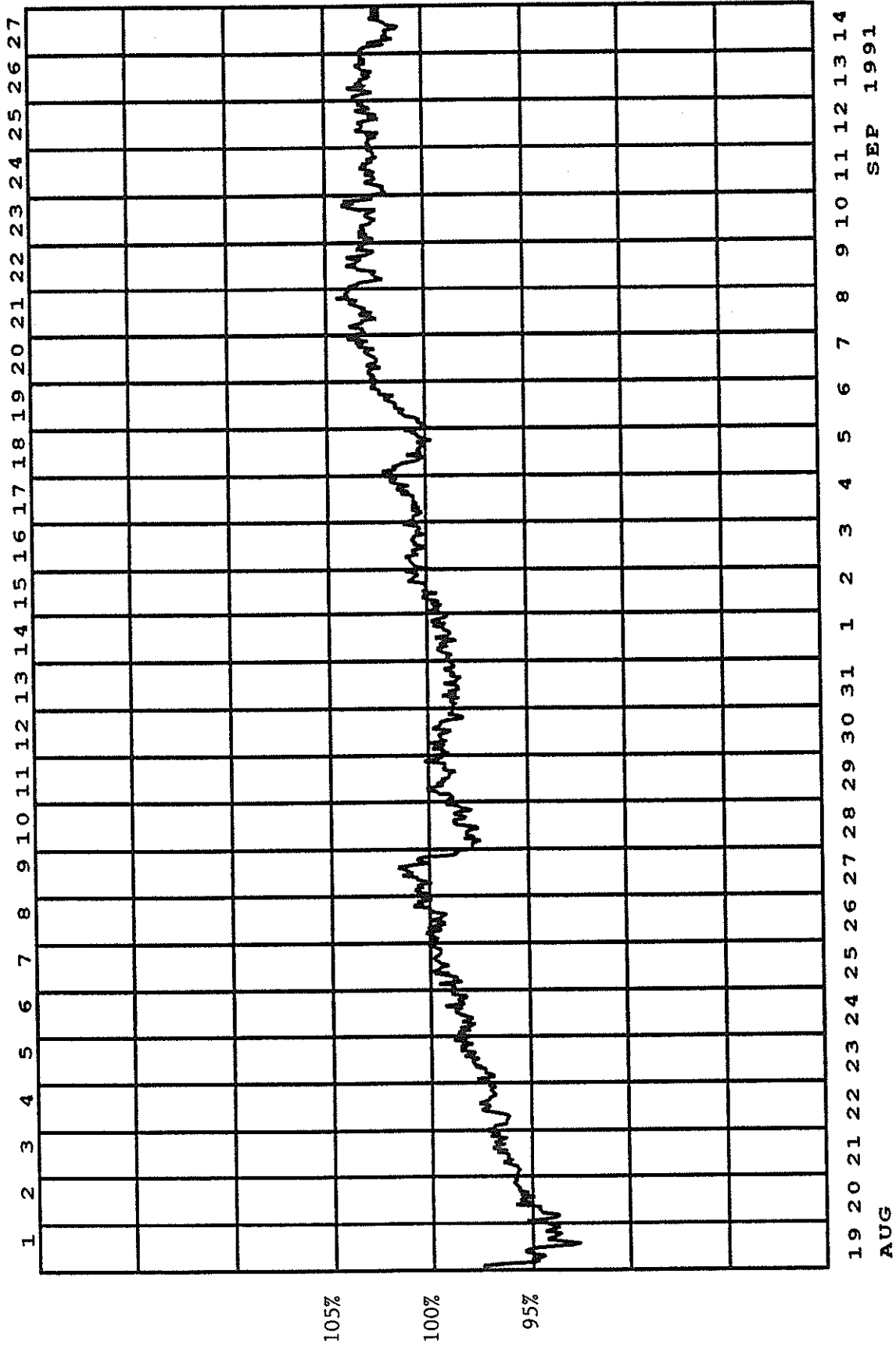
BARTELS ROTATION 2158

# COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2158 (July 1991-August 1991)



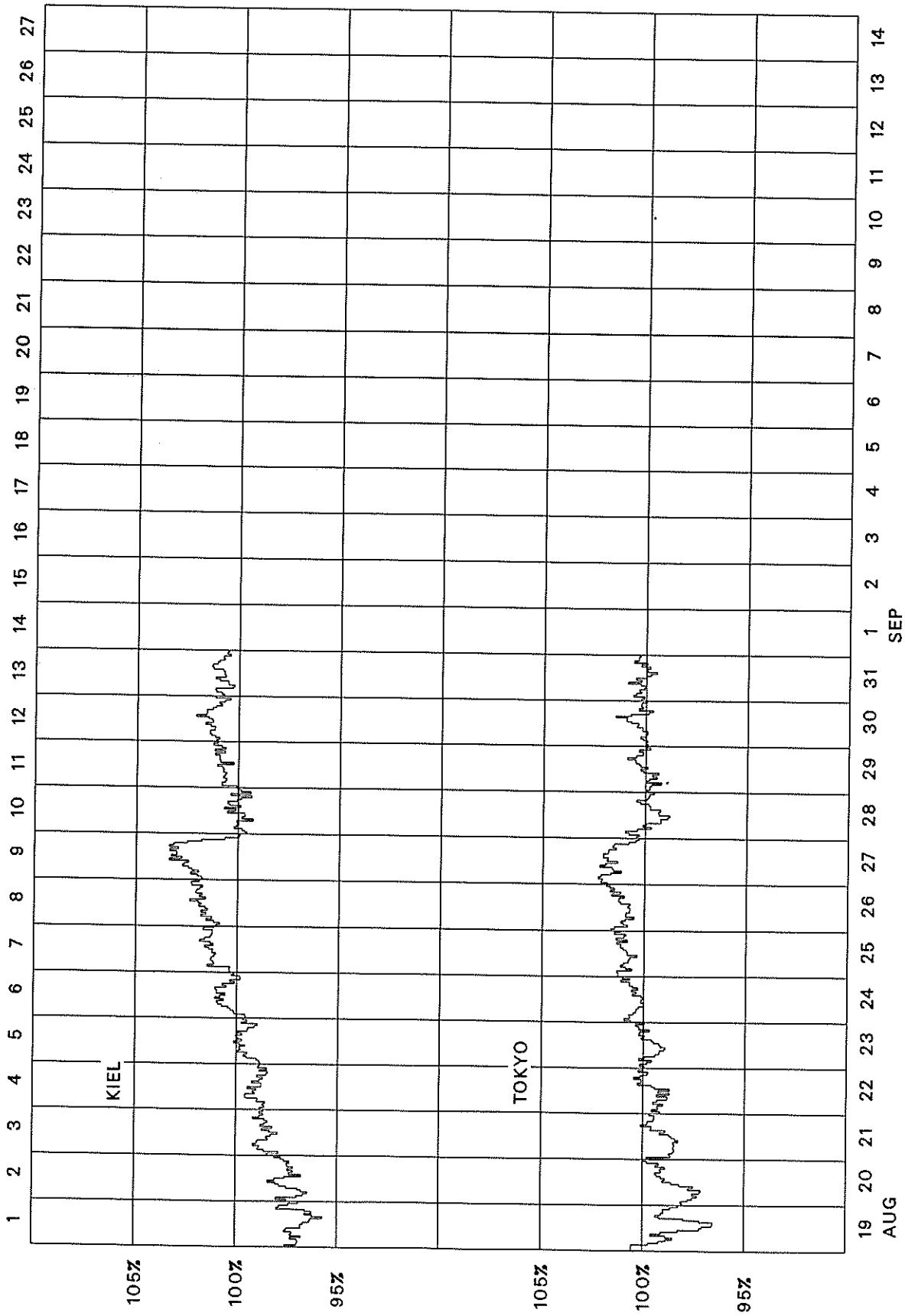
# THULE NEUTRON MONITOR



BARTELS ROTATION 2159

# COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2159 (August 1991-September 1991)



COSMIC RAY INDICES  
(Neutron Monitor)

AUGUST 1991

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3641		5124.2		3290.3	
2	3616		5104.4		3274.0	
3	3641		5122.8		3283.5	
4	3650		5149.1		3302.6	
5	3659		5172.9		3316.6	
6	3607		5106.2		3302.3	
7	3635		5136.7		3301.1	
8	3673		5171.0		3312.2	
9	3721		5250.7		3347.6	
10	3716		5216.1		3342.2	
11	3736		5233.0		3342.8	
12	3746		5262.7		3341.2	
13	3681		5214.3		3111.0	
14	3708		5234.1		3312.0	
15	3716		5236.4		3329.2	
16	3690		5222.3		3319.9	
17	3664		5182.2		3307.0	
18	3678		5173.0		3296.9	
19	3519		4981.2		3251.4	
20	3544		5006.7		3244.7	
21	3587		5067.3		3262.7	
22	3607		5082.1		3278.5	
23	3643		5116.5		3285.9	
24	3666		5161.6		3310.1	
25	3701		5200.2		3327.1	
26	3720		5227.1		3331.6	
27	3734		5256.9		3348.0	
28	3656		5135.8		3288.6	
29	3698		5178.7		3294.5	
30	3693		5203.0		3303.2	
31	3677		5180.3		1300.8	
Mean	3665		5164.9		3305.1	

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.  
\* = A&B includes only hours when both A&B sections are available.

GEOMAGNETIC ACTIVITY INDICES

August 1991

Day	Kp Three-Hourly Indices								Sum	Km Three-Hourly Indices								aa Provisional						
	1	2	3	4	5	6	7	8		Ap	Cp	1	2	3	4	5	6	7	8	Am	N	S	M	
1	4	2-	2-	3-	3-	6	6-	6	30+	36	1.4	3+	2+	2-	3-	3-	5-	4	5-	41	65	27	20	71
2	D4	4-	3+	6+	5+	6	6	4	39+	52	1.6	4-	4-	6-	5	5+	5	3	4+	75	62	67	58	72
3		4+	3+	4-	5-	6+	5	4+	37-	42	1.5	4-	3+	4	4	5	4	3+	5-	57	62	51	42	72
4		6	5+	5	4-	5-	4-	5+	38-	44	1.5	5	5-	5-	4-	3+	3	5-	3+	59	64	44	56	52
5		4	5+	4-	4	4	3-	4+	33+	32	1.3	4-	5	4-	4-	3+	3-	3+	5-	49	50	47	40	58
6		6	5	4+	4	4	3+	3	32-	32	1.3	4+	4+	4-	5-	4+	3	2+	2	48	45	43	59	29
7	Q9A	3	5+	3	1+	2-	2-	2-	21-	16	0.9	3-	5-	4-	2	2-	2	2-	3-	28	31	20	35	16
8	Q6A	3+	3-	3	3+	2+	2-	1-	19+	11	0.6	4-	3	3+	3	2	2-	1	2	23	19	15	23	11
9	Q10A	2+	3	2+	2+	4+	4-	3	24-	15	0.9	2	3	3-	3-	4-	3+	3-	2	27	30	25	22	33
10	Q1A	1+	2+	3	2+	2+	2	1+	17-	8	0.4	1+	2+	3	2+	2	2+	2-	2-	17	19	13	18	14
11		4+	4	4	4-	5-	4	3-	29+	24	1.2	4-	3	4-	3	4	4-	3-	2	37	52	41	49	44
12	D3	3-	3+	5-	4	7+	6-	7+	40-	64	1.7	3-	4	5-	4	6-	5-	6-	5-	79	73	65	44	94
13	Q2A	4-	2-	2	2	2-	1+	2+	16	8	0.5	4-	2	2	2+	2-	2-	2+	2-	19	21	12	19	14
14		1-	1	2-	1	3	4-	5-	21	19	1.0	1+	1	2-	1	2+	3	4-	5-	27	30	23	7	46
15		5	5	5-	4+	4+	4	4+	36	36	1.4	5-	5	4+	3+	3+	4-	4-	4	57	60	37	58	40
16		3+	4	3	3-	3+	3+	3	27-	19	1.0	4-	4	3	3-	3-	3-	3-	4-	34	42	24	31	35
17		3-	4	3+	4+	3+	3+	4	28	21	1.1	3-	4	3	4-	3-	3-	3+	3-	33	43	26	39	31
18		4+	2+	2+	2	3	3	6	28-	26	1.2	4-	2+	2	2	3-	3-	5	4	35	41	26	20	47
19	D1	5-	5-	8-	8-	6	4+	4	42	74	1.8	4	4+	7-	7-	5-	3+	3-	3-	90	88	67	114	41
20	D2	3	3-	5-	7+	8-	5-	5+	40	67	1.7	3	3	5-	6	6	4	4+	4	77	77	80		
21		6	6-	6-	5-	4-	4-	3-	35+	41	1.5	5	5-	5+	4+	3+	3+	2+	3	58	59	36	64	30
22		5	7	6+	4-	4	3	3	36	48	1.6	5	6	5+	4-	3+	3-	2+	3+	66	62	69	98	33
23	Q7A	4	3+	3-	4	2	1-	1+	20	13	0.8	4-	3	3-	4	2-	1	1+	2-	24	26	18	33	12
24	Q5A	3+	3	2+	1	2	3-	3-	20-	11	0.6	3	3	2	1	2	2+	3-	2+	19	28	16	23	21
25	Q4A	3+	3-	2+	2	1+	2	2	18+	10	0.5	3	3-	2+	2	1+	2-	2	2+	19	18	17	21	13
26	Q3A	2	2+	2-	3-	2	2-	3-	17+	8	0.5	2-	3-	2	3-	2-	2-	3-	2+	17	18	15	17	16
27		3	3	3	2	2+	6-	7-	31	37	1.4	3+	3-	3	3-	2	5	5+	5-	50	52	34	20	67
28		4-	3	2	2-	2+	3+	4	24	16	0.9	3+	3-	2	2-	3-	3-	3+	4-	27	29	18	17	31
29	Q8A	1+	1+	2+	2+	3-	3	4+	21+	14	0.8	1+	2-	3-	2+	3-	3	3+	3+	24	26	20	11	35
30		2+	3	3-	4	6-	5+	5+	34+	40	1.5	3-	3	3-	4	6-	5-	5	5+	70	52	61	29	84
31	D5	3+	3+	6-	5+	6	6	4+	39+	51	1.6	3-	3	5-	5-	5	5	3+	4	63	64	66	60	71
Mean									30	1.15									43.5	45.5	36.3		40.8	

