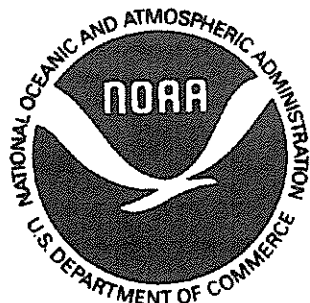




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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE

Thomas N. Pyke, Jr., Assistant Administrator

JANUARY 1993 NUMBER 581 - Part I

Solar-Geophysical Data prompt reports

Data for December, November 1992 and Late Data

International Standard Serial Number: 0038-0911

Library of Congress Catalog Number: 79-640375 //r81

NATIONAL GEOPHYSICAL DATA CENTER

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Boulder, Colorado

Subscription information is on the inside back cover.

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

NUMBER 581

(Issued in Two Parts)

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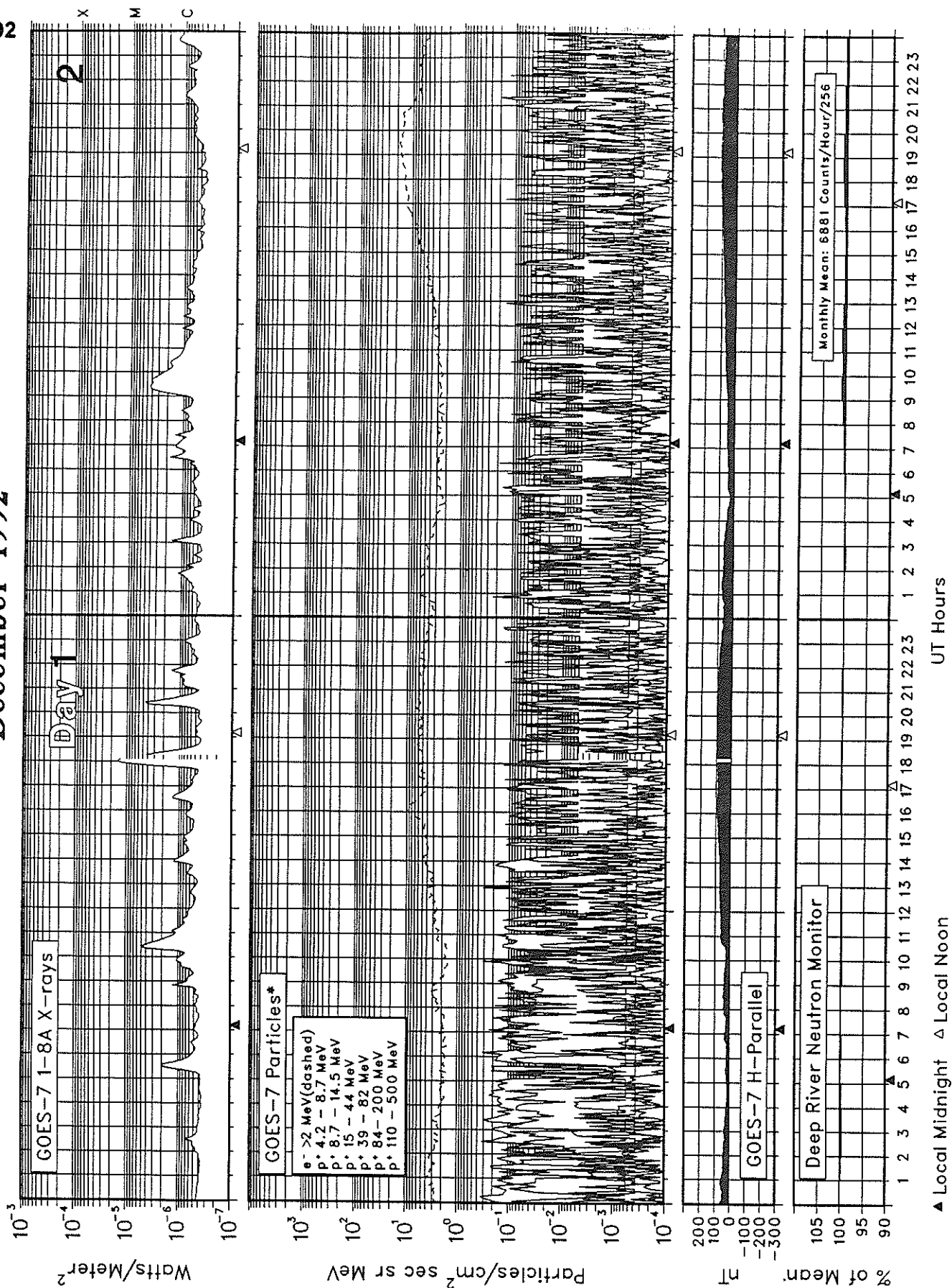
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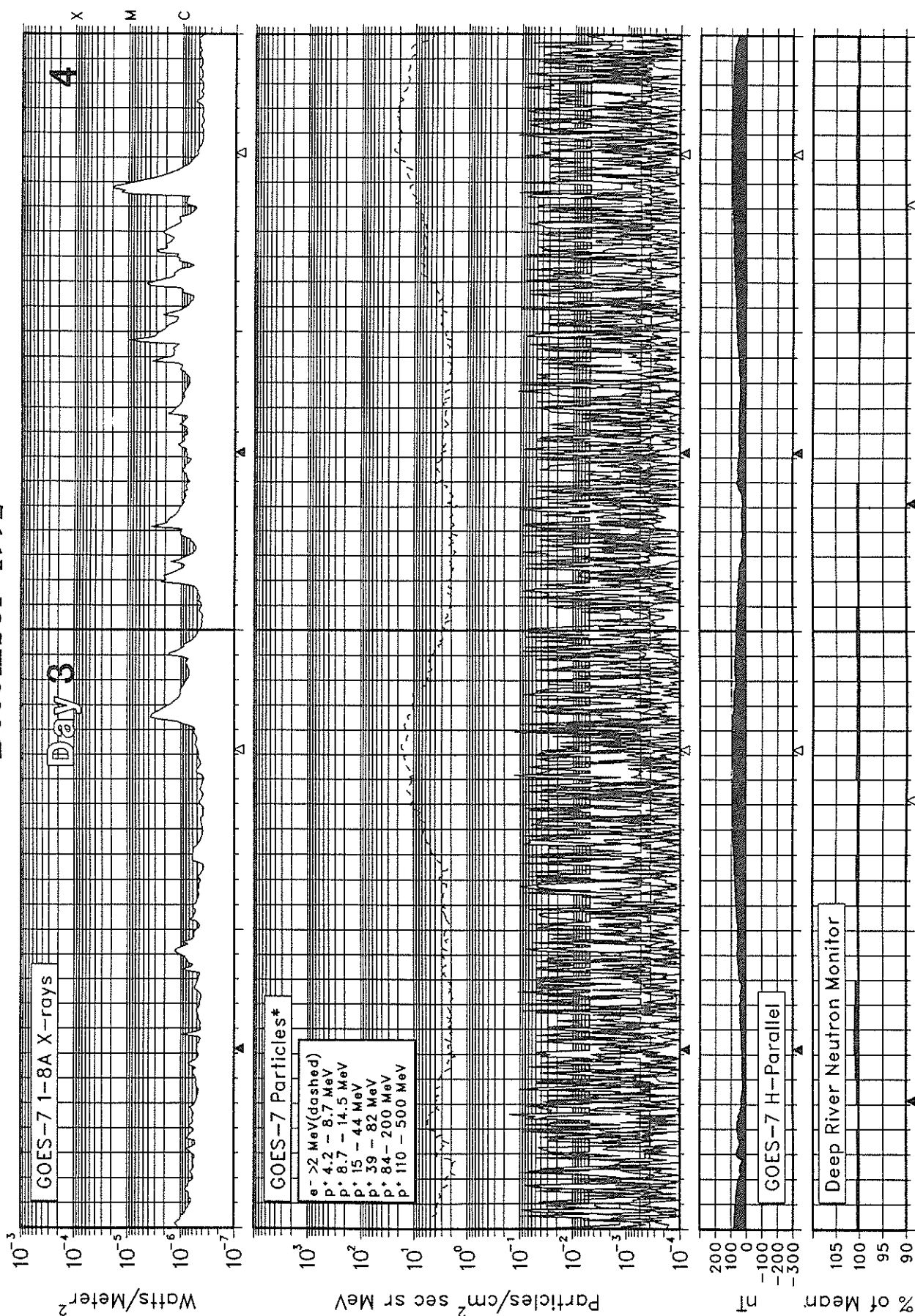


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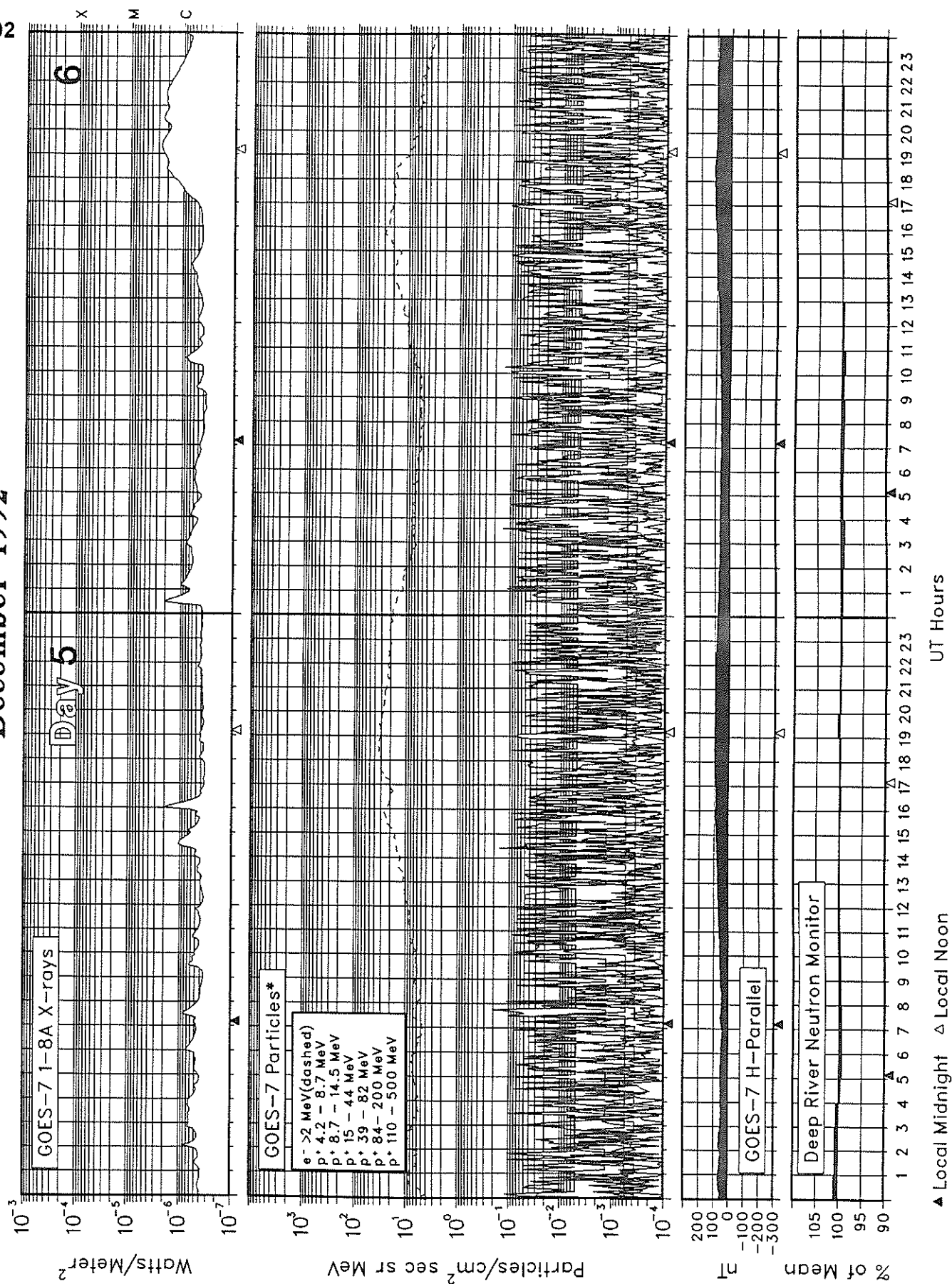
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▲ Local Midnight Δ Local Noon

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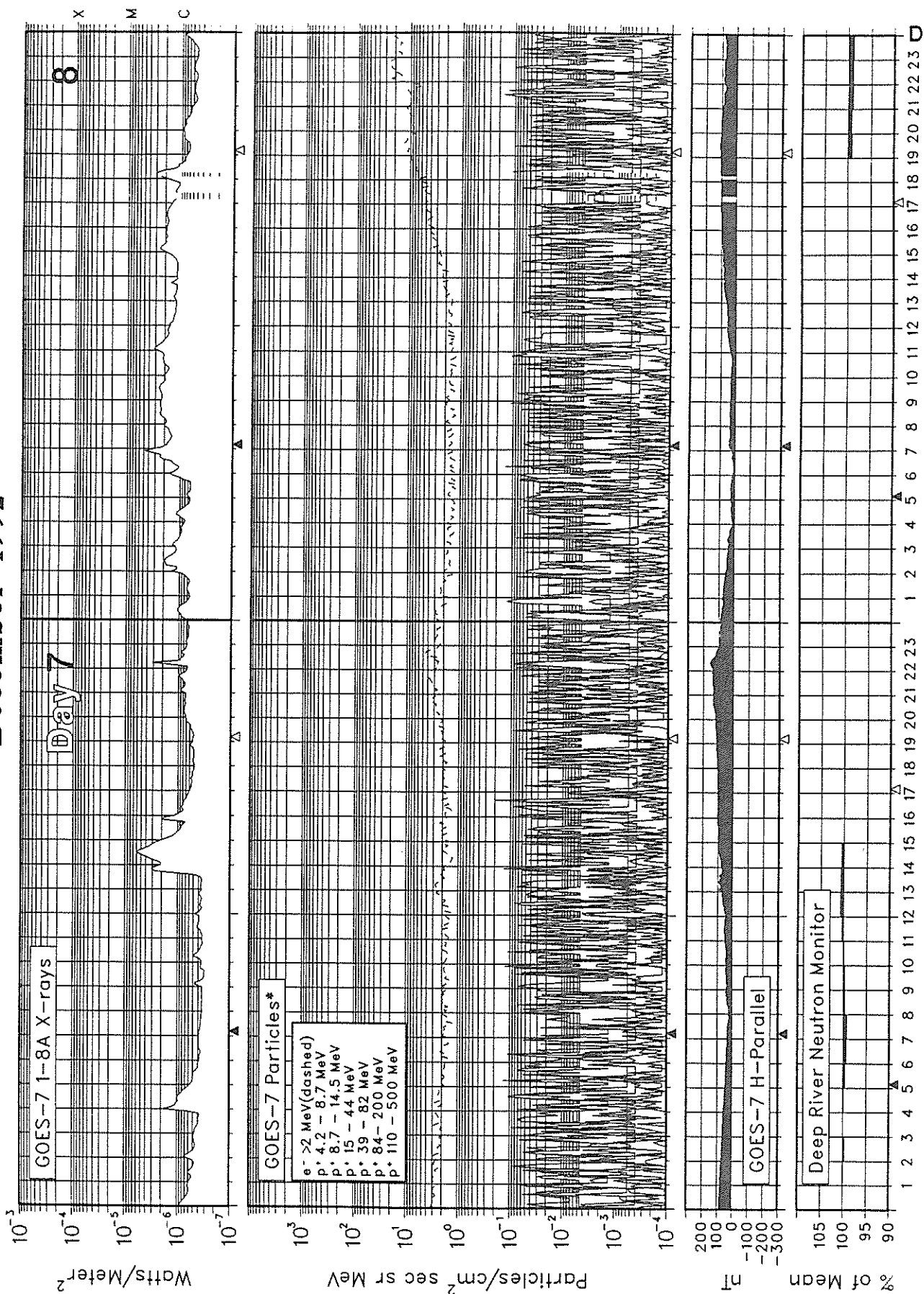
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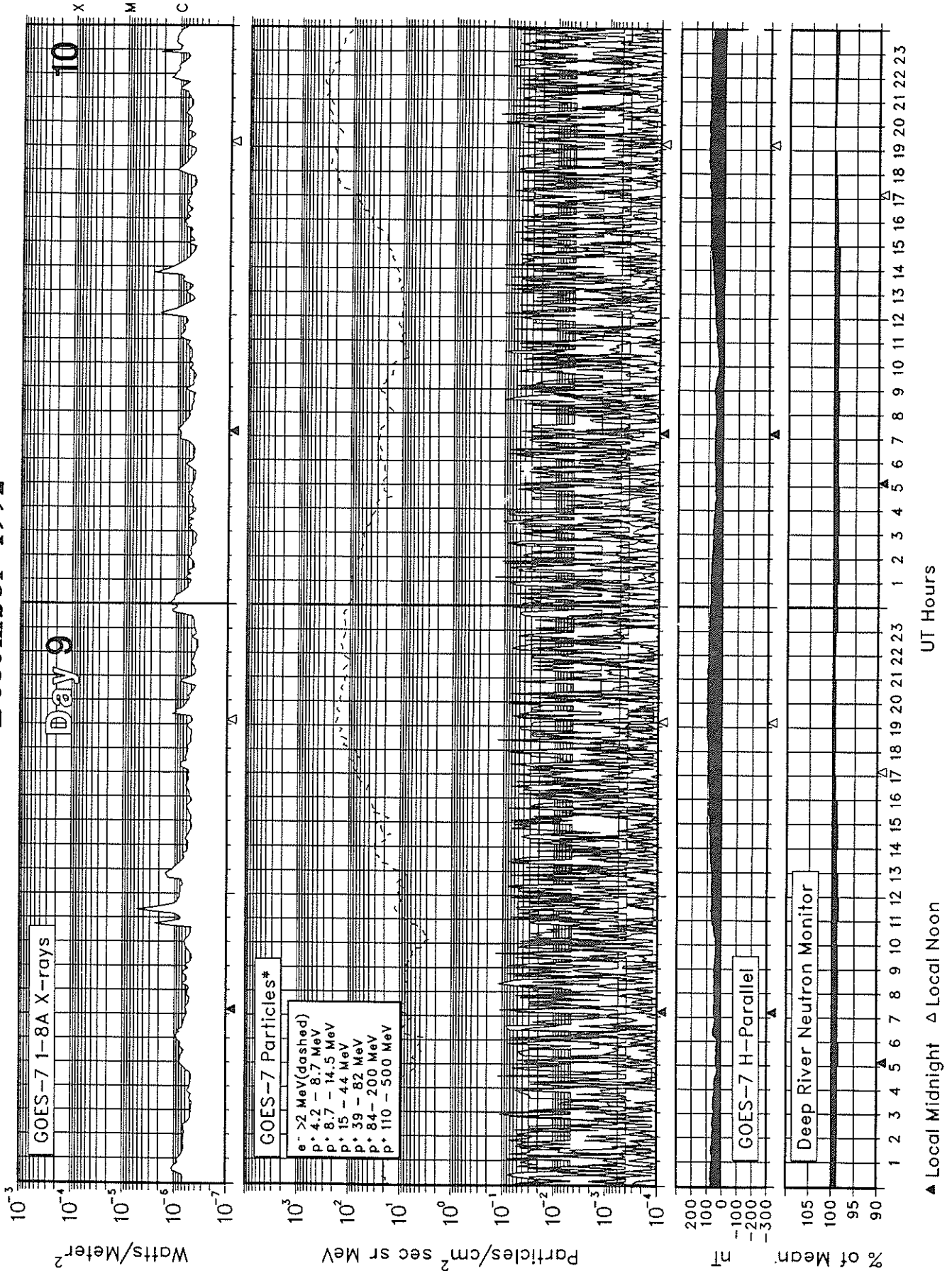
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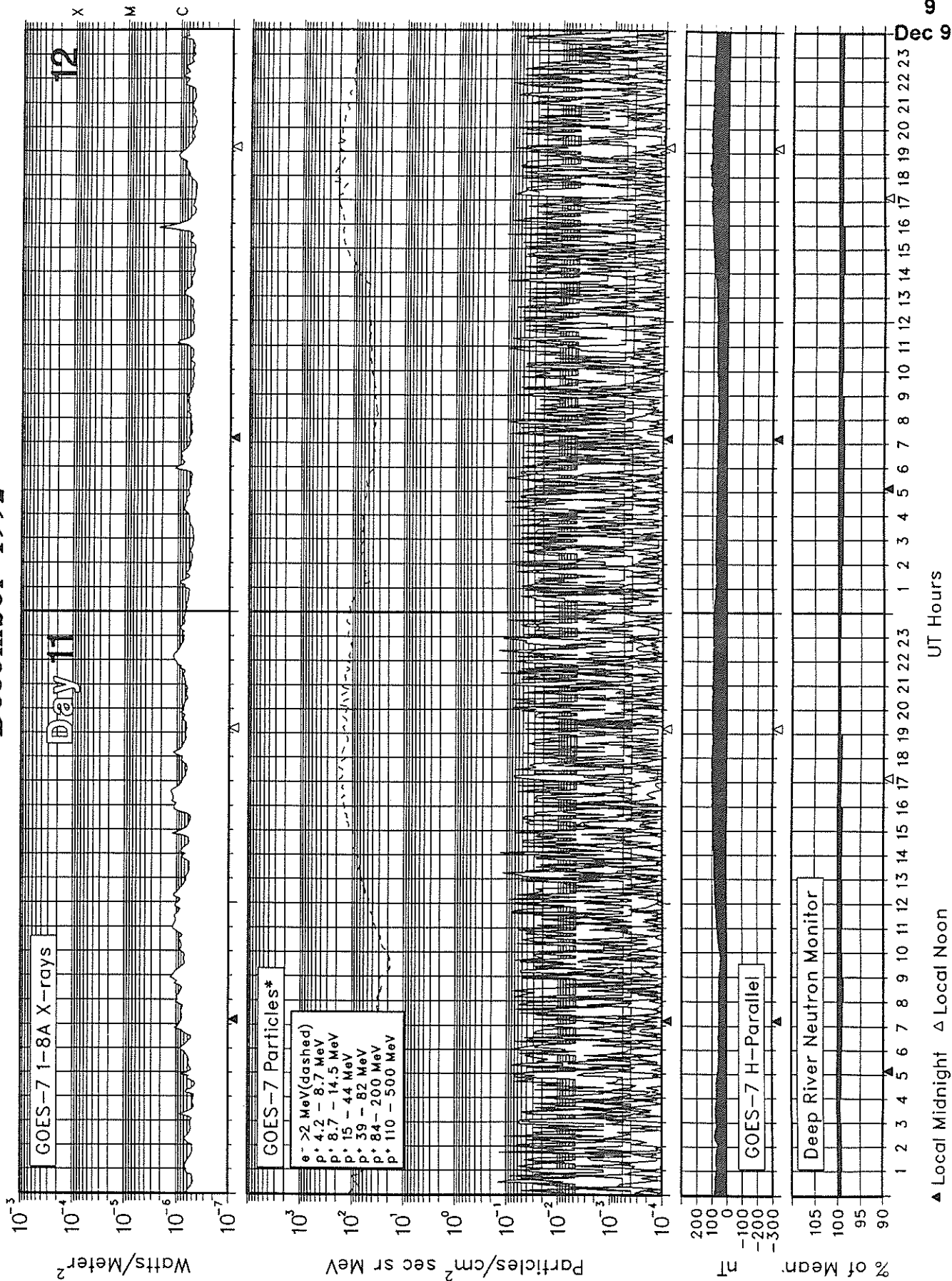
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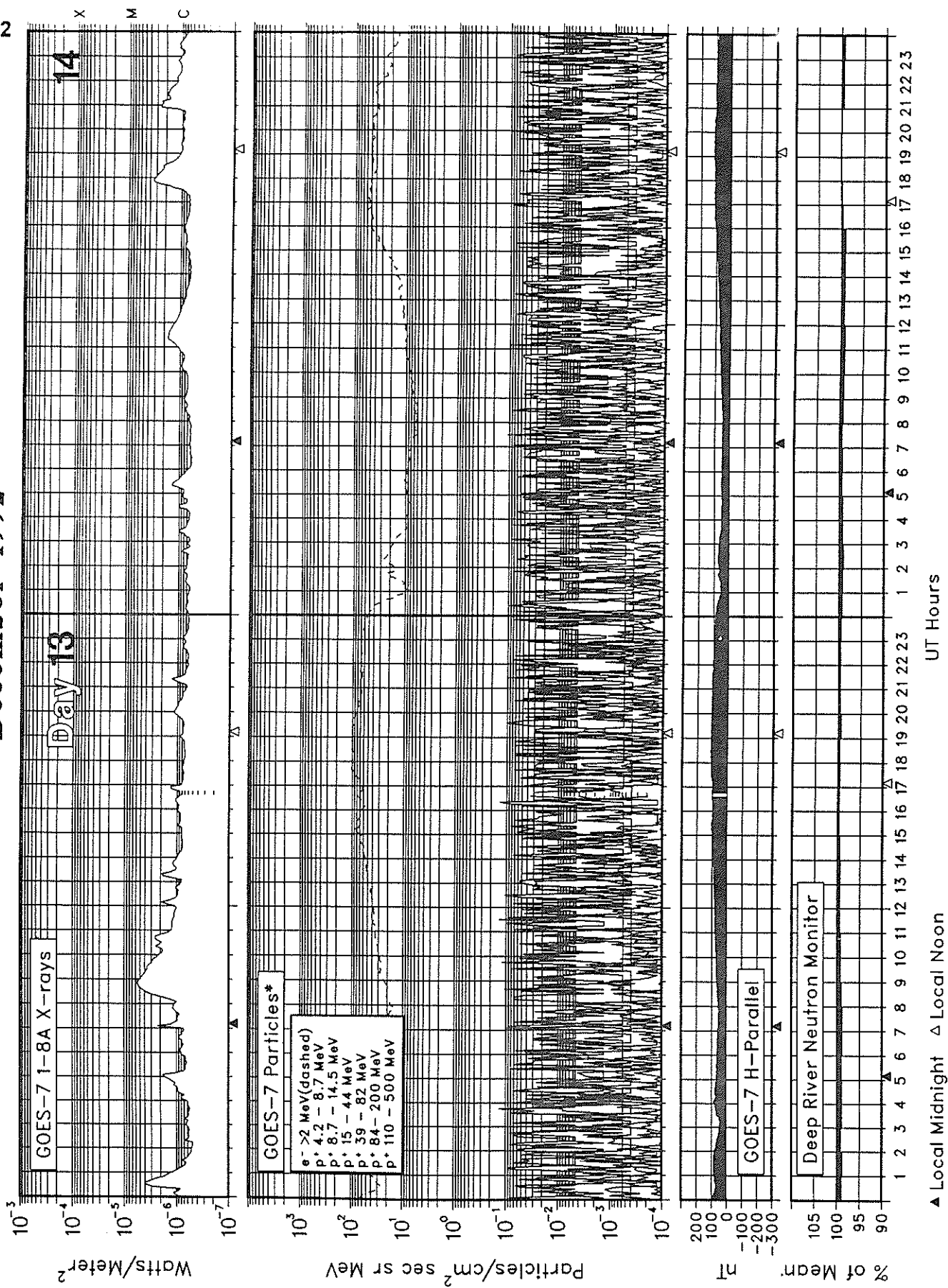