Day	Kn Three-Hourly Indices								An	Ks Three-Hourly Indices								Prov				
	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	As	Sa	Ri	Ro	Rs
1	4-	2	2-	3	3	5	4+	5+	49	3+	2+	2-	2+	2	4+	4-	4	34	232.0	132	137	189
2	3+	4-	6-	5-	5	5	3	4	74	4-	3+	5+	5	6-	5-	3	5-	77	213.2	138	140	168
3	4-	3+	4-	4+	5	5-	4-	4	58	4	3+	4+	4-	5-	4-	3	5	56	219.4	143	141	175
4	5-	4+	5-	4-	4-	3	5-	4-	60	5+	5	4+	3+	3+	3	4+	3+	58	198.8	136	124	153
5	4-	5-	3+	4-	4-	3-	4-	4+	47	3-	5+	4-	3+	3	2+	3	5	51	179.4	148	130	132
6	4+	4	4-	4+	4+	3+	3-	2	47	4+	4+	4-	5-	5-	3	2	2	49	171.4	119	119	123
7	3-	5-	4-	2+	2+	2+	2	3-	29	3-	5-	4-	2-	1+	2	1+	3-	26	170.0	120	111	122
8	3	3	3+	3+	2+	2-	1	2+	23	4	3	3+	3-	2	2-	1	2	24	163.5	106	101	115
9	2+	3-	3-	3-	4	4-	3	2+	28	2-	3	3	3-	2	3	3-	2-	26	154.6	89	88	105
10	1+	3-	3+	3-	2+	3-	2	2-	20	1+	2+	3-	2	1+	2	1+	1+	14	145.7	75	75	95
11	4	3+	4	3+	4+	4	3-	2	42	4-	3	3+	3	4-	4-	2	2	32	142.4	86	85	92
12	2+	4-	4+	4+	6-	4+	6-	5-	75	3	4	5	4	6-	5-	6	5-	84	150.7	98	91	101
13	4-	2+	2+	3-	2	2	2+	1+	21	4-	2-	2-	2-	1+	1	2	2-	16	159.5	126	126	110
14	1+	1	2	2-	3-	3+	4	4+	28	1+	1	2-	1-	2-	3	4-	5	27	179.6	122	124	132
15	5-	5-	4+	4-	4-	4	4-	4-	57	5-	5	4+	3	3	4-	3+	4+	57	220.4	164	165	176
16	4-	4	3	3-	3	3	3-	4-	36	4-	4+	3-	2+	2+	2	3	4-	32	270.7	212	204	230
17	3-	4+	3	4	3-	3	3+	3	38	2+	4-	3	4-	2	2	3	3-	28	277.7	257	246	238
18	4-	2+	2	2+	3	3	5+	4+	42	4-	2+	1+	2-	2	2	4	4	29	290.5	279	275	252
19	4	4	7	7-	5	4	3	3	104	4+	4+	6+	6+	4-	2+	2	3-	76	296.6	280	292	258
20	3+	3+	5	6-	6	4	4+	4-	81	3-	2+	4+	6	6-	4	4+	4+	73	293.1	291	290	255
21	5-	5	5+	5-	4-	4-	3-	3+	65	5	4+	5	4-	3	3	2	3	51	291.8	300	312	253
22	5-	6	5+	4-	4-	3-	2+	3	66	5+	6-	5+	4-	3	3-	2+	3+	65	291.5	294	295	253
23	3+	3	3	4	2	1	1+	2	25	4	3-	3-	4-	2-	1-	1	1	24	277.0	275	283	237
24	3-	3	2+	1+	2+	3-	3	3-	22	3	3-	2-	1-	2	1+	2	2	15	255.4	250	242	214
25	3+	3-	2+	2+	2-	2	2+	2+	20	3+	3-	2	2-	1+	2+	2	2	18	243.4	215	200	201
26	2-	3-	2	3-	2	2	3-	2+	18	2-	3-	2-	2	2-	2-	3-	2	16	214.7	177	164	170
27	2+	3-	3	2+	2	5	6-	5-	50	4	3	3+	3-	2+	5-	5-	4+	49	200.4	147	138	154
28	3+	3-	2+	2	3-	3-	3+	4-	27	4-	3-	2-	2-	3-	3-	3+	4-	27	193.7	157	144	147
29	1+	1+	3-	3-	3-	3-	4-	3+	24	1+	2-	2-	2	3	3	3	3+	23	199.2	171	152	153
30	3-	3	3-	4	6	5	5	6-	74	3	3-	3-	4-	5+	5-	5	5+	65	199.4	166	168	153
31	3-	3-	5	5-	5	5-	3+	4	63	3-	3	4+	5-	5	5+	4-	4	63	185.2	167	166	138
Mean									45.6									41.5	215.5	175.5	171.9	170.7



DAILY AVERAGE INDICES Ap

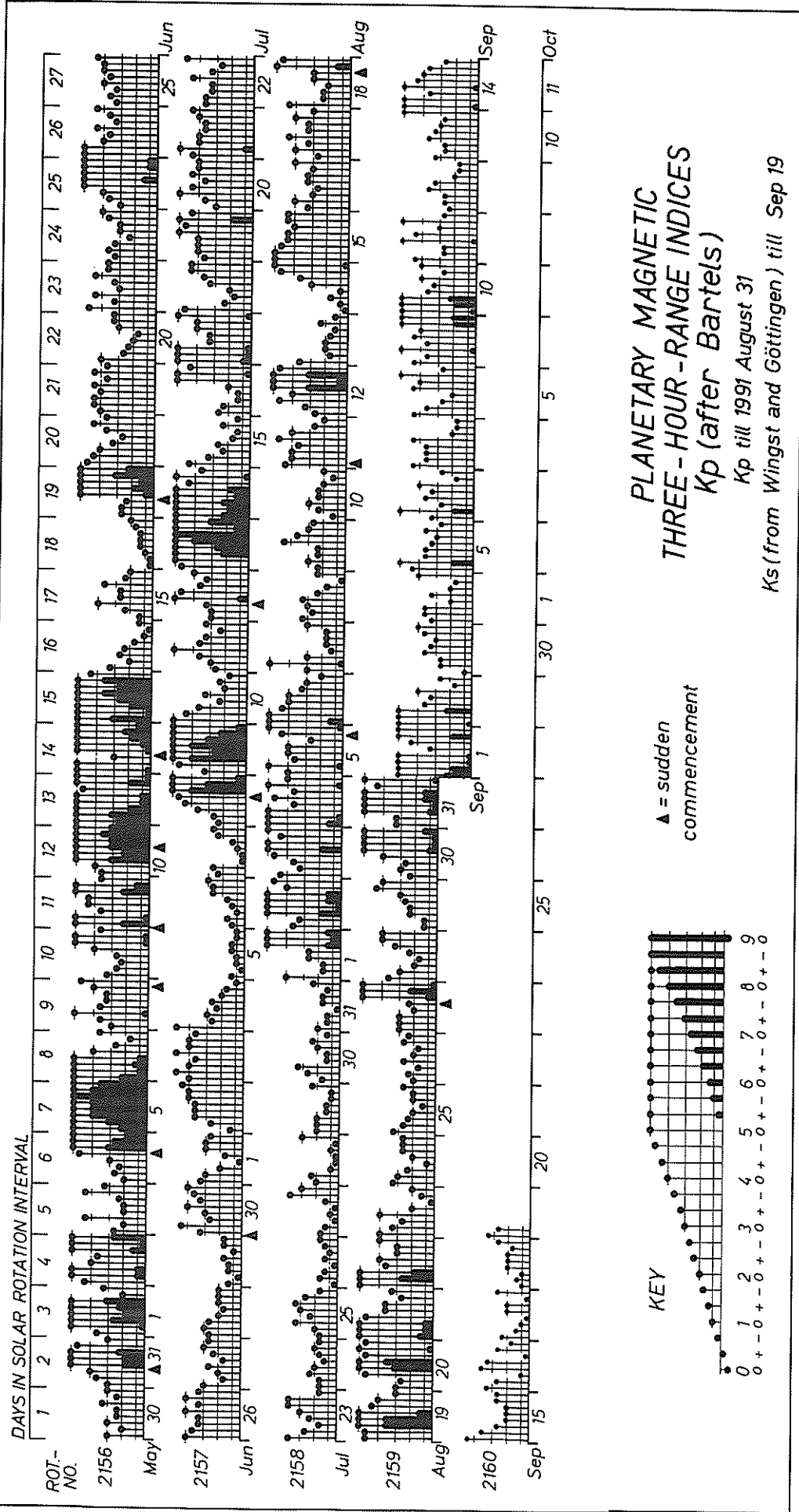
September 1990 to August 1991

DAY	1990				1991							
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
1	26	2	9	5	8	28	13	29	27	74	11	36
2	2	5	10	5	10	12	9	22	45	60	21	52
3	4	10	6	6	11	5	6	37	16	16	29	42
4	8	16	3	17	8	6	9	50	9	58	13	44
5	11	10	2	13	8	8	22	15	5	196	4	32
6	12	12	2	7	4	6	24	14	5	49	8	32
7	14	8	6	4	3	10	24	10	6	27	7	16
8	8	4	8	8	8	14	17	6	10	26	68	11
9	10	12	12	5	8	17	25	10	12	58	117	15
10	11	48	12	2	9	8	21	8	9	119	19	8
11	25	42	12	2	7	16	4	5	3	88	20	24
12	19	31	5	7	19	13	17	13	4	66	28	64
13	19	16	3	15	12	11	27	5	27	120	134	8
14	19	17	1	8	4	8	7	6	33	8	75	19
15	22	26	3	6	12	9	6	6	8	13	12	36
16	23	10	17	8	7	5	8	5	15	5	22	19
17	12	5	16	6	11	4	13	13	35	67	41	21
18	19	5	15	5	10	4	9	12	4	26	21	26
19	16	9	10	2	4	8	12	14	4	28	40	74
20	16	23	7	8	5	6	12	4	4	14	28	67
21	15	11	10	3	4	8	26	6	7	25	32	41
22	20	10	3	3	4	14	20	8	17	18	23	48
23	13	10	4	7	6	21	11	8	21	47	14	13
24	13	25	2	15	22	6	161	11	26	31	6	11
25	11	9	4	10	13	11	130	17	35	24	11	10
26	12	10	9	4	11	8	114	12	23	22	5	8
27	8	8	45	6	7	9	31	24	21	10	8	37
28	9	4	18	4	5	18	20	33	31	9	6	16
29	7	10	5	4	4		4	59	22	5	6	14
30	5	20	8	12	4		26	34	12	21	8	40
31		25		9	14		9		52		6	51
MEAN	14	15	9	7	8	10	27	17	18	44	27	30

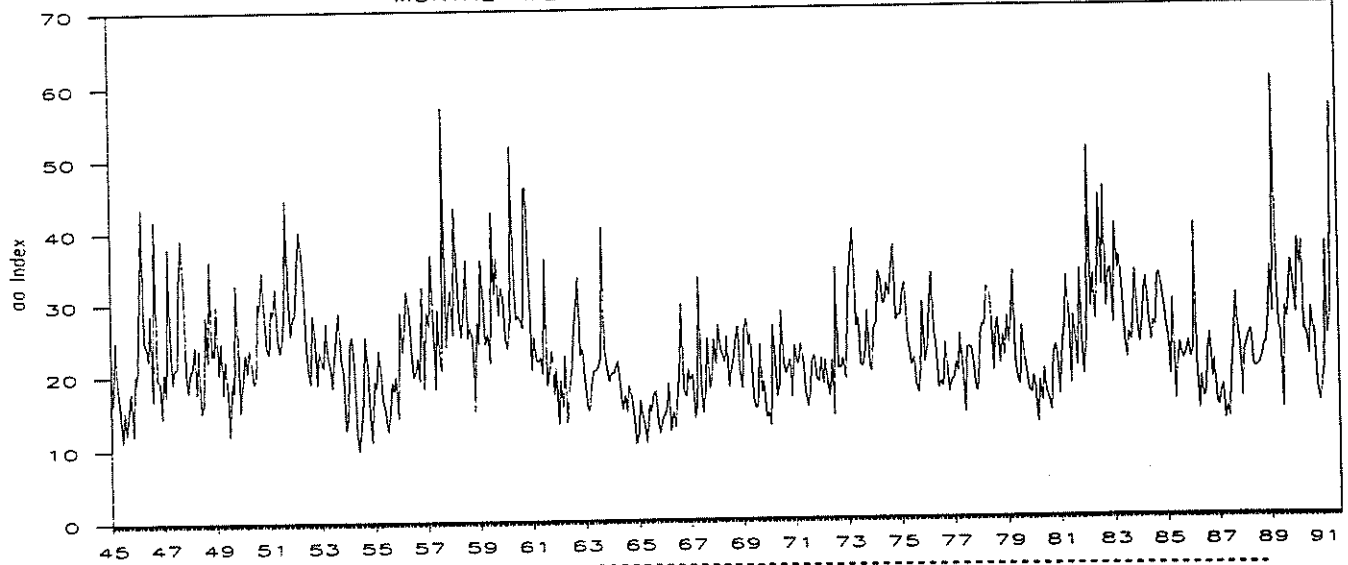
PLANETARY 3-HOUR-RANGE INDICES (Kp) BY 27-DAY SOLAR ROTATION INTERVAL

University of Göttingen

Kp through August 31, 1991



MONTHLY MEAN  $\alpha\alpha$  INDICES 01/45-06/91



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1945	16.1	16.4	25.0	19.1	15.4	11.1	15.3	12.1	15.6	17.9	12.0	20.2	16.3
1946	19.2	30.2	43.5	25.0	24.1	22.3	28.6	16.7	41.7	19.6	19.3	14.3	25.4
1947	20.6	17.1	37.9	23.3	19.1	21.1	21.4	32.9	39.1	31.3	20.7	17.9	25.2
1948	20.8	21.0	24.2	17.7	23.7	15.0	16.2	28.3	22.0	36.1	23.1	23.0	22.6
1949	29.8	20.4	24.7	17.6	22.4	17.9	11.8	19.2	17.8	32.7	24.6	15.1	21.2
1950	19.5	23.2	20.6	23.8	21.7	19.0	19.5	30.2	29.3	34.5	28.0	24.0	24.4
1951	23.1	29.2	28.5	32.1	25.5	23.2	25.2	29.7	44.4	30.3	25.7	28.2	28.8
1952	28.5	34.3	40.1	38.0	33.1	23.8	20.7	19.0	28.5	26.4	18.9	23.4	27.9
1953	22.3	21.2	27.4	22.7	21.4	18.4	22.5	26.1	29.0	22.4	20.2	12.6	22.2
1954	13.9	24.5	25.5	20.6	12.0	9.7	13.1	16.5	25.4	21.1	14.5	10.9	17.3
1955	19.3	18.2	23.6	21.1	16.7	15.1	12.3	14.3	19.1	17.8	19.9	14.1	17.6
1956	28.7	23.3	27.6	31.7	29.3	23.5	19.8	20.7	22.4	19.3	32.3	18.2	24.7
1957	28.7	26.8	36.7	28.8	18.1	29.1	21.7	20.7	57.0	24.0	29.5	31.7	29.4
1958	25.5	43.2	36.1	27.6	25.2	29.7	36.0	25.1	26.5	24.7	15.0	27.2	28.5
1959	24.3	35.9	29.9	24.2	25.7	21.6	42.5	31.2	36.1	28.2	32.1	30.8	30.2
1960	25.2	23.5	27.6	51.5	31.6	27.6	28.1	27.2	26.4	45.6	45.9	34.5	32.9
1961	20.6	25.1	22.0	21.8	22.3	20.1	36.0	18.5	20.7	23.3	17.3	21.1	22.4
1962	13.2	19.2	15.5	22.6	13.4	18.1	21.0	26.2	29.8	33.3	22.5	23.5	21.5
1963	19.3	15.3	14.9	18.2	20.4	20.5	20.8	22.5	40.2	23.5	20.7	18.9	21.3
1964	20.1	20.1	21.0	21.7	17.5	15.1	16.9	14.8	18.2	16.9	13.8	10.3	17.2
1965	11.8	16.3	14.3	12.6	10.5	15.7	14.7	16.8	17.5	13.1	11.7	13.8	14.1
1966	14.2	14.8	18.6	12.0	14.8	12.5	17.1	20.0	29.4	17.5	16.8	20.5	17.3
1967	18.9	19.8	13.8	15.5	33.1	18.6	14.4	17.5	24.7	17.8	18.9	24.5	19.8
1968	21.1	26.5	23.3	22.2	21.4	24.9	18.0	20.1	22.0	24.8	26.2	20.3	22.6
1969	17.8	25.8	27.3	23.6	25.2	16.7	15.0	15.3	23.8	17.2	18.7	13.8	20.0
1970	14.4	12.7	26.4	23.1	16.6	18.3	28.4	21.0	19.7	20.6	21.6	16.5	19.9
1971	23.5	21.2	21.1	23.9	21.1	17.0	15.2	17.1	21.4	22.2	18.8	18.6	20.1
1972	21.9	18.3	21.5	18.1	16.6	21.5	14.0	34.2	20.4	20.4	21.8	18.9	20.6
1973	26.1	32.7	36.9	39.6	26.1	27.3	20.9	20.6	22.8	28.2	20.7	19.9	26.8
1974	25.8	26.4	33.7	32.9	29.2	29.2	32.0	30.2	33.7	37.3	26.8	27.5	30.4
1975	27.6	31.1	32.0	24.3	22.7	20.7	21.7	18.1	16.9	20.2	29.3	21.1	23.8
1976	23.3	28.5	33.4	25.4	23.7	17.5	18.4	17.7	23.7	20.4	16.9	18.6	22.3
1977	18.7	21.0	19.9	24.9	20.1	14.2	22.9	23.2	23.0	20.9	17.3	17.0	20.3
1978	24.6	26.2	25.9	31.3	31.2	28.3	19.9	25.6	27.0	20.8	24.6	22.0	25.6
1979	27.3	23.7	26.9	33.5	21.0	18.3	17.9	26.0	22.0	19.3	17.1	16.8	22.5
1980	19.0	17.3	12.7	18.4	15.6	20.0	17.0	15.9	14.2	21.9	23.3	21.7	18.1
1981	16.5	23.1	26.6	32.8	26.9	18.0	27.2	24.0	20.4	33.7	24.1	19.3	24.4
1982	24.2	50.6	28.5	32.9	26.7	32.1	43.9	31.4	45.1	28.5	33.0	33.8	34.2
1983	26.2	40.0	33.6	35.7	31.6	24.9	21.3	24.9	23.7	28.3	33.5	26.0	29.1
1984	23.5	26.7	30.7	32.5	27.2	23.7	26.4	25.8	32.6	33.1	31.0	29.0	28.5
1985	25.7	24.1	19.0	29.5	15.6	19.9	23.4	22.0	21.2	22.2	23.7	21.4	22.3
1986	22.4	40.0	21.1	14.3	18.8	15.9	16.3	22.3	24.7	18.6	21.2	15.3	20.9
1987	14.8	16.6	17.6	12.9	14.7	13.2	19.3	24.3	30.3	25.8	22.4	16.0	19.0
1988	22.4	23.4	24.8	25.2	20.5	20.0	20.2	20.6	21.4	23.2	23.3	25.5	22.5
1989	33.9	27.5	60.1	32.8	25.7	24.9	14.4	28.4	26.7	31.4	34.7	31.4	31.0
1990	27.4	37.8	33.9	37.4	25.1	24.6	21.6	28.2	25.1	25.1	17.4	15.2	26.6
1991	17.2	20.1	37.3	24.3	27.3	56.2	35.2	40.8					

P R I N C I P A L M A G N E T I C S T O R M S

AUGUST 1991

Sta	Geomag Lat	Commencement Time		Type	SC Amplitudes			Maximum 3-Hour K Index Day(3-Hour Periods)	Ranges			End Hour Day (UT)		
		Day (UT)	Time (UT)		D (Min)	H (Gamma)	Z (Gamma)		K (Min)	D (Gamma)	Z (Gamma)			
FRD 49.6N	01	1315	SC*	-	1.3	9	-	2	01(8)	6	34	214	137	07 08
BJI 28.5N	01	08--	..	..	..	..	..	..	02(3)	6	15	155	57	04 21
KRC 16.4N	01	10--	..	..	..	..	..	..	01(6) 02(3)	6	5	220	55	03 00
ABG 09.5N	01	1500	..	..	..	..	..	..	01(6) 02(6)	5	5	194	51	03 02
HYB 07.6N	01	1314	SC	-	.1	1	0	0	02(5)	6	6	218	44	04 21
GUA 04.0N	01	15--	..	..	..	..	..	..	01(8)	5	10	110	10	01 24
ANN 01.5N	01	1500	..	..	..	..	..	..	-	-	5	294	98	03 02
ETT 00.6S	01	1316	SC	-	.2	3	2	2	-	-	8	335	82	02 23
TRD 01.1S	01	1500	..	..	..	..	..	..	-	-	4	352	137	03 02
HER 33.7S	01	14--	..	..	..	..	..	..	01(6) 02(3)	5	31	132	77	02 19
KGL 56.5S	01	1500	..	..	..	..	..	..	02(5,6)	7	82	643	357	04 10
COL 64.6N	02	05--	..	..	..	..	..	..	02(3) 03(3,4) 04(3) 05(4)	7	182	1470	1280	05 14
GUA 04.0N	02	0533	SC*	..	.2	12	-	3	02(3)	7	--	200	10	02 18
PMG 18.6S	02	05--	..	..	..	..	..	..	02(3)	6	9	190	80	02 18
CNB 43.9S	02	04--	..	..	..	..	..	..	02(5)	6	29	140	63	02 18
GUA 04.0N	03	23--	..	..	..	..	..	..	03(8)	5	10	90	10	04 12
GUA 04.0N	03	12--	..	..	..	..	..	..	03(6)	5	10	50	20	03 19
ETT 00.6S	03	0100	..	..	..	..	..	..	-	-	7	213	65	05 15
COL 64.6N	05	2046	SC	-	14	90	-	10	06(1,4,5,6)	5	109	1050	640	06 18
HYB 07.6N	05	2046	SC	-	.2	18	-	2	06(1)	5	5	140	32	07 10
GUA 04.0N	05	2046	SC*	-	.2	4	-	1	06(1)	5	10	60	20	06 07
ETT 00.6S	05	2046	SC	-	.2	14	16	1	-	-	8	200	66	06 21
HER 33.7S	05	2046	SC	..	1	16	12	12	05(1)	5	25	82	67	06 15
KGL 56.5S	05	2047	SC	..	3.7	16	5	5	05(8) 06(1)	6	43	476	226	06 23
GUA 04.0N	06	08--	..	..	..	..	..	..	06(4)	5	--	70	10	06 19
GUA 04.0N	07	03--	..	..	..	..	..	..	07(2)	5	--	50	20	07 10
ETT 00.6S	09	0200	..	..	..	..	..	..	-	-	5	159	40	10 10
COL 64.6N	11	0253	SC	-	27	290	25	25	11(5,6)	5	108	880	510	11 18
FRD 49.6N	11	0253	SC*	..	4.0	59	-	10	12(5)	6	35	243	108	13 02
BJI 28.5N	11	0253	SC	..	2.4	46	0	0	12(5)	6	13	160	64	13 13
KRC 16.4N	11	0252	SC	-	1.5	55	18	18	12(5)	7	6	225	60	13 --
ABG 09.5N	11	0249	SC	-	.4	39	-	6	11(2,3,5,6,7)	4	6	160	42	11 23
HYB 07.6N	11	0254	SC	-	.3	40	-	3	12(5,6)	6	8	266	43	13 12
GUA 04.0N	11	0253	SC*	..	..	40	-	15	11(1)	5	10	170	40	11 18
ANN 01.5N	11	0249	SC	..	1.6	60	26	26	-	-	6	201	86	11 23
ETT 00.6S	11	0257	SC	-	.8	42	36	36	-	-	7	288	113	11 22
TRD 01.1S	11	0249	SC	-	.1	59	-	68	-	-	5	299	159	11 23
PMG 18.6S	11	0255	SC*	-	.5*	45	42	42	11(1,3,5)	5	4	180	100	11 18
HER 33.7S	11	0254	SC	..	4 *	29	24	24	11(4)	4	15	126	84	11 16
CNB 43.9S	11	0255	SC*	..	2.5*	32 *	10	10	12(5)	6	22	149	46	13 00
KGL 56.5S	11	0253	SC	..	10	36	12	12	12(5)	8	135	1198	509	13 03
COL 64.6N	12	03--	..	..	..	..	..	..	12(3,5)	7	376	1770	1470	12 22
ABG 09.5N	12	0600	..	..	..	..	..	..	12(5,6,7)	5	5	142	47	13 03
GUA 04.0N	12	2353	SC*	..	..	14	-	5	12(8)	5	10	80	40	13 12
GUA 04.0N	12	07--	..	..	..	..	..	..	12(5)	5	--	70	20	12 23
ANN 01.5N	12	0600	..	..	..	..	..	..	-	-	4	232	95	13 03
ETT 00.6S	12	0100	..	..	..	..	..	..	-	-	7	275	86	13 13
TRD 01.1S	12	0600	..	..	..	..	..	..	-	-	4	261	121	13 03
PMG 18.6S	12	06--	..	..	..	..	..	..	12(5)	6	7	110	70	13 07
HER 33.7S	12	08--	..	..	..	..	..	..	12(5,7,8)	5	31	154	122	13 01
FRD 49.6N	14	18--	..	..	..	..	..	..	14(8) 15(2) 16(8)	5	28	159	89	18 04
HYB 07.6N	14	0700	..	..	..	..	..	..	14(6,8) 15(1,2,3,6) 17(2,4)	4	8	114	30	17 21
GUA 04.0N	14	21--	..	..	..	..	..	..	15(1)	5	10	80	40	15 20
ETT 00.6S	14	1300	..	..	..	..	..	..	-	-	9	209	69	17 19
HER 33.7S	14	17--	..	..	..	..	..	..	14(8) 15(2)	5	26	83	76	15 16
GUA 04.0N	17	03--	..	..	..	..	..	..	17(2)	5	10	130	20	17 12