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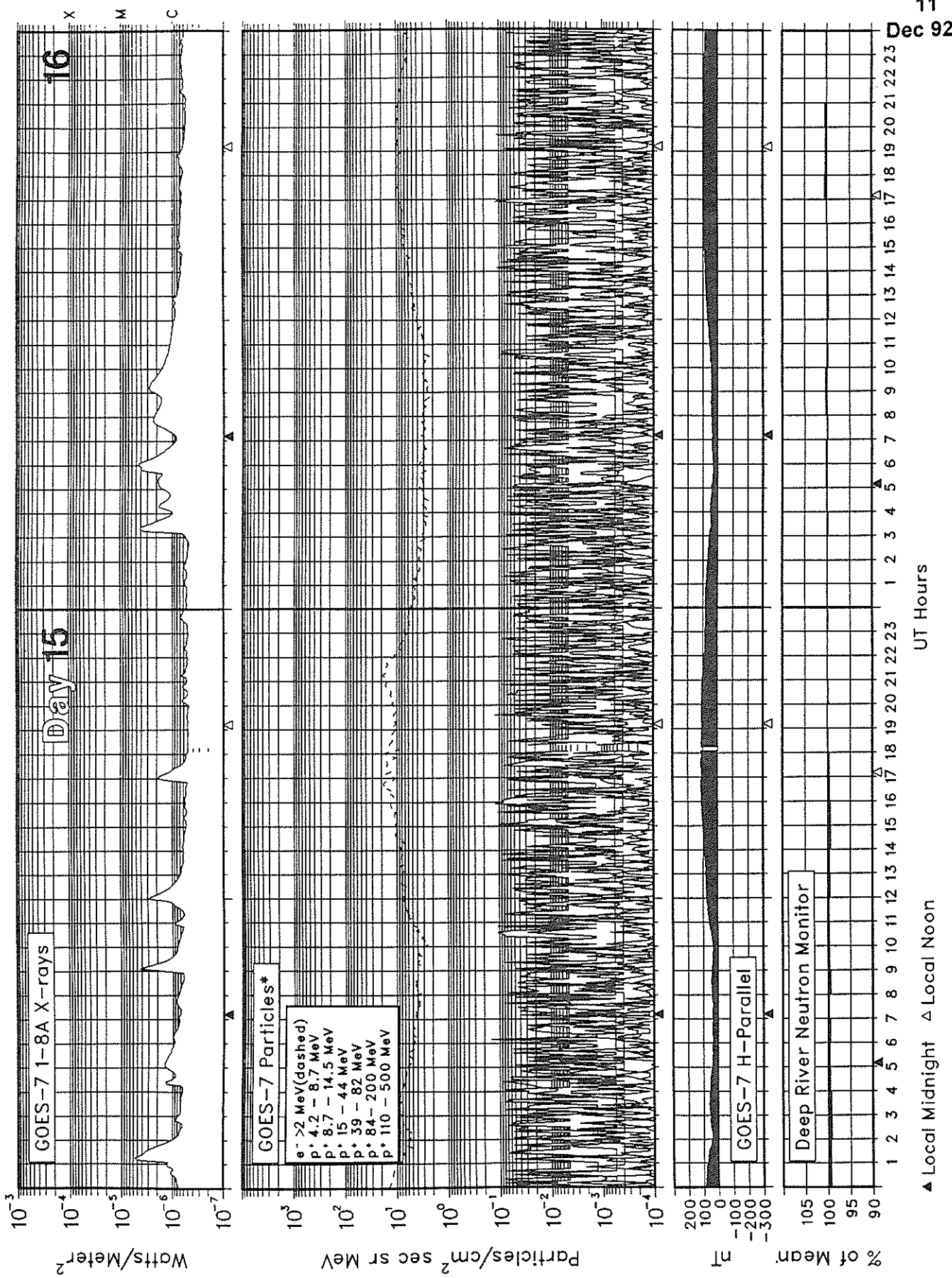
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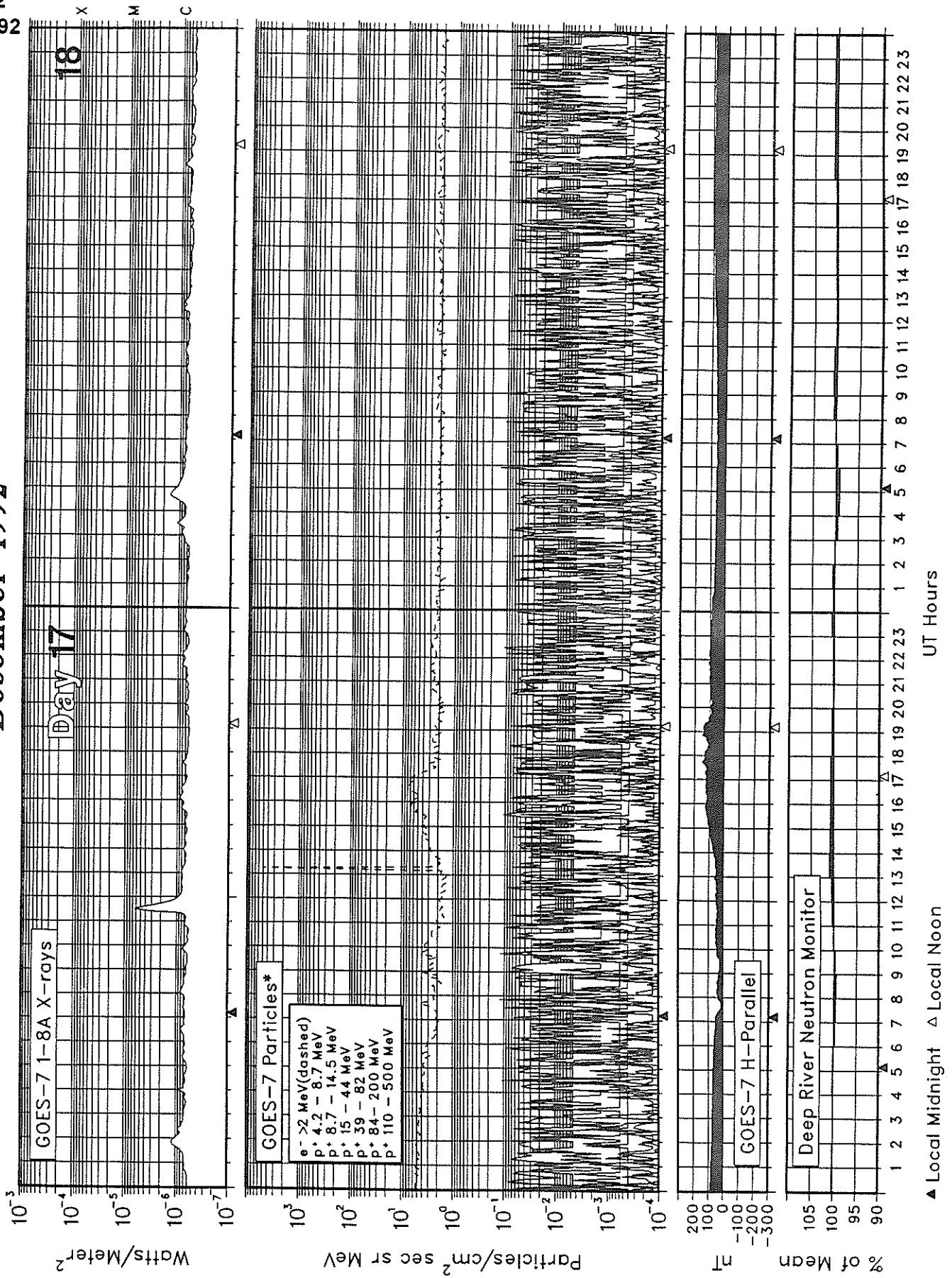
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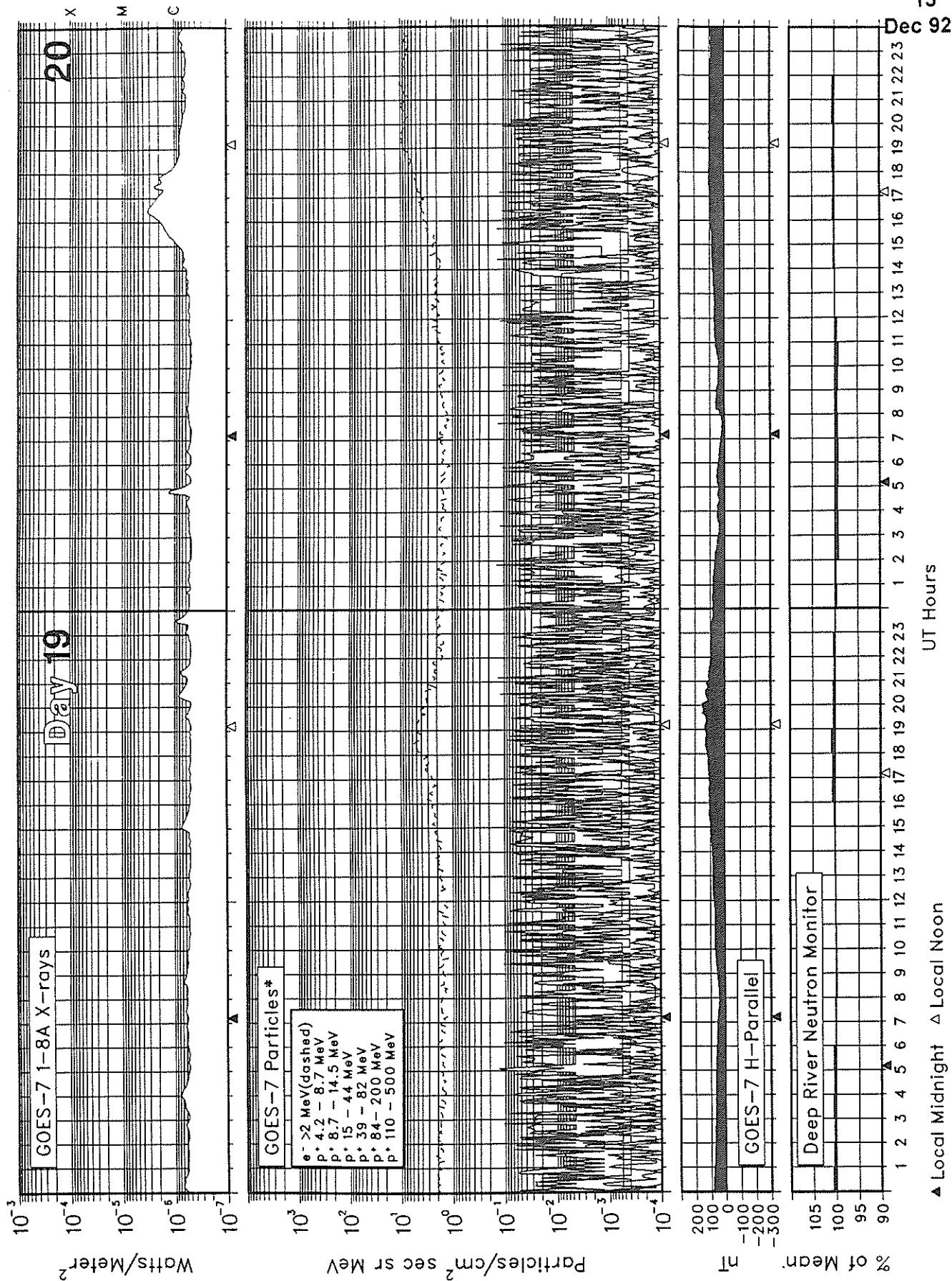
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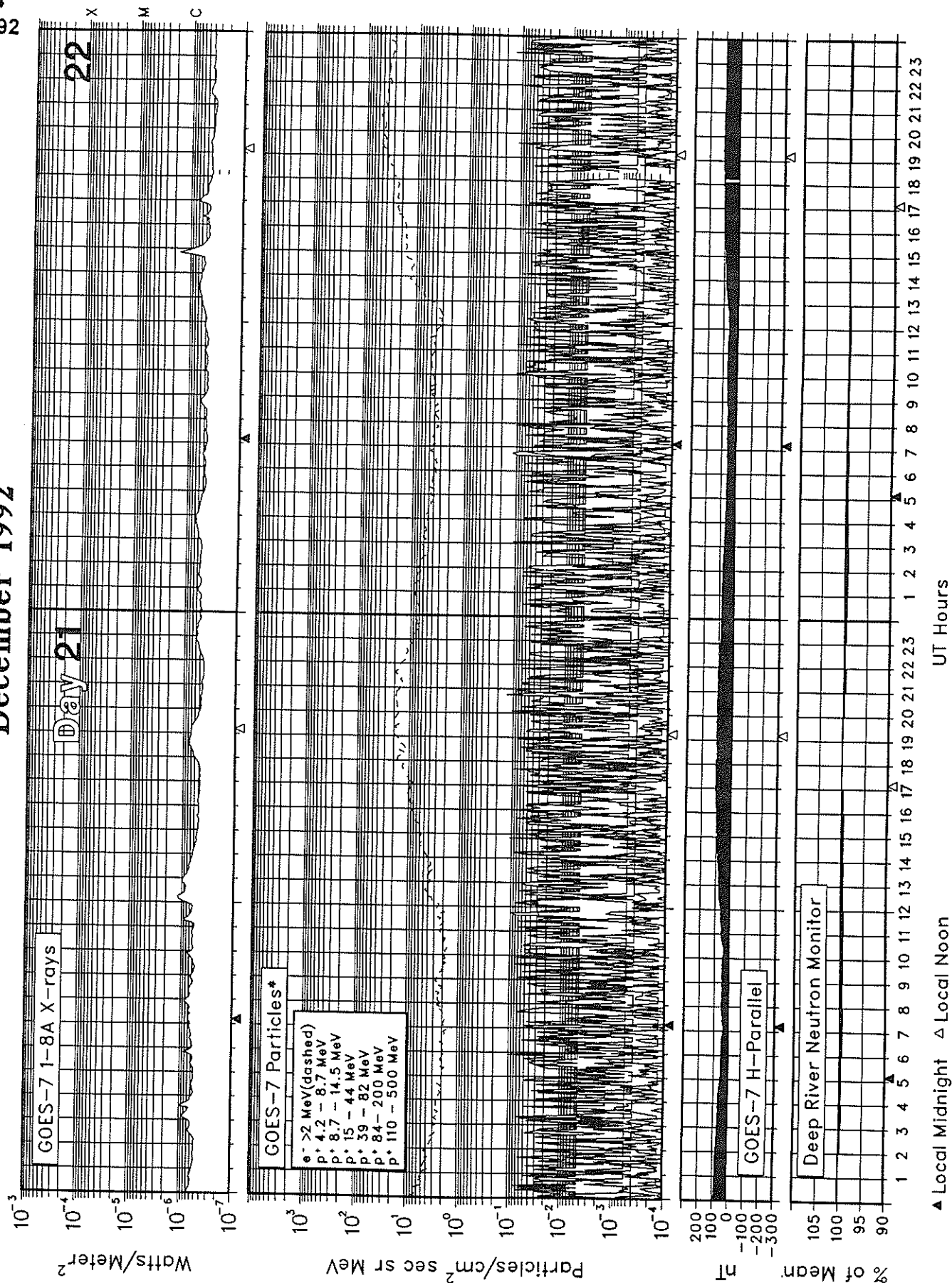
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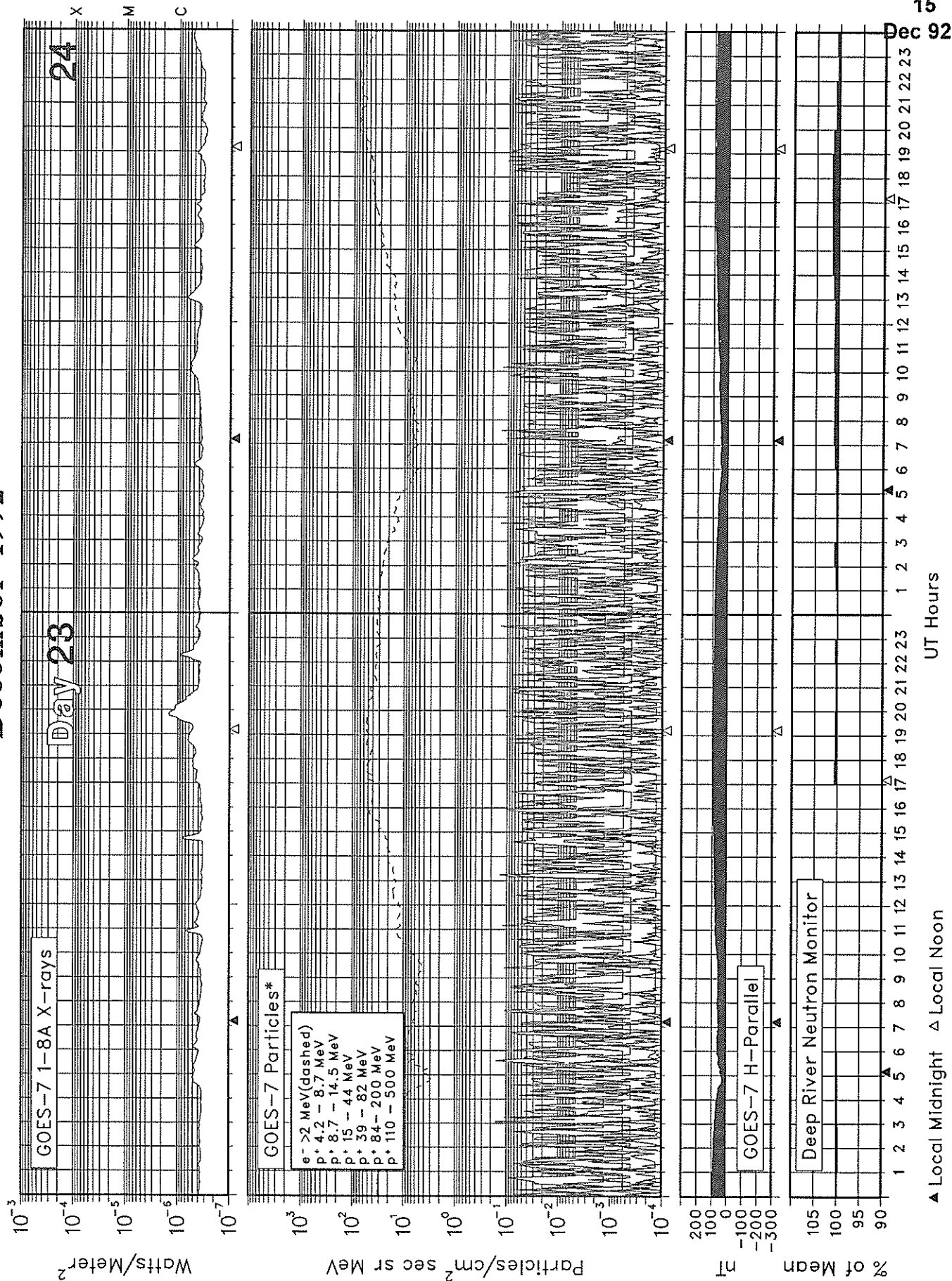
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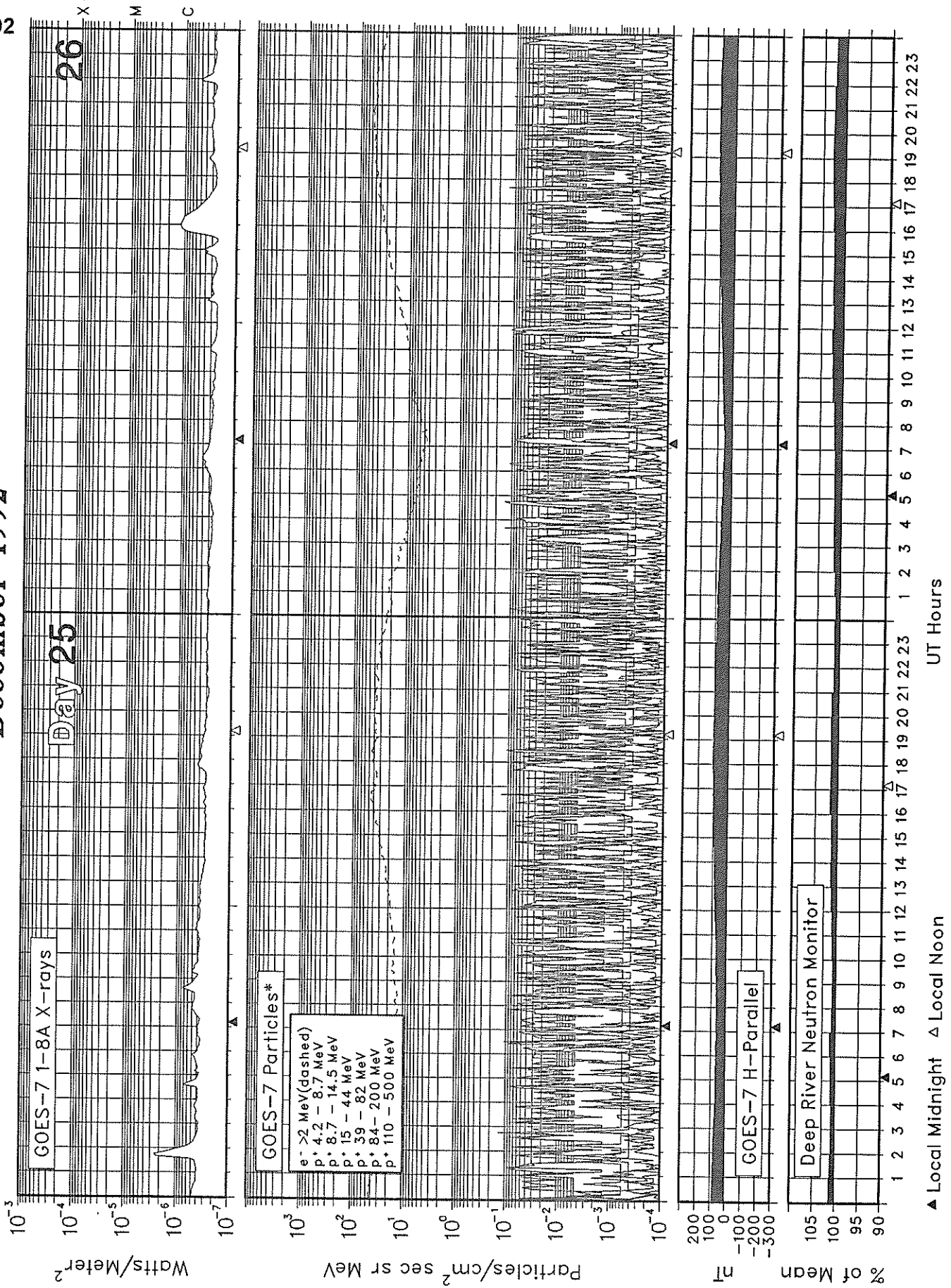
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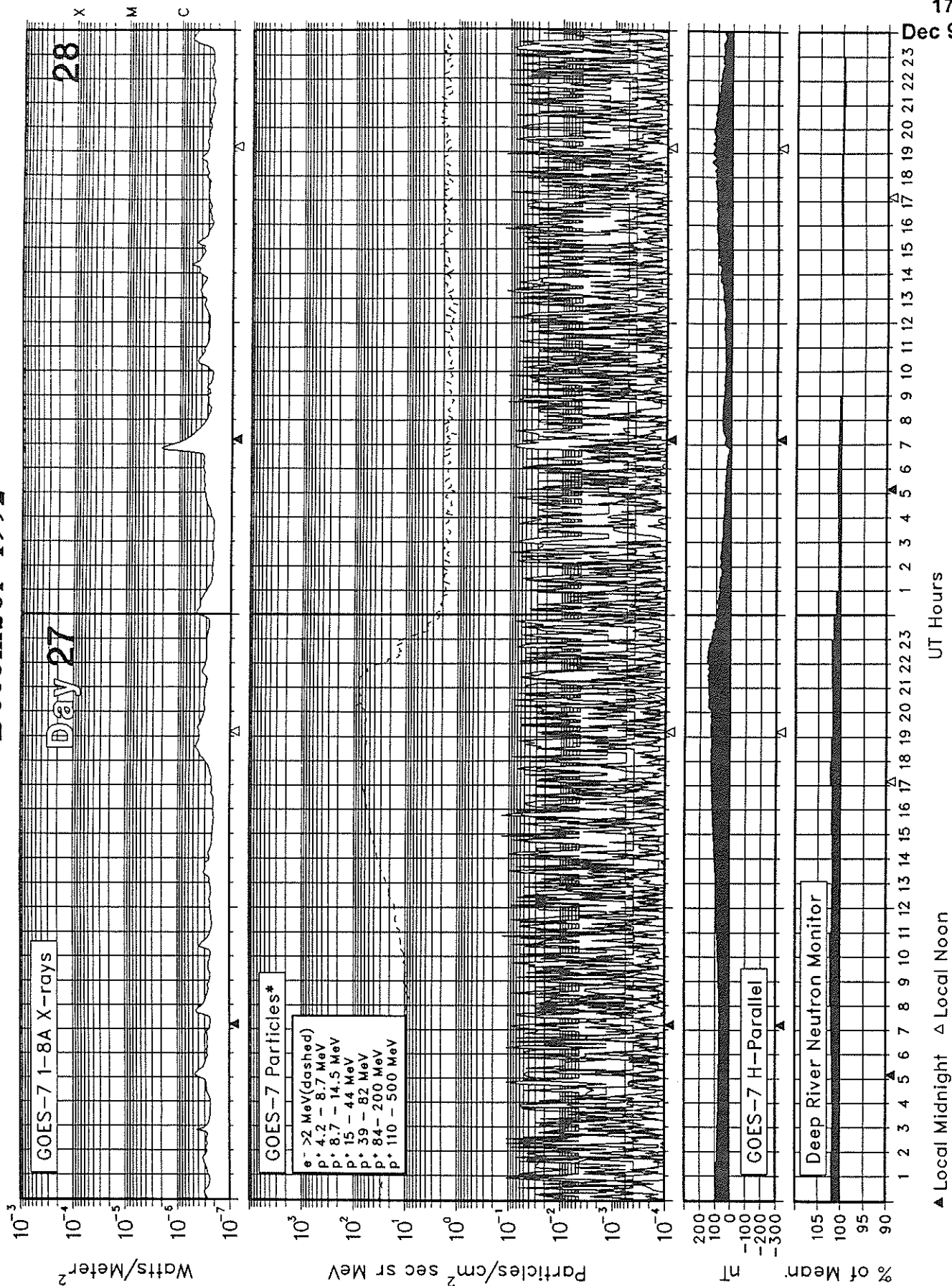
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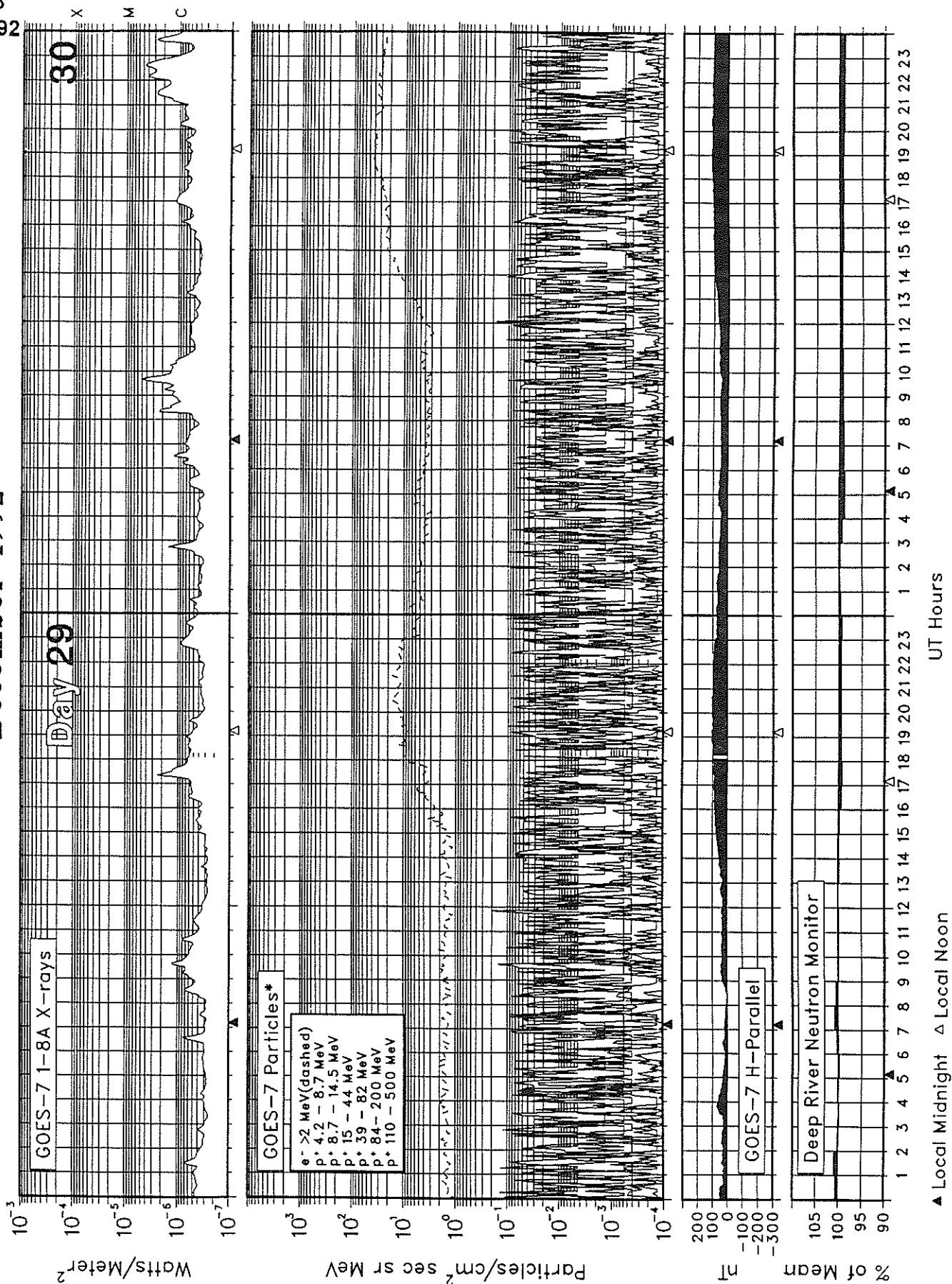
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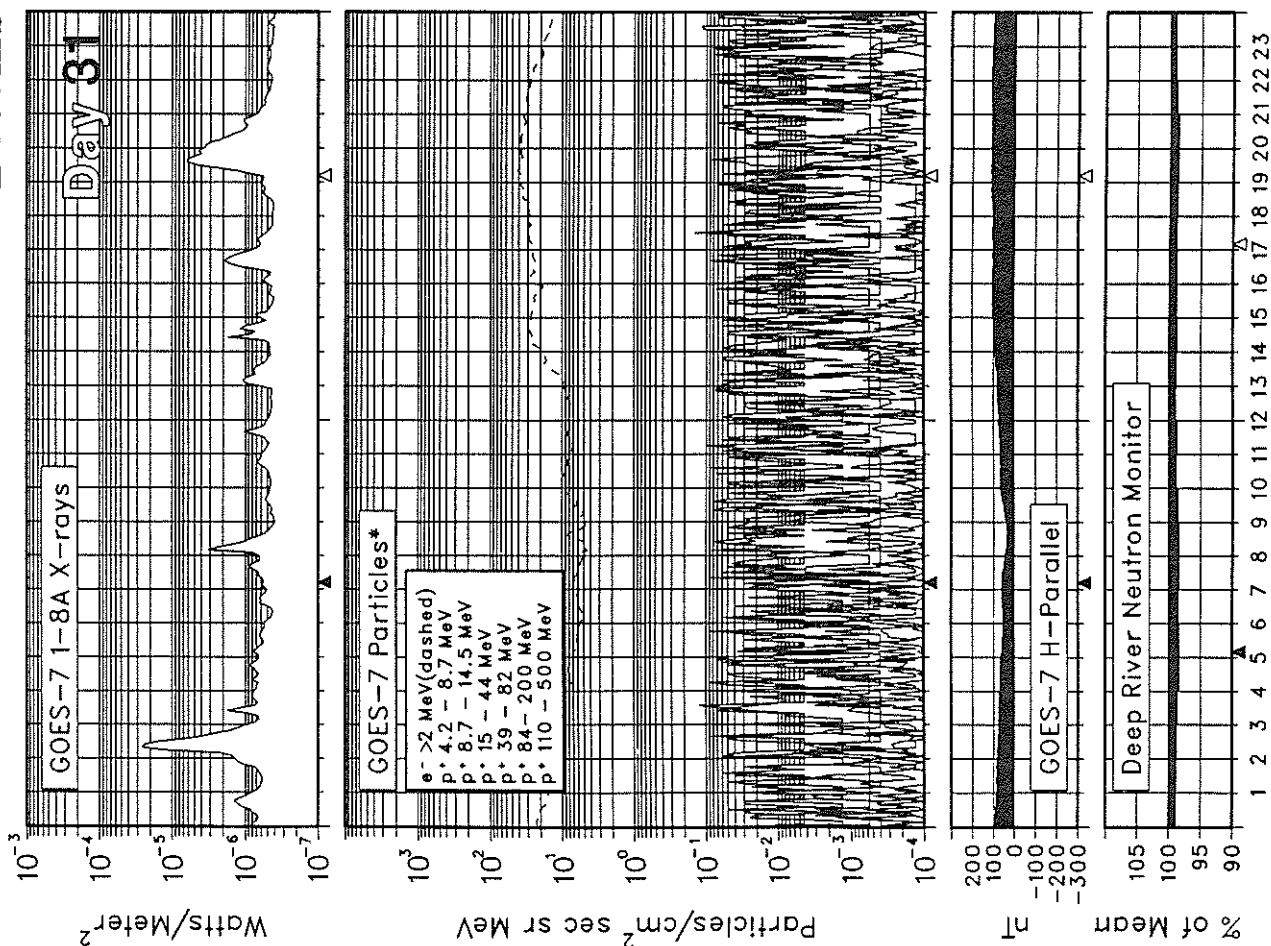
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▲ Local Midnight ▲ Local Noon

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages

DECEMBER 1992

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A-index	Location		Flares			Date of Forecast	Location		Region Forecast ¹	Geoalerts
						° Lat	° Long	Total	M	X		° Lat	° Long		
336	01	30	112	140	7	S11	W93	0		0		01		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						N12	W29	4		0		01		E	
						S20	W22	1		0		01		Q	
						N20	W27	3		0		01		E	
						S03	E08	1		1		01		E	
						S23	W51	0		0		01		Q	
337	02	01	092	131	17	N13	W42	2		0		02		E	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S19	W37	0		0		02		Q	
						N20	W41	8		1		02		E	
						S03	W04	0		0		02		Q	
						S23	W65	0		0		02		Q	
338	03	02	094	130	9	N11	W55	2		0		03		E	SOL: Eruptive MAG: Active PROTON: Quiet
						S19	W50	0		0		03		Q	
						N19	W55	15		0		03		E	
						S05	W20	0		0		03		Q	
						S24	W82	0		0		03		Q	
						S18	E86	0		0		03		Q	
339	04	03	074	126	14	N11	W69	0		0		04		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S20	W64	0		0		04		Q	
						N19	W69	8		0		04		E	
						S08	W33	0		0		04		Q	
						S17	E69	0		0		04		Q	
						S13	W44	0		0		04		Q	
340	05	04	094	120	12	N11	W84	0		0		05		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S21	W76	0		0		05		Q	
						N19	W80	9		2		05		E	
						S07	W48	0		0		05		Q	
						S17	E56	0		0		05		Q	
						S13	W58	0		0		05		Q	
						N12	E45	0		0		05		Q	
341	06	05	120	116	5	N12	W92	0		0		06		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S21	W92	0		0		06		Q	
						N21	W88	1		0		06		Q	
						S17	E43	0		0		06		Q	
						S14	W74	0		0		06		Q	
						N14	E34	1		0		06		Q	
						N07	W05	0		0		06		Q	
						S28	E26	0		0		06		Q	
						S16	E79	0		0		06		Q	
342	07	06	087	120	2	S17	E29	0		0		07		Q	SOL: Quiet MAG: Quiet PROTON: Quiet
						S12	W85	0		0		07		Q	
						N07	W19	0		0		07		Q	
						S28	E15	0		0		07		Q	
						S17	E65	0		0		07		Q	
						S16	W74	0		0		07		Q	
						S04	E59	0		0		07		Q	
343	08	07	051	120	11	S17	E16	0		0		08		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						S17	E54	1		0		08		Q	
						S14	W86	5		0		08		E	
						S04	E43	0		0		08		Q	

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

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Summary of the Gealert Messages

DECEMBER 1992

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A- index	Location		Flares			Date of Forecast	Location		Region Forecast ¹	GEOALERTS
						°Lat	°Long	Total	M	X		°Lat	°Long		
344	09	08	101	129	18	S17	W00	0		0		09		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						S17	E42	0		0		09		E	
						S04	E31	1		0		09		Q	
						S08	E67	2		0		09		E	
						N09	E65	0		0		09		Q	
						S21	E12	0		0		09		E	
345	10	09	128	134	12	S16	W16	0		0		10		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S17	E30	0		0		10		Q	
						S04	E18	2		0		10		E	
						S07	E58	3		0		10		E	
						N09	E54	0		0		10		Q	
						S21	W00	0		0		10		Q	
346	11	10	142	142	9	S17	W26	0		0		11		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S17	E18	1		0		11		E	
						S04	E04	8		0		11		E	
						S07	E45	0		0		11		E	
						N11	E42	0		0		11		Q	
						S20	W15	0		0		11		Q	
347	12	11	190	164	9	S17	W37	0		0		12		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S17	E05	4		0		12		E	
						S04	W10	3		0		12		E	
						S07	E32	0		0		12		E	
						N10	E29	0		0		12		Q	
						S21	W29	0		0		12		Q	
348	13	12	179	166	4	S12	E57	0		0		12		Q	
						S18	W50	0		0		13		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S18	W09	2		0		13		E	
						S06	W23	0		0		13		E	
						S08	E19	0		0		13		E	
						N09	E16	0		0		13		Q	
349	14	13	184	173	8	S21	W43	0		0		13		Q	
						S12	E44	3		0		13		E	
						S19	W62	0		0		14		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S19	W22	0		0		14		E	
						S06	W36	4		0		14		E	
						S08	E06	0		0		14		E	
350	15	14	161	167	6	N09	E03	0		0		14		Q	
						S23	W51	0		0		14		Q	
						S12	E32	5		0		14		E	
						S18	W35	0		0		14		Q	
						S34	E51	0		0		14		Q	
						S18	W76	0		0		15		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
350	15	14	161	167	6	S18	W35	0		0		15		E	
						S06	W49	2		0		15		E	
						S08	W07	0		0		15		Q	
						N08	W11	0		0		15		Q	
						S12	E19	0		0		15		E	
						S15	W52	0		0		15		Q	
350	15	14	161	167	6	S33	E36	4		0		15		E	
						S33	E36	4		0		15		E	

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Gealert Messages

DECEMBER 1992

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A- index	Location		Flares			Date of Forecast	Location		Region Forecast ¹	Galerts
						°Lat	°Long	Total	M	X		°Lat	°Long		
351	16	15	179	156	10	S17	W90	0		0	0	16		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S17	W49	3		0	0	16		E	
						S06	W61	2		0	0	16		E	
						S07	W21	0		0	0	16		Q	
						N09	W22	1		0	0	16		Q	
						S12	E05	0		0	0	16		Q	
						S33	E23	4		0	0	16		E	
						S06	E54	0		0	0	16		Q	
						S07	E67	0		0	0	16		Q	
352	17	16	151	151	5	S19	W62	4		0	0	17		E	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S06	W76	0		0	0	17		E	
						S09	W33	1		0	0	17		Q	
						N08	W37	0		0	0	17		Q	
						S11	W09	1		0	0	17		Q	
						S32	E10	0		0	0	17		E	
						S05	E41	0		0	0	17		Q	
						S08	E53	0		0	0	17		Q	
						S10	W25	0		0	0	17		Q	
353	18	17	157	150	16	S17	W77	0		0	0	18		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						S05	W85	0		0	0	18		Q	
						S08	W46	0		0	0	18		Q	
						N09	W50	0		0	0	18		Q	
						S11	W19	0		0	0	18		Q	
						S32	W02	0		0	0	18		E	
						S06	E28	0		0	0	18		Q	
						S08	E40	0		0	0	18		Q	
						S09	W37	0		0	0	18		E	
354	19	18	149	150	4	S11	E69	0		0	0	18		Q	SOL: Eruptive MAG: Minor PROTON: Quiet
						S17	W90	0		0	0	19		Q	
						S08	W60	1		0	0	19		Q	
						N08	W63	0		0	0	19		Q	
						S32	W15	0		0	0	19		E	
						S07	E18	0		0	0	19		Q	
						S08	E27	0		0	0	19		Q	
						S10	W50	1		0	0	19		E	
						S11	E59	0		0	0	19		Q	
355	20	19	162	147	7	N05	W06	0		0	0	19		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						S08	E73	0		0	0	19		E	
						S09	W76	0		0	0	20		Q	
						N08	W78	0		0	0	20		Q	
						S10	W47	0		0	0	20		Q	
						S33	W27	0		0	0	20		Q	
						S08	E14	0		0	0	20		Q	
						S09	W63	0		0	0	20		E	
						S12	E44	0		0	0	20		Q	
						N06	W20	0		0	0	20		Q	
						S08	E61	0		0	0	20		E	
						N14	W41	0		0	0	20		Q	
						N18	E71	0		0	0	20		Q	

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

23
Dec 92

Summary of the Geoalert Messages

DECEMBER 1992

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A- index	Location		Flares			Date of Forecast	Location		Region Forecast ¹	Geoalerts
						°Lat	°Long	Total	M	X		°Lat	°Long		
356	21	20	150	148	11	S11	W91	0		0	0	21		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						N08	W92	0		0	0	21		Q	
						S33	W39	0		0	0	21		Q	
						S09	W09	0		0	0	21		Q	
						S08	W00	0		0	0	21		Q	
						S11	W77	0		0	0	21		Q	
						S12	E31	0		0	0	21		Q	
						S08	E48	3		0	0	21		E	
						N14	W54	0		0	0	21		Q	
						N17	E58	0		0	0	21		Q	
						N17	W23	0		0	0	21		Q	
						N13	E65	0		0	0	21		Q	
357	22	21	140	145	7	S07	W22	0		0	0	22		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S09	W13	0		0	0	22		Q	
						S12	W88	1		0	0	22		Q	
						S12	E18	0		0	0	22		Q	
						S08	E36	3		0	0	22		E	
						N14	W67	1		0	0	22		Q	
						N17	E45	0		0	0	22		Q	
						N13	E53	1		0	0	22		Q	
						S11	E79	0		0	0	22		Q	
358	23	22	125	142	5	S09	W25	0		0	0	23		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S12	E06	1		0	0	23		Q	
						S08	E21	1		0	0	23		E	
						N14	W81	1		0	0	23		Q	
						N17	E32	0		0	0	23		Q	
						N12	E40	1		0	0	23		E	
						S11	E68	0		0	0	23		Q	
						S16	W46	0		0	0	23		Q	
359	24	23	120	144	7	S09	W39	0		0	0	24		E	SOL: Eruptive MAG: Quiet PROTON: Quiet
						S13	W07	0		0	0	24		Q	
						S08	E07	6		0	0	24		E	
						N15	W92	0		0	0	24		Q	
						N17	E18	0		0	0	24		Q	
						N12	E26	0		0	0	24		E	
						S12	E55	0		0	0	24		Q	
						S17	W58	0		0	0	24		Q	
360	25	24	127	136	7	S09	W51	3		0	0	25		E	SOL: Eruptive MAG: Active PROTON: Quiet
						S12	W21	0		0	0	25		Q	
						S09	W05	3		0	0	25		E	
						N17	E07	0		0	0	25		Q	
						N12	E14	0		0	0	25		Q	
						S11	E41	0		0	0	25		Q	
						N07	E44	1		0	0	25		Q	
						S15	E59	0		0	0	25		Q	
361	26	25	120	136	2	S09	W64	0		0	0	26		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						S12	W35	0		0	0	26		Q	
						S09	W18	2		0	0	26		E	
						N12	W00	0		0	0	26		Q	
						S11	E27	0		0	0	26		Q	
						N06	E30	0		0	0	26		E	
						S16	E47	0		0	0	26		Q	

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

Summary of the Geoalert Messages

DECEMBER 1992

Julian Day	Date of Issue	Date of Observation	Wolf No.	10-cm Solar Flux	A- index	Location		Flares			Date of Forecast	Location		Region Forecast ¹	Geoalerts
						°Lat	°Long	Total	M	X		°Lat	°Long		
362	27	26	158	131	2	S09	W80	0		0	0	27		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						S12	W50	0		0		27		Q	
						S09	W33	0		0		27		Q	
						N17	W21	1		0		27		Q	
						N12	W12	0		0		27		Q	
						S11	E14	0		0		27		Q	
						N05	E16	0		0		27		Q	
						S18	E36	1		0		27		Q	
						S04	E15	0		0		27		Q	
363	28	27	127	125	3	N03	W13	0		0	0	27		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						S08	W92	0		0		28		Q	
						S10	W23	0		0		28		Q	
						N16	W35	0		0		28		Q	
						N11	W24	0		0		28		Q	
						S11	W00	1		0		28		Q	
						N05	E02	0		0		28		Q	
						S05	E01	0		0		28		Q	
						N02	W27	0		0		28		Q	
364	29	28	112	127	22	S11	W57	0		0	0	29		Q	SOL: Eruptive MAG: Quiet PROTON: Quiet
						N15	W48	1		0		29		Q	
						N11	W38	0		0		29		Q	
						S10	W12	0		0		29		Q	
						N04	W10	0		0		29		Q	
						S05	W12	0		0		29		Q	
						S23	W56	0		0		29		Q	
365	30	29	110	125	37	S10	W73	0		0	0	30		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						N15	W63	5		0		30		E	
						N10	W51	0		0		30		Q	
						S11	W24	0		0		30		Q	
						N04	W25	0		0		30		Q	
						S05	W28	0		0		30		Q	
						S23	W70	0		0		30		Q	
366	31	30	084	126	9	S09	W88	0		0	0	31		Q	SOL: Eruptive MAG: Active PROTON: Quiet
						N15	W78	7		0		31		E	
						N11	W65	0		0		31		Q	
						S11	W39	0		0		31		Q	
						N04	W39	0		0		31		Q	
						S05	W44	0		0		31		Q	

¹ Region Forecast and Flare Geoadvice

Q =Quiet (<50% probability of C-class flares)
E =Eruptive (C-class flares expected, probability >=50%)
A =Active (M-class flares expected, probability >=50%)
M =Major (X-class flares expected, probability >=50%)
P =Proton (Proton flares expected, probability >=50%)
Warning condition (activity levels expected to increase, but no
numeric forecast given)
Nil (end of Alert period)
No forecast

Magnetic Geoadvice

Quiet
Active conditions expected (A>=20 or K=4)
Minor storm expected (A>=30 or K=5)
Major magstorm expected (A>=50 or K>=6)
Severe magstorm expected (A>=100 or K>=7)
Magstorm in progress (A>=30 or K>=4)
Warning condition (activity levels expected
to increase, but no numeric forecast given)
Nil (end of Alert period)
No forecast

Proton Geoadvice

Quiet
Proton event expected (10 pfu at >10 MeV)
Major proton event expected (100 pfu at >100 MeV)
Proton event in progress (>10 MeV)
Warning condition (activity levels expected to increase, but no
numeric forecast given)
Nil (end of Alert period)
No forecast

STRATWARM ALERTS

12/17/92 03:30:00

GEOALERT WWA352 STRATWARM ALERT/WED/STRATWARM EXISTS. STRATWARM ALERT/
WEDNESDAY/STRATWARM EXISTS. WARM CENTRE OVER NORTHEASTERN ASIA WEAK-
ENS,COLD CENTRE MOVES TOWARDS GREENLAND.

12/18/92 03:30:00

GEOALERT WWA353 STRATWARM ALERT/THU/STRATWARM EXISTS. MINOR WARMING OVER
NORTHEASTERN ASIA CONTINUES,ONLY LITTLE CHANGE.COLD CENTRE MOVES TO THE BAF-
FIN AREA.

12/19/92 03:30:00

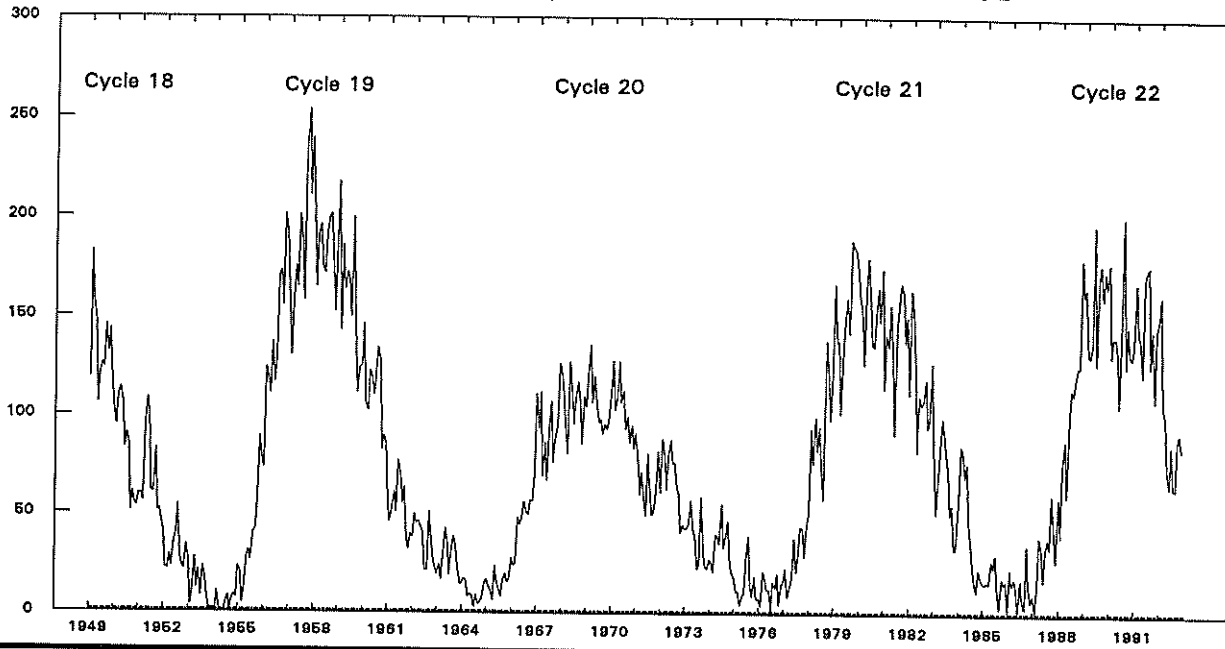
GEOALERT WWA354 STRATWARM ALERT/ FRIDAY /STRATWARM EXISTS. MINOR WARMING OVER
NORTHEASTERN ASIA CONTINUES,WARM AIR SPREADING NORTHEASTWARDS. THE COLDEST
AIR EXISTS OVER GREENLAND AND THE LABRADOR SEA AT 10 HPA.

12/20/92 03:30:00

GEOALERT WWA355 STRATWARM ALERT/SAT/STRATWARM EXISTS. MINOR WARMING OVER
NORTHEASTERN ASIA WEAKENING. THE COLDEST AIR MOVES BACK INTO THE EUROPEAN
ARCTIC AT 10 HPA.

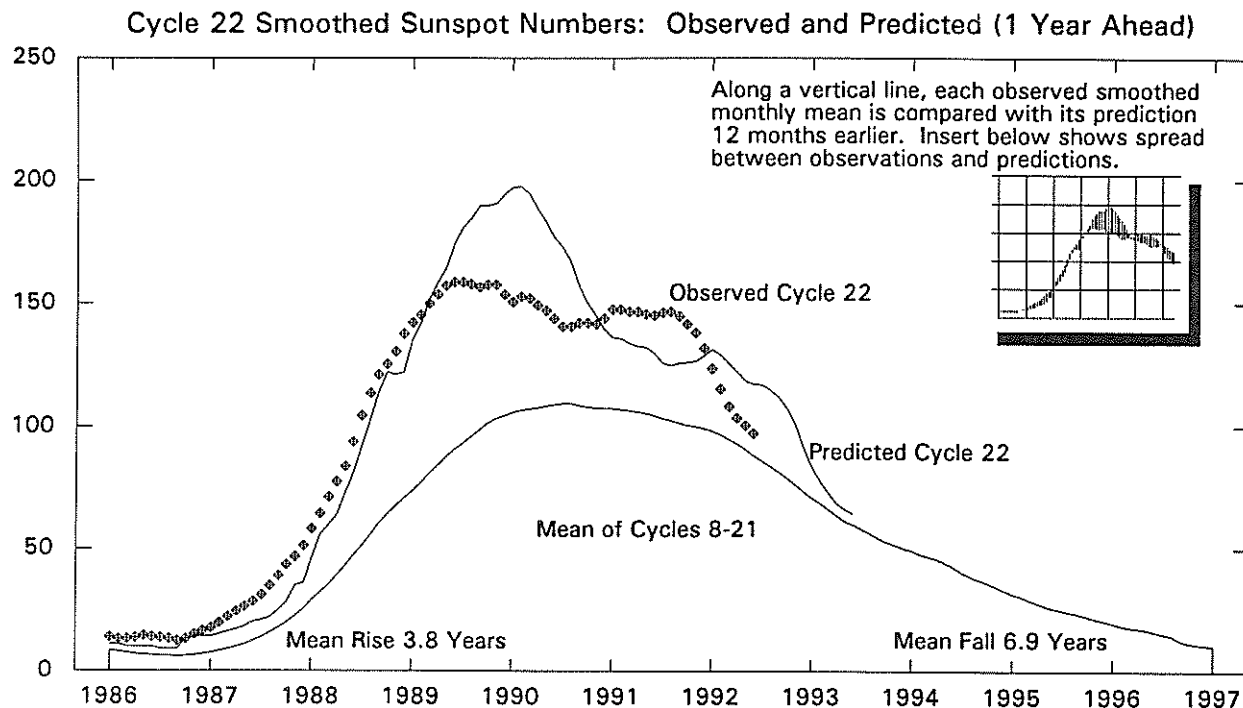
NOTE: 1 HPA = 1 HectoPascal = 1 millibar.

Monthly Mean Sunspot Numbers Jan 1949 - Dec 1992



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
1949	119.1	182.3	157.5	147.0	106.2	121.7	125.8	123.8	145.3	131.6	143.5	117.6	134.7
1950	101.6	94.8	109.7	113.4	106.2	83.6	91.0	85.2	51.3	61.4	54.8	54.1	83.9
1951	59.9	59.9	55.9	92.9	108.5	100.6	61.5	61.0	83.1	51.6	52.4	45.8	69.4
1952	40.7	22.7	22.0	29.1	23.4	36.4	39.3	54.9	28.2	23.8	22.1	34.3	31.5
1953	26.5	3.9	10.0	27.8	12.5	21.8	8.6	23.5	19.3	8.2	1.6	2.5	13.9
1954	0.2	0.5	10.9	1.8	0.8	0.2	4.8	8.4	1.5	7.0	9.2	7.6	4.4 m
1955	23.1	20.8	4.9	11.3	28.9	31.7	26.7	40.7	42.7	58.5	89.2	76.9	38.0
1956	73.6	124.0	118.4	110.7	136.6	116.6	129.1	169.6	173.2	155.3	201.3	192.1	141.7
1957	165.0	130.2	157.4	175.2	164.6	200.7	187.2	158.0	235.8	253.8	210.9	239.4	190.2 M
1958	202.5	164.9	190.7	196.0	175.3	171.5	191.4	200.2	201.2	181.5	152.3	187.6	184.8
1959	217.4	143.1	185.7	163.3	172.0	168.7	149.6	199.6	145.2	111.4	124.0	125.0	159.0
1960	146.3	106.0	102.2	122.0	119.6	110.2	121.7	134.1	127.2	82.8	89.6	85.6	112.3
1961	57.9	46.1	53.0	61.4	51.0	77.4	70.2	55.8	63.6	37.7	32.6	39.9	53.9
1962	38.7	50.3	45.6	46.4	43.7	42.0	21.8	21.8	51.3	39.5	26.9	23.2	37.6
1963	19.8	24.4	17.1	29.3	43.0	35.9	19.6	33.2	38.8	35.3	23.4	14.9	27.9
1964	15.3	17.7	16.5	8.6	9.5	9.1	3.1	9.3	4.7	6.1	7.4	15.1	10.2 m
1965	17.5	14.2	11.7	6.8	24.1	15.9	11.9	8.9	16.8	20.1	15.8	17.0	15.1
1966	28.2	24.4	25.3	48.7	45.3	47.7	56.7	51.2	50.2	57.2	57.2	70.4	47.0
1967	110.9	93.6	111.8	69.5	86.5	67.3	91.5	107.2	76.8	88.2	94.3	126.4	93.8
1968	121.8	111.9	92.2	81.2	127.2	110.3	96.1	109.3	117.2	107.7	86.0	109.8	105.9 M
1969	104.4	120.5	135.8	106.8	120.0	106.0	96.8	98.0	91.3	95.7	93.5	97.9	105.5
1970	111.5	127.8	102.9	109.5	127.5	106.8	112.5	93.0	99.5	86.6	95.2	83.5	104.5
1971	91.3	79.0	60.7	71.8	57.5	49.8	81.0	61.4	50.2	51.7	63.2	82.2	66.6
1972	61.5	88.4	80.1	63.2	80.5	88.0	76.5	76.8	64.0	61.3	41.6	45.3	68.9
1973	43.4	42.9	46.0	57.7	42.4	39.5	23.1	25.6	59.3	30.7	23.9	23.3	38.0
1974	27.6	26.0	21.3	40.3	39.5	36.0	55.8	33.6	40.2	47.1	25.0	20.5	34.5
1975	18.9	11.5	11.5	5.1	9.0	11.4	28.2	39.7	13.9	9.1	19.4	7.8	15.5
1976	8.1	4.3	21.9	18.8	12.4	12.2	1.9	16.4	13.5	20.6	5.2	15.3	12.6 m
1977	16.4	23.1	8.7	12.9	18.6	38.5	21.4	30.1	44.0	43.8	29.1	43.2	27.5
1978	51.9	93.6	76.5	99.7	82.7	95.1	70.4	58.1	138.2	125.1	97.9	122.7	92.5
1979	166.6	137.5	138.0	101.5	134.4	149.5	159.4	142.2	188.4	186.2	183.3	176.3	155.4 M
1980	159.6	155.0	126.2	164.1	179.9	157.3	136.3	135.4	155.0	164.7	147.9	174.4	154.6
1981	114.0	141.3	135.5	156.4	127.5	90.9	143.8	158.7	167.3	162.4	137.5	150.1	140.4
1982	111.2	163.6	153.8	122.0	82.2	110.4	106.1	107.6	118.8	94.7	98.1	127.0	115.9
1983	84.3	51.0	66.5	80.7	99.2	91.1	82.2	71.8	50.3	55.8	33.3	33.4	66.6
1984	57.0	85.4	83.5	69.7	76.4	46.1	37.4	25.5	15.7	12.0	22.8	18.7	45.9
1985	16.5	15.9	17.2	16.2	27.5	24.2	30.7	11.1	3.9	18.6	16.2	17.3	17.9
1986	2.5	23.2	15.1	18.5	13.7	1.1	18.1	7.4	3.8	35.4	15.2	6.8	13.4 m
1987	10.4	2.4	14.7	39.6	33.0	17.4	33.0	38.7	33.9	60.6	39.9	27.1	29.4
1988	59.0	40.0	76.2	88.0	60.1	101.8	113.8	111.6	120.1	125.1	125.1	179.2	100.2
1989	161.3	165.1	131.4	130.6	138.5	196.2	126.9	168.9	176.7	159.4	173.0	165.5	157.6 M
1990	177.3	130.5	140.3	140.3	132.2	105.4	149.4	200.3	125.2	145.5	131.4	129.7	142.6
1991	136.9	167.5	141.9	140.0	121.3	169.7	173.7	176.3	125.3	144.1	108.2	144.4	145.7
1992	150.0	161.1	106.7	99.8	73.8	65.2	85.7	64.5	63.9	88.3	92.0	83.3	94.5

Values are preliminary since Oct 1992. For the yearly means, each 'M' marks a sunspot cycle maximum and each 'm' a minimum.



Smoothed Sunspot Numbers (Observed and Predicted) for Parts of Solar Cycles 21 and 22

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
1986	14	13	13	14	14	14	14	13	12	13	15	16	14
1987	18	20	22	24	26	28	31	35	39	44	47	51	32
1988	58	65	71	78	84	94	104	114	121	125	130	138	98
1989	142	145	150	154	157	158	158	158	157	157	158	154	154
1990	151	153	152	149	147	144	141	140	142	142	142	144	146
1991	148	148	147	146	146	145	146	147	145	142	138	132	144
1992	124	115	108	103	100	97	94	92	90	86	83	79	98
()							(3)	(6)	(9)	(9)	(9)	(8)	(8)
1993	76	74	71	68	66	64	62	60	58	56	55	54	64
()	(8)	(8)	(9)	(10)	(10)	(10)	(10)	(11)	(12)	(14)	(15)	(17)	(11)
1994	53	52	51	50	48	46	43	41	40	39	37	35	45
()	(18)	(18)	(18)	(19)	(20)	(20)	(22)	(23)	(24)	(24)	(25)	(25)	(22)

Solar Cycle 21
 Solar Cycle 22
 Min, Max, and Predictions

September 1986 marks the minimum of Solar Cycle 21 and the onset of Cycle 22, which in turn, reached a maximum in July 1989.

Observed and Predicted Numbers. For the end of Cycle 21, and the rise and decline of Cycle 22, the table above lists observed smoothed sunspot numbers up to the one that includes the most recent monthly mean. We based these smoothed values on final monthly means through Sep 1992 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 Jul 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 June 1993 prediction. There exists a 90% chance that in June 1993 the actual smoothed number will fall somewhere between 54 and 74.

Points to Ponder. The McNish-Lincoln prediction method generates useful estimates of smoothed, monthly mean sunspot numbers for no more than 12 months ahead. Beyond 12 months, the predictions regress toward the mean of all 14 cycles of observations used in the computation. Moreover, the method remains very sensitive to the date defining the onset of the current 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 Sep 1986.

INTERNATIONAL RELATIVE SUNSPOT NUMBERS

Day	Jan 92	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct [†]	Nov [†]	Dec [†]
01	141	238	166	103	88	31	78	65	47	85	109	65
02	144	221	124	95	86	38	66	90	49	98	88	56
03	177	194	106	88	90	72	63	103	44	84	68	59
04	184	178	92	64	98	74	71	103	46	105	86	59
05	183	164	65	50	96	81	78	94	47	122	95	51
06	185	159	69	60	93	70	77	89	52	119	95	48
07	190	157	103	64	72	64	79	86	44	103	96	34
08	204	179	106	57	82	60	83	93	38	88	74	58
09	193	187	118	58	79	70	102	93	57	91	76	96
10	183	173	125	54	73	74	129	74	54	73	78	95
11	155	182	122	62	68	82	133	60	59	57	84	132
12	143	141	125	66	80	102	132	53	63	41	83	109
13	142	148	138	68	87	86	126	61	77	36	59	113
14	108	137	130	75	78	77	151	82	77	43	69	106
15	107	111	110	82	65	60	161	76	75	40	74	112
16	87	110	107	97	45	64	159	96	76	54	84	109
17	76	109	85	117	41	64	140	90	62	55	100	105
18	71	99	75	129	59	59	102	71	54	73	102	98
19	88	101	78	139	54	63	88	69	63	92	108	104
20	115	117	88	163	59	56	66	59	62	75	98	97
21	142	137	91	176	110	55	65	48	65	98	85	84
22	127	144	90	171	106	69	67	44	66	104	95	91
23	117	150	92	166	113	73	54	36	89	95	115	84
24	112	188	109	146	99	70	43	38	90	114	116	82
25	127	192	119	159	66	64	37	20	75	113	125	81
26	148	196	116	123	57	59	54	30	84	125	116	95
27	173	192	111	96	80	38	61	34	86	130	116	73
28	187	191	110	97	59	43	53	33	62	131	103	80
29	196	176	121	89	41	70	39	40	72	111	88	78
30	219		107	80	30	67	47	35	81	100	74	69
31	225		111		33		53	36		82		59
Mean	150.0	161.1	106.7	99.8	73.8	65.2	85.7	64.5	63.9	88.3	92.0	83.3

[†]=preliminary. The preliminary yearly mean sunspot number equals 94.3 for 1992.

Dominion Radio Observatory		PENTICTON 2800 MHz (10.7 cm) SOLAR FLUX										Adjusted to 1 AU	
Day	Jan 92	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
01	240.3	275.5	196.8	185.9	133.0	101.4	134.1	113.6	101.6	118.2	144.8	127.1	
02	251.6	280.1	178.3	161.2	138.0	105.0	141.2	128.2	106.3	119.5	138.8	126.0	
03	270.4	263.2	160.3	159.8	127.8	110.1	141.1	135.1	108.9	120.2	132.9	121.3	
04	265.6	244.4	157.1	154.0	137.0	111.5	141.3	134.7	106.4	126.1	140.4	115.9	
05	257.7	239.4	152.4	154.7	135.4	118.4	150.6	134.3	121.2	130.1	133.6	112.4	
06	245.7	232.1	153.1	143.0	133.0	123.2	155.4	141.9	141.3	137.3	130.5	115.9	
07	253.7	234.0	157.2	141.8	131.5	119.2	159.9	145.4	133.6	135.8	132.4	116.1	
08	253.1	218.9	179.4	151.6	145.3	118.7	156.6	147.5	130.8	125.4	129.7	124.8	
09	248.8	229.3	169.4	140.2	129.2	122.3	165.0	141.1	118.5	121.0	129.9	129.6	
10	225.1	234.5	167.0	141.2	126.9	129.3	175.7	136.3	118.4	112.1	133.7	137.5	
11	202.4	218.4	163.1	144.0	128.8	133.1	173.9	133.9	120.1	110.0	132.0	159.0	
12	182.4	204.9	161.7	144.7	127.8	130.6	177.8	131.7	118.7	106.5	124.7	163.1	
13	177.3	193.0	163.3	147.1	128.2	127.5	181.4	132.3	128.8	108.2	122.2	167.6	
14	172.8	198.7	162.9	155.2	129.3	127.2	181.3	132.0	123.1	104.9	123.4	161.8	
15	167.7	197.9	167.2	150.3	124.8	124.7	173.3	133.8	121.5	97.8	124.1	150.4	
16	156.1	195.2	159.7	158.9	118.5	122.9	162.8	140.0	127.9	99.9	133.7	145.8	
17	150.6	201.7	157.6	185.6	115.5	134.4	140.4	137.1	120.6	105.8	148.9	145.5	
18	147.0	201.6	159.0	204.8	120.2	119.8	130.2	132.7	118.5	111.4	158.2L	144.9	
19	155.0	191.2	166.1	207.7	134.5	119.1	122.3	138.0	113.4	123.4	157.1	142.2	
20	162.9	199.0	167.2	206.5	140.3	116.8	127.5	159.1	107.1	131.9	155.0	143.2	
21	168.7	212.3	166.4	197.1	145.5	121.3	111.8	127.8	110.4	139.2	-----K	140.8	
22	167.6	229.5	159.7	184.8	148.4	120.0	107.7	124.4	112.3	149.2	162.0	137.6	
23	167.6	244.0	165.3	174.7	145.6	125.5	101.9	113.2	112.6	140.3	171.7	139.3	
24	172.9	250.1	174.7	162.9	136.9	121.8	103.2	104.0	112.6	145.1	169.4	132.0	
25	195.9	248.3	185.1	155.7	126.1	127.4	101.5	100.1	116.5	159.4	162.4	132.0	
26	202.7	248.0	177.9	145.0	122.1	115.3	104.3	94.4	117.3	167.9	158.2	127.2	
27	214.0	239.5	180.0	139.1	117.7	113.1	103.4	95.8	121.6	168.9	152.6	121.2	
28	230.6	228.8	185.4	130.4	113.9	112.0	98.5	97.6	116.6	172.3	144.7	123.4	
29	258.3	213.9	192.4	132.5	108.1	114.4	101.1	97.1	117.7	161.6	136.0	121.3	
30	272.0		182.1	129.9	101.7	127.0	99.9	96.6	116.2	225.8*	135.9	121.9	
31	293.5		191.2		101.8		106.3	99.0		147.3		125.8	
Mean	210.6	226.5	169.6	159.7	128.2	120.4	136.5	125.1	118.0	130.0*	142.0	134.6	

* = corrected for burst in progress; K = wet snow on antenna--no value measured; L = value enhanced by burst

DAILY SOLAR INDICES

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Dec 92

December 1992

Day	Day of Year	Bartels Cycle Day	Sunspot Numbers		Obs Flux Penticton (2800)	Solar Flux Adjusted to 1 Astronomical Unit								
			Int	Amer		LEAR (15400)	LEAR (8800)	LEAR (4995)	Pentic (2800)	LEAR (2695)	LEAR (1415)	LEAR (610)	LEAR (410)	LEAR (245)
01	336	12	65	67	131.4	523	258	171	127.1	124	85	62	35	13
02	337	13	56	61	130.3	532	259	171	126.0	124	80	60	36	11
03	338	14	59	58	125.5	530	254	171	121.3	123	78	58	34	12
04	339	15	59	59	119.8	585	278	177	115.9	125	75	42	23	10
05	340	16	51	49	116.3	521	246	162	112.4	114	75	49	27	10
06	341	17	48	42	119.8	599	259	162	115.9	110	71	54	31	13
07	342	18	34	31	120.1	529	253	162	116.1	109	82	58	34	12
08	343	19	58	69	129.0	540	256	169	124.8	119	82	58	35	13
09	344	20	96	88	134.0	558	258	171	129.6	125	84	59	35	17
10	345	21	95	100	142.2	522	255	175	137.5	130	85	59	34	13
11	346	22	132	126	164.4	531	261	186	159.0	146	89	58	35	13
12	347	23	109	118	168.6	575	268	199	163.1	154	98	71	48	23
13	348	24	113	128	173.3	530	271	202	167.6	160	101	72	42	18
14	349	25	106	118	167.2	537	267	209	161.8	159	103	67	42	aa
15	350	26	112	120	155.5	549	263	203	150.4	155	101	74	45	aa
16	351	27	109	108	150.7	---	---	---	145.8	---	---	aa	aa	aa
17	352	1	105	104	150.3	517	266	193	145.5	145	98	66	40	19
18	353	2	98	100	149.8	536	268	192	144.9	142	98	64	39	17
19	354	3	104	108	147.0	536	268	192	142.2	141	92	65	39	19
20	355	4	97	106	147.9	543	265	190	143.2	140	78	66	38	16
21	356	5	84	92	145.4	541	264	194	140.8	143	95	67	38	16
22	357	6	91	88	142.1	535	266	186	137.6	139	90	61	36	19
23	358	7	84	80	143.8	535	252	178	139.3	134	71	64	36	15
24	359	8	82	82	136.3	539	260	176	132.0	132	101	64	36	17
25	360	9	81	81	136.2	496	259	177	132.0	133	91	69	38	19
26	361	10	95	90	131.3	539	240	169	127.2	128	89	64	36	15
27	362	11	73	82	125.0	519	253	167	121.2	125	86	63	37	18
28	363	12	80	80	127.2	518	247	161	123.4	117	---	57	34	18
29	364	13	78	78	125.1	523	242	164	121.3	121	76	57	34	16
30	365	14	69	67	125.7	523	250	164	121.9	115	67	55	32	13
31	366	15	59	54	129.7	557	254	169	125.8	118	78	55	34	17
Mean			83.3	85.0	139.1	537	259	179	134.6	132	86	61	36	15

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 Learmonth (LEAR) observations.

* = corrected for burst in progress; K = wet snow on antenna--no value measured; L = value enhanced by burst

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Dec 92

H α SOLAR FLARES

DECEMBER 1992

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
LEAR	01	0203	0204	0225	N19	W29	7352	11	29.0	22	SF		3	E		16		M
LEAR		0226	0230	0240	N19	W29	7352	11	29.0	14	SF B 8.6	3	E			39		M
PALE		0232E	0232U	0239	N18	W40	7352	11	28.1	70	SF		2	E		38		M
LEAR		0525	0528	0550	N22	W33	7352	11	28.8	25	SF C 2.1	3	E			63		M
SVTO		0833	0851	0916	N19	W32	7352	11	29.0	43	SF		3	E		27		E
LEAR		0834	0834	0842	N19	W32	7352	11	29.0	8	SF B 6.1	3	E			34		M
SVTO		0846	0847	0852	S26	W17		11	30.0	6	SF C 1.4	3	E			13		M
LEAR		0847	0905	0919	N19	W32	7352	11	29.0	32	SF		3	E		41		M
SVTO		0848	0849	0915	N07	W35	7348	11	28.8	27	SF		3	E		17		M
SVTO		1021	1021U	1036	N22	W37	7352	11	28.7	15	SF C 5.1	3	E			75		M
SVTO		1323	1326	1408	N12	W33	7348	11	29.2	45	SF		3	E		15		M
RAMY		1401	1402	1409	N12	W34	7348	11	29.1	8	SF C 1.2	4	E			14		M
GOES		1438	1441	1445						7	B 9.2							
GOES		1621	1631	1642						21	C 1.3							
HOLL		1745	1754	1845	N21	W37	7352	11	29.0	60	1N M 1.5	3	E			172		E
PALE		1750	1757		N19	W37	7352	11	29.0	370	1F		3	E		139		M
RAMY		1755	1758	1814D	N19	W38	7352	11	28.9	190	SF		3	E		73		M
HOLL		2018	2024	2047	N22	W40	7352	11	28.9	29	SN C 5.1	3	E			88		M
GOES		2126	2130	2136						10	C 1.0							
GOES		2140	2146	2152						12	C 1.5							
LEAR		2241	2258	2308	N19	W42	7352	11	28.8	27	SF		3	E		18		M
PALE		2247	2247	2252	N18	W42	7352	11	28.8	5	SF		3	E		52		M
LEAR	02	0058	0059	0101	N19	W43	7352	11	28.8	3	SF		3	E		15		M
LEAR		0104	0119	0142D	N23	W40	7352	11	29.1	380	SF		3	E		38		M
LEAR		0155E	0308	0328	N23	W41	7352	11	29.0	930	1F C 1.6	3	E			110		M
GOES		0205	0208	0211						6	B 8.5							
LEAR		0351	0356	0401	N19	W43	7352	11	29.0	10	SF B 7.6	3	E			15		M
LEAR		0408	0423	0439	N23	W42	7352	11	29.0	31	SF B 8.3	3	E			41		M
LEAR		0442	0533	0558	N19	W44	7352	11	28.9	76	SF		3	E		56		FM
GOES		0613	0616	0619						6	B 8.3							
LEAR		0628	0632	0646	N18	W46	7352	11	28.9	18	SF C 1.8	3	E			36		M
LEAR		0637	0656	0729	N11	W43	7348	11	29.1	52	SF C 1.4	3	E			64		M
SVTO		0658E	0658U	0719	N13	W43	7348	11	29.1	210	SF		1	E		21		M
LEAR		0725	0727	0733	N19	W46	7352	11	28.9	8	SN C 2.0	3	E			96		M
SVTO		0730E	0730U	0738	N20	W47	7352	11	28.8	80	SN		2	E		61		M
SVTO		0936	0951	1006	N20	W46	7352	11	29.0	30	SF C 4.3	3	E			26		M
SVTO		1020	1022	1105	S25	W33	7348	11	30.0	45	SF		3	E		34		M
SVTO		1149	1154	1201	N20	W47	7352	11	29.0	12	SF C 1.2	3	E			14		M
SVTO		1220	1222	1226	N20	W53	7352	11	28.6	6	SF C 1.2	3	E			32		M
SVTO		1250	1256	1300	N19	W54	7352	11	28.5	10	SF		3	E		15		M
HOLL		1551	1552	1557	N22	W53	7352	11	28.7	6	SF B 7.1	3	E			37		M
GOES		1818	1823	1829						11	B 6.0							
PALE		1940	1944	1945	N19	W52	7352	11	28.9	5	SF		3	E		11		MM
GOES		2231	2235	2241						10	C 1.0							
LEAR		2357	2411	2444	N23	W53	7352	11	29.0	47	SF		3	E		91		MM
GOES	03	0335	0338	0342						7	B 8.9							
LEAR		0418	0422	0445	N23	W55	7352	11	29.0	27	SF		3	E		21		MM
LEAR		0448	0449	0455	N21	W61	7352	11	28.6	7	SF		3	E		25		MM
LEAR		0608	0618	0653	N23	W56	7352	11	29.0	45	SF		3	E		30		MM
LEAR		0743	0746	0759	N18	W57	7352	11	29.1	16	SF C 1.0	3	E			40		FM
GOES		1020	1025	1031						11	C 1.0							
SVTO		1049	1049	1054	N20	W60	7520	11	29.0	5	SF		3	E		19		FM
SVTO		1106	1106	1119	N18	W60	7352	11	29.0	13	SF C 1.3	3	E			14		FM
GOES		1129	1132	1135						6	C 1.0							
PALE		2031	2031	2038D	N20	W70	7352	11	28.6	70	SF C 3.7	3	E			11		
PALE		2256E	2256U	2314D	N18	W65	7352	11	29.1	180	SF		2	E		10		
LEAR		2257	2259	2310	N21	W65	7352	11	29.1	13	SF C 1.8	3	E			32		F
GOES	04	0150	0158	0220						30	C 2.6							
LEAR		0241	0250	0307	N20	W76	7352	11	28.4	26	SF C 1.7	3	E			86		F
LEAR		0411	0413	0425	N21	W76	7352	11	28.4	14	SF C 5.8	3	E			82		F
GOES		0659	0703	0705						6	B 9.1							
LEAR		0708	0719	0742	N20	W75	7352	11	28.7	34	SF		3	E		32		F
GOES		0843	0848	0854						11	C 2.1							
LEAR		0844	0847	0918	N20	W76	7352	11	28.6	34	SF		3	E		76		F
SVTO		0846	0846	0851	N20	W76	7352	11	28.6	5	SF		3	E		33		