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Aug 91

PRINCIPAL MAGNETIC STORMS

AUGUST 1991

Sta	Geomag Lat	Commencement Time (UT)			SC Amplitudes			Maximum 3-Hour K Index Day(3-Hour Periods)	Ranges			End Hour		
		Day	UT	Type	D (Min)	H (Gamma)	Z (Gamma)		D (Min)	H (Gamma)	Z (Gamma)	Day (UT)	Hour	
COL	64.6N	18	1834	SC	27	-175	50	19(3,4)	7	234	1480	900	19	19
FRD	49.6N	18	1834	SC*	3.5	37	- 10	19(3)	7	38	258	147	23	11
BJI	28.5N	18	1833	SC	1.0	59	3	19(3)	8	23	249	56	--	--
KRC	16.4N	18	1836	SC	- 2.8	68	35	20(5)	7	11	290	110	21	15
ABG	09.5N	18	1833	SC	- .5	42	- 7	19(3)	7	10	249	73	20	04
HYB	07.6N	18	1834	SC	- .3	42	- 2	19(3)	8	9	273	38	19	20
ANN	01.5N	18	1833	SC	--	--	--	--	--	--	--	--	--	--
ETT	00.6S	18	1833	SC	- .6	36	35	--	-	12	470	197	19	19
TRD	01.1S	18	1833	SC	.3	41	- 55	--	-	8	457	317	20	04
PMG	18.6S	18	1833	SC*	.9*	28	27	19(3)	8	9	290	150	22	17
HER	33.7S	18	1834	SC	2	25	18	19(3)	7	46	175	134	19	19
GNA	43.2S	18	1833	SC*	- 11 *	59 *	- 57 *	19(3)	6	19	230	160	19	14
CNB	43.9S	18	1833	SC*	3.6*	18	- 4 *	19(3,4) 20(4,5) 22(2)	6	30	260	112	22	13
KGL	56.5S	18	1833	SC	5	25	10	19(3,4)	6	66	212	257	19	19
GUA	04.0N	19	22--	..	..	..	..	20(1)	5	10	120	20	20	05
GUA	04.0N	19	01--	..	..	..	..	19(3)	8	--	290	20	19	19
ETT	00.6S	19	2244	SC	- .2	8	4	--	-	--	--	--	--	--
GNA	43.2S	19	22--	..	..	..	..	20(4,5)	6	26	180	200	20	21
COL	64.6N	20	0801	SC	- 21	70	..	20(4) 21(3)	7	220	1480	680	21	16
BJI	28.5N	20	0759	SC	- .9	97	7	20(5)	7	20	292	68	22	18
ABG	09.5N	20	0801	SC	- 2.1	67	- 29	20(4)	7	10	289	63	22	20
HYB	07.6N	20	0759	SC	- 2.0	74	- 7	20(4,5)	7	10	313	28	22	04
GUA	04.0N	20	0800	..	..	..	..	20(4)	7	--	270	40	20	21
ANN	01.5N	20	0801	SC	--	--	--	--	--	--	--	--	--	--
ETT	00.6S	20	0800	SC	- 3.3	153	115	--	-	11	418	166	22	24
TRD	01.1S	20	0801	SC	.4	214	-282	--	-	6	450	199	22	20
HER	33.7S	20	06--	..	..	..	..	20(4)	7	28	241	139	21	16
KGL	56.5S	20	0802	SC	7	85	25	21(1)	6	45	343	157	21	09
GUA	04.0N	21	03--	..	..	..	..	21(2)	5	10	110	30	21	16
KGL	56.5S	21	0918	SC	..	..	10	22(1,2)	6	36	267	206	23	12
GUA	04.0N	22	0019	SC*	..	23	- 8	--	-	--	--	--	--	--
GUA	04.0N	22	0122	SC*	..	21	- 7	22(2)	6	10	170	30	22	18
HER	33.7S	22	00--	..	..	..	..	22(2)	5	33	110	98	22	13
GUA	04.0N	25	01--	..	..	..	..	25(1)	5	10	110	40	25	06
FRD	49.6N	27	1515	SC*	- 1.5	25	- 5	27(7,8)	5	19	134	63	28	04
KRC	16.4N	27	1513	SC	- 1	54	25	27(6,7)	6	5	140	60	28	04
ABG	09.5N	27	1512	SC	- .4	39	- 4	27(6,7)	5	9	115	77	28	05
HYB	07.6N	27	1515	SC	.2	35	- 2	27(6,7)	5	9	121	37	28	23
GUA	04.0N	27	1515	SC*	..	33	- 10	27(6)	5	10	90	30	28	06
ANN	01.5N	27	1512	SC	--	--	--	--	--	--	--	--	--	--
ETT	00.6S	27	1515	SC	- .3	29	33	--	-	9	185	68	28	24
TRD	01.1S	27	1512	SC	.4	38	- 55	--	-	5	196	103	28	05
HER	33.7S	27	1515	SC	2	8	8	27(6,7)	5	25	94	104	28	02
KGL	56.5S	27	1515	SC	5	- 55	15	27(6)	7	67	491	227	28	07
ETT	00.6S	29	1700	..	..	..	..	--	-	7	312	82	31	24
KGL	56.5S	29	1700	..	..	..	..	30(6,7)	7	110	720	240	31	03
FRD	49.6N	30	04--	..	..	..	..	30(5) 31(5)	6	28	174	122	02	--
BJI	28.5N	30	07--	..	..	..	..	30(5)	7	16	155	46	31	20
KRC	16.4N	30	06--	..	..	..	..	30(5)	6	6	155	65	31	18
ABG	09.5N	30	0700	..	..	..	..	30(6,8) 31(6)	5	8	202	68	31	23
HYB	07.6N	30	0100	..	..	..	..	30(5,6) 31(6)	6	8	215	54	31	23
GUA	04.0N	30	12--	..	..	..	..	30(5)	6	10	150	50	31	02
ANN	01.5N	30	0700	..	..	..	..	--	--	--	--	--	--	--
TRD	01.1S	30	0700	..	..	..	..	--	-	6	303	107	31	23
PMG	18.6S	30	09--	..	..	..	..	30(5)	6	9	130	70	31	19
HER	33.7S	30	08--	..	..	..	..	30(7) 31(3)	5	28	154	124	31	19
CNB	43.9S	30	11--	..	..	..	..	30(5)	6	21	147	61	01	00
GUA	04.0N	31	06--	..	..	..	..	31(5)	5	--	100	20	31	18

C O N T E N T S

Prompt Reports

LATE DATA

Number 566 Part I

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COSMIC RAY MEASUREMENTS BY NEUTRON MONITOR

Huancayo November 1990-June 1991

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Late  
Nov 90

COSMIC RAY INDICES  
(Neutron Monitor)

NOVEMBER 1990

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3868	6103.5	5455.5	3499.7	3468.5	1706.2
2	3875	6108.4	5498.1	3519.0	3482.5	1712.2(26)
3	3883	6096.3	5501.8	3519.9	3476.2	1710.2
4	3873	6113.5	5503.6	3522.9	3476.2	1713.7
5	3896	6176.7	5532.2	3553.6	3479.8	1718.4
6	3922	6174.7	5541.0	3561.6	3484.7	1722.6
7	3933	6215.5	5531.7	3563.5	3483.7	1723.8
8	3915	6186.7	5522.0	3551.4	3479.7	1719.2
9	3922	6171.7	5509.5	3531.0	3469.2	1719.0
10	3932	6164.0	5526.2	3535.6	3486.9	1717.6
11	3959	6206.5	5536.3	3541.8	3495.0	1723.0
12	3929	6189.0	5522.0	3524.7	3488.4	1715.3(38)
13	3935	6218.1	5543.2	3543.9	---	1720.5(26)
14	3936	6217.4	5568.9	3556.4	---	1723.0
15	3949	6204.2	5577.7	3569.5	3489.5	1722.8
16	3959	6211.5	5572.6	3581.9	3496.2	1728.9
17	3956	6246.1	5597.3	3587.4	3491.1	1730.9
18	3984	6277.2	5621.2	3598.5	3483.2	1730.8
19	3989	6278.0	5649.4	3609.3	3481.3	1732.2(32)
20	3983	6287.7	5659.2	3623.1	3473.5	1727.2(34)
21	3966	6249.9	5625.1	3601.6	3486.4	1722.5
22	3973	6219.3	5603.1	3590.5	3487.4	1723.1(30)
23	3987	6237.8	5609.6	3578.5	3487.7	1729.7(38)
24	3989	6239.7	5592.5	3573.6	3483.2	1723.8
25	3973	6218.8	5600.4	3575.5	3476.1	1723.7(22)
26	3967	6239.7	5606.2	3607.3	3484.0	1724.4(14)
27	3945	6164.3	5562.0	3590.7	3474.7	1728.8
28	3926	6143.7	5566.0	3584.7	3466.7	1721.6
29	3935	6211.7	5576.3	3562.6	3467.7	1726.8
30	3950	6246.1	5587.3	3573.9	3463.9	1725.7
Mean	3940	6200.6	5563.3	3564.6	3480.9	1722.2

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

COSMIC RAY INDICES  
(Neutron Monitor)

167  
Late  
Dec 90

DECEMBER 1990

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3960	6229.3	5600.9	3586.4	3474.2	1728.0
2	3969	6254.0	5590.7	3598.5	3485.8	1729.7
3	3977	6284.2	5601.1	3597.4	3490.7	1727.6(34)
4	3992	6232.2	5624.8	3601.0	3492.0	1729.6
5	4000	6240.2	5615.3	3597.1	3480.6	1728.9(38)
6	3997	6228.8	5612.6	3603.6	3483.9	1726.7
7	3952	6249.2	5611.6	3587.7	3477.2	1722.1
8	3879	6235.0	5611.5	3578.9	3465.5	1721.9
9	3815	6108.6	5503.5	3493.3	3456.9	1705.7
10	3823	6145.2	5540.0	3517.9	3452.0	1709.3(36)
11	3783	6166.7	5539.9	3518.8	3465.5	1713.5
12	3793	6192.3	5579.9	3556.1	3476.7	1721.0
13	3811	6188.1	5589.9	3575.2	3482.5	1723.7
14	3811	6230.2	5586.3	3573.6	3473.3	1719.4
15	3816	6226.4	5580.5	3576.3	3481.4	1723.3(24)
16	3824	6228.2	5589.2	3582.6	3494.2	---
17	3858	6242.7	5596.7	3589.9	3495.9	---
18	3856	6190.3	5599.9	3583.5	3502.2	---
19	3832	6210.0	5591.5	3581.9	3486.7	---
20	3835	6254.0	5593.4	3605.5	3480.7	---
21	3843	6239.5	5614.8	3590.6	3481.7	1742.6(14)
22	3809	6158.5	5534.6	3562.8	3463.1	1721.8
23	3780	6117.2	5478.8	3527.8	3458.0	1708.8
24	3802	6179.8	5532.9	3544.4	3487.2	1723.2
25	3818	6214.2	5564.8	3556.5	3493.2	1727.4
26	3840	6238.8	5566.5	3565.9	3491.4	1727.9(26)
27	3858	6271.4	5597.6	3578.9	3495.8	1737.9(16)
28	3863	6291.7	5618.2	3612.3	3506.3	1733.9
29	3885	6273.5	5632.6	3675.3(12)	3524.3	1742.0
30	3857	6222.7	5598.7	3598.4	3502.1	1731.5
31	3830	6260.1	5585.6	3580.3	3486.2	1724.6
Mean	3863	6219.5	5583.4	3574.7	3483.4	1724.2

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

\* = A&B includes only hours when both A&B sections are available.