H α SOLAR FLARES

DECEMBER 1992

Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	Obs See	Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
GOES	04	1047	1053	1100						13	C 3.6							
SVTO		1118	1139U	1146	N19	W71	7352	11	29.1	28	SF M 1.4	3	E			37		
RAMY		1241	1241	1245	N21	W80	7352	11	28.5	4	SF C 2.8	3	E			28		H
GOES		1331	1356	1407						36	C 5.0							
RAMY		1402	1429U	1433	N20	W74	7352	11	29.0	31	SF C 1.6	3	E			22		
GOES		1418	1421	1423						5	C 1.8							
GOES		1449	1452	1457						8	C 1.3							
RAMY		1513	1516	1525	N20	W73	7352	11	29.1	12	SF C 3.6	3	E			19		
GOES		1705	1709	1725						20	B 9.6							
RAMY		1733	1734	1735D	N19	W67	7352	11	29.7	20	SF M 2.1	3	E			34		H
PALE		1752E	1758U	1923D	N18	W77	7352	11	29.0	91D	SF		2	E		52		
LEAR	05	0204	0205	0209	N20	W80	7352	11	29.1	5	SF B 9.6	3	E			28		
GOES		0252	0255	0257						5	B 8.0							
GOES		0559	0603	0616						17	B 7.4							
GOES		0727	0734	0741						14	B 8.6							
GOES		0928	0934	0943						15	B 6.6							
GOES		1420	1430	1452						32	C 1.0							
GOES		1556	1603	1611						15	C 2.1							
PALE		1852E	1855U	1938D	S08	E35	7357	12	8.4	46D	SF		2	E		23		
GOES	06	0024	0032	0042						18	C 2.1							
GOES		1020	1038	1049						29	B 8.7							
GOES		1658	1920	2010						192	C 2.2							
LEAR	07	0301	0310	0345	S16	W73	7361	12	1.6	44	SF		3	E		29		
LEAR		0407	0409	0417	S16	W74	7361	12	1.5	10	SF C 2.1	3	E			42		
LEAR		0424	0425	0430	S16	W74	7361	12	1.6	6	SF		3	E		53		
SVTO		0818	0821	0841	S16	W77	7361	12	1.5	23	SF		3	E		22		F
LEAR		0857	0901	0908	S16	W76	7361	12	1.6	11	SF		2	E		36		
SVTO		0903	0927	0954	S16	W77	7361	12	1.5	51	SF B 5.0	3	E			20		
GOES		1337	1434	1450						73	C 6.0							
GOES		1551	1555	1557						6	C 4.5							
PALE		2213E	2242	2252	S14	E64	7360	12	12.8	39D	SF C 4.3	3	E			65		H
GOES	08	0159	0202	0207						8	C 1.5							
GOES		0213	0229	0240						27	C 2.2							
GOES		0651	0656	0700						9	C 5.4							
GOES		1045	1107	1115						30	C 3.1							
RAMY		1348	1348	1353	S07	E78		12	14.4	5	SF C 1.7	4	E			37		
GOES		1456	1510	1521						25	C 2.5							
RAMY		1546	1546	1549	S04	E39	7362	12	11.6	3	SF		3	E		20		
RAMY		1800	1809	1831	S07	E74	7363	12	14.3	31	SF C 5.1	3	E			22		F
PALE	09	0218	0231	0258	S05	E72	7363	12	14.5	40	SF		3	E		26		
GOES		1040	1045	1052						12	C 2.7							
RAMY		1124	1126	1147	S06	E60	7363	12	14.0	23	SN C 6.3	2	E			52		U
RAMY		1239	1240	1257	S04	E26	7362	12	11.5	18	SF C 1.5	4	E			18		F
HOLL		1713	1725	1809	S09	E65	7363	12	14.6	56	SF		3	E		46		
GOES		1923	1927	1931						8	C 1.3							
GOES		1932	1935	1939						7	C 1.2							
PALE		2040E	2045U	2055	S10	E90		12	16.6	15D	SF		3	E		70		
HOLL		2040	2045	2055	S14	E84		12	16.2	15	SF B 8.9	3	E			72		
HOLL		2146	2155	2214	S05	E20	7362	12	11.4	28	SF		3	E		20		F
GOES		2236	2240	2243						7	B 5.9							
GOES		2336	2346	2357						21	C 1.2							
GOES		2358	2403	2408						10	C 1.7							
LEAR	10	0007E	0007	0027	S04	E18	7362	12	11.3	20D	SF		3	E		20		F
PALE		0016	0019	0023	S11	E80		12	16.0	7	SF		3	E		21		
LEAR		0018	0020	0025	S11	E90		12	16.8	7	SF		3	E		32		
PALE		0123	0124U	0130D	S10	E90		12	16.8	7D	SF		3	E		20		
GOES		0336	0339	0342						6	B 7.4							
LEAR		0652	0653	0659	S05	E14	7362	12	11.3	7	SF		3	E		24		F
GOES		1043	1046	1048						5	C 1.2							
RAMY		1202	1203	1215	S05	E11	7362	12	11.3	13	SF C 2.4	3	E			21		F
RAMY		1346	1346	1358	S04	E11	7362	12	11.4	12	SF C 3.4	3	E			13		
GOES		1456	1500	1503						7	B 9.5							

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	Region	CMP Mo	Day	Dur (Min)	Imp Opt	Xray	See	Obs Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
GOES	10	1539	1543	1546						7		B 8.1						
PALE		1800E	1810U	1818D	S04	E07	7362	12	11.3	180	SF	C 1.1	2	E		33		F
GOES		1937	1941	1955						18		B 7.6						
HOLL		2127E	2129U	2143	S18	E19	7360	12	12.3	160	SF		3	E		32		F
PALE		2150E	2151U	2210D	S06	E06	7362	12	11.3	200	SF	C 1.4	3	E		12		F
PALE		2255	2256	2301	S05	E07	7362	12	11.5	6	SF	C 3.6	3	E		19		
LEAR		2255	2257	2301	S04	E06	7362	12	11.4	6	SF	C 3.6	3	E		27		
LEAR		2332	2342	2355	S05	E03	7362	12	11.2	23	SF		3	E		48		F
GOES	11	0312	0318	0324						12		B 9.2						
GOES		0410	0414	0420						10		B 7.4						
GOES		0456	0500	0502						6		C 1.0						
GOES		0631	0652	0711						40		C 1.1						
GOES		0746	0755	0817						31		C 1.0						
SVTO		0843	0905	0922	S05	W01	7362	12	11.3	39	SF	C 1.3	3	E		28		F
GOES		1042	1102	1136						54		C 1.2						
GOES		1148	1153	1202						14		C 1.1						
SVTO		1216	1218	1227	S17	E09	7360	12	12.2	11	SF	C 1.1	3	E		12		
GOES		1447	1452	1455						8		C 1.4						
RAMY		1552	1552	1601	S16	E11	7360	12	12.5	9	SF		3	E		16		F
RAMY		1609	1615	1628	S15	E11	7360	12	12.5	19	SF	C 1.3	3	E		14		F
HOLL		1802	1807	1827	S05	W05	7362	12	11.4	25	SF	C 1.3	3	E		31		
RAMY		1806	1807	1813	S06	W05	7362	12	11.4	7	SF	C 1.3	3	E		14		F
HOLL		2149	2159	2217	S04	W09	7362	12	11.2	28	SF		3	E		17		F
HOLL		2159	2202	2226	S16	E03	7360	12	12.1	27	SF	C 1.2	3	E		14		F
LEAR		2319	2319	2331	S18	E03	7360	12	12.2	12	SF		3	E		15		
LEAR	12	0101	0113	0124	S16	E05	7360	12	12.4	23	SF		3	E		28		F
PALE		0112	0113	0119	S16	E07	7360	12	12.6	7	SF		3	E		14		
PALE		0112	0116	0120	S11	E59	7366	12	16.5	8	SF		3	E		19		
GOES		0552	0558	0606						14		C 1.2						
GOES		1104	1110	1114						10		C 1.1						
HOLL		1542	1550	1619	S14	E49	7366	12	16.3	37	SF		3	E		67		F
RAMY		1549	1552	1559	S12	E50	7366	12	16.4	10	SF	C 2.6	4	E		14		F
HOLL		1749	1803	1821	S14	E49	7366	12	16.4	32	SF		3	E		63		F
RAMY		1855	1855	1904	S16	W04	7360	12	12.5	9	SF	C 1.0	4	E		12		F
GOES		2205	2208	2213						8		B 9.9						
GOES		2338	2342	2345						7		C 1.0						
LEAR	13	0025	0033	0103	S12	E44	7366	12	16.3	38	SF	C 4.1	3	E		55		
GOES		0219	0222	0227						8		B 7.5						
LEAR		0337	0417	0515	S06	W26	7362	12	11.2	98	SF	B 9.2	3	E		49		
LEAR		0502	0505	0518	S14	E42	7366	12	16.4	16	SF	C 2.4	3	E		46		
LEAR		0555	0829	0920	S07	W29	7362	12	11.1	205	1F		3	E		120		F
GOES		0704	0708	0710						6		C 3.1						
GOES		0808	0853	0938						90		C 5.6						
LEAR		0922	0927	0942	S04	W28	7362	12	11.3	20	SF		3	E		25		
LEAR		1016	1019	1041D	S14	E39	7366	12	16.4	250	SF	C 2.5	3	E		60		F
GOES		1034	1044	1050						16		C 2.7						
SVTO		1204	1211U	1248D	S12	E40	7366	12	16.5	440	SF	C 2.2	2	E		56		F
SVTO		1311	1316U	1356	S11	E38	7366	12	16.4	45	SF	C 2.0	2	E		57		F
GOES		1647	1656	1659						12		C 1.6						
GOES		1933	2000	2027						54		C 1.1						
GOES		2118	2121	2123						5		C 1.6						
PALE		2137	2144	2215	S04	W35	7362	12	11.3	38	SF		3	E		37		
PALE	14	0147	0149	0152	S11	E33	7366	12	16.5	5	SF		3	E		35		
PALE		0149	0150	0152	S08	W39	7362	12	11.1	3	SF		3	E		14		
GOES		0307	0328	0332						25		C 1.2						
GOES		0412	0429	0434						22		C 1.1						
LEAR		0419	0427	0445	S11	E30	7366	12	16.4	26	SF		3	E		32		F
GOES		0513	0523	0539						26		C 1.3						
GOES		1042	1124	1159						77		C 1.7						
SVTO		1059	1124	1220	S27	W18	7360	12	13.0	81	SF		3	E		57		
RAMY		1117E	1121	1147	S24	W18		12	13.1	300	SF		2	E		58		F
RAMY		1747	1750	1826	S33	E39	7368	12	17.8	39	SF	C 3.5	3	E		27		F
PALE		1755E	1758U	1830D	N03	E38	7368	12	17.6	350	SF		3	E		55		U
PALE		1832	1833	1852	S05	W46	7362	12	11.3	20	SF		3	E		19		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	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
PALE	14	1853	1854	1857	S04	W46	7362	12	11.3	4	SF		3	E		20		
PALE		1911	1932	1937	S32	E37	7368	12	17.7	26	SF		3	E		21		F
PALE		1940	1941	2001D	S33	E41	7368	12	18.1	21D	SF		3	E		23		F
HOLL		2053	2055	2149	S34	E35	7368	12	17.6	56	SN	C 2.8	3	E		39		UF
PALE		2100E	2116U	2200D	S33	E37	7368	12	17.8	60D	1B		3	E		101		F
PALE	15	0034	0034	0038	S33	E38	7368	12	18.0	4	SF		3	E		10		F
LEAR		0111	0112	0151	S20	W37	7360	12	12.2	40	1N	C 6.9	3	E		110		F
LEAR		0419	0423	0429	S16	W54	7362	12	11.1	10	SF	C 1.6	3	E		70		
LEAR		0454	0505	0508	S33	E33	7368	12	17.8	14	SF	C 1.4	3	E		51		
LEAR		0734	0742	0801	N10	W14	7364	12	14.3	27	SF		3	E		50		F
LEAR		0859	0904	0955	S34	E30	7368	12	17.8	56	1F	C 4.5	3	E		121		F
GOES		1056	1101	1107						11		B 9.6						
SVTO		1158E	1209U	1222	S32	E30	7368	12	17.9	24D	SF	C 2.9	3	E		42		F
RAMY		1657	1658	1709	S20	W46	7360	12	12.2	12	SF	C 1.9	3	E		14		F
RAMY		2100E	2100U	2109D	S17	W47	7360	12	12.3	9D	SF		2	E		13		
HOLL		2108	2115	2121D	S07	W62	7362	12	11.2	13D	SF		3	E		57		F
PALE	16	0318E	0318U	0326	S20	W55	7360	12	11.9	8D	SF	C 4.6	2	E		87		
LEAR		0558E	0602	0625	S19	W57	7360	12	11.9	27D	1F	C 4.7	3	E		116		F
LEAR		0720	0746	0838	S23	E42		12	19.5	78	1F		2	E		132		F
SVTO		0734	0746	0839	S22	E40		12	19.4	65	1F	C 2.2	3	E		199		F
SVTO		0859	0909	0954	S20	W56	7360	12	12.1	55	SF	C 2.8	3	E		16		F
SVTO		0859	0912	1004	S11	E00	7366	12	16.4	65	1F		3	E		138		F
LEAR		0900	0914	1004	S13	E00	7366	12	16.4	64	1F		2	E		124		F
LEAR		0933	0933	0940	S18	W59	7360	12	11.9	7	SF		2	E		15		
HOLL		1837	1844	1851	S10	W32	7363	12	14.4	14	SF		3	E		20		
HOLL		2125	2125	2130	S16	W65	7360	12	12.0	5	SF		3	E		22		
GOES	17	0121	0155	0211						50		C 1.2						
GOES		0355	0401	0403						8		C 1.1						
GOES		1124	1132	1140						16		C 7.0						
GOES	18	0325	0330	0339						14		C 1.1						
GOES		0401	0445	0500						59		C 1.5						
HOLL		1818	1824	1832	S09	W49	7371	12	15.1	14	SF		3	E		12		
HOLL		1844	1848	1856	S07	W59	7363	12	14.4	12	SF		3	E		14		
SVTO	19	1217	1217U	1223	N13	W37		12	16.7	6	SF		3	E		12		
GOES		2329	2336	2343						14		C 1.0						
LEAR	20	0448	0456	0520	S10	E59	7374	12	24.6	32	SF	C 1.3	3	E		42		F
LEAR		0652E	0652	0655	S09	E57	7374	12	24.6	3D	SF		3	E		15		
GOES		1447	1630	1707						140		C 3.3						
RAMY		1727	1729	1742	S10	E53	7374	12	24.7	15	SF	C 2.8	3	E		13		F
GOES	21	0334	0339	0344						10		C 1.0						
GOES		0549	0553	0555						6		B 9.3						
SVTO		0829E	0833U	0849	S08	W79	7371	12	15.4	20D	SF		2	E		35		H
LEAR		0953	0956	1002	S10	E44	7374	12	24.7	9	SF		3	E		27		
SVTO		1117	1123	1151	S09	E45	7374	12	24.8	34	SF	B 9.3	3	E		15		F
SVTO		1157	1202	1206	S33	W50	7368	12	17.5	9	SF		3	E		16		F
SVTO		1204	1204	1210	N09	E57	7378	12	25.8	6	SF		3	E		11		F
SVTO		1204	1205	1211	N13	W63	7375	12	16.7	7	SF		3	E		17		F
SVTO		1212	1213	1235	S11	E44	7374	12	24.8	23	SF	C 1.3	3	E		19		
LEAR	22	0537	0542	0601	N13	W70	7375	12	16.9	24	SF		3	E		43		
SVTO		1052	1052	1058	N12	E46	7378	12	25.9	6	SF		3	E		13		
HOLL		1446E	1448U	1459	S08	E27	7374	12	24.6	13D	SF		2	E		36		F
RAMY		1448	1450	1503D	S06	E26	7374	12	24.6	15D	SF	C 1.7	3	E		39		F
GOES		1619	1622	1625						6		B 6.5						
HOLL		1658	1701	1722	S14	E12	7372	12	23.6	24	SF	B 7.3	2	E		49		F
LEAR	23	0437	0441	0453	S10	E15	7374	12	24.3	16	SF		3	E		44		F
SVTO		1051	1053	1117	S05	E15	7374	12	24.6	26	SF	B 8.1	3	E		23		F
RAMY		1442	1442	1453	S06	E12	7374	12	24.5	11	SF	C 1.0	3	E		21		
HOLL		1923E	1923U	1957	S08	E10	7374	12	24.5	34D	SF		3	E		29		F
RAMY		1932	1932	2004	S06	E10	7374	12	24.6	32	SF	C 1.5	3	E		18		F

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Sta	Day	Start (UT)	Max (UT)	End (UT)	Lat	CMD	NOAA/ USAF	CMP Mo Day	Dur (Min)	Imp Opt Xray	Obs See	Type	Area Measurement			Remarks	
							Region						Time (UT)	Apparent (10-6 Disk)	Corr (Sq Deg)		
HOLL	23	2028	2032	2047	S13	E11	7374	12 24.7	19	SF		3	E		33		F
GOES		2205	2219	2226					21	B 9.7							
LEAR		2324	2326	2337	S12	E10	7374	12 24.7	13	SF		3	E		34		F
LEAR	24	0142	0143	0146	S08	E06	7374	12 24.5	4	SF		3	E		32		F
LEAR		0148	0151	0211	S07	W43	7370	12 20.8	23	SF		3	E		53		F
LEAR		0314	0320	0347	S06	E07	7374	12 24.6	33	SF		3	E		32		F
LEAR		0408	0408	0412	S06	W41	7370	12 21.1	4	SF		3	E		11		
LEAR		0600	0606	0624	S06	E06	7374	12 24.7	24	SF B 4.9		3	E		30		
LEAR		0740	0746	0752	S09	W45	7370	12 20.9	12	SF		3	E		30		
GOES		1248	1300	1315					27	B 6.9							
GOES		1501	1507	1515					14	B 5.3							
PALE		1854	1902	1910D	N05	E47		12 28.3	16D	SF B 4.9		3	E		35		H
LEAR	25	0138	0140	0217	S06	W06	7374	12 24.6	39	1B C 2.5		3	E		103		UF
LEAR		0435	0435	0441	S08	W08	7374	12 24.6	6	SF B 7.8		3	E		21		
GOES		0832	0836	0842					10	B 7.7							
GOES	26	1448	1452	1459					11	B 4.0							
HOLL		1618E	1618U	1710	S16	E38	7382	12 29.6	52D	SF C 1.1		2	E		46		F
HOLL		2158	2158	2216	N18	W19	7376	12 25.5	18	SF B 5.2		3	E		36		F
GOES	27	0248	0252	0255					7	B 4.8							
GOES		0501	0508	0515					14	B 4.7							
LEAR		0740	0747	0753	N03	E55		12 31.4	13	SF B 4.4		3	E		33		F
SVTO		0749E	0751U	0755D	N05	E54		12 31.4	6D	SF		2	E		24		F
GOES		1021	1026	1036					15	B 3.8							
SVTO		1345E	1358U	1404	S10	E09	7379	12 28.2	19D	SF		2	E		30		
LEAR	28	0638	0657	0740	N14	W40	7376	12 25.2	62	1B C 2.5		3	E		174		FE
GOES		1017	1021	1039					22	B 4.5							
LEAR	29	0126	0127	0154	N15	W50	7376	12 25.3	28	SF B 8.0		3	E		37		F
GOES		0238	0247	0253					15	B 4.0							
GOES		0629	0636	0640					11	B 8.4							
GOES		0725	0734	0739					14	B 3.8							
GOES		0813	0816	0821					8	B 4.0							
LEAR		0830	0836	0844	N14	W54	7376	12 25.3	14	SF		3	E		26		F
GOES		0935	0940	0943					8	C 1.9							
GOES		1035	1041	1045					10	B 8.7							
RAMY		1325	1403	1513	N14	W57	7376	12 25.2	108	SF B 4.1		3	E		22		
GOES		1500	1505	1509					9	B 4.5							
RAMY		1514	1531	1547	N14	W56	7376	12 25.4	33	SF		3	E		16		
HOLL		1538E	1622U	1628D	N15	W58	7376	12 25.3	50D	SF		2	E		75		
RAMY		1631	1634	1653	N13	W59	7376	12 25.2	22	SF		3	E		14		
GOES		1716	1722	1729					13	C 2.6							
GOES		2231	2251	2308					37	B 8.7							
PALE	30	0034E	0039U	0041D	N12	W63	7376	12 25.3	7D	SF		2	E		34		
LEAR		0035	0039	0041	N14	W65	7376	12 25.1	6	SF B 6.7		3	E		13		F
LEAR		0253	0304	0324	N14	W63	7376	12 25.3	31	SF C 1.6		3	E		23		F
LEAR		0337	0416	0433	N15	W64	7376	12 25.3	56	SF		3	E		32		
GOES		0611	0615	0618					7	C 1.1							
LEAR		0627	0632	0634	N15	W65	7376	12 25.3	7	SF C 1.4		3	E		31		
LEAR		0819	0823	0830	N14	W66	7376	12 25.3	11	SF C 2.8		3	E		32		
SVTO		0849E	0849U	0907D	N13	W65	7376	12 25.5	18D	SF		2	E		31		
GOES		0913	0918	0923					10	C 1.9							
LEAR		0938	0939	0949	N15	W69	7376	12 25.2	11	SF C 5.2		3	E		37		
SVTO		0938	0946	0947D	N15	W68	7376	12 25.2	9D	SF		3	E		31		F
GOES		1311	1315	1319					8	B 7.4							
GOES		1607	1611	1614					7	C 1.0							
GOES		1640	1658	1725					45	C 1.1							
GOES		2105	2129	2149					44	C 2.7							
GOES		2203	2213	2223					20	C 4.2							
GOES		2226	2238	2246					20	C 4.8							
GOES		2333	2340	2348					15	C 3.3							
LEAR	31	0037	0052	0100	S11	W40	7379	12 28.0	23	SF		3	E		31		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	See	Obs Type	Time (UT)	Area Measurement		Remarks
																Apparent (10-6 Disk)	Corr (Sq Deg)	
LEAR	31	0141	0141	0148	N02	W68	7384	12	26.0	7	SF		3	E		21		
LEAR		0214	0214	0229	N17	W80	7376	12	25.0	15	SN M	2.6	3	E		13		F
GOES		0322	0327	0332						10	C	1.9						
GOES		0420	0423	0426						6	B	9.0						
GOES		0807	0813	0820						13	C	3.5						
GOES		1136	1141	1147						11	C	1.1						
GOES		1300	1315	1319						19	C	1.3						
GOES		1422	1427	1430						8	C	2.1						
GOES		1438	1445	1449						11	C	1.2						
GOES		1501	1507	1510						9	B	8.0						
GOES		1625	1643	1655						30	C	1.9						
RAMY		1926	1929	1956	S10	W49	7379	12	28.1	30	SF C	6.3	3	E		34		UF

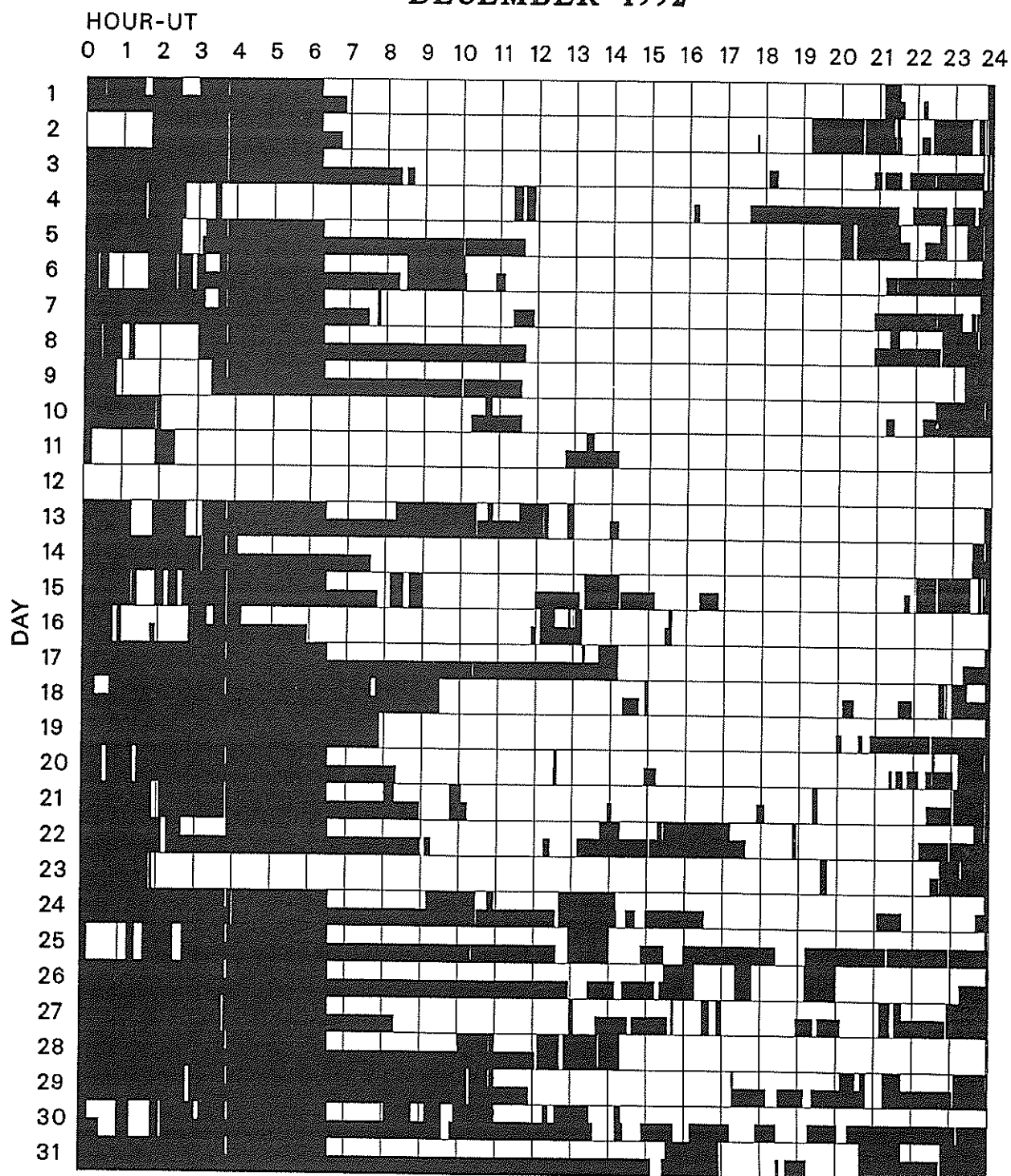
"Remarks"

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

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

INTERVALS OF NO FLARE PATROL OBSERVATION FOR PRECEDING SOLAR FLARE TABLE

DECEMBER 1992



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

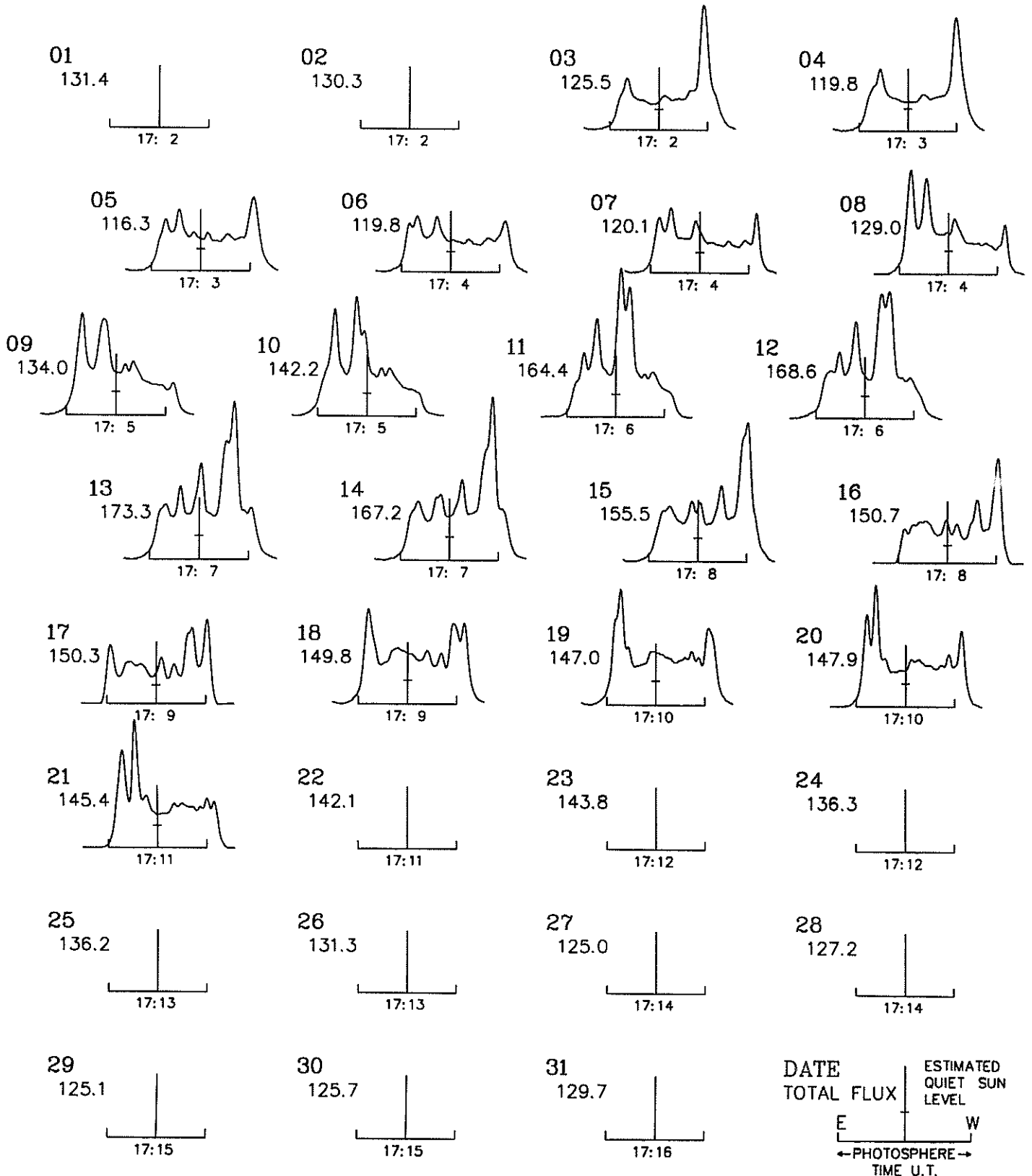
Ramey

San Vito

EAST - WEST SOLAR SCANS
DECEMBER 1992

ALGONQUIN RADIO OBSERVATORY
CANADA

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



38
Dec 92

SOLAR RADIO EMISSION

Selected Fixed Frequency Events

DECEMBER 1992

Day	Freq Sta	Type	Start (UT)	Time of Maximum (UT)	Duration (Min)	Flux Density Peak (10 -22 W/m 2 Hz)	Mean	Int	Remarks
04	8800 PALE	8 S	1732.0	1732.0	1.0	140.0			QL=4 ST=2 TYP=3
	8800 SGMR	8 S	1732.0	1732.0	1.0	160.0			QL=4 ST=2 TYP=3
07	2695 PALE	4 S/F	2211.0	2214.0	7.0	110.0			QL=4 ST=2 TYP=3
	8800 PALE	4 S/F	2211.0	2214.0	7.0	35.0			QL=4 ST=2 TYP=3
	2695 LEAR	4 S/F	2213.0	2214.0	4.0	100.0			QL=4 ST=2 TYP=5
	8800 LEAR	8 S	2214.0	2214.0	U	37.0			QL=4 ST=2 TYP=3
09	2695 SVTO	8 S	1118.0	1118.0	U	22.0			QL=2 ST=2 TYP=3
15	2695 LEAR	4 S/F	0111.0	0111.0	3.0	110.0			QL=4 ST=2 TYP=3
	8800 LEAR	8 S	0111.0	0111.0	1.0	45.0			QL=4 ST=2 TYP=3
	8800 PALE	8 S	0111.0	0111.0	1.0	44.0			QL=4 ST=2 TYP=3
	2695 PALE	8 S	0111.0	0111.0	2.0	120.0			QL=4 ST=2 TYP=3
30	8800 LEAR	8 S	0937.0	0938.0	2.0	110.0			QL=4 ST=2 TYP=3
	2695 LEAR	8 S	0937.0	0938.0	2.0	57.0			QL=4 ST=2 TYP=3
	2695 SVTO	8 S	0937.0	0938.0	2.0	65.0			QL=2 ST=2 TYP=3
	8800 SVTO	4 S/F	0937.0	0938.0	3.0	100.0			QL=4 ST=2 TYP=3

Reports are received routinely from the following observatories:

LEAR = Learmonth

PALE = Palehua

SGMR = Sagamore Hill

SVTO = San Vito

Explanation of Type Code:

1 Simple 1	7 Minor +	24 Rise	30 Post Burst Increase A	43 Onset of Noise Storm
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	

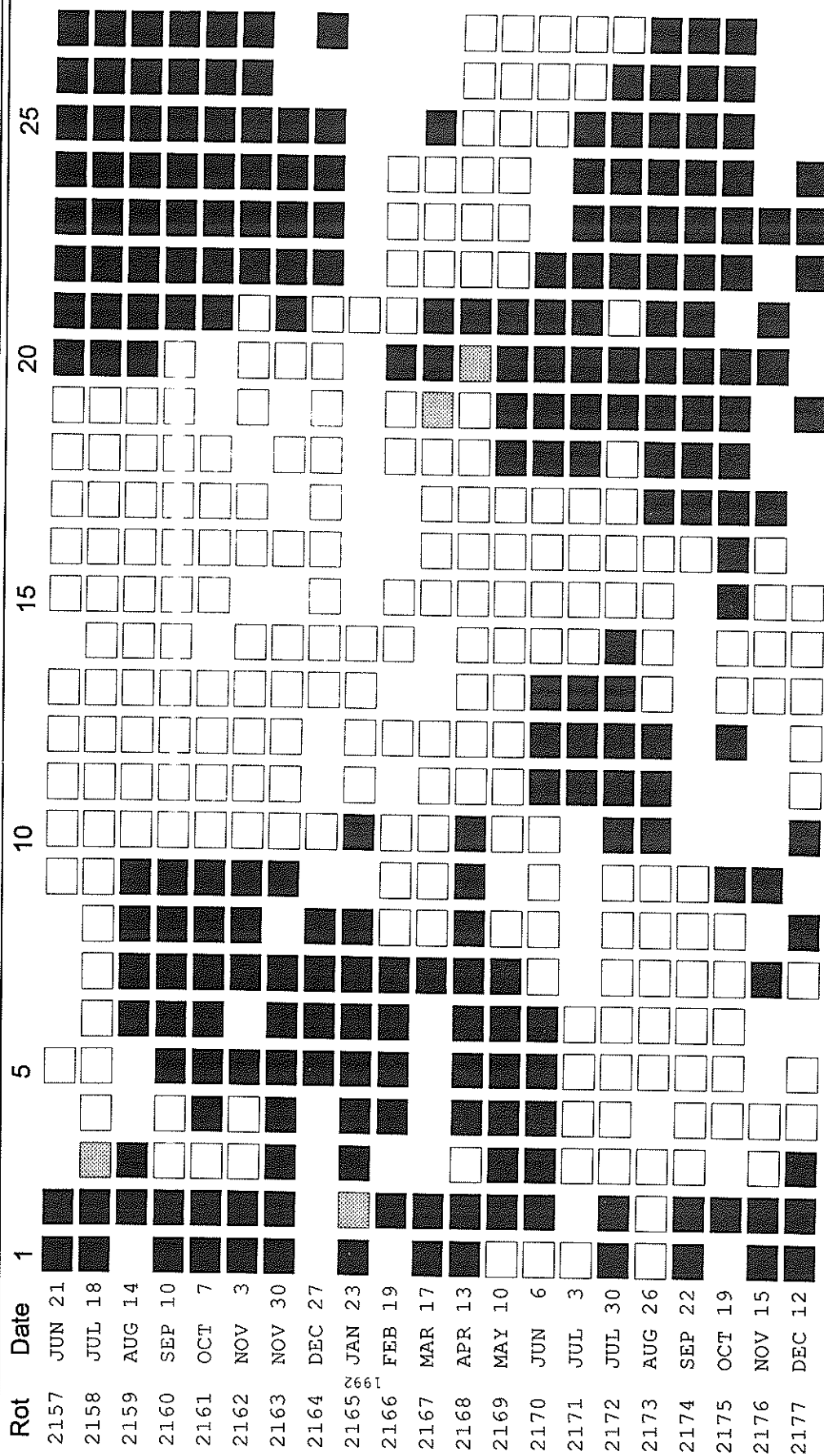
RSTN Site Information: Beginning in April 1986, the RSTN sites LEAR, PALE, SGMR, and SVTO fixed frequency solar radio data are periodically adjusted to several world standard stations. These world standard stations include: Kislovodsk, USSR 15,500 MHz; Penticton, Canada 2800 MHz; Hiraiso, Japan 500 and 200 MHz; and Toyokawa, Japan 9400, 3750, 2000 and 1000 MHz.