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Late  
Jan 91

COSMIC RAY INDICES  
(Neutron Monitor)

JANUARY 1991

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3867	6306.0	5629.4	3618.0	3503.3	1734.0
2	3871	6297.1	5635.4	3616.6	3504.3	1732.2
3	3885	6321.8	5631.7	3624.8	3514.0	1733.0
4	3902	6325.2	5647.7	3636.2	3516.1	1734.8
5	3899	6316.2	5663.7	3639.3	3523.9	1738.2
6	3904	6318.7	5670.6	3644.0	3524.3	1736.9
7	3923	6365.7	5692.0	3652.8	3527.4	1741.5
8	3938	6421.6	5706.9	3682.7	3542.2	1748.6
9	3948	6374.8	5698.6	3674.8	3542.0	1745.3
10	3944	6383.2	5686.2	3681.9	3528.5	1748.4(36)
11	---	6405.9	5704.6	3685.9	3522.7	1743.4
12	---	6406.6(11)	5686.3	3684.2	3525.2	1741.7
13	---	6376.0	5688.4	3677.9	3526.6	1737.9
14	---	6333.0	5672.3	3661.6	3522.2	---
15	3921	6321.5	5690.0	3676.0	3528.2	---
16	3921	6344.0	5705.8	3687.5	3529.6	---
17	3943	6355.6	5704.9	3677.4	3526.5	---
18	3933	6333.2	5680.2	3662.5	3525.2	---
19	3921	6339.1	5677.8	3670.1	3527.5	---
20	3928	6362.2	5693.5	3687.5	3525.5	1747.8
21	3921	6404.9	5718.9	3685.5	3520.0	1745.4
22	3930	6410.7	5698.9	3689.3	3521.5	1740.8
23	3915	6372.8	5699.5	3687.8	3518.9	1737.5(36)
24	3937	6387.3	5709.6	3696.8	3517.2	1743.2
25	3924	6390.0	5705.5	3679.0	3508.5	1736.8
26	3915	6368.0	5688.4	3675.6	3507.2	1736.1
27	3928	6388.8	5719.7	3702.1	3514.1	1734.2
28	3936	6404.3	5740.9	3720.5	3518.2	1733.8
29	3970	6423.7	5759.2	3724.1	3517.4	1736.8
30	3978	6442.2	5786.8	3733.2	3532.1	1739.0
31	3962	6417.6	5728.1	3673.3	3510.2	1732.7
Mean	3925	6368.4	5694.2	3674.6	3521.6	1739.0

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.  
\* = A&B includes only hours when both A&B sections are available.

COSMIC RAY INDICES  
(Neutron Monitor)

169  
Late  
Feb 91

FEBUARY 1991

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3880	6279.3	5637.2	3585.2	3488.2	1723.5(36)
2	3830	6256.2	5640.0	3598.4	3497.9	1724.2
3	3849	6224.0	5645.0	3599.1	3497.2	1725.0
4	3867	6254.7	5652.8	3609.7	3503.2	1727.8
5	3889	6284.1	5668.4	3621.1	3507.2	1729.9
6	3908	6310.5	5701.8	3628.5	3501.9	1734.0
7	3923	6351.2	5716.0	3658.0	3511.1	1733.7
8	3935	6373.5	5754.2	3685.3	3525.3	1735.4
9	3931	6387.1	5753.5	3696.6	3514.2	1743.6
10	3911	6364.2	5709.9	3666.8	3498.3	1732.0
11	3909	6386.0	5715.2	3669.9	3502.7	1732.5
12	3925	6402.5	5713.8	3680.3	3504.9	1733.6
13	3928	6387.2	5733.6	3686.9	3513.3	1733.8
14	3931	6401.8	5750.7	3695.1	3514.7	1736.4
15	3933	6430.2	5777.6	3708.5	3519.3	1738.6
16	3934	6452.2	5778.9	3717.2	3542.5	1741.5
17	3953	6449.7	5793.3	3741.8	3543.0	1745.8
18	3942	6442.5	5786.2	3737.4	3536.0	1742.5
19	3950	6408.4	5786.4	3730.6	3535.1	1744.9
20	3930	6398.0	5762.6	3716.9	3523.7	1738.9
21	3922	6389.6	5731.1	3701.0	3502.7	1724.9
22	3905	6346.5	5710.7	3678.9	3486.2	1722.8
23	3902	6368.2	5684.7	3677.1	3486.2	1720.4
24	3922	6352.4	5669.7	3684.3	3485.5	1714.2
25	3934	6376.2	5713.1	3685.9	3499.7	1720.1
26	3954	6436.4	5757.6	3724.0	3512.5	1732.7
27	3961	6461.1	5773.3	3739.6	3501.6	1734.2
28	3952	6421.0	5771.7	3721.1	3481.7	1729.6
Mean	3918	6371.3	5724.6	3680.4	3508.4	1732.0

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

\* = A&B includes only hours when both A&B sections are available.

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Late  
Mar 91

COSMIC RAY INDICES  
(Neutron Monitor)

MARCH 1991

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3939	6376.7	5744.7	3732.2	3494.4	1726.0(36)
2	3935	6359.2	5740.5	3727.6	3490.1	1726.1
3	3935	6406.7	5743.2	3710.4	3493.6	1725.0
4	3956	6392.4	5730.8	3689.8	3490.6	1724.5
5	3927	6331.6	5680.0	3667.5	3470.0	1722.3
6	3901	6269.5	5649.7	3636.5	3458.2	1711.0
7	3904	6298.5	5661.8	3663.5	3468.2	1711.1
8	3870	6307.3	5644.0	3646.4	3459.3	1714.1
9	3880	6304.1	5636.5	3632.0	3460.4	1710.2
10	3753	6137.1	5495.1	3512.0	3411.2	1682.9(22)
11	3752	6145.0	5476.9	3520.5	3404.2	1686.4(14)
12	3780	6114.0	5481.5	3494.1	3420.0	1691.4
13	3709	6011.8	5400.5	3439.9	3411.1	1690.5
14	3615	5886.0	5279.1	3359.9	3385.7	1667.2
15	3618	5854.5	5264.7	3331.4	3338.5	1648.7
16	3630	5887.7	5273.6	3337.1	3343.6	1647.9
17	3632	5922.7	5298.4	3353.8	3365.2	1657.0
18	3634	5887.0	5278.1	3320.4	3359.5	1651.8
19	3639	5897.7	5285.9	3344.5	3363.0	1657.7
20	3632	5886.4	5285.0	3347.0	3368.8	1665.7
21	3643	5948.3	5324.5	3385.3	3385.7	1673.7
22	3583	5896.8	5295.1	3383.0	3355.1	1659.8
23	3634	5932.8	5341.7	3388.4	3363.5	1663.3
24	3361	5522.0	4855.6	3109.9	3221.0	1580.1
25	3370	5415.5	4875.3	3036.4	3227.1	1579.3
26	3427	5519.7	4968.0	---	3241.3	1595.9
27	3429	5507.8	5000.8	---	3246.3	1599.7
28	3415	5540.7	5059.5	---	3249.0	1611.8
29	3476	5658.8	5102.2	---	3280.4	1616.6
30	3468	5688.4	5096.8	---	3279.6	1618.4
31	3429	5629.0	5052.3	---	3277.0	1616.4
Mean	3673	5965.7	5355.5	3473.0	3373.6	1664.3

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

\* = A&B includes only hours when both A&B sections are available.

COSMIC RAY INDICES  
(Neutron Monitor)

171  
Late  
Apr 91

APRIL 1991

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3477	5729.1	5122.2	3224.3	3320.9	1633.6
2	3554	5861.6	5225.2	3320.4	3351.4	1651.7
3	3557	5876.4	5262.0	3335.3	3352.7	1649.6
4	3559	5838.1	5273.7	3316.8	3337.0	1647.8
5	3536	5799.0	5212.0	3286.3	3313.4	1649.5(4)
6	3536	5778.9	5210.9	3275.0	3316.9	---
7	3561	5804.9	5240.5	3307.8	3329.8	---
8	3582	5804.6	5243.3	3307.7	3341.4	1669.0(2)
9	3584	5833.1	5242.3	3309.9(30)	3347.3	1658.0
10	3603	5892.0	5275.7	---	3355.5	1664.3
11	3594	5905.3	5268.3	---	3351.5	1663.3
12	3637	5959.8	5311.1	---	3360.6	1669.6
13	3633	5963.3	5330.1	3389.5	3362.3	1672.2
14	3659	5974.6	5355.3	3379.0	3374.4	1673.7
15	3750	6073.4	5440.5	3453.7	3401.0	1687.0
16	3727	6087.9	5494.3	3484.8	3414.6	1694.2(8)
17	3766	6112.6	5530.6	3500.0	3409.2	1707.6(20)
18	3777	6171.6	5572.9	3543.0	3421.3	1697.6
19	3804	6206.0	5618.2	3548.9	3440.6	1708.5
20	3839	6244.1	5629.1	3564.4	3447.9	1703.2
21	3826	6232.6	5592.1	3554.7	3442.2	1704.2
22	3838	6256.6	5618.6	3583.8	3454.7	1712.2
23	3844	6284.8	5636.2	3603.4	3455.5	1715.5
24	3862	6324.5	5650.9	3632.0	3463.3	1716.8(38)
25	3721	6091.1	5482.1	3451.1	3384.7	1686.2
26	3605	5919.8	5313.2	3338.5	3311.7	1647.4
27	3680	6034.6	5396.9	3457.8	3373.8	1658.7
28	3719	6137.5	5516.4	3543.9	3412.1	1686.0
29	3791	6185.8	5562.3	3582.9	3450.3	1711.3(22)
30	3791	6146.2	5553.8	3556.2	3456.2	1702.8(16)
Mean	3680	6017.7	5406.0	3443.1	3385.1	1678.9

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

\* = A&B includes only hours when both A&B sections are available.

172  
Late  
May 91

COSMIC RAY INDICES  
(Neutron Monitor)

MAY 1991

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3791		5535.5	3527.7	3443.4	---
2	3741		5465.2	3494.6	3429.7	1690.4(14)
3	3769		5464.3	3483.2	3431.0	1690.6
4	3861		5469.3	3491.8	3431.4	1693.3
5	3883		5485.3	3491.4	3435.2	1694.8
6	3884		5497.5	3494.8	3426.6	1695.9
7	3859		5477.5	3470.0	3414.0	1691.7
8	3865		5465.6	3467.3	3403.1	1692.1
9	3846		5455.4	3471.2	3393.9	1685.7
10	3867		5479.2	3479.3	3397.4	1688.2
11	3862		5469.2	3483.5	3398.8	1688.1
12	3844		5442.3	3473.1	3390.7	1681.7(38)
13	3826		5391.1	3441.8	3387.5	1681.4
14	3815		5402.4	3455.9	3392.5	1683.2
15	3852		5452.1	3447.9	3375.2	1681.0
16	3880		5466.7	3474.1	3375.0	1680.6
17	3824		5492.5	3512.0	3385.3	1668.3
18	3889		5504.7	---	3381.2	1685.3
19	3910		5490.8	---	3393.5	1681.9(28)
20	3820		5437.9	---	3384.8	1684.5(16)
21	3803		5350.5	3396.7(12)	3365.9	---
22	3850		5430.8	3461.8	3366.2	---
23	3932		5531.6	3536.8	3401.4	---
24	3917		5509.4	3521.9	3385.0	---
25	3897		5500.4	3517.7	3383.7	1688.4(36)
26	3864		5440.1	3480.6	3360.5	1671.3
27	3858		5430.5	3465.2	3369.7	1669.5
28	3811		5335.0	3382.8	3336.9	1650.0
29	3703		5195.0	3277.0	3292.4	1634.0
30	3690		5188.8	3278.7(38)	3291.4	1634.7(32)
31	3643		5123.1	3238.1	3276.4	1630.3
Mean	3834		5431.6	3456.1	3383.8	1677.7

For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.  
\* = A&B includes only hours when both A&B sections are available.

COSMIC RAY INDICES  
(Neutron Monitor)

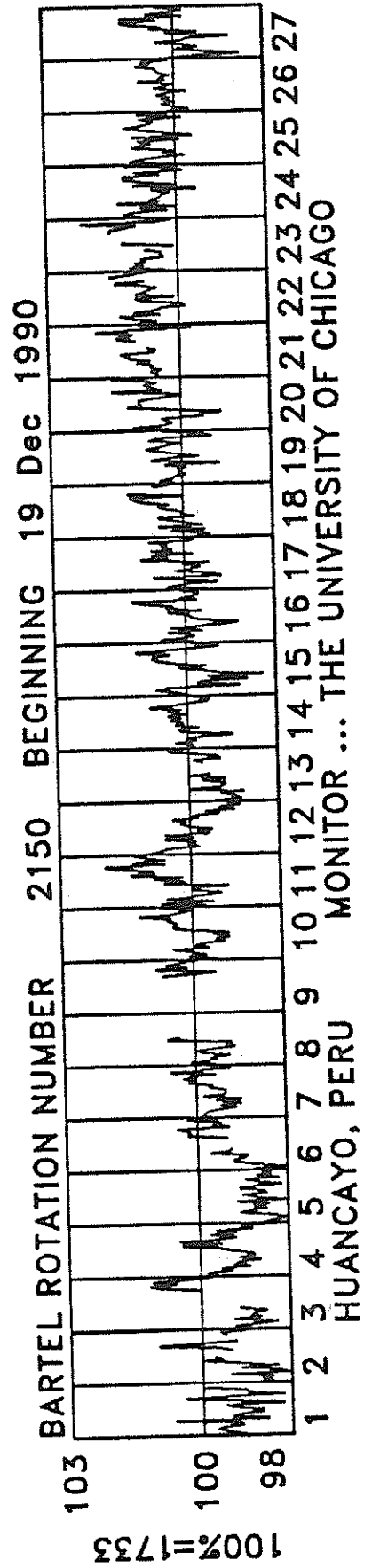
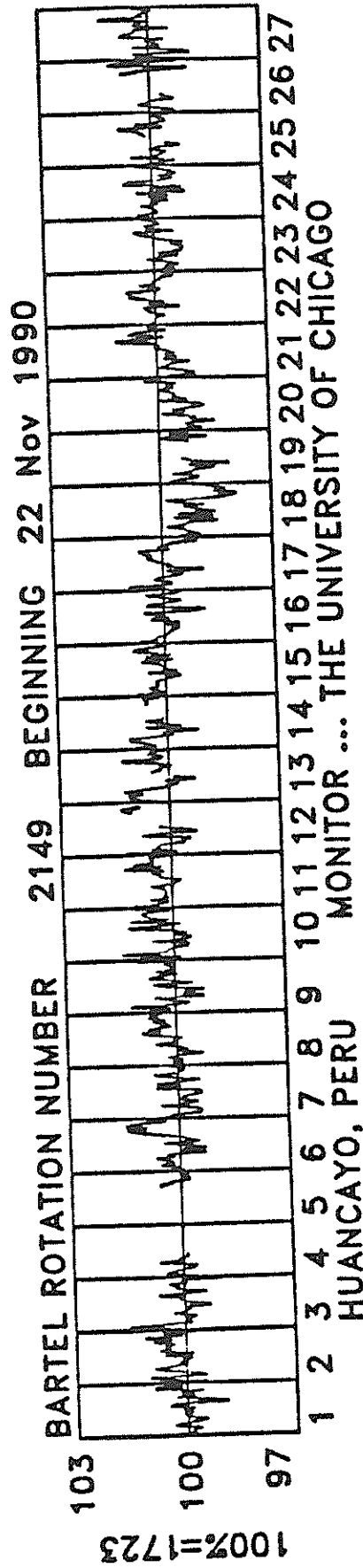
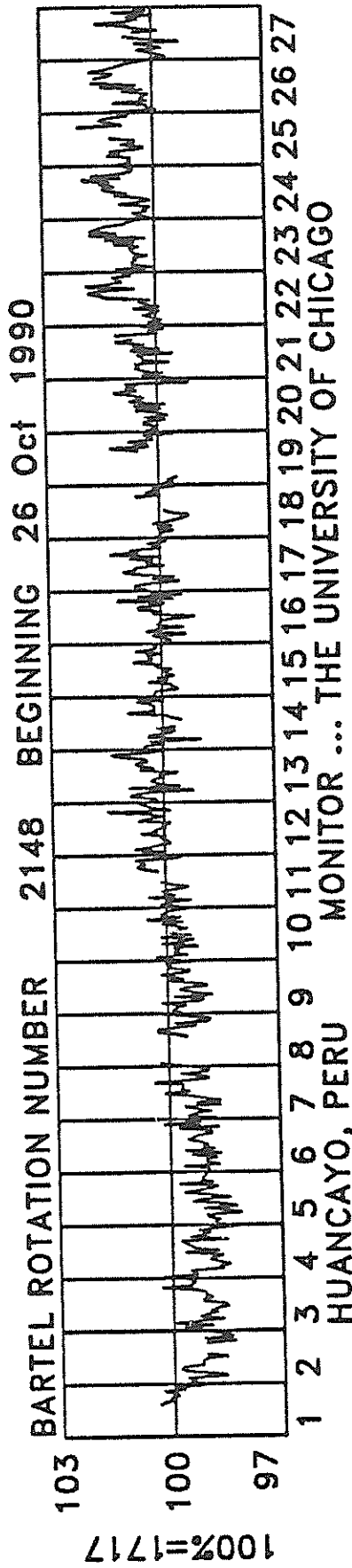
173  
Late  
Jun 91

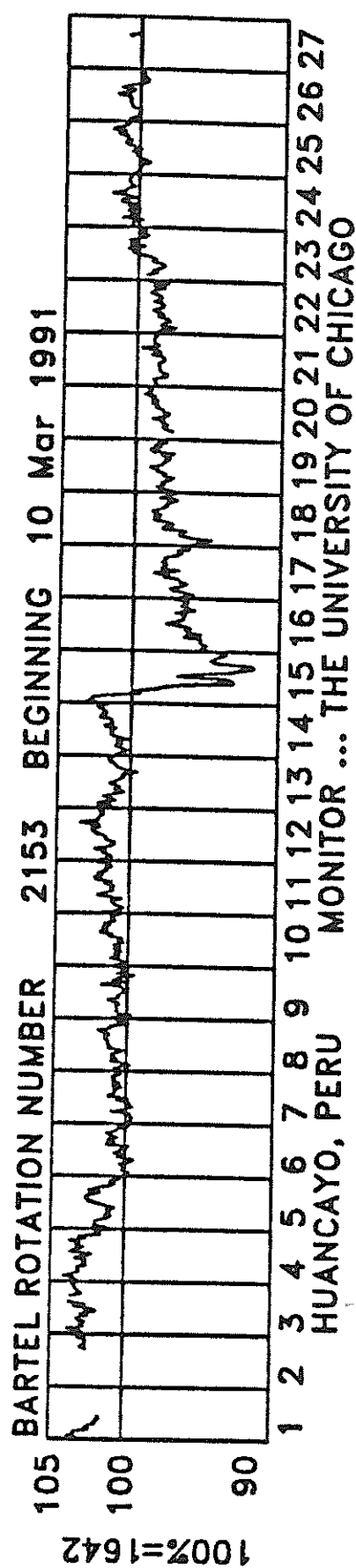
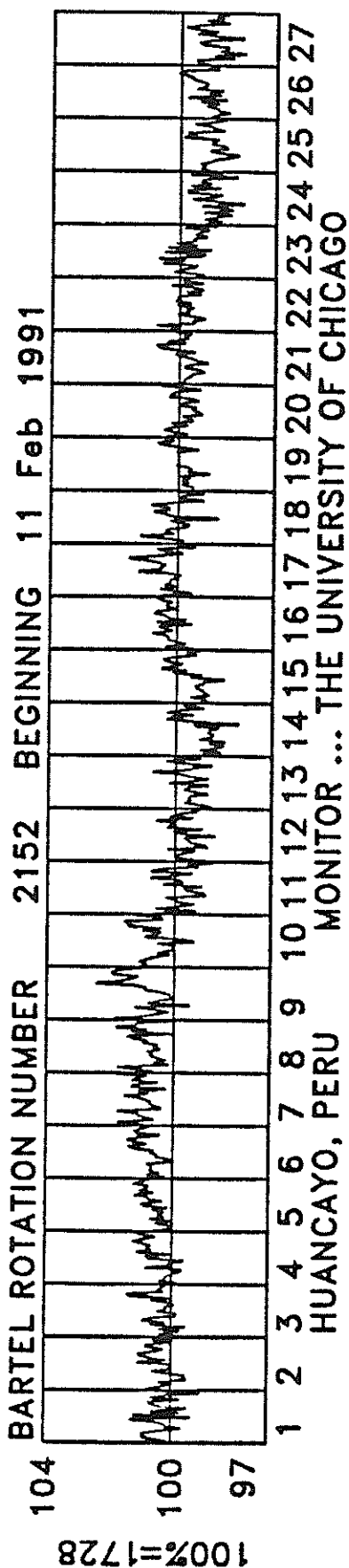
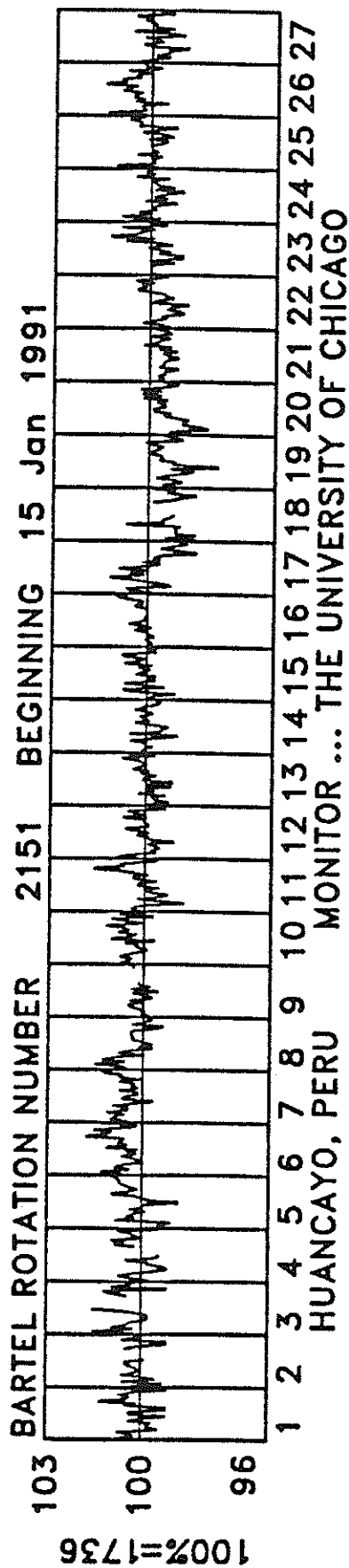
JUNE 1991

Day	THULE Average (cts/h)/100	DEEP RIVER Average (cts/h)/300	KIEL Average (cts/h)/100	CLIMAX Average (cts/h)/100	TOKYO Average (cts/h)/256	HUANCAYO Average (cts/h)/100
1	3514		4950.1	3112.6	3232.2	1604.2
2	3506		4997.1	3125.0	3220.6	1606.7(20)
3	3512		5023.9	3148.7	3222.7	1606.7(6)
4	3499		4960.2	3087.1	3206.4	1581.3(18)
5	3332		4718.1	2916.1	3141.1	1554.8(20)
6	3377		4788.3	2963.7	3159.2	1580.0(18)
7	3402		4822.1	2982.8	3171.7	1586.7(20)
8	3334		4721.7	2915.0	3147.2	---
9	3242		4588.7	2791.2	3087.2	---
10	3189		4533.1	2775.0	3068.6	1551.9(18)
11	3224		4536.7	2771.7	3053.1	1530.6(18)
12	3342		4700.9	2890.5	3104.9	1555.7(20)
13	2954		4150.7	2513.5	2900.0	1442.0(18)
14	3099		4289.9	2552.3	2955.3	1472.5(22)
15	3282		4515.5	2750.2	3043.2	1524.4(20)
16	3287		4563.7	2766.7	3083.0	1542.4(20)
17	3350		4700.5	2884.2	3135.3	1558.7(22)
18	3326		4717.6	2882.4	3136.0	1582.2(12)
19	3440		4866.4	3035.3	3194.3	1594.8(16)
20	3537		5001.9	3145.6	3229.7	1617.5(20)
21	3597		5082.0	3201.0	3264.1	1628.9
22	3644		5137.5	3251.9	3279.9	1631.3(38)
23	3638		5107.8	3229.6	3275.2	1637.8(8)
24	3611		5080.6	3193.5	3255.5	---
25	3600		5071.8	3192.0	3257.2	1636.0(2)
26	3607		5078.3	3199.3	3262.5	1645.5(20)
27	3622		5120.8	3219.9	3271.6	1644.5
28	3653		5133.3	3230.1	3291.2	1643.3
29	3649		5128.3	3214.7	3290.4	1634.7
30	3627		5075.1	3197.7	3291.5	1631.1
Mean	3433		4838.8	3002.5	3174.4	1595.5