STANFORD MEAN SOLAR MAGNETIC FIELD (MICROTESLA)

Day	1992											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	-97	-6	73	53	7	14	8	39	88	.	19	-16
2	-78	25	.	25	0	17	17	60	67	.	-5	.
3	-45	72	61	10	-1	23	13	58	43	.	-24	.
4	.	8	78	0	21	47	.	58	-22	.	-41	-39
5	53	28	.	-14	25	52	33	46	-27	.	-57	-38
6	.	.	.	-13	32	17	39	38	-18	.	-47	.
7	.	.	27	11	43	-5	21	37	13	4	-48	-20
8	104	.	19	21	43	-12	18	-4	24	-17	.	.
9	101	.	-3	1	33	-18	.	-45	19	-40	-29	.
10	125	.	15	-7	15	-18	.	-44	29	-68	-7	.
11	145	.	17	.	-13	-2	.	-10	-18	-57	-1	.
12	126	7	8	.	-19	20	.	-2	-25	-31	-5	-50
13	102	.	28	-34	-30	20	-52	10	-53	-38	-16	-41
14	54	.	.	-61	-44	18	-46	9	-46	-29	-24	-15
15	37	.	.	4	-50	6	-16	34	-33	-33	-23	8
16	12	.	.	-81	-14	-18	2	14	-30	-14	-19	11
17	-21	.	-31	-138	25	-13	8	-19	-26	-5	20	.
18	-43	.	-54	-121	.	-19	24	-4	-26	-13	57	6
19	-46	.	.	-59	21	12	25	11	-9	.	.	-9
20	-20	-33	.	-42	28	35	-31	-14	-13	-5	.	.
21	.	.	.	-19	39	23	-56	-12	-22	.	-2	-3
22	-6	-34	.	-9	35	10	-55	-17	-23	24	.	11
23	-16	-75	-50	3	62	-21	-59	-3	-1	50	-9	42
24	0	-64	13	20	88	-50	-55	-6	17	66	.	57
25	-46	-11	40	46	85	-45	-42	1	54	47	.	49
26	-36	75	40	70	50	-36	-26	4	79	20	.	40
27	-113	58	39	72	-64	-11	-5	25	85	-7	60	.
28	-126	63	55	49	-51	.	1	55	60	.	62	.
29	-115	.	.	42	-27	.	4	.	39	.	55	.
30	-74	.	.	27	-13	17	-1	101	7	-14	11	-59
31	.	.	82	.	8	.	-5	97	.	22	.	.

Dot symbol indicates no data available for the day.

STANFORD MEAN SOLAR MAGNETIC FIELD



Mean Solar Magnetic Field Polarity: = field > 2 microT; = field < -2 microT; = -2 microT ≤ field ≤ 2 microT
 = no data available

Observations are taken at 2000 UT. Rotation numbers given are the Bartels series, but the dates are not; these dates are five days earlier, to mark times of occurrence of phenomena on the Sun that affect the Earth during the given Bartels Rotation.

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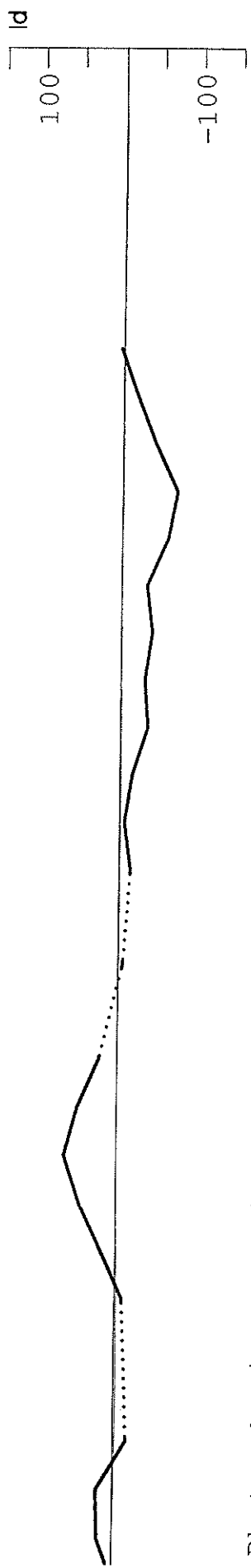
DATA FOR NOVEMBER 1992

Number 581 Part I

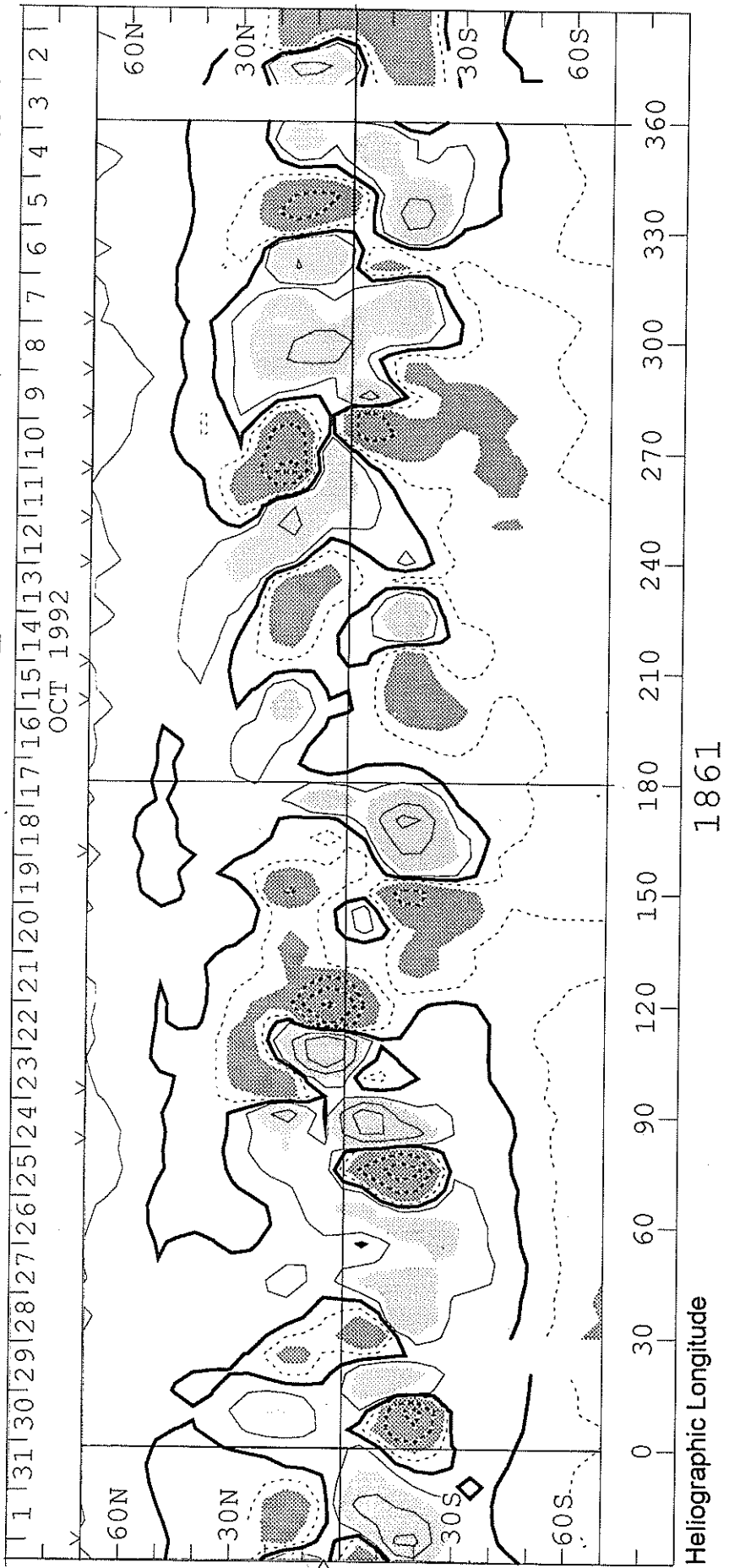
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WILCOX SOLAR OBSERVATORY
SOLAR MAGNETIC FIELD SYNOPTIC CHART
CARRINGTON ROTATION NUMBER 1861
(3 to 31 October 1992)

Mean Field



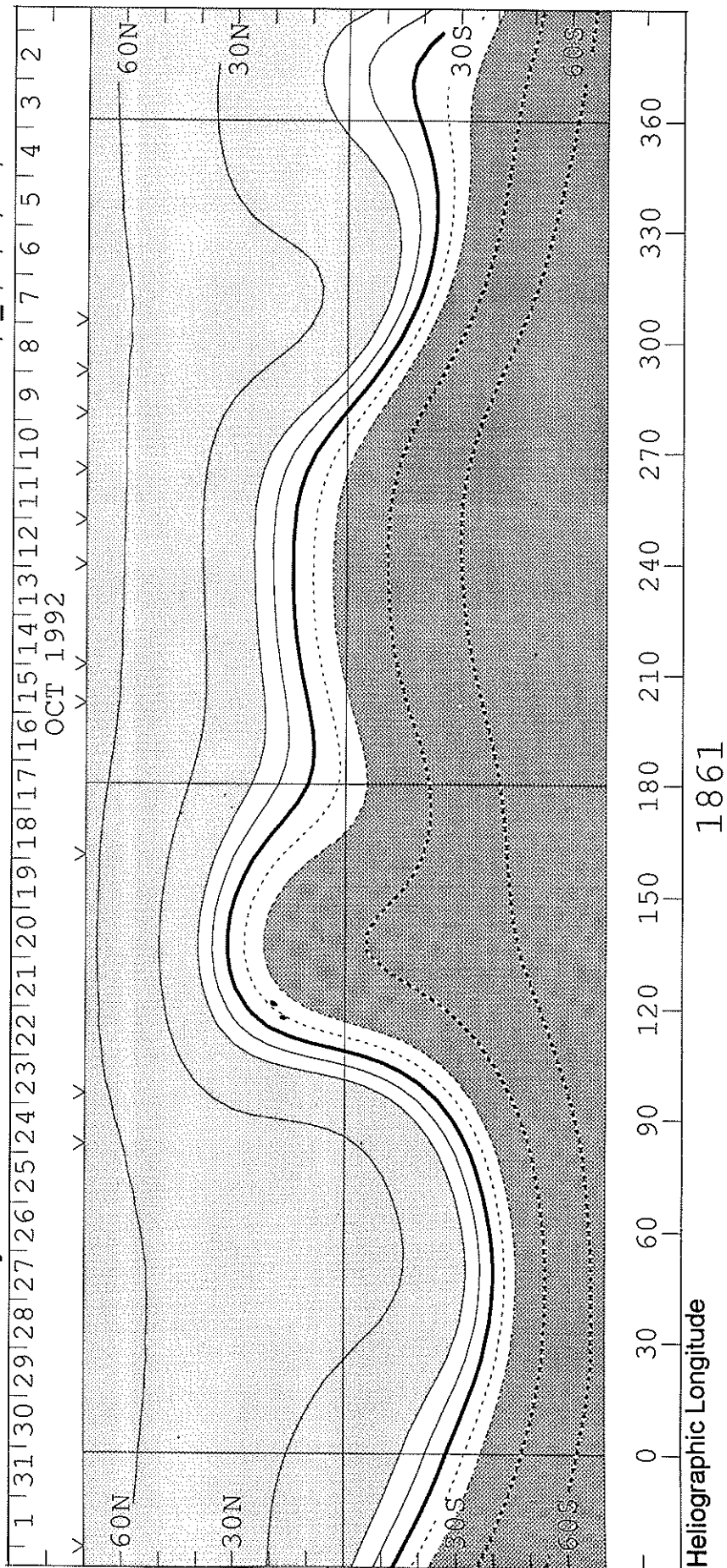
Photospheric Magnetic Field 0, +100, 500, 1000, 2000 MicroTesla



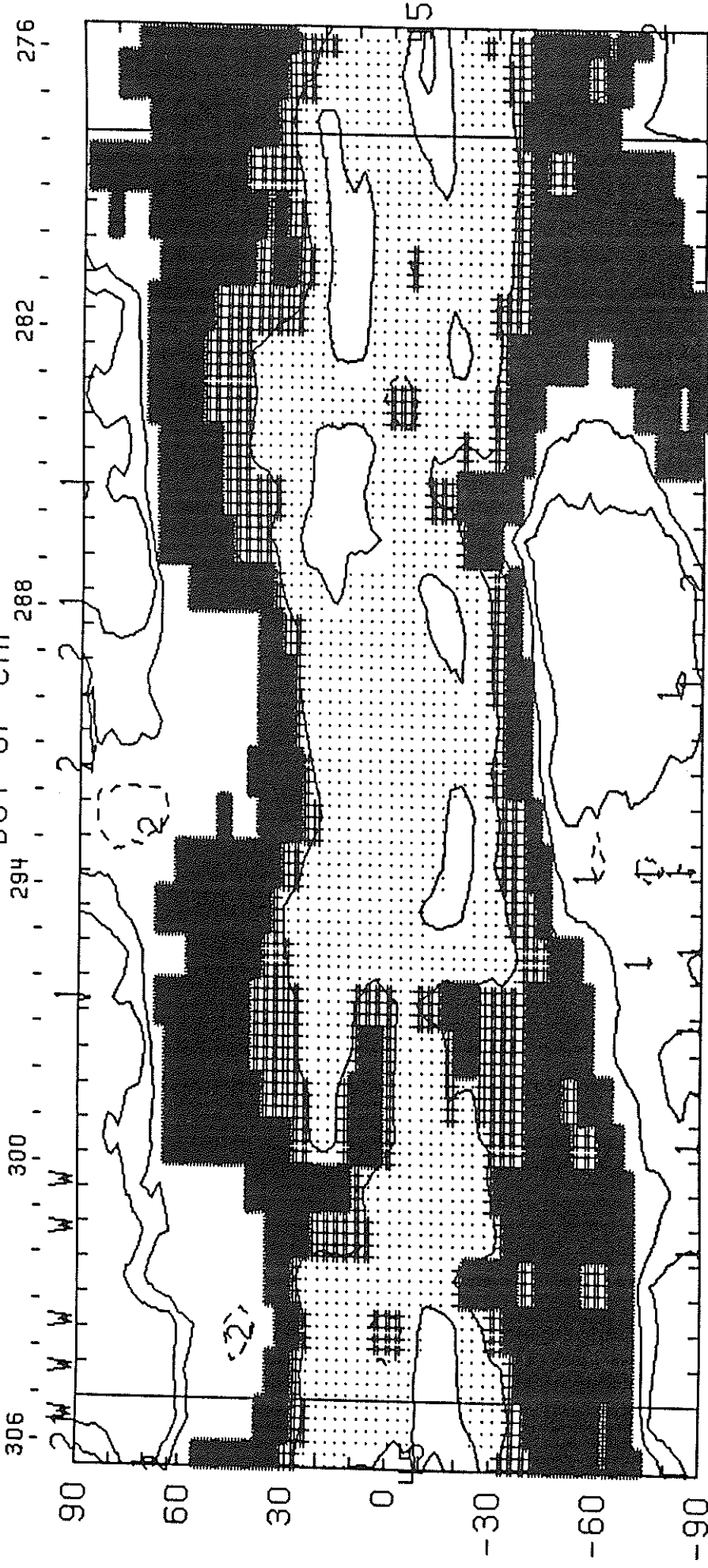
SOLAR MAGNETIC FIELD SYNOPSIS CHART

SOURCE SURFACE FIELD
CARRINGTON ROTATION NUMBER 1861
(3 to 31 October 1992)

Wilcox Solar Observatory 0, ± 1 , 2, 5, 10, 20 microTesla



CARRINGTON ROTATION NUMBER 1861; SAC. PEAK FE XIV AT R = 1.15
DOY OF CMP



1992 E+W LIMB CONTOURS: 1,2,6,10,15,30,45,60,75 MILLIONTHS OF I
(29-Dec-92) CORONAL HOLES ARE SHOWN AS WHITE SURROUNDED BY BLACK

CARRINGTON ROTATION NUMBER 1861; SAC. PEAK FE X AT R = 1.15

DOY OF CMP

306 300 294 288 282 276



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

HELIOGRAPHIC LONGITUDE

I_{ove} = 2.91 μ W

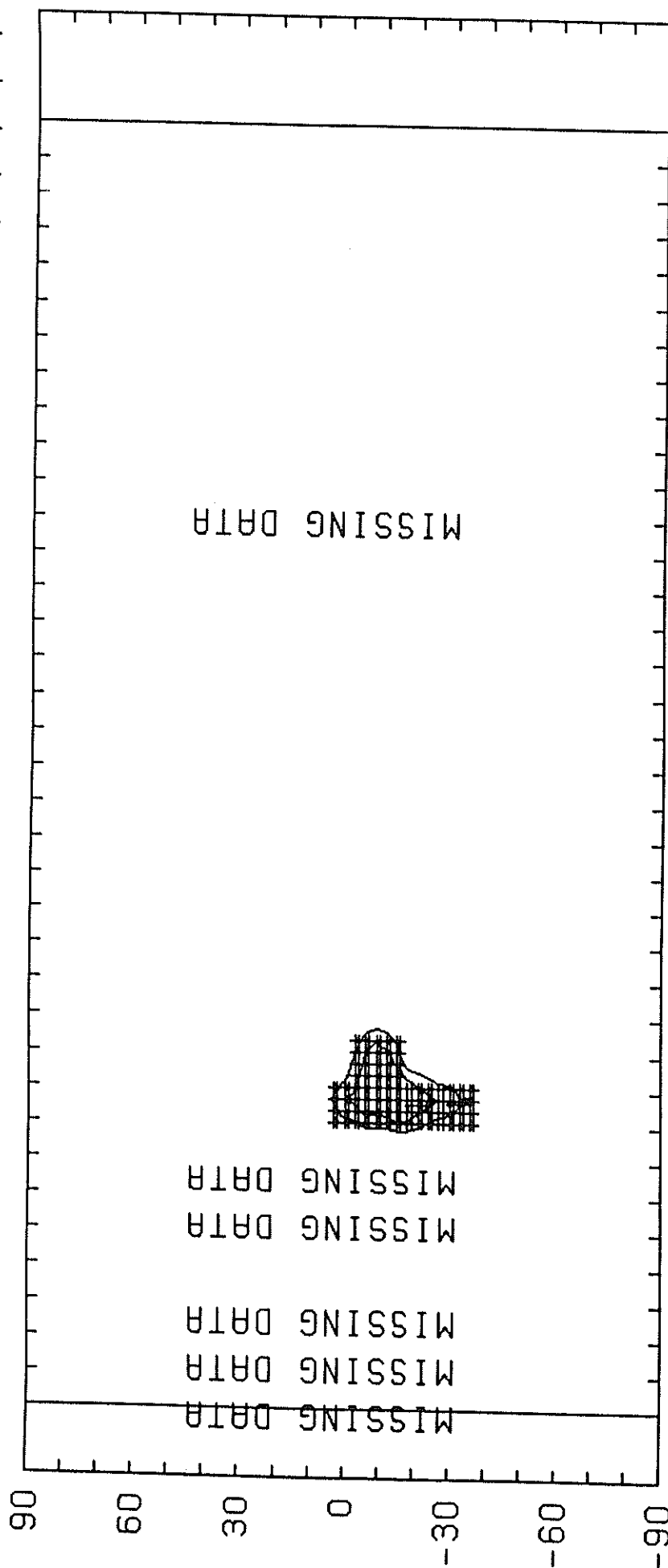
1992 E+W LIMB CONTOURS: 1,2,4,8,16,32,48,64,80 MILLIONTHS OF I_o

(29-Dec-92)

CARRINGTON ROTATION NUMBER 1861 ; SAC. PEAK CA XV at R = 1.13

DOY OF CMP₂₈₈

306 294 282 276

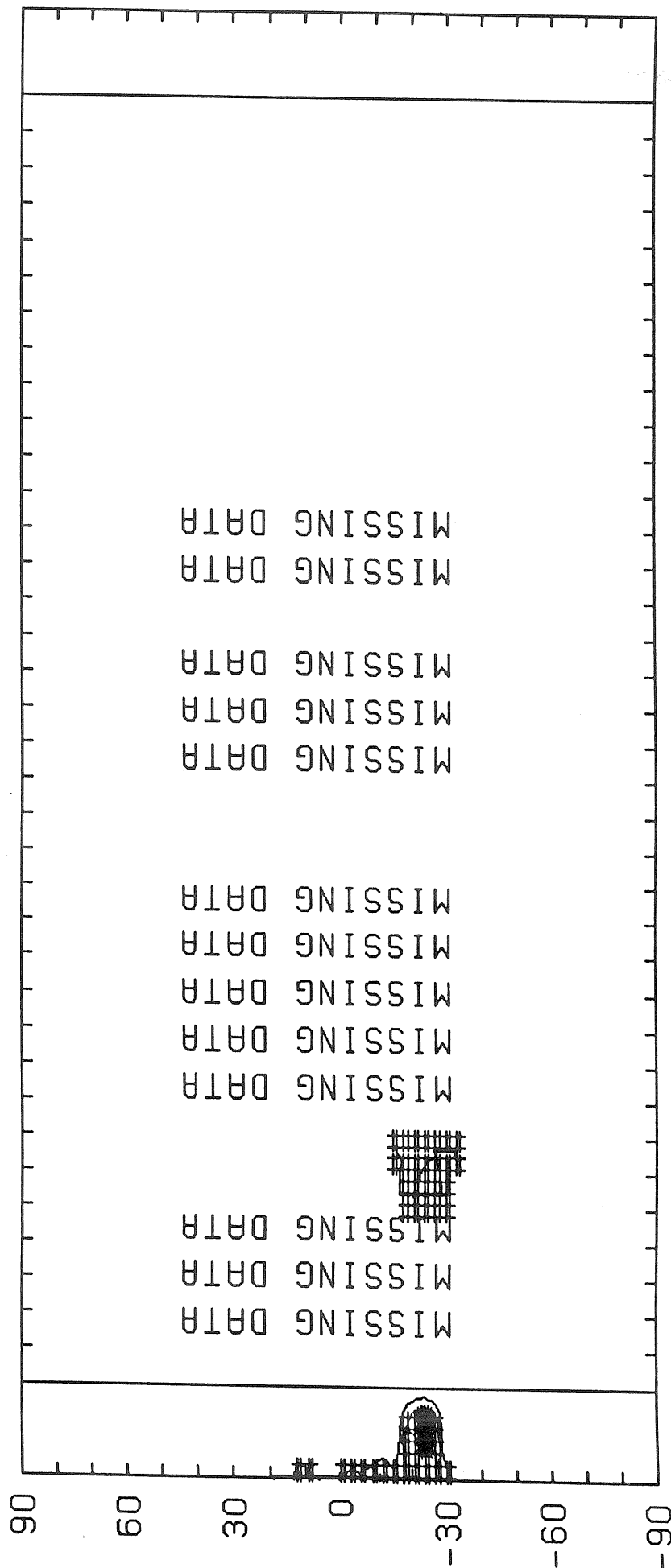


E
W
1992 EAST LIMB CONTOURS: YELLOW-MINIMUM, 1, 2, 4, 8 MILLIONTHS OF Io
(29-Dec-92)

CARRINGTON ROTATION NUMBER 1861 ; SAC. PEAK CA XV at R = 1.13

DOY OF CMP

307 295 283 277



E Heliographic Longitude W

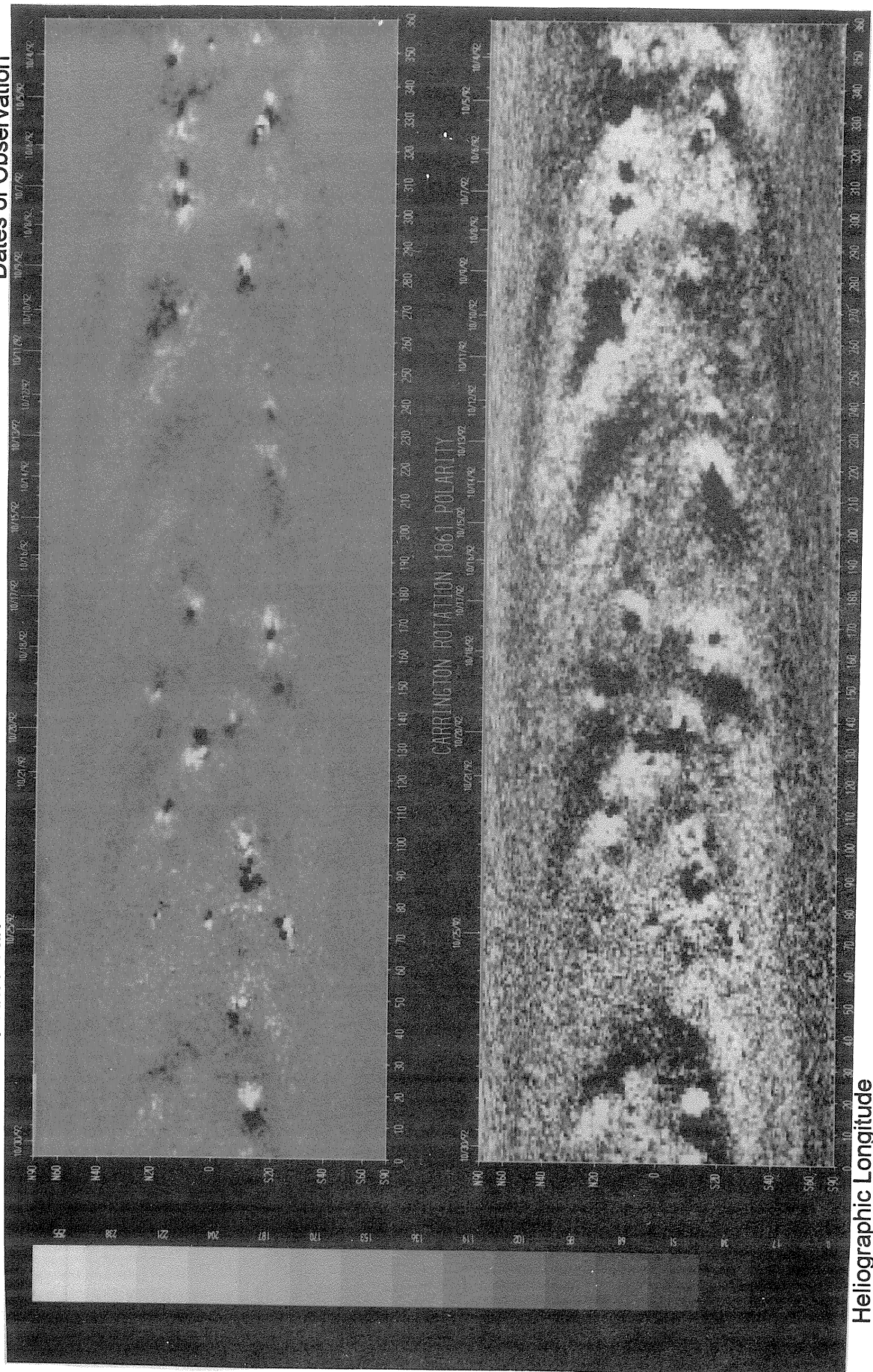
1992 WEST LIMB CONTOURS: YELLOW-MINIMUM, 1, 2, 4, 8 MILLIONTHS OF IO

(29-Dec-92)

SOLAR MAGNETIC FIELD SYNOPTIC CHART
CARRINGTON ROTATION NUMBER 1861
(3 to 31 October 1992)

National Solar Observatory/Kitt Peak

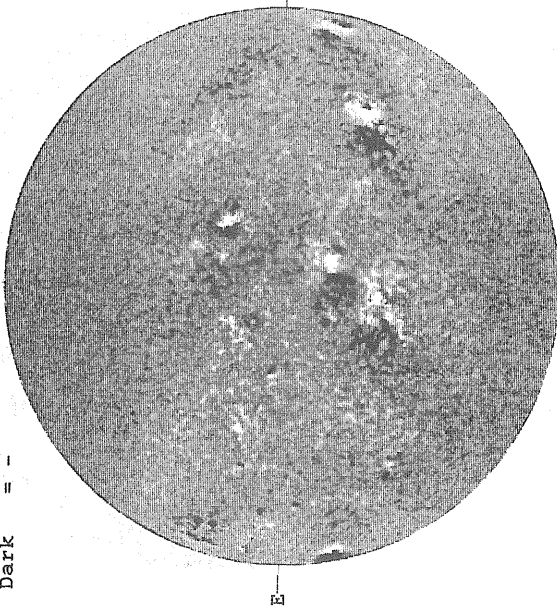
Dates of Observation



NOVEMBER 1, 1992 (P= 24.46, B₀ = 4.33, L₀ = 348.06)

KITT PEAK MAGNETOGRAM
N **5507A**

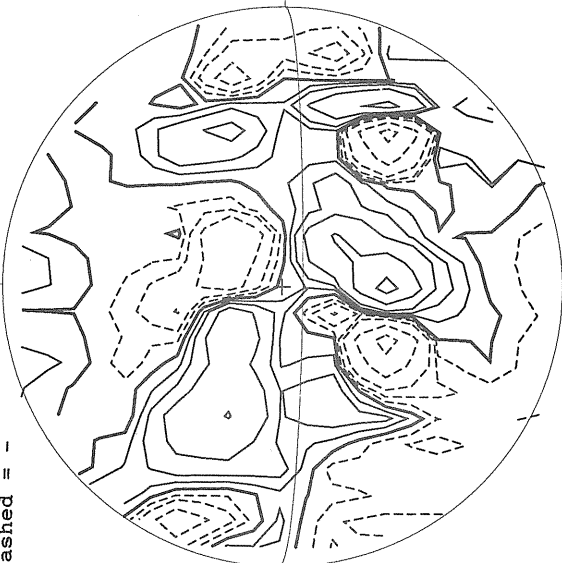
Bright = +
Dark = -



1859 UT

STANFORD MAGNETOGRAM
N

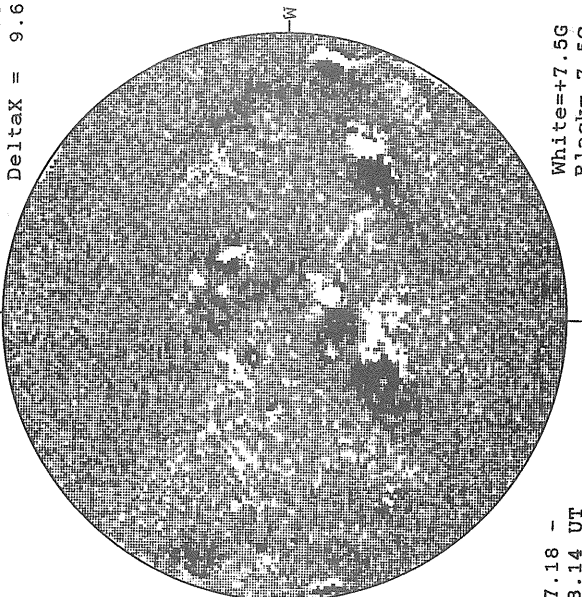
Solid = +
Dashed = -



2321 UT

MT. WILSON MAGNETOGRAM

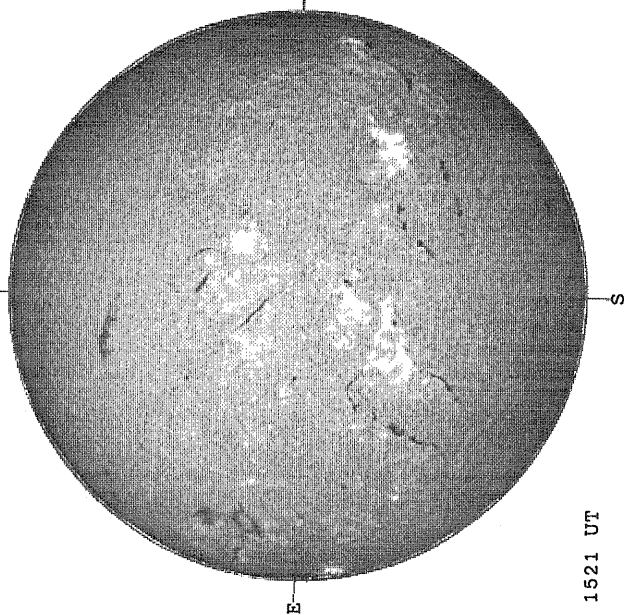
DeltaY = 13.0
DeltaX = 9.6



17.18 -
18.14 UT

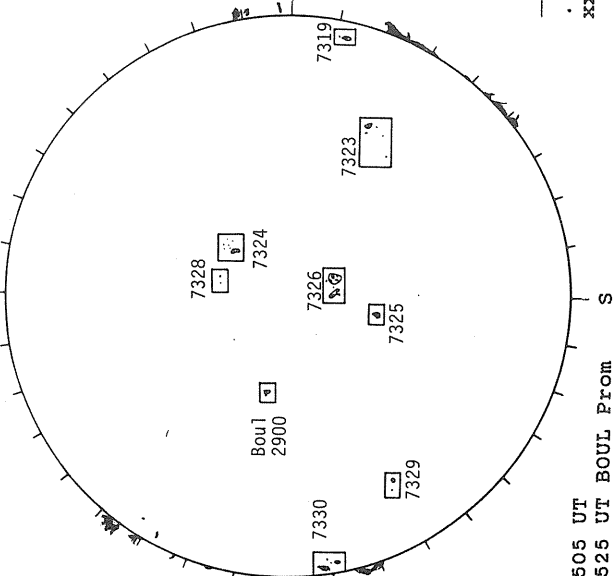
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



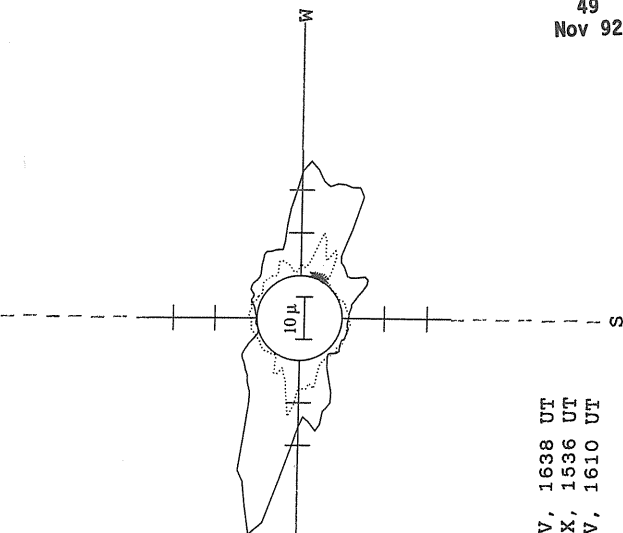
1521 UT

BOULDER SUNSPOT



1505 UT
1525 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radil)



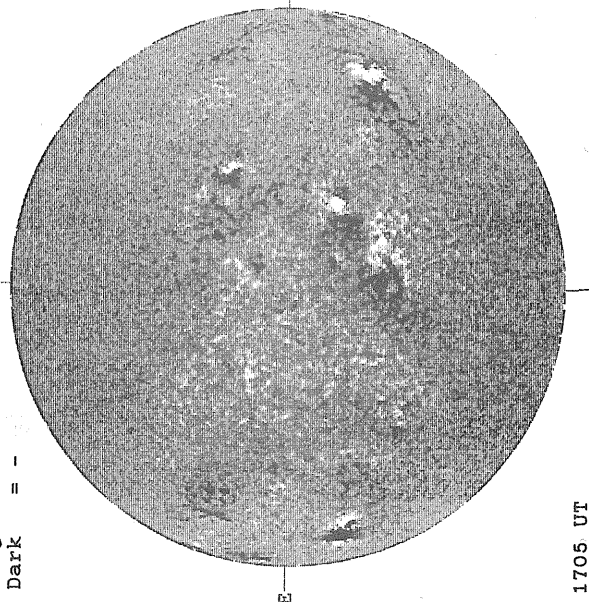
— FeXIV, 1638 UT
... Fe X, 1536 UT
xxxx Ca XV, 1610 UT

50
Nov 92

NOVEMBER 2, 1992 (P= 24.29, B₀ = 4.23, L₀ = 334.87)

KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



1705 UT

STANFORD MAGNETOGRAM

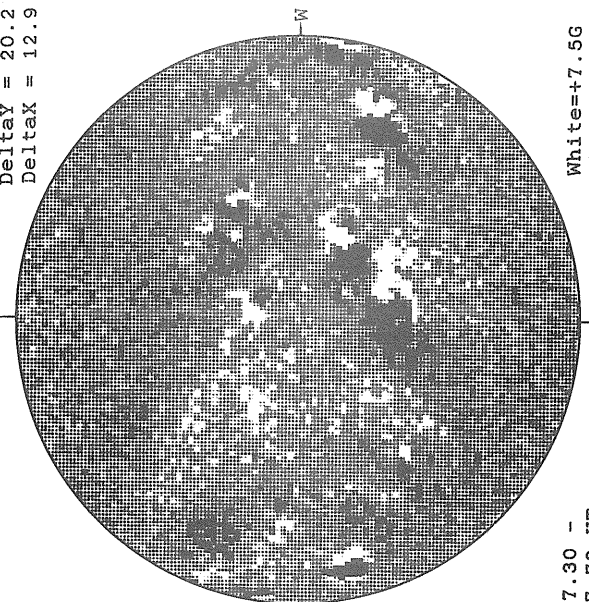
Solid = +
Dashed = -



1931 UT

MT. WILSON MAGNETOGRAM

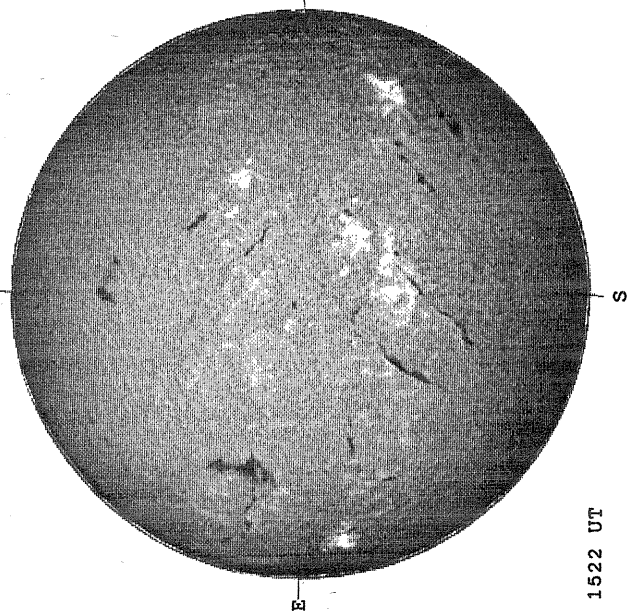
Delta_y = 20.2
Delta_x = 12.9



17.30 -
17.72 UT

White=+7.5G
Black=-7.5G

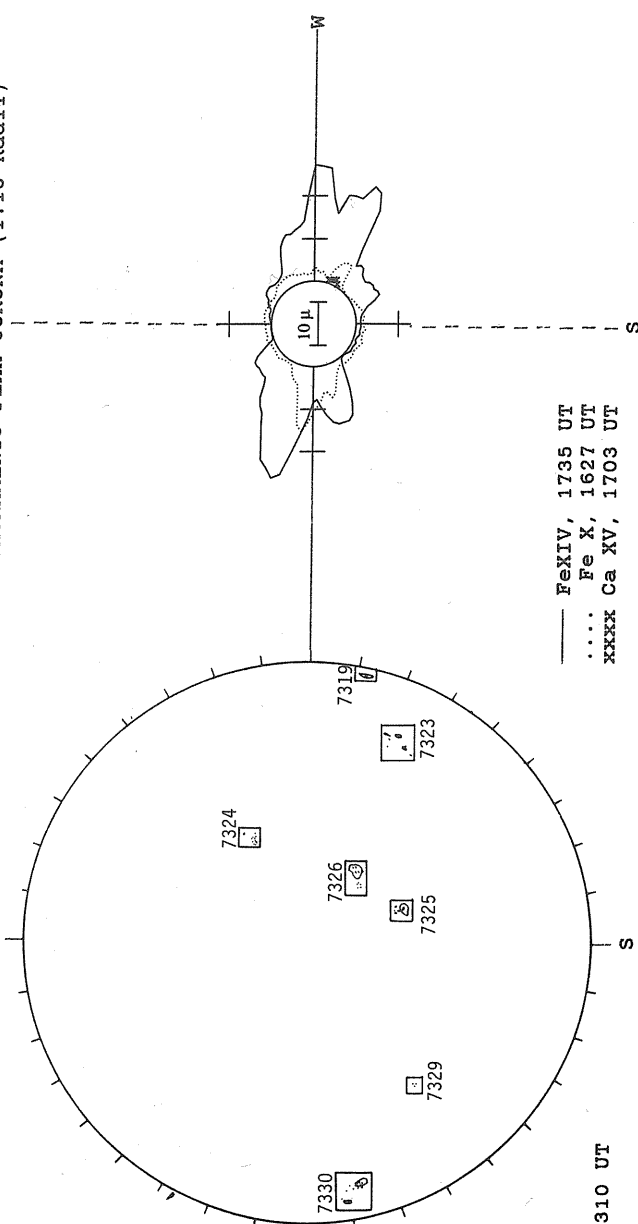
SACRAMENTO PEAK H-ALPHA



1522 UT

RAMEY SUNSPOT

SACRAMENTO PEAK CORONA (1.15 Radii)

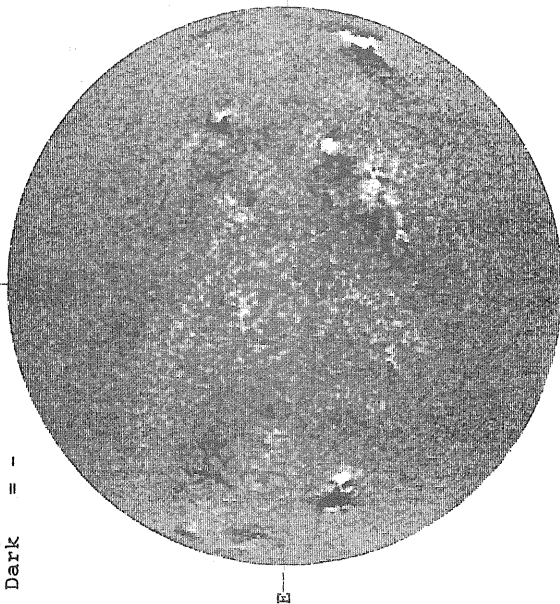


— Fe XIV, 1735 UT
.... Fe X, 1627 UT
xxxx Ca XV, 1703 UT

NOVEMBER 3, 1992 (P= 24.11, B₀ = 4.13, L₀ = 321.69)

KITT PEAK MAGNETOGRAM
5507A

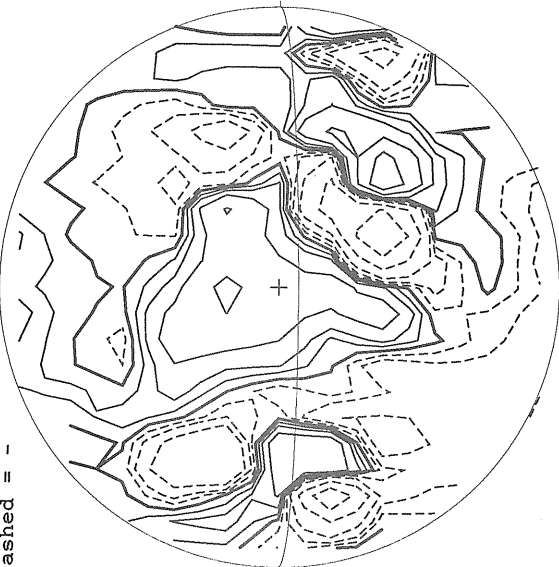
Bright = +
Dark = -



1720 UT

STANFORD MAGNETOGRAM

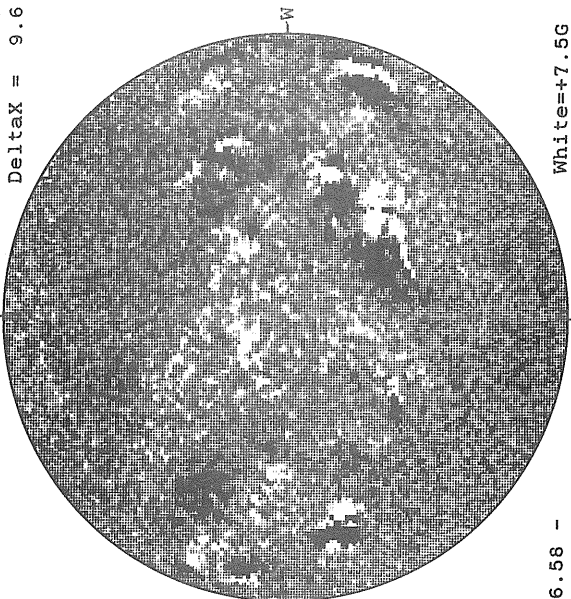
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Dashed = -



1904 UT

MT. WILSON MAGNETOGRAM

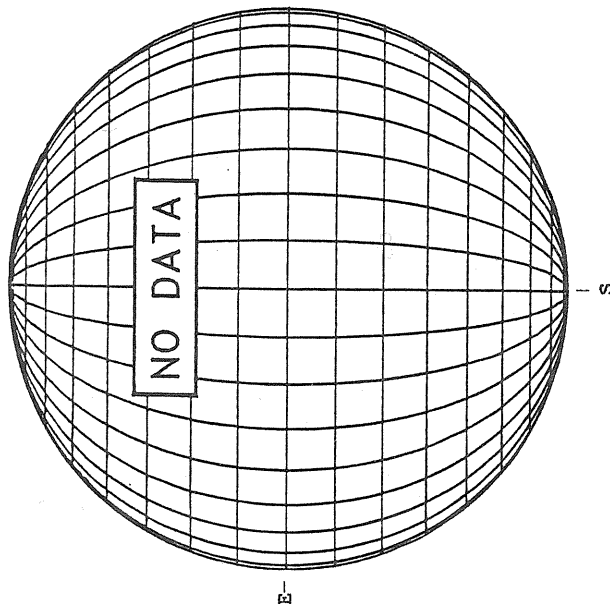
DeltaY = 13.0
DeltaX = 9.6



16.58 -
17.54 UT

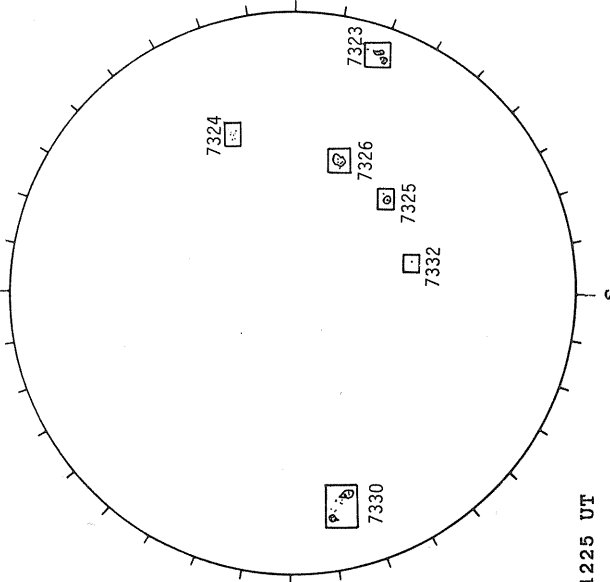
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



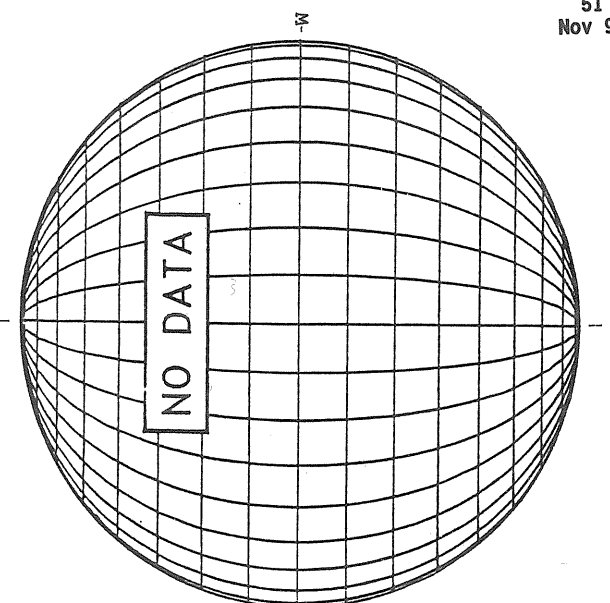
NO DATA

RAMEY SUNSPOT



1225 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

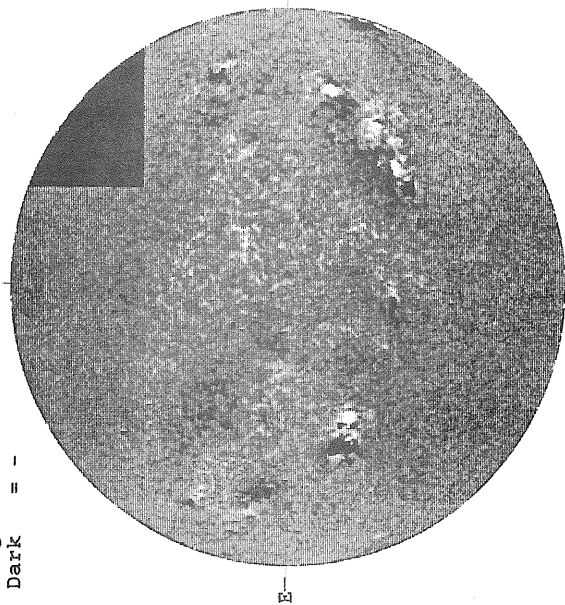


NO DATA

NOVEMBER 4, 1992 (P= 23.92, B₀ = 4.02, I₀ = 308.50)

KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



1800 UT

STANFORD MAGNETOGRAM

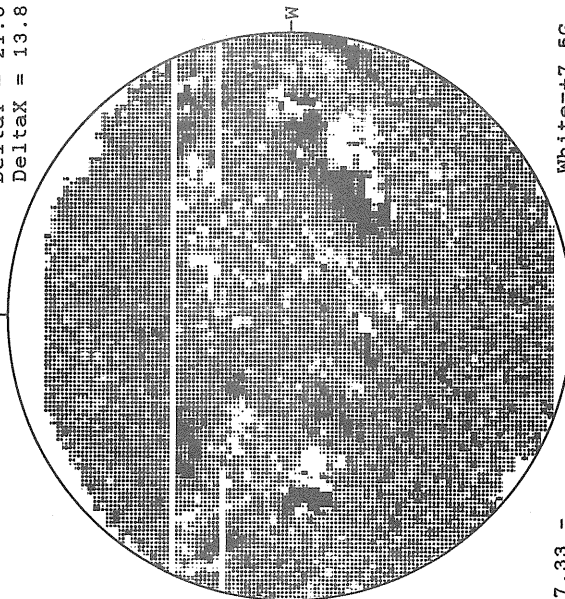
Solid = +
Dashed = -



2237 UT

MT. WILSON MAGNETOGRAM

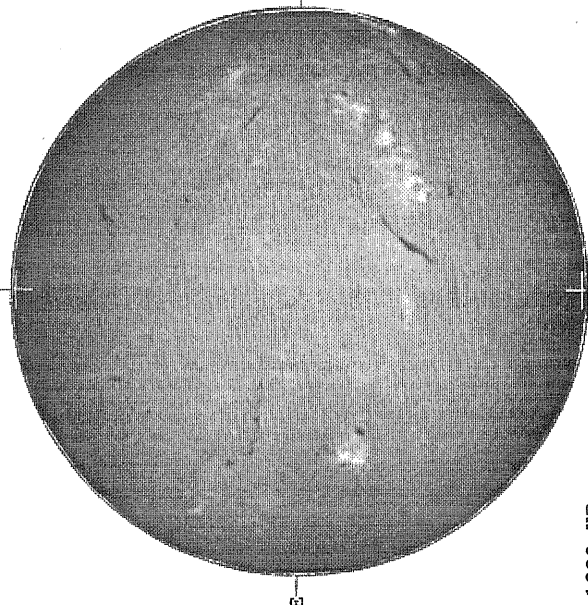
DeltaY = 21.6
DeltaX = 13.8



17.33 -
17.75 UT

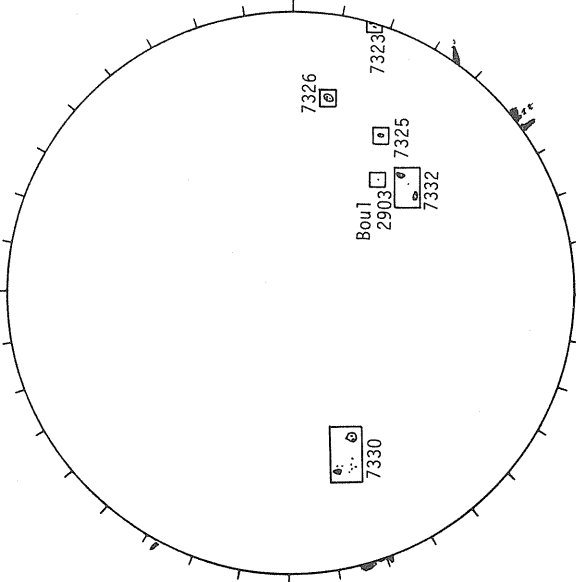
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BOULDER H-ALPHA



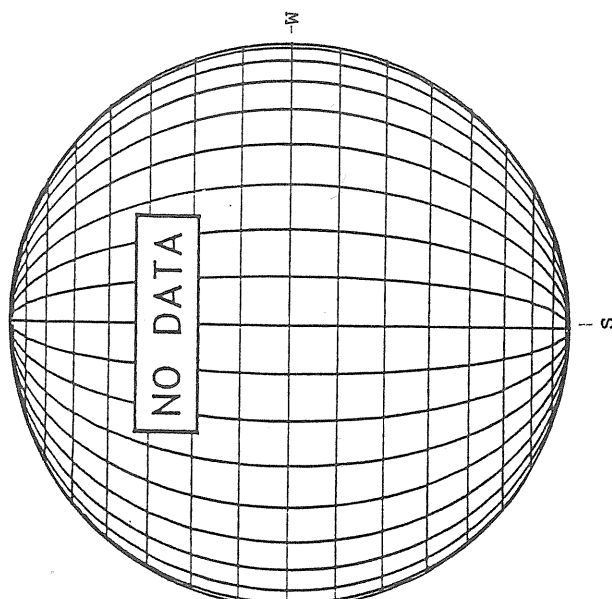
1633 UT

BOULDER SUNSPOT



1504 UT
1633 UT BOUL Prom

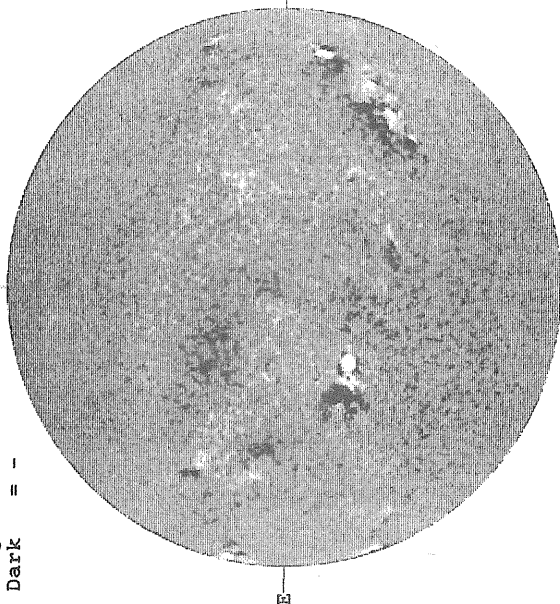
SACRAMENTO PEAK CORONA (1.15 Radii)



NOVEMBER 5, 1992 (P= 23.72, B₀ = 3.92, L₀ = 295.32)

KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



1720 UT

STANFORD MAGNETOGRAM

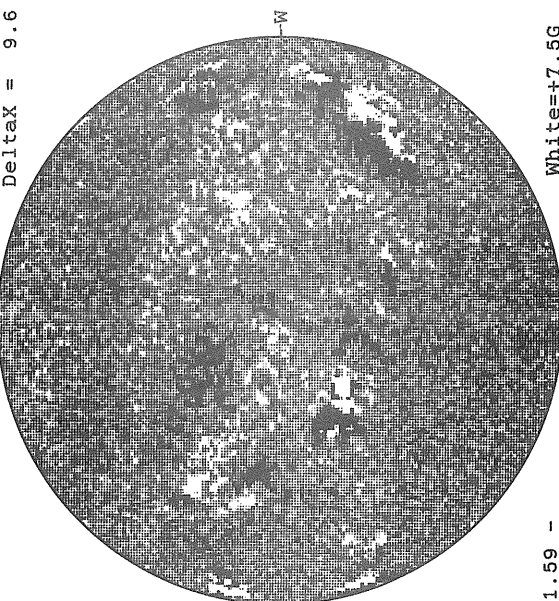
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Dashed = -



1845 UT

MT. WILSON MAGNETOGRAM

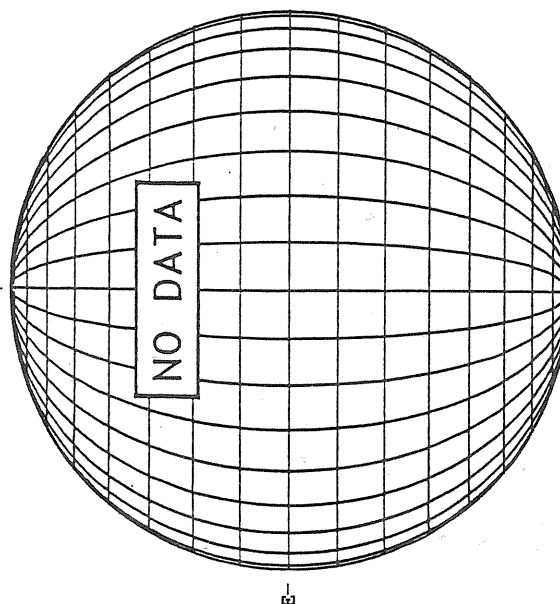
Delta_Y = 13.0
Delta_X = 9.6



21.59 -
22.56 UT

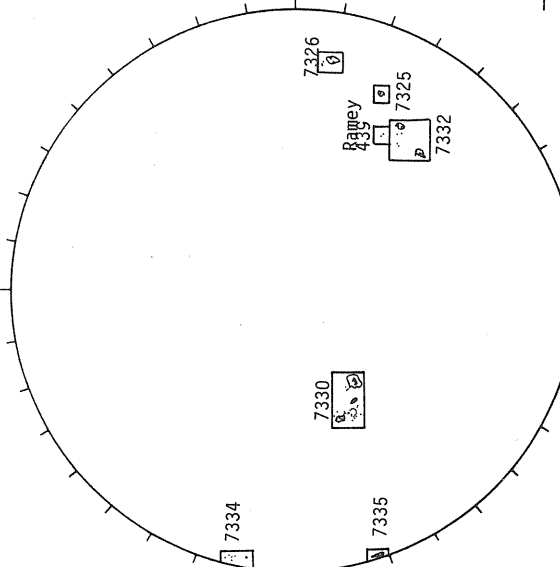
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Black=-7.5G

SACRAMENTO PEAK H-ALPHA



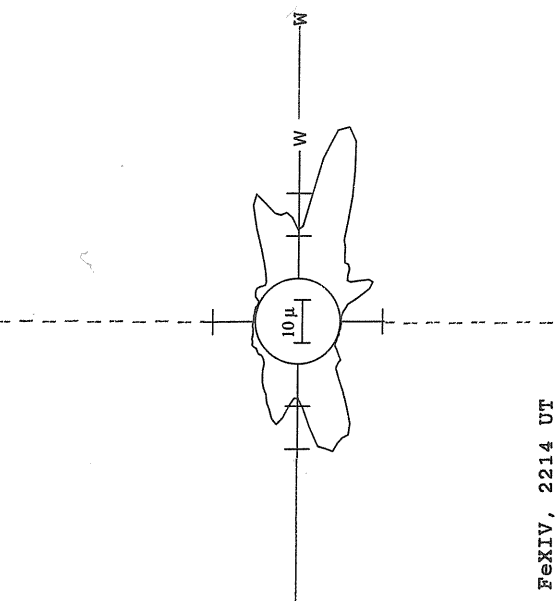
E

RAMEY SUNSPOT



1230 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



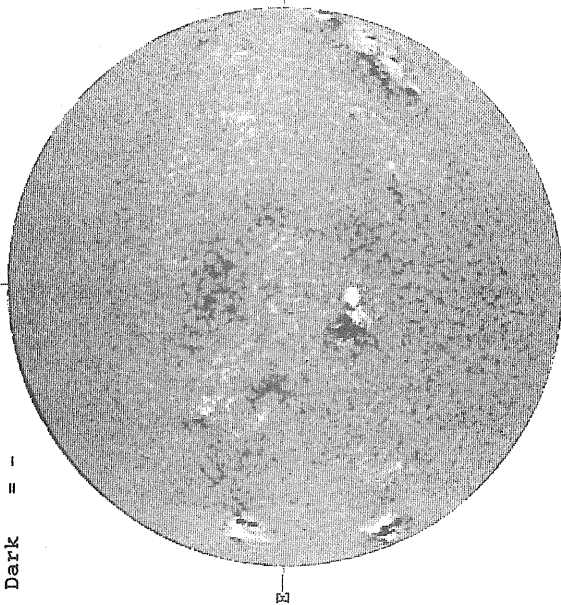
S

FeXIV, 2214 UT

NOVEMBER 6, 1992 (P= 23.52, B₀ = 3.81, I₀ = 282.13)

KITT PEAK MAGNETOGRAM
5507A

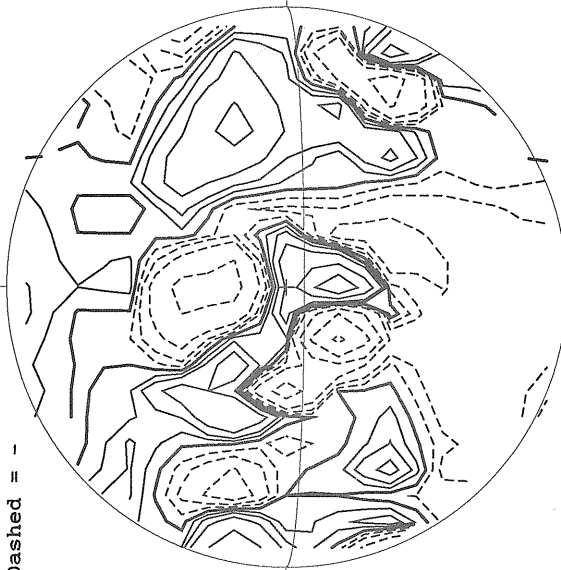
Bright = +
Dark = -



1638 UT

STANFORD MAGNETOGRAM

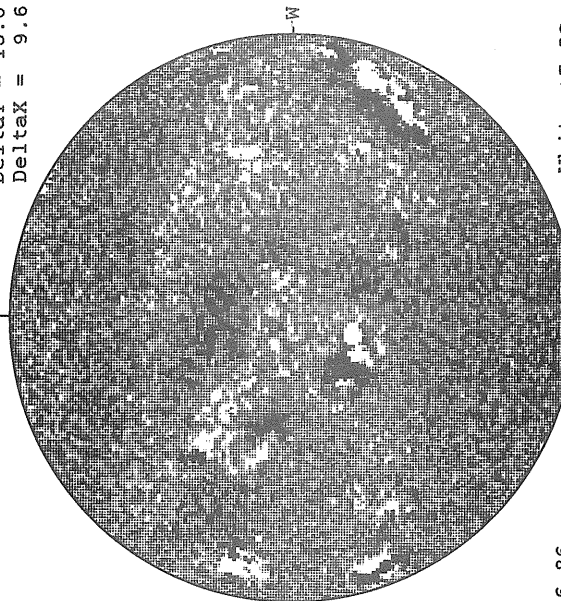
Solid = +
Dashed = -



1911 UT

MT. WILSON MAGNETOGRAM

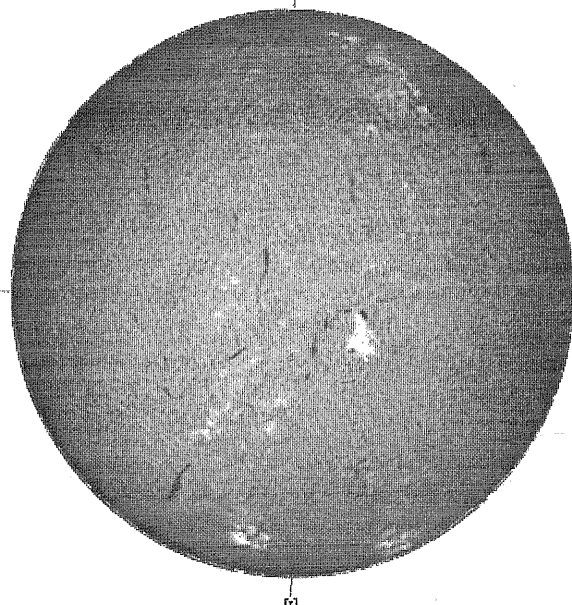
Delta_Y = 13.0
Delta_X = 9.6



16.86 -
17.82 UT

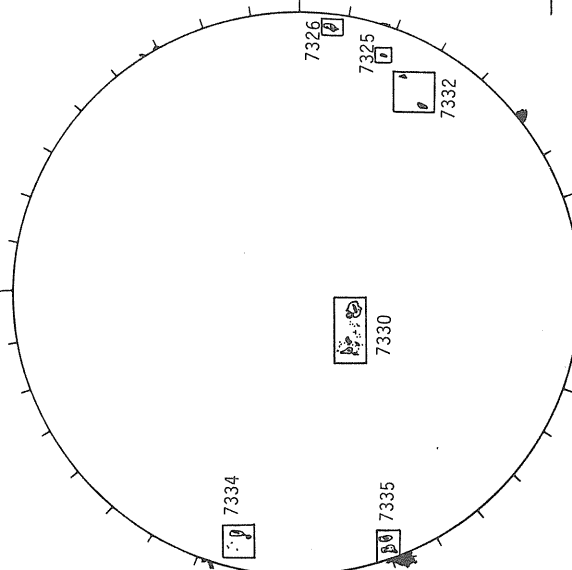
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



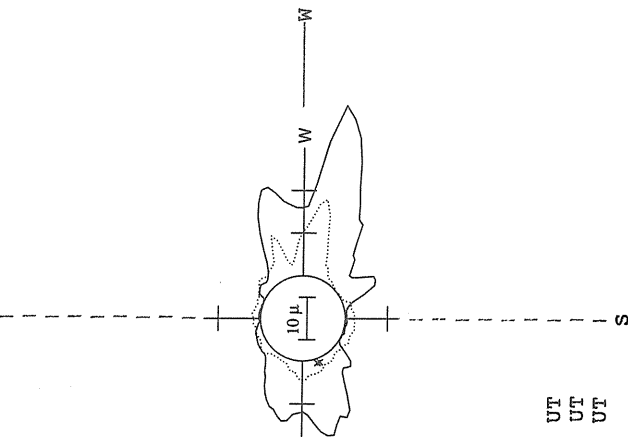
1500 UT

BOULDER SUNSPOT



1621 UT BOUL Prom
1611 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)

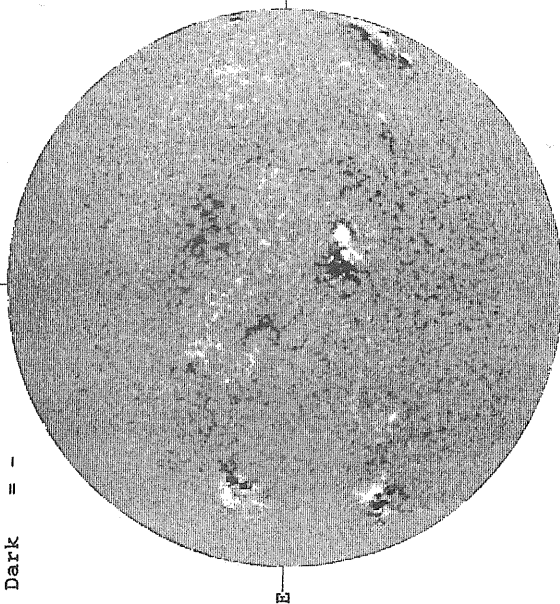


— Fe XIV, 1608 UT
.... Fe X, 1743 UT
xxxxx Ca XV, 1726 UT

NOVEMBER 7, 1992 (P= 23.31 B₀ = 3.70, L₀ = 268.95)

KITT PEAK MAGNETOGRAM
5507A

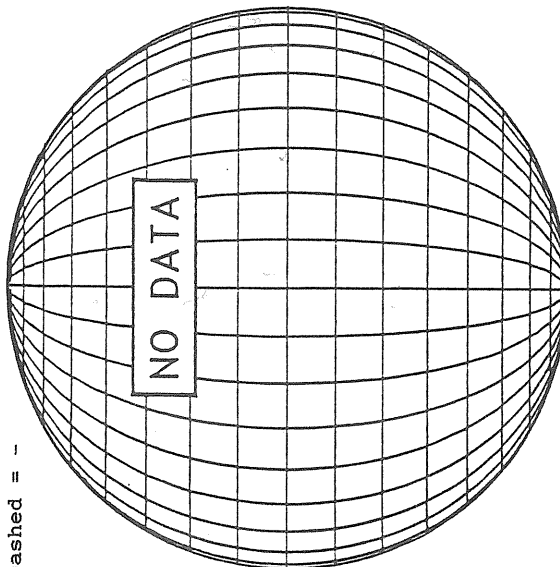
Bright = +
Dark = -



1632 UT

STANFORD MAGNETOGRAM

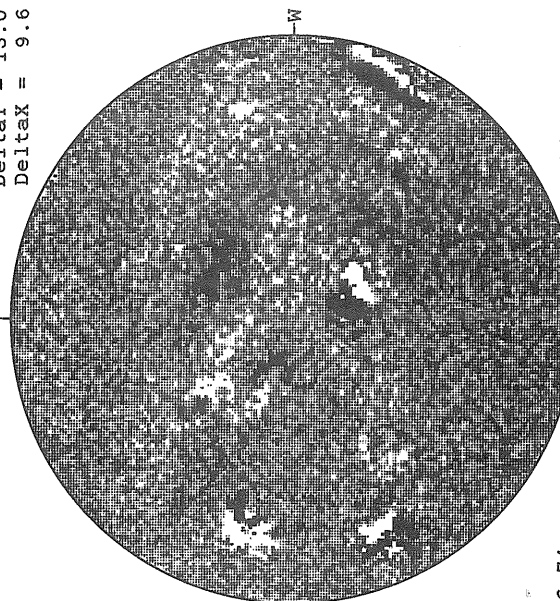
Solid = +
Dashed = -



NO DATA

MT. WILSON MAGNETOGRAM

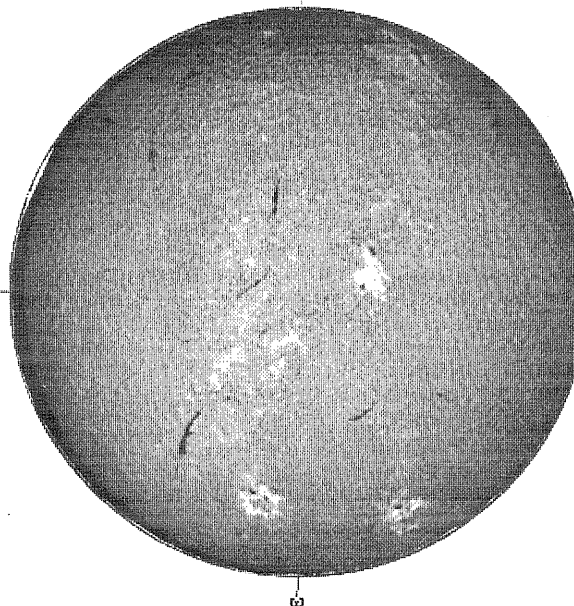
Delta_Y = 13.0
Delta_X = 9.6



16.74 -
17.71 UT

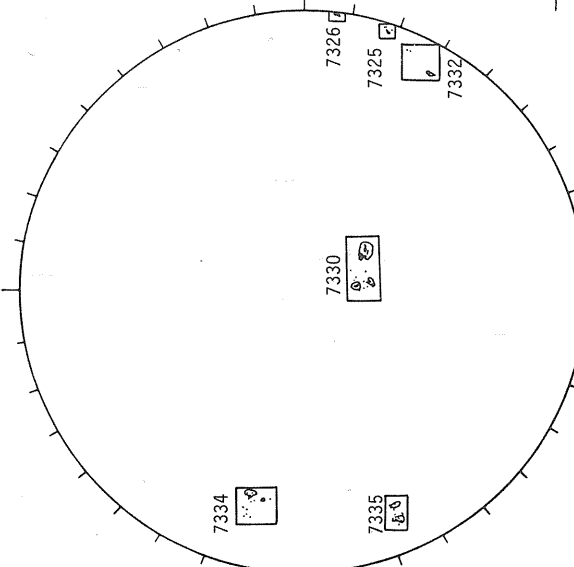
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA