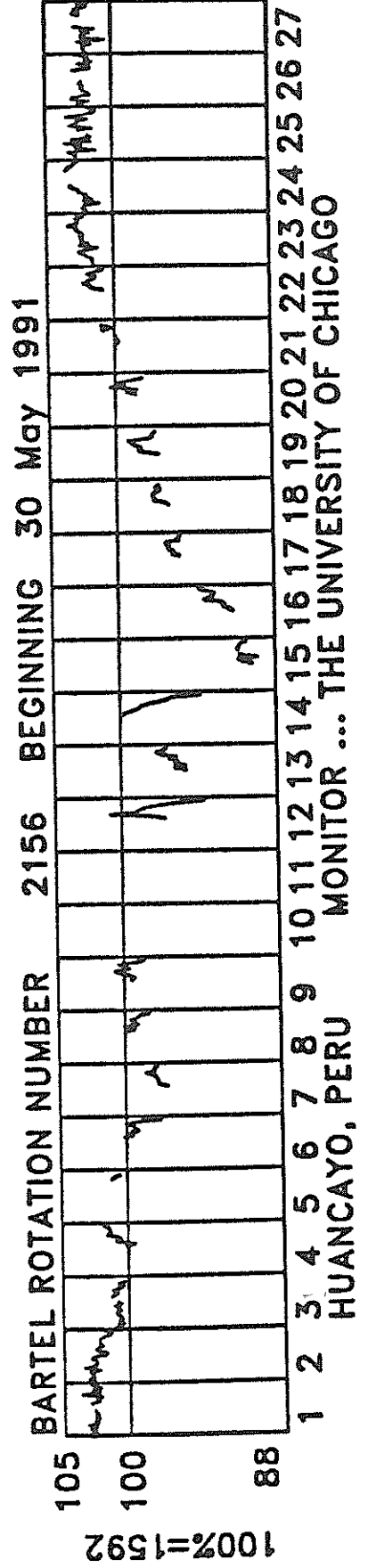
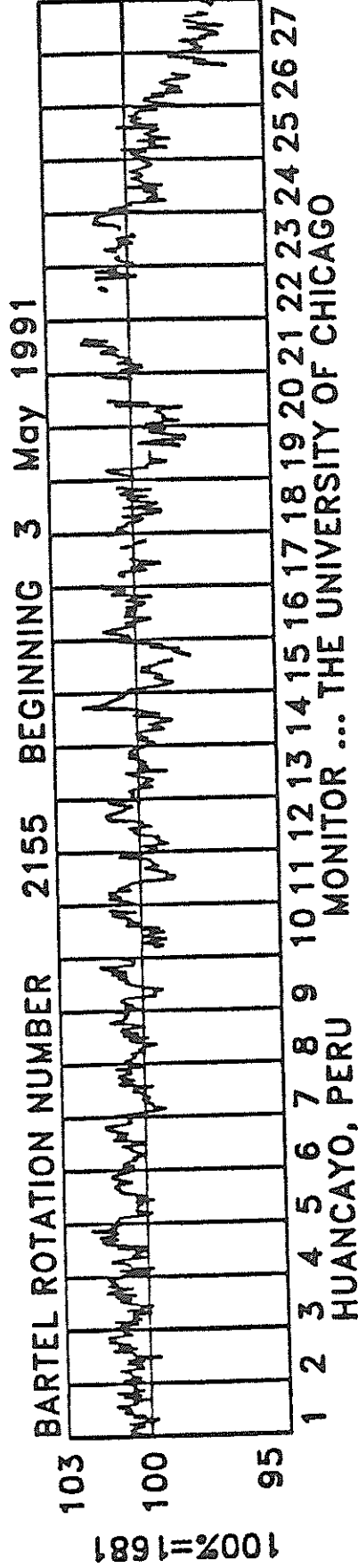
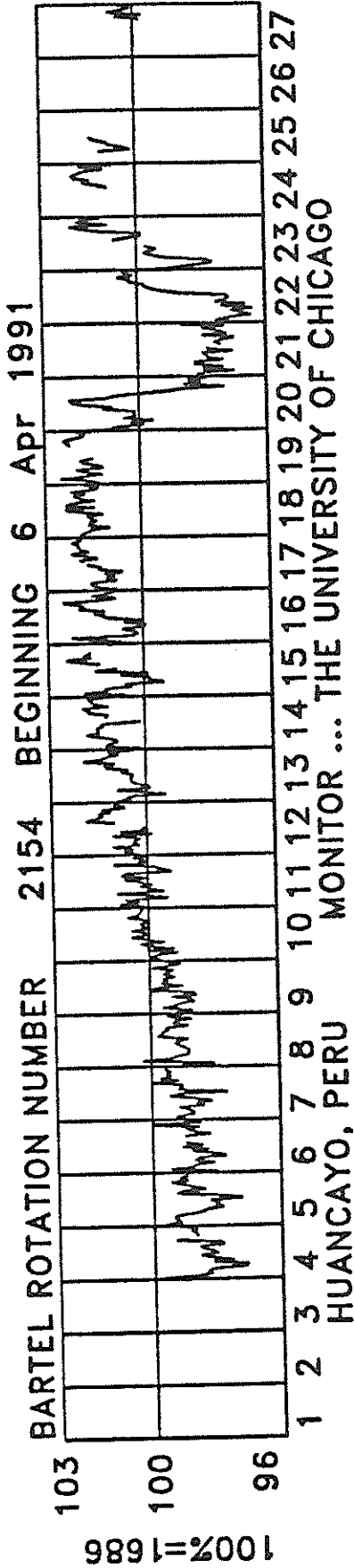
For less than 24-hour coverage, parentheses enclose the number of hours for which data are available. For Climax and Huancayo, parentheses enclose the number of section hours whenever the sum of both sections falls below 40 hours.

\* = A&B includes only hours when both A&B sections are available.









G E O M A G N E T I C A C T I V I T Y I N D I C E S

June 1991

Day	Kp Three-Hourly Indices								Sum	Ap	Cp	Km Three-Hourly Indices								aa Provisional					
	1	2	3	4	5	6	7	8				1	2	3	4	5	6	7	8	Am	N	S	H		
1	D5	4-	5+	7	6+	7-	7+	2	3+	42-	74	1.8	4-	5-	6-	5+	5	6-	2-	3	78	100	66	92	73
2		4+	6-	6-	4	4-	6	5+	7	42-	60	1.7	4-	4+	5-	4	3+	5-	4	6-	70	88	53	56	86
3	Q8A	3-	2	4+	2	2	2+	4+	3+	23	16	0.9	2+	2	4-	2	2-	2-	3+	3+	24	29	14	20	23
4		2	3-	2+	3	5-	7+	7	6+	35+	58	1.7	2	3	2	3-	4-	6-	6-	5+	64	92	46	16	122
5	D1	7-	7+	8	8	8	9-	8	8-	62+	196	2.1	6-	7	7	7-	6	8-	6+	6	218	250	175	187	238
6		7-	6-	6	6-	4	3-	2-	4-	36	49	1.6	5+	5+	5	5-	3	2	2-	3	61	56	40	72	24
7		3	4-	5+	4-	3+	3+	4	5-	31	27	1.2	3-	4-	5-	3+	3	3-	3	4	39	48	32	40	40
8		3+	3-	2+	3-	4	5+	5+	4-	29+	26	1.2	3	2+	2	3-	3	4+	4	3	34	45	22	18	49
9		7-	5+	4-	4+	4+	7-	6	4-	41-	58	1.7	6	5	3	4	4-	5-	5-	3+	73	81	68	75	75
10	D3	4-	4	7+	7-	7+	7+	8-	7+	51+	119	1.9	4	4-	7-	6	6-	6-	6-	6	129	147	106	103	150
11	D4	7	7+	6+	6-	6-	5-	6+	5+	48+	88	1.8	7-	6+	6	5-	5-	4	5-	5-	118	107	101	137	72
12		5+	5	3	5+	6-	6+	7-	6	43+	66	1.7	5-	4+	3-	5-	4+	5-	5	5	70	104	58	63	99
13	D2	7+	5+	6+	7	8-	7	8-	4+	53-	120	1.9	7-	5+	6+	6	6+	6-	7-	4-	152	152	133	140	145
14	Q3A	3+	2	3-	2+	2-	1	1-	1+	15	8	0.4	4-	2+	3-	2+	2	1+	1	1+	19	16	20	26	10
15	Q6A	1+	2+	4	3-	3-	4-	2+	2	21	13	0.7	1+	3-	4-	3	3-	3	2+	2-	23	36	12	24	25
16	Q1	1-	1-	1	1+	1+	1+	2-	2	10	5	0.2	0+	1	1	1+	1	1+	2-	2-	8	12	7	7	12 C
17		3-	3-	2+	6-	6+	6	7+	7-	40-	67	1.7	2+	3-	2	5-	5	4+	6	6-	74	113	54	36	131
18		5-	4+	4	3+	3-	4+	4+	4-	31-	26	1.2	4-	4-	4	3-	2	3-	3+	3+	35	42	29	37	34
19		4	4+	4+	4	4+	4-	4+	4-	33-	28	1.2	4-	4	4	4-	4-	3+	4-	4-	47	48	43	45	46
20	Q7A	4	3-	2+	2	2-	3	3+	3+	22+	14	0.8	4	3	2	2	2-	2+	3	3-	25	27	21	24	25
21		5-	3+	4+	3	3+	4+	4-	4-	30+	25	1.2	5-	3-	4	3-	3-	4-	3	3+	37	57	33	45	45
22	Q9A	3+	4-	3+	2+	3	3	4-	4	26+	18	1.0	4-	4-	4-	2+	3-	3-	3-	3+	33	31	28	26	33
23		3	4-	4	5	6	5	6-	6-	38	47	1.5	3	4-	3+	5-	5-	4	5-	5-	61	71	64	43	91
24		5	5	4	4-	4+	3+	4-	4+	33+	31	1.3	5-	4+	4-	3	4-	3	3	3	44	54	35	51	38
25		3+	4-	3+	4	4-	4	4	4+	30+	24	1.2	3+	3	3	4-	3	3+	3+	4-	37	45	33	39	39
26		4	4-	3+	3+	4	3+	4	3+	29	22	1.1	4	3+	3+	3	3	3	3	3	36	42	30	35	37
27	Q5A	3	2-	2	3-	2-	2+	3	3-	19	10	0.6	3	2-	2-	3-	2	2	2+	3	20	22	16	18	20
28	Q6A	3-	3	3-	2	2	2	2	2	18	9	0.5	2+	3-	2+	2+	1+	2-	2-	2-	16	16	15	19	12
29	Q2	1+	1-	1+	1+	2-	1	2-	2-	11-	5	0.2	1+	1-	1	1+	2-	1+	1+	2-	9	10	7	7	10 C
30	Q10A	3+	4+	3-	3	4	3+	4-	4	28+	21	1.1	3	4	3-	3+	3+	3-	3	4-	36	40	31	33	38
Mean										44		1.24									56.3	66.1	46.5		56.2
Day	Kn Three-Hourly Indices								An	Ks Three-Hourly Indices								Prov							
	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	As	Sa	Ri	Ra	Rs	IMF		
1	4-	5	6	5+	6-	6+	2-	3+	96	3+	4	5+	5+	4+	4+	1+	3-	60	224.9	177	162	181			
2	4-	5-	5	4	4-	5-	4+	6-	76	4	4	4+	4	3	4+	4-	6	65	243.1	175	162	201			
3	3-	2+	4-	2	2	2+	3+	3+	26	2+	2-	4-	2-	1+	1	3+	3+	22	226.8	171	160	183			
4	2	4-	3-	3	4+	6+	6-	6-	76	2+	2-	1+	2-	3	5+	6-	5+	53	245.6	179	172	203			
5	5+	7-	7+	7	6+	8	7-	6+	242	6	7	7-	6+	6-	7+	6	6-	195	258.1	180	172	217			
6	5+	6-	5	5-	3+	3-	2	3+	67	5	5	5	5	2+	2-	1	3	55	241.3	172	164	199			
7	3-	4-	5-	3+	3+	3	3+	5-	47	3-	4-	4+	3	3-	2	3-	3	32	236.6	171	162	194			
8	3	3	2	3	3+	5-	4+	3+	41	3-	2-	2-	2	3-	4	4	3-	28	250.7	210	194	209			
9	6	5	4-	4+	4	5	5-	4-	79	6+	4	3	4	3+	4+	4+	3-	67	245.3	251	197	203			
10	4-	4-	7-	6	6	6-	6	7-	149	4+	3+	6	6-	5+	5+	6-	5+	109	246.2	241	200	204			
11	7	7-	6	5	5-	4+	5-	5-	132	6	6	6-	4+	4+	4	5-	5	104	242.8	250	200	200			
12	4+	4	3-	5	5-	5	6-	5+	82	5-	4+	3-	4+	4-	5-	4	4+	59	236.8	228	196	194			
13	7	5+	7-	6+	6+	6	7-	4	172	6	5+	6-	6-	6+	5+	6+	3+	132	224.7	175	157	181			
14	4	3-	3	3-	3-	2-	1+	1+	23	3+	2+	2+	2-	1+	1-	1-	1	14	207.2	177	158	162			
15	1+	3	4	3	3	3+	2+	2	29	1+	2+	3	3-	2	3-	2	1	18	203.1	154	166	157			
16	1-	1+	1	1+	1+	2-	2	2+	10	0+	1-	1-	1	1	1	1+	1+	6	190.5	165	159	144			
17	3-	3-	2+	5+	6-	5-	7-	6-	89	2	3	2-	4	5-	4+	5+	5+	60	182.1	149	138	135			
18	4	4	4	3	3-	3	4-	3	41	3+	3+	4-	2	1	2	3+	4-	30	178.7	148	143	131			
19	4-	4	4-	4-	4-	3	4-	3+	44	4-	4	4+	3+	3+	4-	4-	4+	50	180.7	143	135	133			
20	4-	3-	3-	2+	2	3	3	3+	27	4+	3+	2-	2-	1	1+	3-	2	23	171.7	113	113	123			
21	4	3	4	3-	3	4	3	3	39	5	3-	4-	3-	2	3-	3	3+	35	175.1	147	125	127			
22	3+	4-	3	3-	3	3-	3+	4-	33	4	4-	4-	2	3-	3-	2	3	32	175.4	135	126	127			
23	3-	4-	4-	5-	5	4+	5-	5-	63	3+	4	3	5-	5-	4-	5-	5	59	166.6	117	114	118			
24	5-	4+	4	3+	4-	3	3+	3+	48	5-	4	3	3	3+	3-	3-	3-	39	173.9	135	125	126			
25	3+	3+	3	4	3+	4-	3+	4-	39	4-	3	3	3	3-	3+	3	4	35	178.8	137	143	131			
26	4-	4-	3	3	3+	3	3+	3+	37	4	3+	3+	3	3	3-	3	3-	34	191.3	150	142	145			
27	3	2	2	3-	2+	2+	3-	3-	21	3+	2-	2-	3-	2-	2-	2	3	20	206.3	143	140	161			
28	2+	3-	3-	3-	2-	2	2-	2	17	2	3	2	2	1+	1+	2-	1	14	217.5	162	160	173			
29	1+	1	1+	2-	2-	2-	2-	2+	12	1	1-	1	1	1+	1-	1	1	6	234.4	192	175	191			
30	3+	4+	3	4-	3+	3	3	4-	41	3-	4-	2+	3	3	2+	3+	4	31	243.6	175	188	201			
Mean									63.3									49.6	213.3	170.7	158.3	168.4			