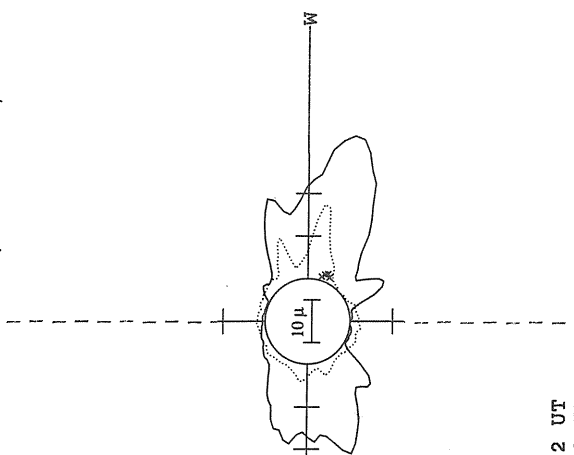


1501 UT

RAMEY SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radii)

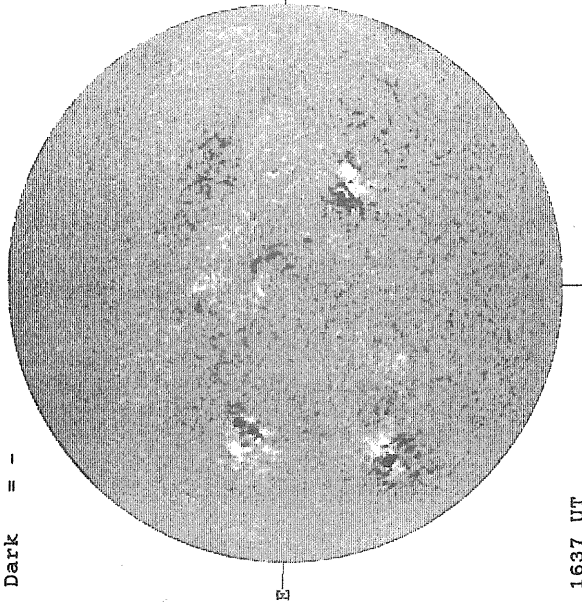


— FeXIV, 1452 UT
.... Fe X, 1758 UT
xxxx Ca XV, 1744 UT

NOVEMBER 8, 1992 (P= 23.09, B₀ = 3.59, L₀ = 255.76)

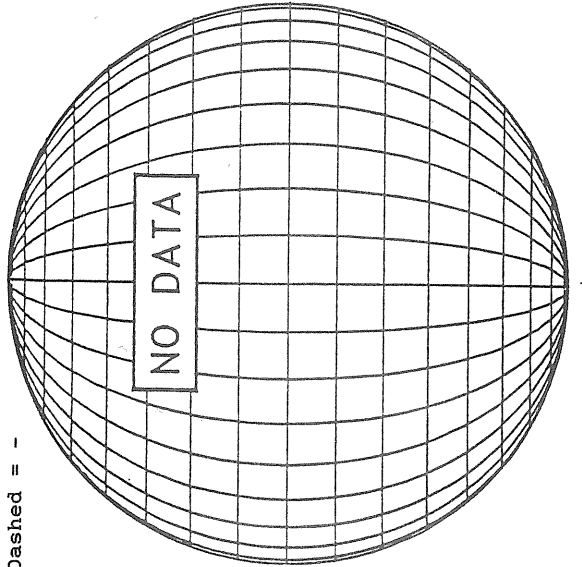
KITT PEAK MAGNETOGRAM
N **5507A**

Bright = +
Dark = -



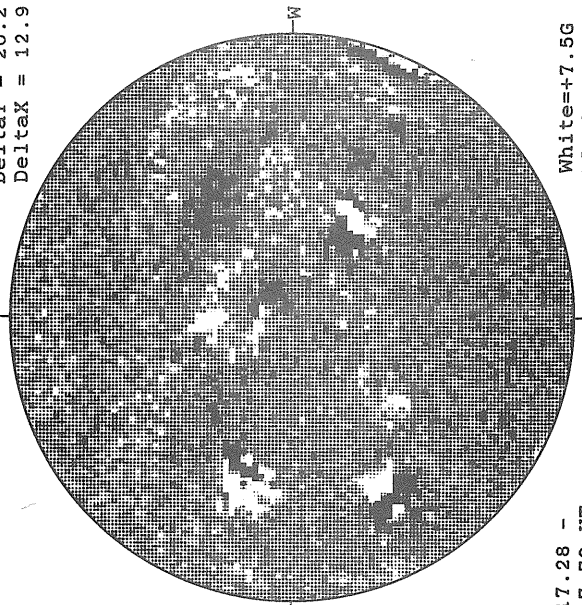
STANFORD MAGNETOGRAM

Solid = +
Dashed = -

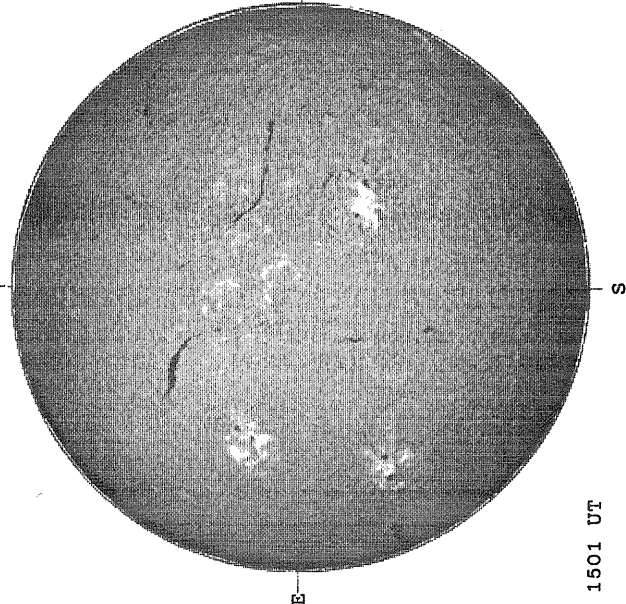


MT. WILSON MAGNETOGRAM

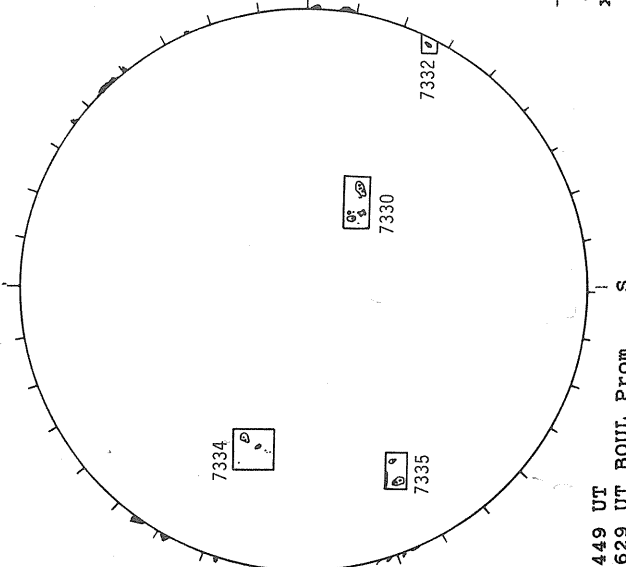
Delta y = 20.2
Delta x = 12.9



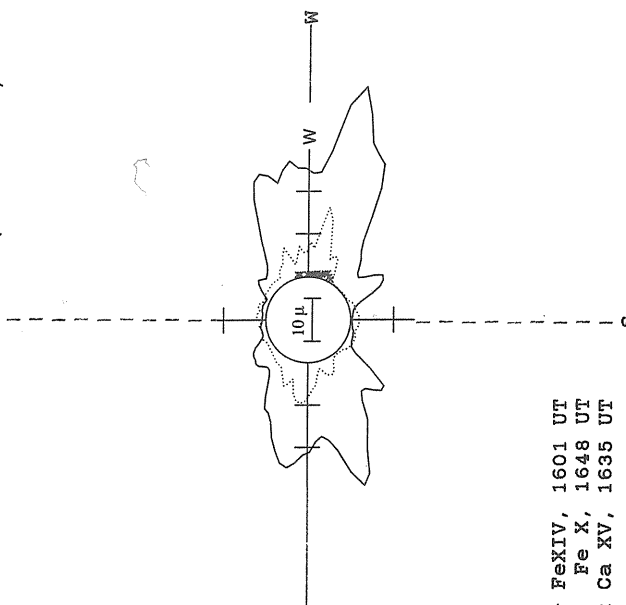
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radii)

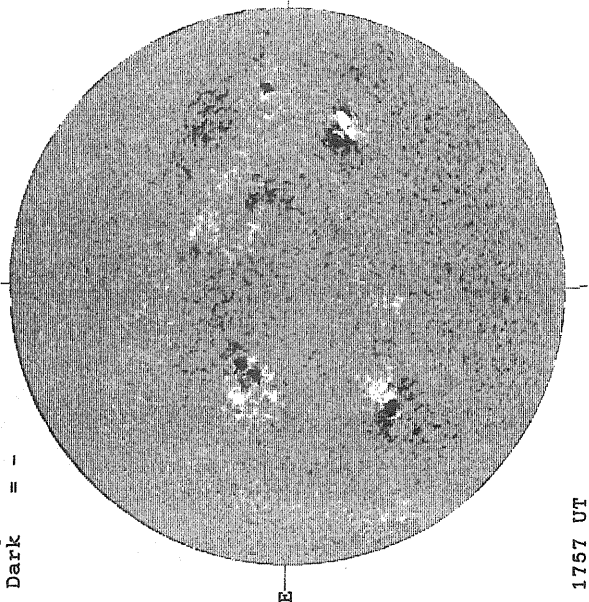


— Fe XIV, 1601 UT
.... Fe X, 1648 UT
xxxx Ca XV, 1635 UT

NOVEMBER 9, 1992 (P= 22.86 B₀ = 3.48, L₀ = 242.58)

KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



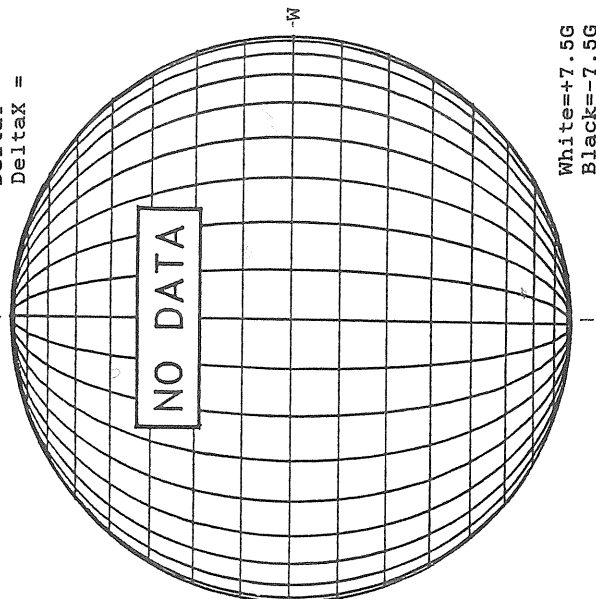
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



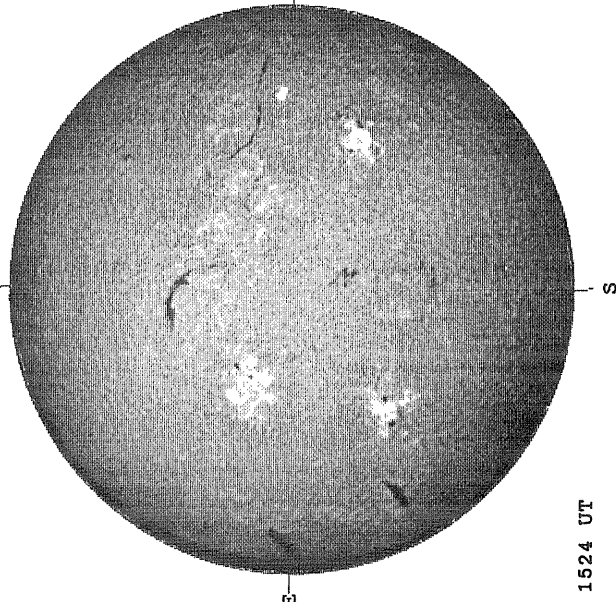
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =

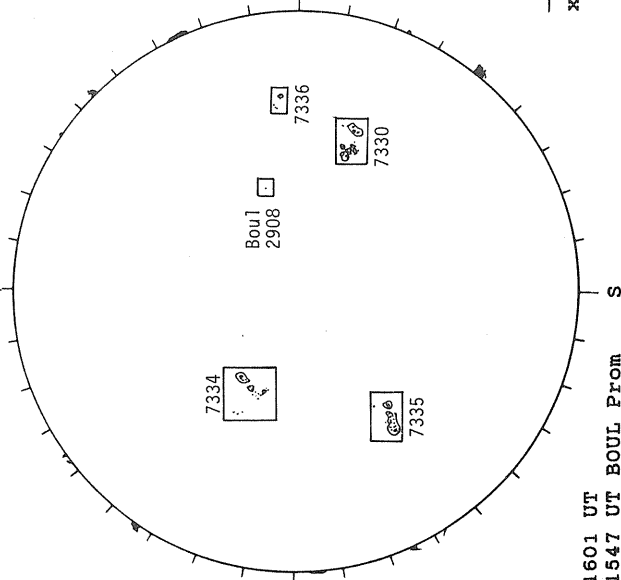


White = +7.5G
Black = -7.5G

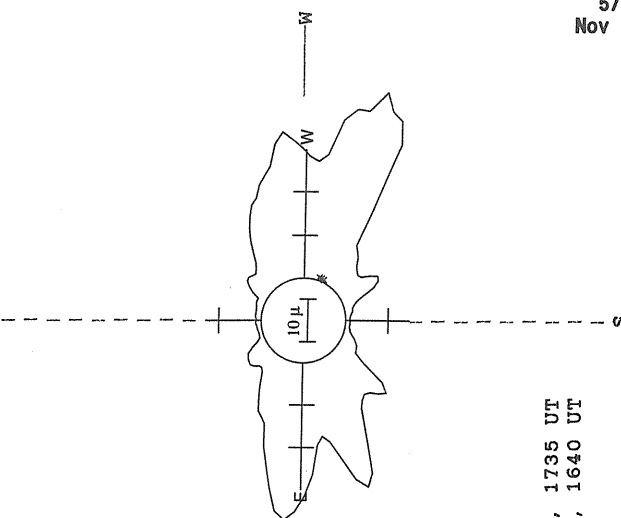
SACRAMENTO PEAK H-ALPHA



BOULDER SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radil)

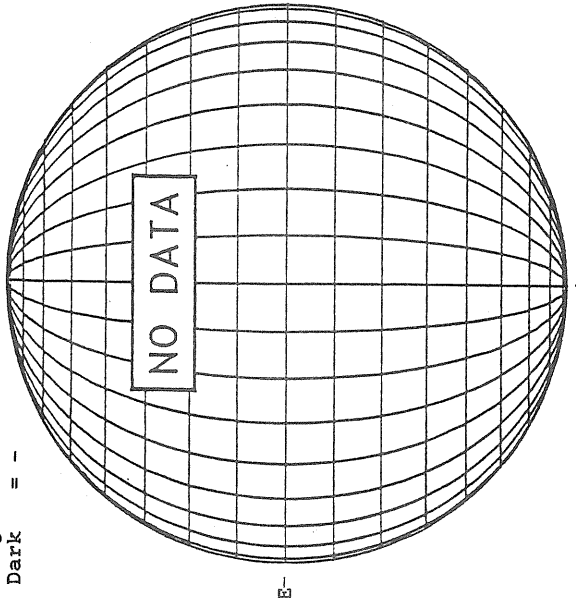


— FeXIV, 1735 UT
xxxx Ca XV, 1640 UT

NOVEMBER 10, 1992 (P= 22.63, B₀ = 3.37, L₀ = 229.39)

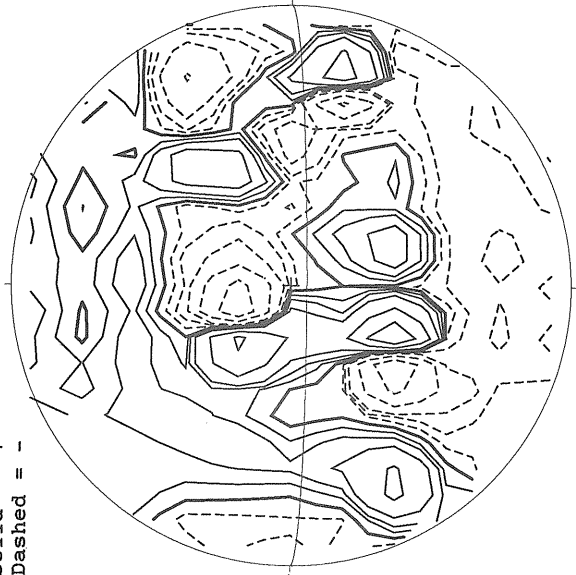
KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



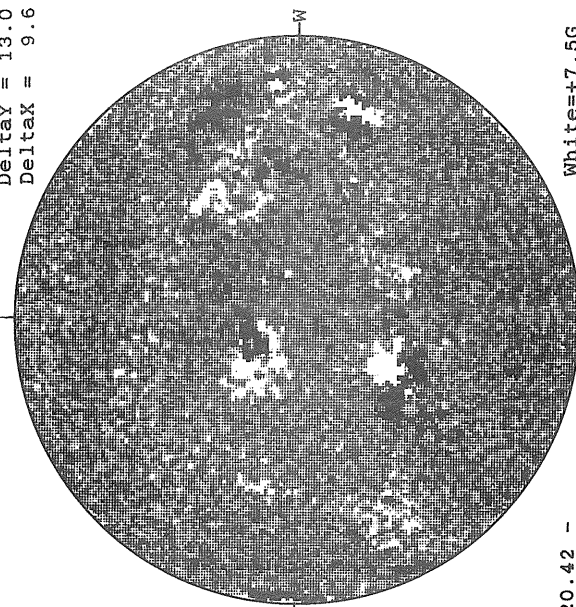
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

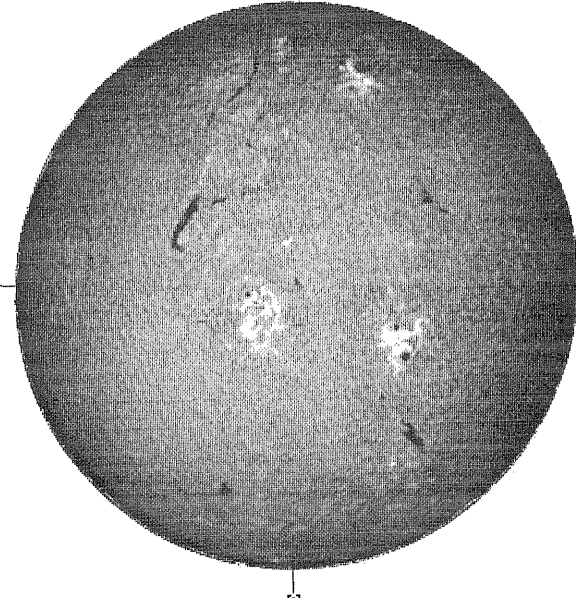
Deltax = 13.0
Deltay = 9.6



20.42 -
21.39 UT

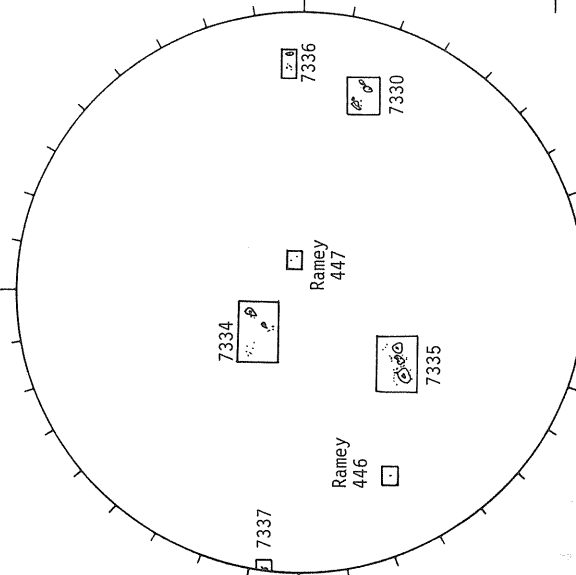
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



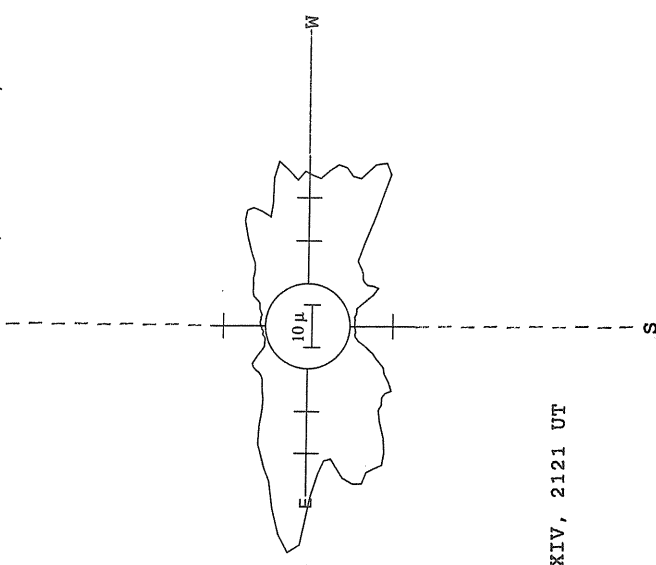
1937 UT

RAMEY SUNSPOT



1608 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

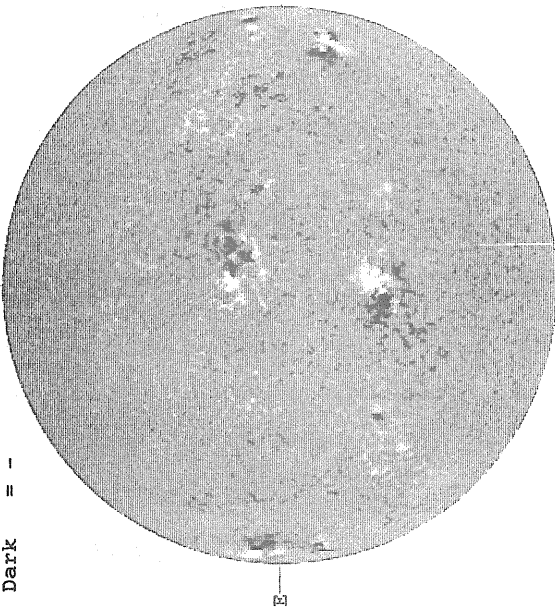


— FeXIV, 2121 UT

NOVEMBER 11, 1992 (P= 22.38, B₀ = 3.26, L₀ = 216.21)

KITT PEAK MAGNETOGRAM
N **5507A**

Bright = +
Dark = -



1612 UT

STANFORD MAGNETOGRAM

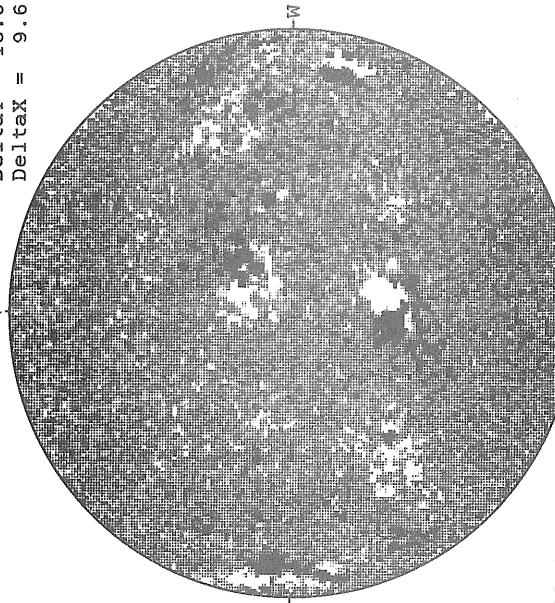
Solid = +
Dashed = -



1857 UT

MT. WILSON MAGNETOGRAM

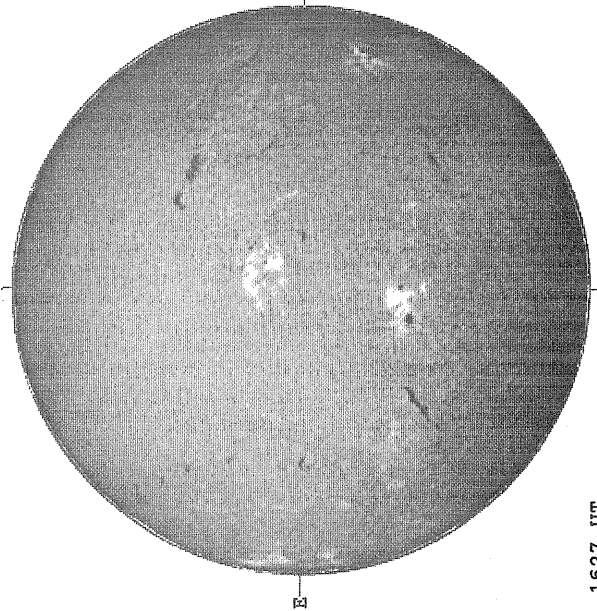
Delta λ = 13.0
Delta λ = 9.6



22.34 -
23.30 UT

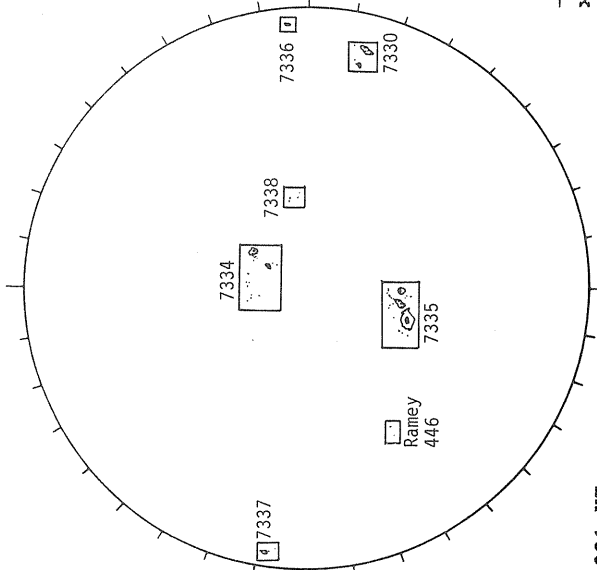
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



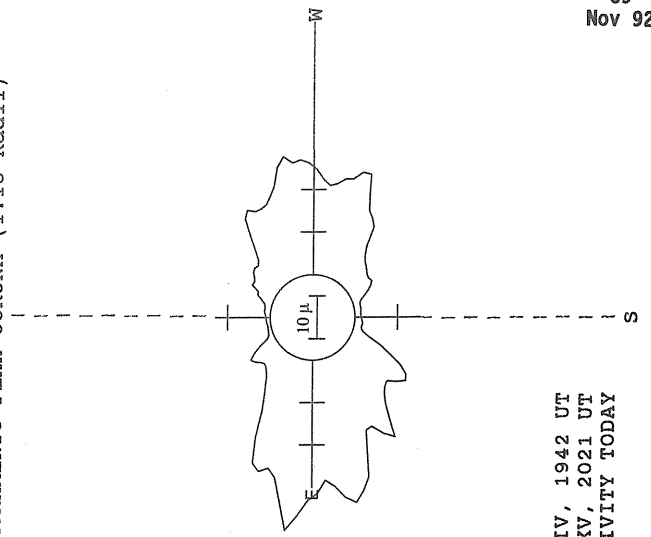
1627 UT

RAMEY SUNSPOT



1201 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

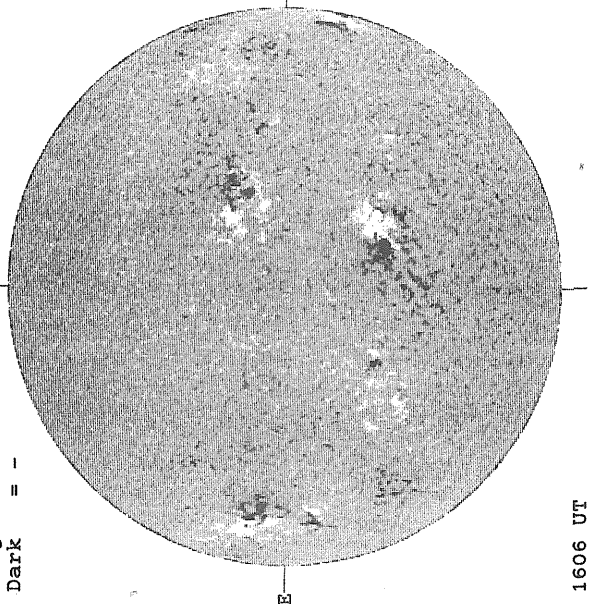


— FeXIV, 1942 UT
XXXX CA XV, 2021 UT
NO CA XV ACTIVITY TODAY

NOVEMBER 12, 1992 (P= 22.13, B₀ = 3.15, L₀ = 203.02)

KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



1606 UT

STANFORD MAGNETOGRAM

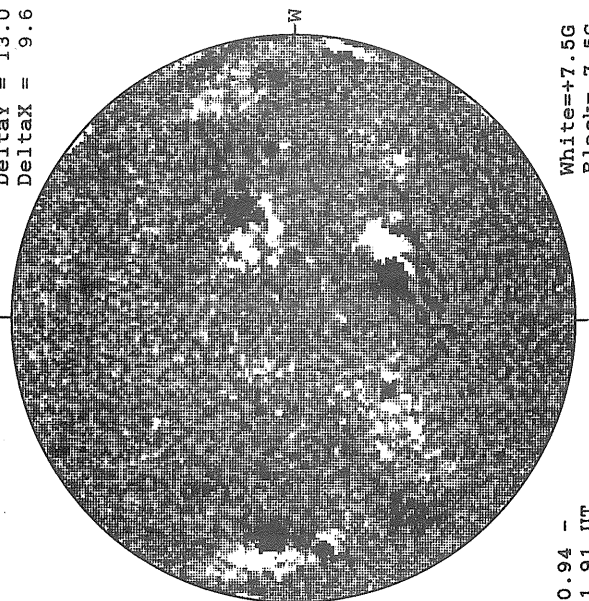
Solid = +
Dashed = -



1839 UT

MT. WILSON MAGNETOGRAM

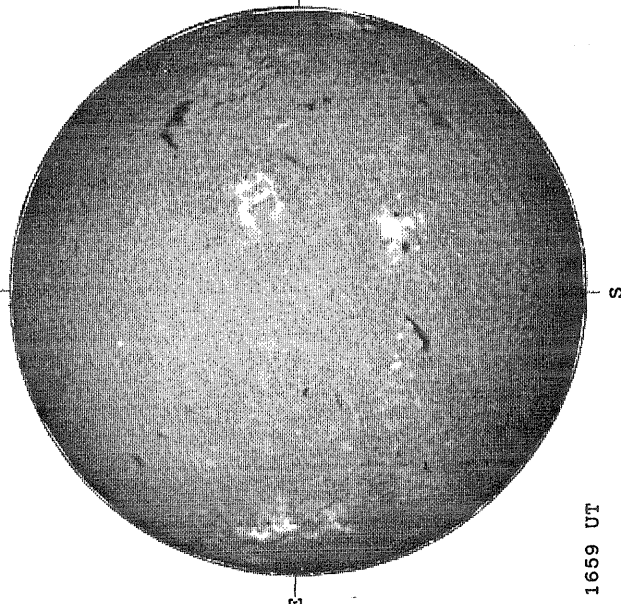
DeltaY = 13.0
DeltaX = 9.6



20.94 -
21.91 UT

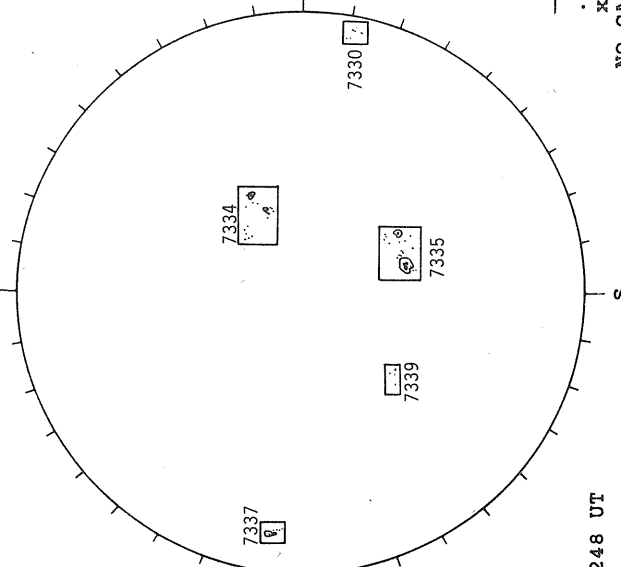
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



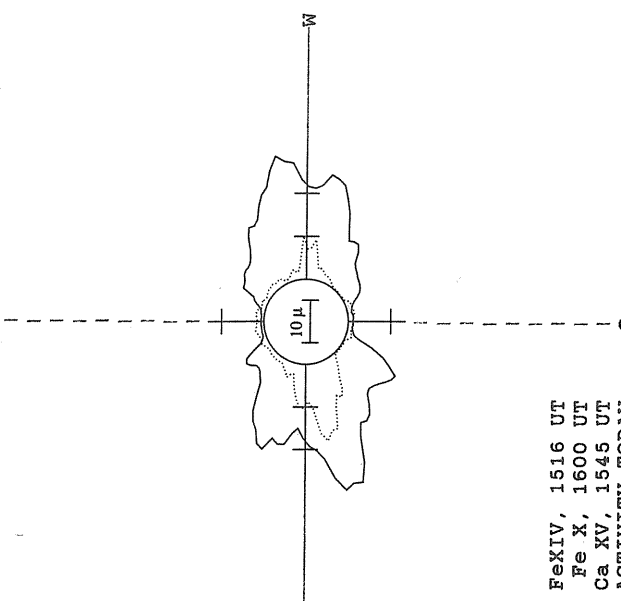
1659 UT

RAMEY SUNSPOT



1248 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

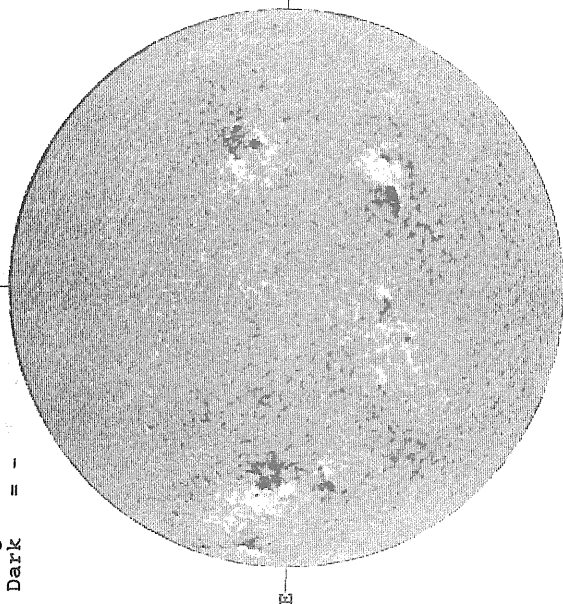


— FeXIV, 1516 UT
.... Fe X, 1600 UT
xxxx Ca XV, 1545 UT
NO CA XV ACTIVITY TODAY

NOVEMBER 13, 1992 (P = 21.88, B₀ = 3.03, L₀ = 189.84)