GEOMAGNETIC ACTIVITY INDICES

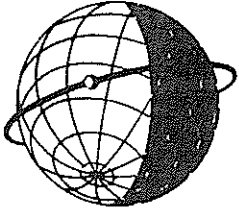
July 1991

Day	Kp Three-Hourly Indices								Sum	Ap	Cp	Km Three-Hourly Indices								aa Provisional					
	1	2	3	4	5	6	7	8				1	2	3	4	5	6	7	8	Am	N	S	M		
1	3+	3	2	1-	2-	3	3	3-	19+	11	0.7	3-	3+	2	1	2	2+	2+	2+	2+	19	23	11	17	17
2	1+	3-	4-	4-	4-	4	4	4+	27+	21	1.1	1+	3-	3+	3+	3-	3+	3+	4-	30	33	25	22	37	
3	4	5-	4	4-	5-	4	4	4-	33-	29	1.3	4-	4	4	3+	4-	3+	3+	3+	42	50	39	46	44	
4	5-	3-	3	2+	3-	2	2-	1	20	13	0.7	4+	3-	3	3-	2+	2-	2-	1+	24	29	13	30	13	
5	Q1	1+	1-	1	1+	1+	1	1	9-	4	0.1	1+	1	1	1	1+	1+	1	1	7	10	4	6	8 CC	
6	Q9A	1+	2-	1	1+	2-	3-	3-	15+	8	0.4	1+	1+	1	2-	2-	2+	2+	3-	13	19	10	8	21 K	
7	Q7A	2+	3-	1-	1-	1	1+	2+	14-	7	0.4	2	2+	1	1-	1	1+	2	3-	12	17	9	13	13 C	
8	D4	2+	3-	4-	4+	5-	8	7+	39-	68	1.7	3	2+	3	4-	3+	6+	6-	5-	70	86	56	25	117	
9	D2	3+	5-	8	7	8	7+	7-	51-	117	1.9	3	4+	7+	7-	7-	6	5	5-	149	100	111	105	106	
10		5	4+	4-	2+	3+	2	2-	25-	19	1.0	4+	4-	4-	3+	3-	2	2	1+	33	25	29	36	18	
11		3-	3	4-	5	4-	3+	2+	27	20	1.0	3-	3-	4-	4+	3	3-	2+	3-	31	38	26	36	28	
12		3	3	3+	6-	5-	4-	3+	31-	28	1.2	3	3-	3+	5-	3+	3+	3-	3-	37	50	34	46	39	
13	D1	5-	5	7-	7	8	9-	6	53-	134	1.9	4	5-	5+	6+	7-	7	5+	6	150	130	124	91	162	
14	D3	7-	6+	7-	6	6+	4	5+	45+	75	1.8	6	6-	5+	5+	5	4-	4	3+	92	85	69	88	67	
15		4+	3+	2+	3-	2-	1+	2+	19+	12	0.7	4-	3+	3-	3-	1+	1	1+	1+	20	23	11	24	10	
16		3-	2+	1+	1+	2	5	5+	24+	22	1.1	2	2+	2-	1+	2-	4-	4	3+	25	40	21	11	50	
17	D5	6-	5+	5+	3+	3+	4	4	36+	41	1.5	5-	4	5-	4-	3-	4-	3+	4	51	66	58	69	55	
18		5-	2+	2-	2	3+	4-	4+	26+	21	1.1	5-	2+	2-	1+	2+	3	4-	4-	33	47	24	23	48	
19		4-	4	4	4	5	5-	6+	36	40	1.4	4-	4-	4	4-	4	4	5+	4	57	68	55	42	80	
20		3	4-	5	4+	4-	4+	4	32	28	1.2	3	4	5-	4+	3+	3	3	4-	46	47	39	46	40	
21		4+	6-	4	4	4-	4-	4	34-	32	1.3	4	5-	4-	3+	3	3	3	4-	44	64	37	57	43	
22		4-	4-	3+	3+	4+	3+	3-	29	23	1.1	3+	3+	3	3	3+	3-	3-	4	34	42	28	32	38	
23		4-	3-	2-	2+	3	4-	4-	22+	14	0.8	3	3-	2	2+	3	3+	3-	2-	24	32	19	20	32	
24	Q6	2-	2-	2+	2	1+	2-	2-	14+	6	0.3	1+	1+	2	2-	1+	2-	2+	2-	12	14	11	12	13 C	
25		2-	2	3+	2+	3	3+	3-	20	11	0.7	2-	2-	3+	3-	2+	3-	3-	1+	19	24	15	18	21	
26	Q2	1-	2-	1+	1-	1+	1	1+	10-	5	0.2	1	2-	1+	1-	1+	1	1	1+	8	11	5	6	10 CK	
27	Q8A	2-	1+	1-	1	1-	1+	4-	13+	8	0.4	1	1+	1-	1+	1-	1+	3	3	12	18	8	7	20 KK	
28	Q4K	2	2+	1	1-	1-	1	1-	11+	6	0.3	2	2+	1+	1-	1	1	1	3-	11	14	8	9	13 KK	
29	Q5	2	2	2	1+	1+	1	1	13	6	0.3	2	2	2-	1+	1+	1	1	2	11	13	8	12	9 CK	
30	Q10A	2-	3-	3+	1+	1+	2	2+	16	8	0.5	2-	3-	3	1+	1+	2-	2+	1+	15	20	14	18	16 K	
31	Q3	2	1+	1+	1-	2-	2-	1+	12+	6	0.3	2+	1+	2	1	2-	2-	1+	2+	12	15	7	9	13 C	

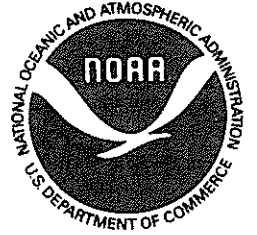
Mean 27 0.92 36.9 40.4 30.1 35.2

Day	Kn Three-Hourly Indices								An	Ks Three-Hourly Indices								Prov				
	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8	As	Sa	Ri	Ra	Rs
1	3	3+	2	1+	2+	3	3-	3-	24	3-	3+	2-	0+	1+	2-	2-	2-	14	250.3	188	192	208
2	2	3-	3+	3+	3+	3+	4-	4-	35	1	2+	3+	3+	2	3	3	3+	26	251.8	213	200	210
3	4-	4+	4-	3+	4	3+	4-	3+	46	3+	3+	4	3+	3	3	3+	3+	38	257.3	238	230	216
4	4	3-	3	3	3-	2	2	1+	26	5-	3-	3-	2-	2-	1+	1	1	22	255.4	250	226	214
5	2-	1+	1+	1+	2-	2-	1+	1+	10	1-	1-	1-	1	1-	1	1-	1-	5	259.5	217	207	218
6	1+	1+	1	2-	2	3-	3-	3	16	1+	1	1	1+	1	2	1+	2	10	240.8	204	200	198
7	2	3-	1+	1	1+	2-	3-	3-	15	2-	2+	1-	1-	1	1	1+	3-	10	226.1	209	206	182
8	3-	3-	4-	4	4	7-	6	5	84	3	2+	3-	3+	3-	6-	5+	4+	55	211.2	203	188	166
9	3-	5-	7+	6+	7	7-	5+	5	164	3-	4-	7+	7	6+	5+	5-	5-	135	200.6	179	163	155
10	5-	4	3+	3	3	2+	2+	2	34	4+	4-	4	4-	3-	2-	2	1	32	200.2	181	153	154
11	3-	3	4-	4+	3	3	3-	3	35	3-	3-	3+	4	3-	2+	2-	2+	27	202.3	170	140	156
12	3-	3	4-	5-	4	3+	3+	3+	43	3	2+	3	5-	3-	3	2	2	30	209.9	138	136	165
13	4	5-	6-	7-	7-	7+	6-	6	165	4+	5-	5	6	6+	7	5	6	135	202.3	146	138	156
14	6-	6	6-	5+	5	3+	4-	3	95	6	5+	5	5+	5-	4	4	4-	89	194.8	132	128	148
15	3+	3	3-	3	2	1+	2-	2-	21	4-	4-	2+	3-	1-	1-	1-	1	19	192.0	117	114	145
16	3-	3-	2-	2	2+	4	4	4-	30	1+	2-	2-	1	1-	3+	4-	3	20	172.6	98	98	124
17	5-	4+	5-	3	3	4-	3+	4	51	5-	4	5	4	2	4-	3	4	52	163.9	91	87	115
18	5-	2+	2-	2	3-	3+	4	4-	35	5-	3-	2-	1	1	3-	4-	4-	31	194.8	89	85	148
19	3+	4-	4-	4-	4	4	5	4-	54	4+	3+	4	3+	4-	4-	6-	4+	59	184.1	114	115	137
20	3	4-	5-	4+	3+	3+	4-	4	50	3-	4	5-	4+	3+	3-	3-	3+	42	205.3	132	124	160
21	4-	5-	4-	3+	3+	3+	3+	4	45	4	5-	4	3	3	3-	3-	3+	42	221.6	171	157	177
22	3+	3+	3	3+	4-	3	3-	4	37	4-	4-	3+	3-	3-	2	2+	4-	31	230.2	184	162	187
23	3	3	2	2+	3	3+	3	2	26	3	2+	2	2	3-	3+	2+	1+	20	234.0	212	192	191
24	1+	1+	3-	2+	1+	2	2+	2-	15	1+	1+	1+	1	1-	2-	2	2-	9	240.8	205	208	198
25	2-	2	3+	3	3-	3	3-	2-	23	1+	2-	3+	2+	1+	2-	2	1+	15	237.5	207	200	195
26	1+	2-	2-	1	2-	1+	1+	2	10	1-	1+	1	0+	1	0+	1-	1	6	226.6	199	196	183
27	1+	1+	1	1+	1	2-	3+	3	15	1	1+	0+	1	0+	1-	2+	3	10	219.5	183	182	175
28	2	2+	1+	1+	1+	1+	1+	3	14	2-	2+	1	0+	0+	0+	2	2	8	219.4	183	186	175
29	2	2+	2+	1+	2-	1+	1+	2+	14	2-	1+	1	1-	1	1-	1-	2-	8	226.6	182	187	183
30	2-	3-	3	2-	2-	2	2+	2-	17	2-	2+	3-	1+	1	2-	2	1	13	228.4	197	189	185
31	2+	2-	2+	1+	2	2	2-	2+	15	2-	1	1+	0+	1	1	1	2	9	225.9	165	166	182

Mean 40.8 33.0 218.9 174.1 166.3 174.4



**WORLD DATA CENTER A**  
**FOR**  
**SOLAR-TERRESTRIAL PHYSICS**



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

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