KITT PEAK MAGNETOGRAM
N **5507A**

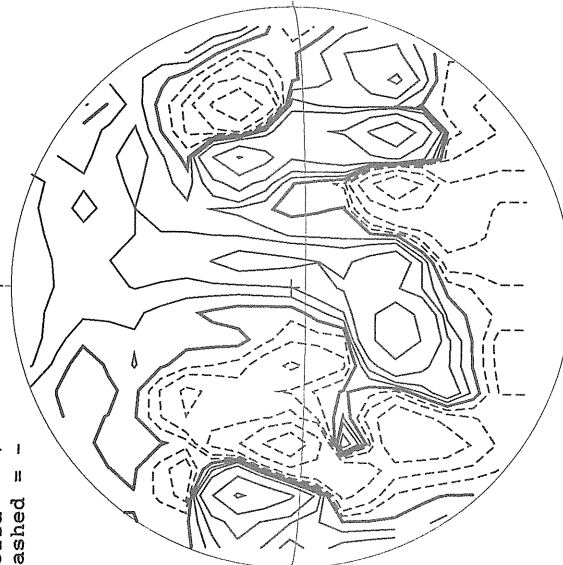
Bright = +
Dark = -



1606 UT

STANFORD MAGNETOGRAM

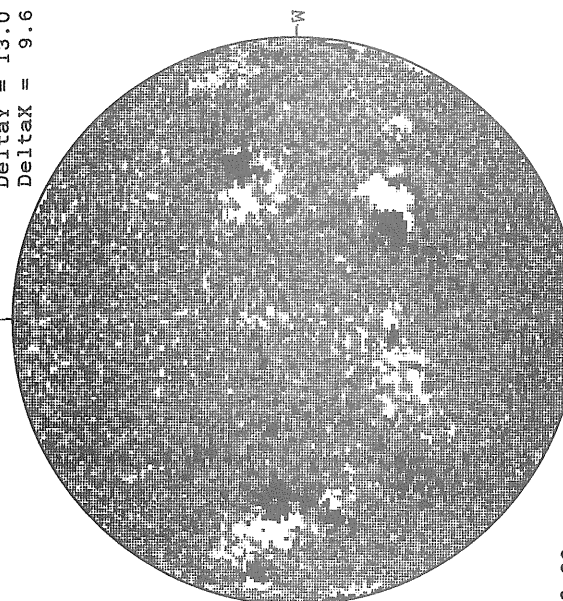
Solid = +
Dashed = -



2329 UT

MT. WILSON MAGNETOGRAM

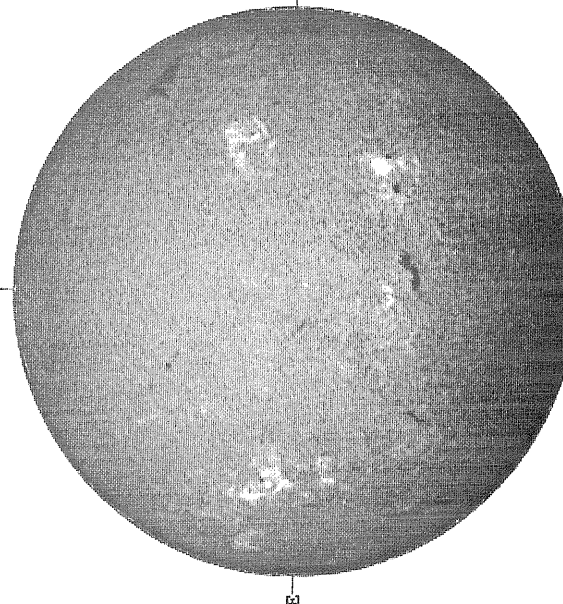
Delta_Y = 13.0
Delta_X = 9.6



16.88 -
17.84 UT

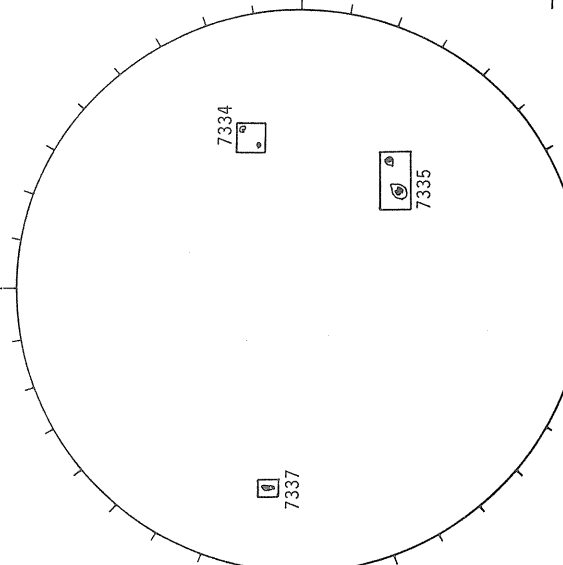
White = +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



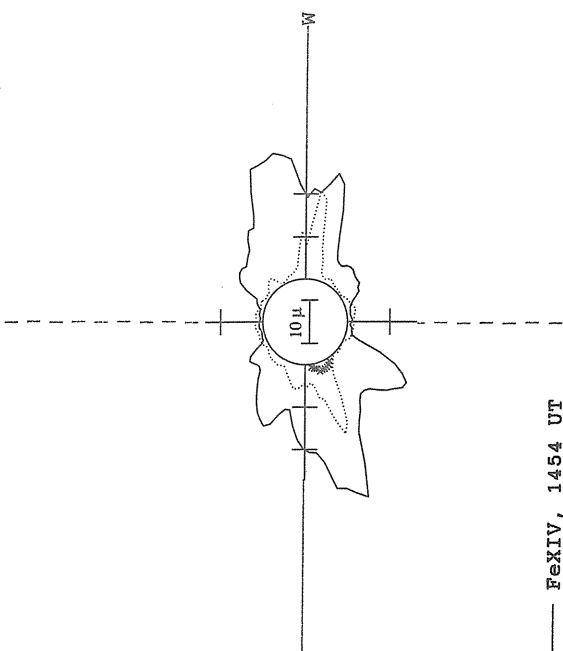
1709 UT

BOULDER SUNSPOT



1604 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

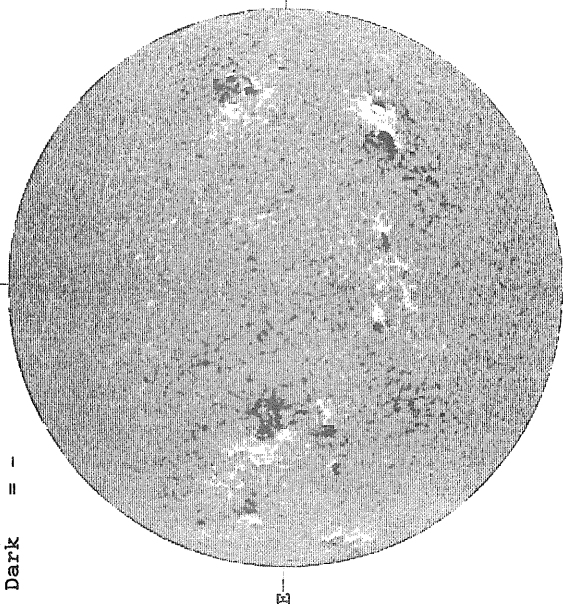


— FeXIV, 1454 UT
.... Fe X, 1534 UT
xxxxx Ca XV, 1520 UT

NOVEMBER 14, 1992 (P= 21.61, B₀ = 2.92, L₀ = 176.66)

KITT PEAK MAGNETOGRAM
N
5507A

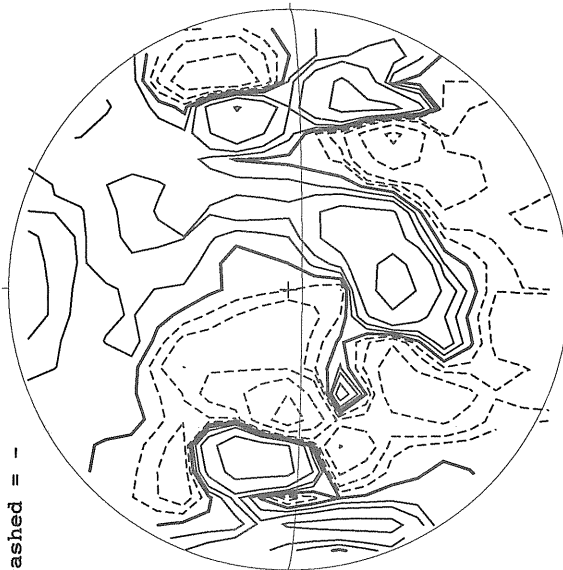
Bright = +
Dark = -



1637 UT

STANFORD MAGNETOGRAM
N

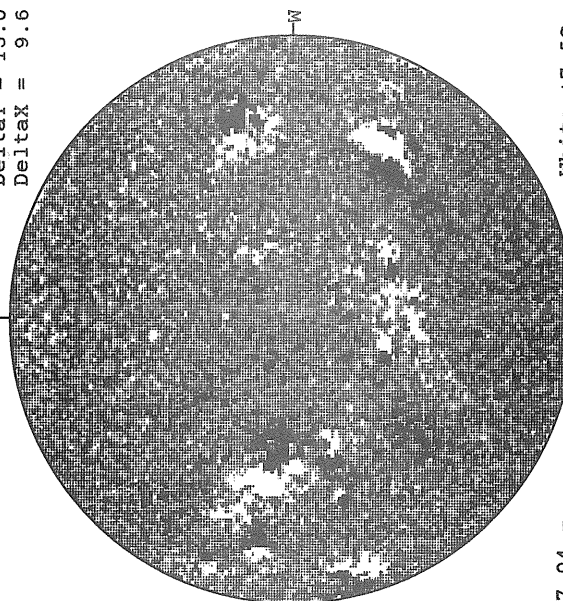
Solid = +
Dashed = -



1842 UT

MT. WILSON MAGNETOGRAM
N

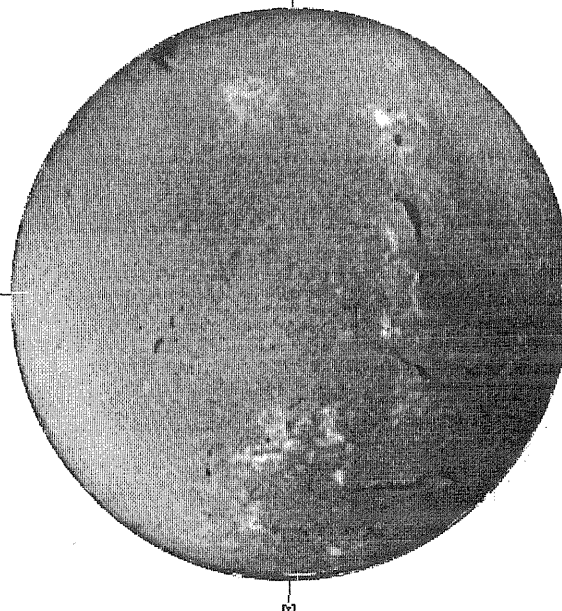
DeltaY = 13.0
DeltaX = 9.6



17.04 -
18.00 UT

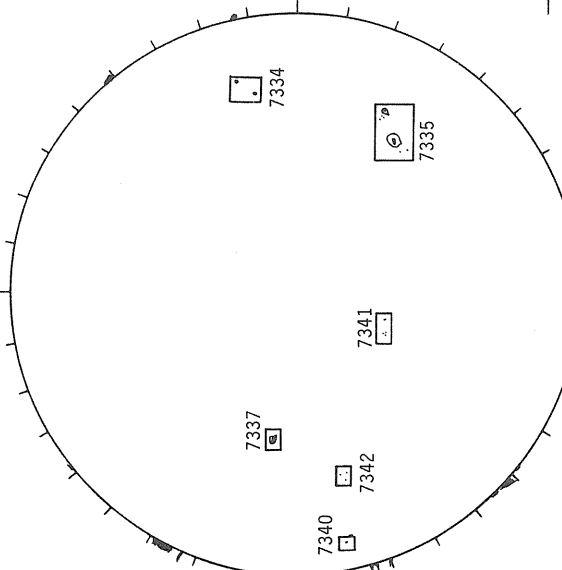
White=+7.5G
Black=-7.5G

BOULDER H-ALPHA



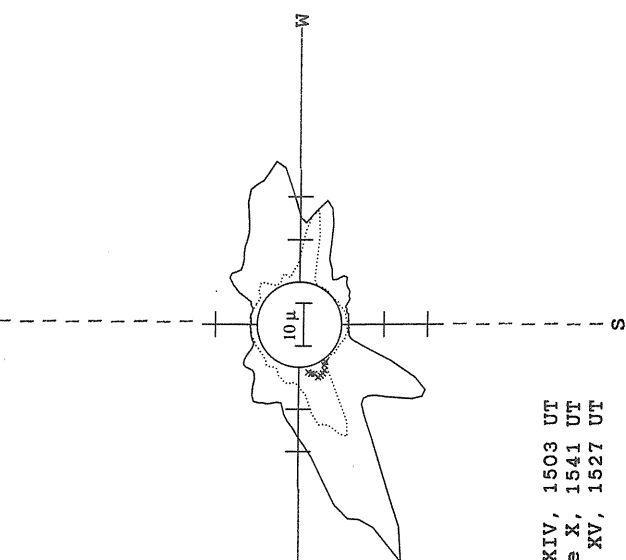
1601 UT

BOULDER SUNSPOT



1953 UT
1601 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)



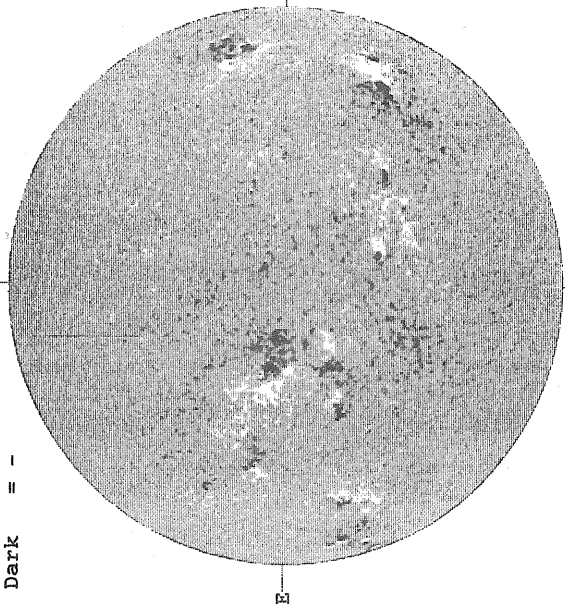
— Fe XIV, 1503 UT
.... Fe X, 1541 UT
xxxx Ca XV, 1527 UT

NOVEMBER 15, 1992 (P= 21.34, B₀ = 2.80, L₀ = 163.47)

KITT PEAK MAGNETOGRAM

5507A

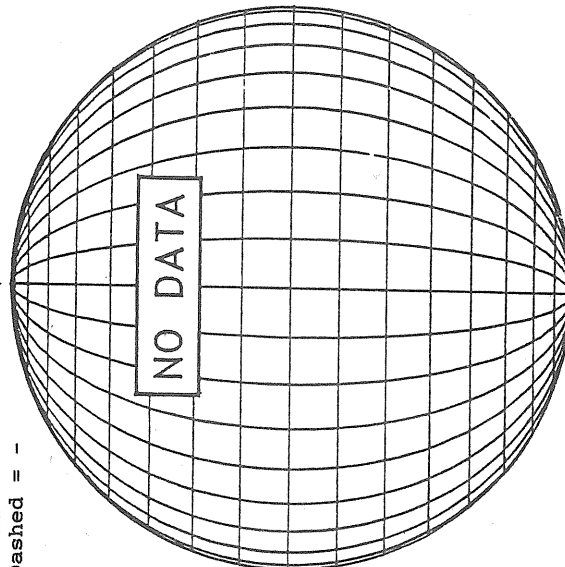
Bright = +
Dark = -



1614 UT

STANFORD MAGNETOGRAM

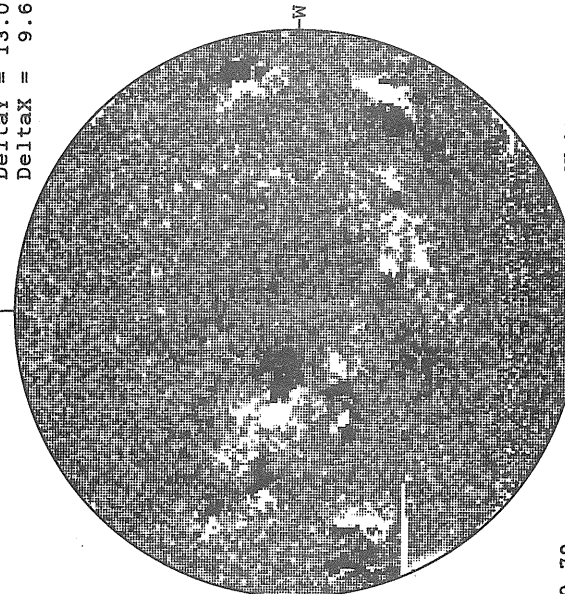
Solid = +
Dashed = -



19.72 -
20.68 UT

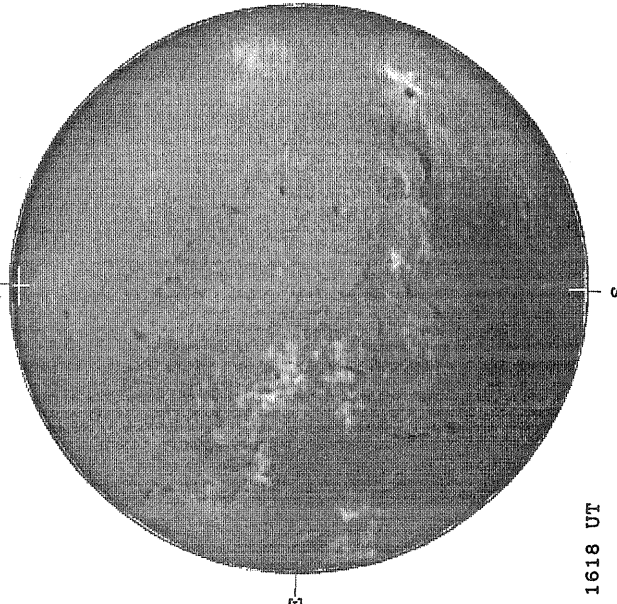
MT. WILSON MAGNETOGRAM

DeltaY = 13.0
DeltaX = 9.6



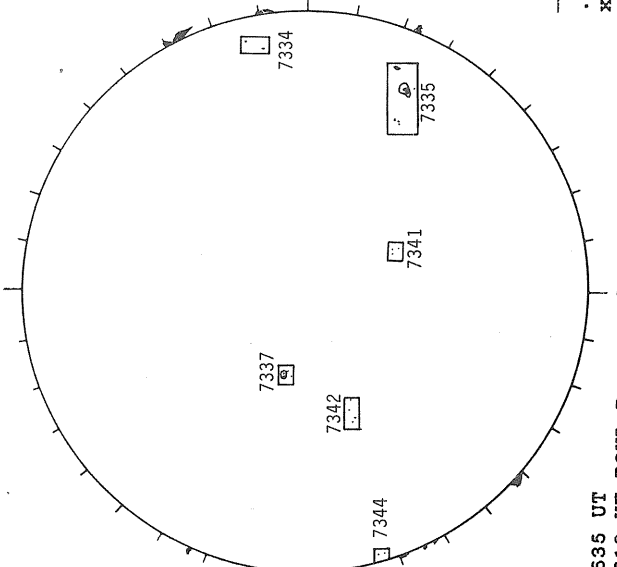
White=+7.5G
Black=-7.5G

BOULDER H-ALPHA



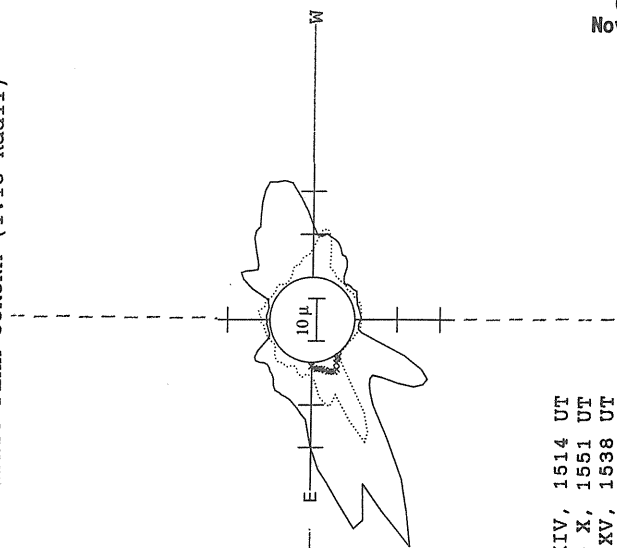
1618 UT

BOULDER SUNSPOT



1635 UT
1618 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)



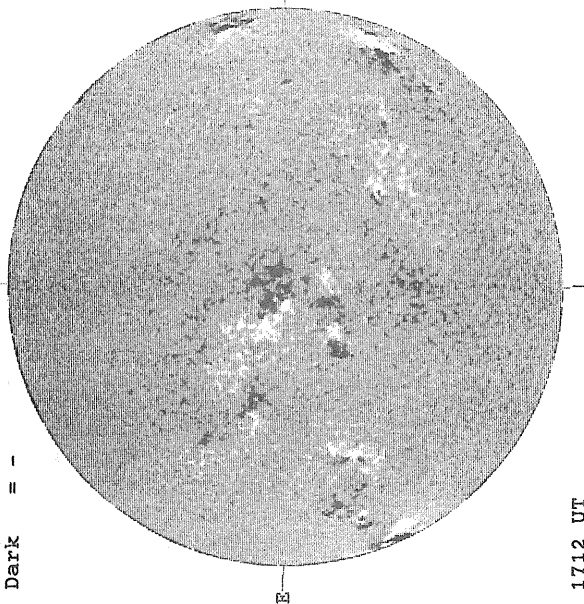
— FeXIV, 1514 UT
.... Fe X, 1551 UT
xxxx Ca XV, 1538 UT

64
Nov 92

NOVEMBER 16, 1992 (P= 21.06, B₀ = 2.68, L₀ = 150.29)

KITT PEAK MAGNETOGRAM
5507A

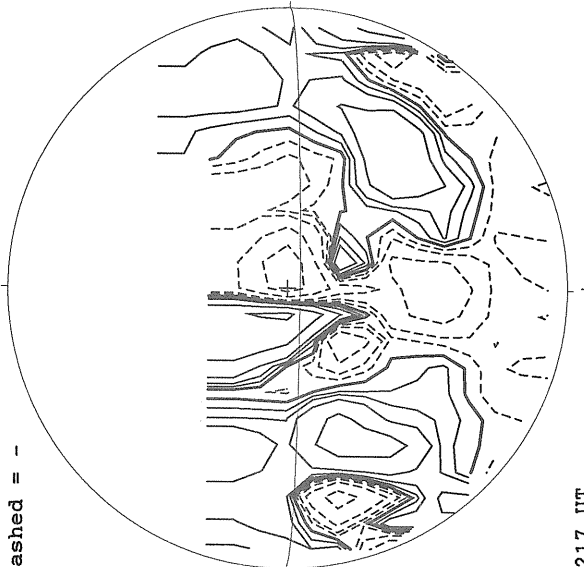
Bright = +
Dark = -



1712 UT

STANFORD MAGNETOGRAM

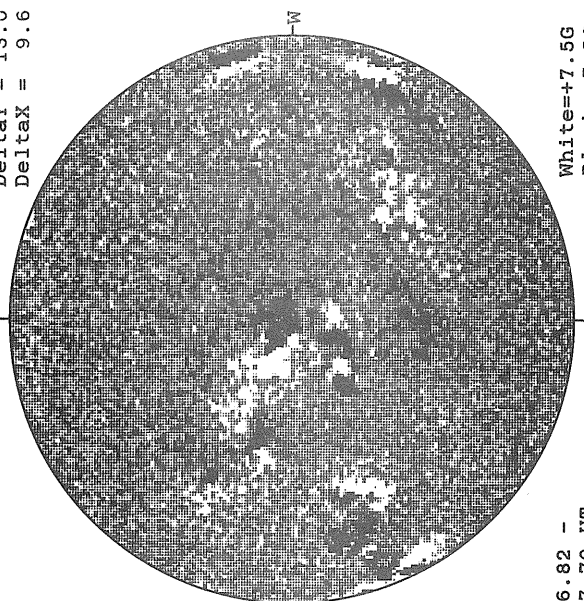
Solid = +
Dashed = -



2217 UT

MT. WILSON MAGNETOGRAM

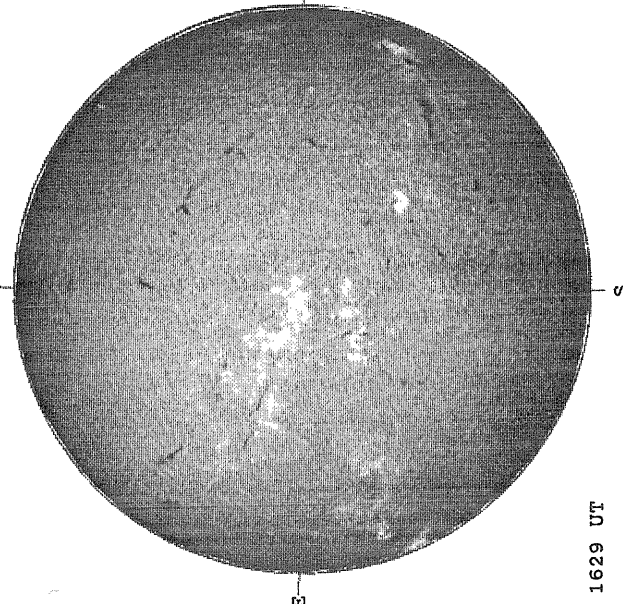
DeltaY = 13.0
DeltaX = 9.6



16.82 -
17.79 UT

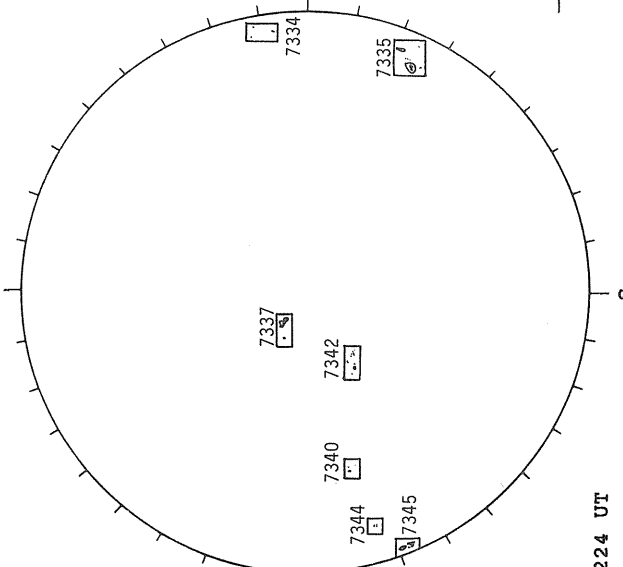
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



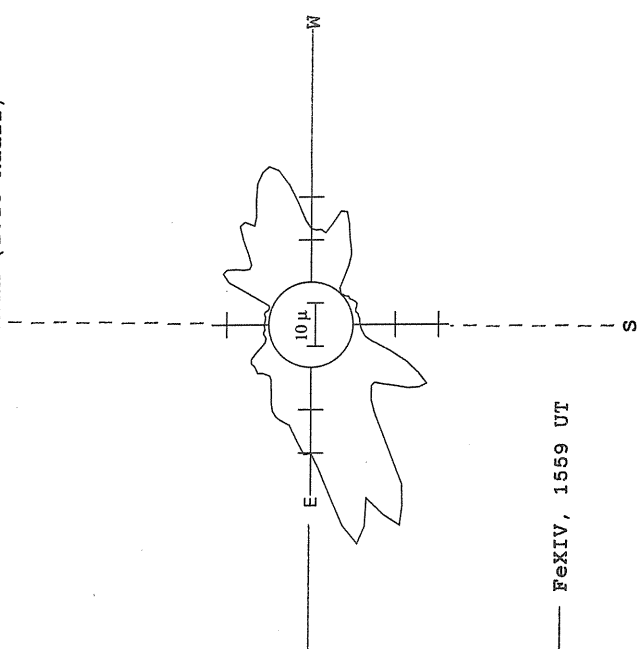
1629 UT

RAMEY SUNSPOT



1224 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

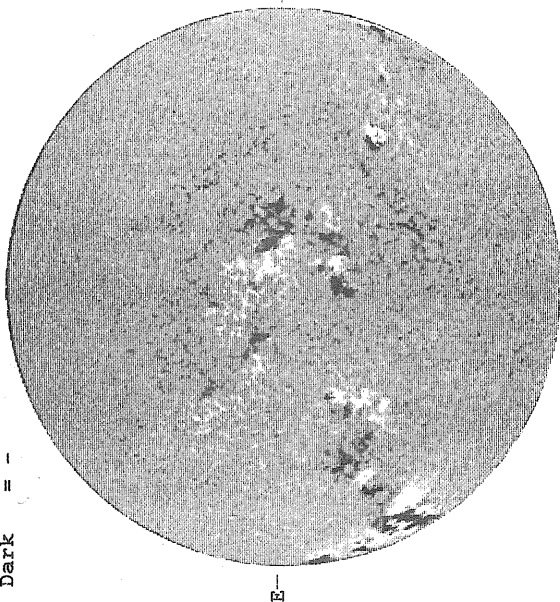


— FexIV, 1559 UT

NOVEMBER 17, 1992 (P= 20.77, B₀ = 2.56, L₀ = 137.11)

KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



1638 UT

STANFORD MAGNETOGRAM

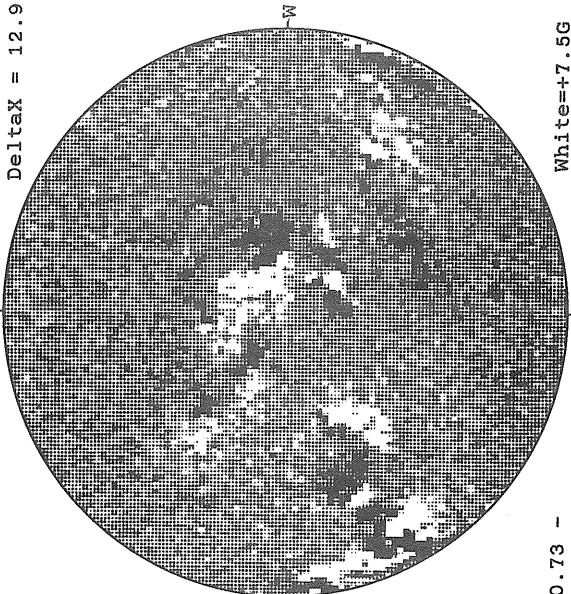
Solid = +
Dashed = -



1841 UT

MT. WILSON MAGNETOGRAM

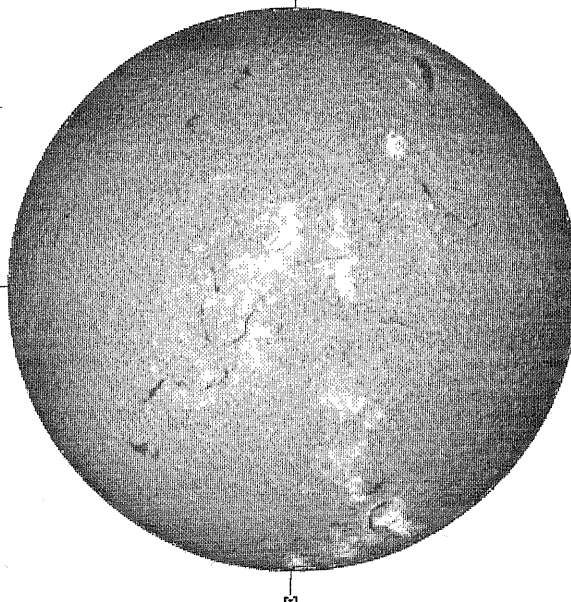
DeltaY = 20.2
DeltaX = 12.9



20.73 -
21.15 UT

White=+7.5G
Black=-7.5G

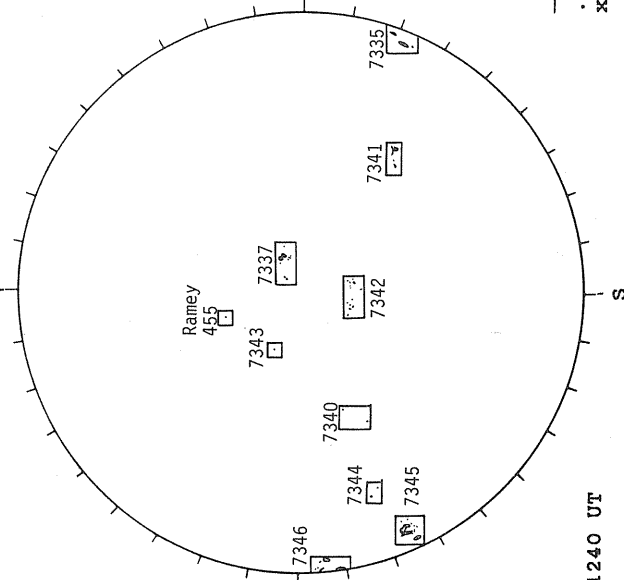
SACRAMENTO PEAK H-ALPHA



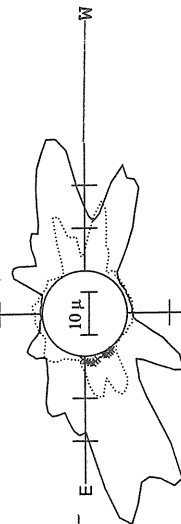
1631 UT

RAMEY SUNSPOT

SACRAMENTO PEAK CORONA (1.15 Radii)



1240 UT



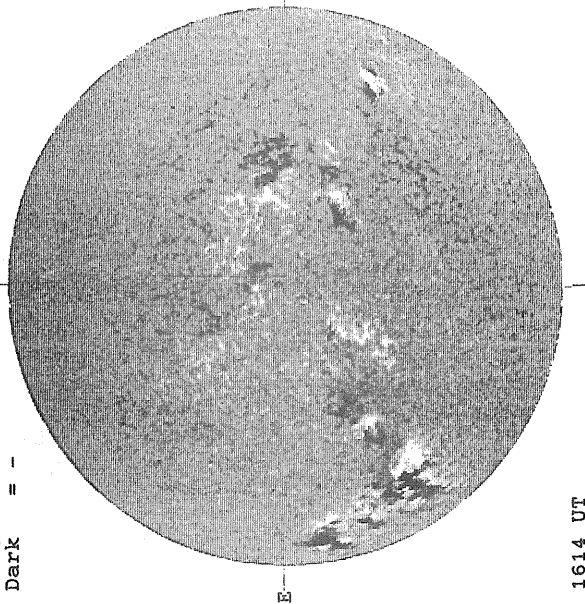
— FeXIV, 1515 UT
.... Fe X, 1600 UT
xxxx Ca XV, 1550 UT

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Nov 92

NOVEMBER 18, 1992 (P= 20.47, B₀ = 2.44, L₀ = 123.93)

KITT PEAK MAGNETOGRAM
N
5507A

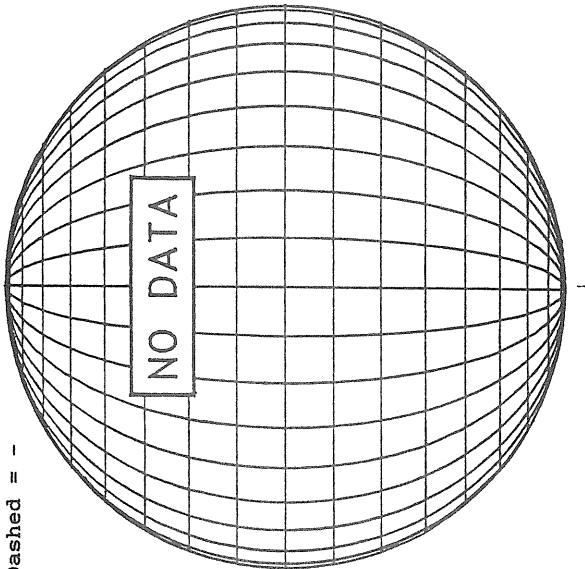
Bright = +
Dark = -



1614 UT

STANFORD MAGNETOGRAM
N

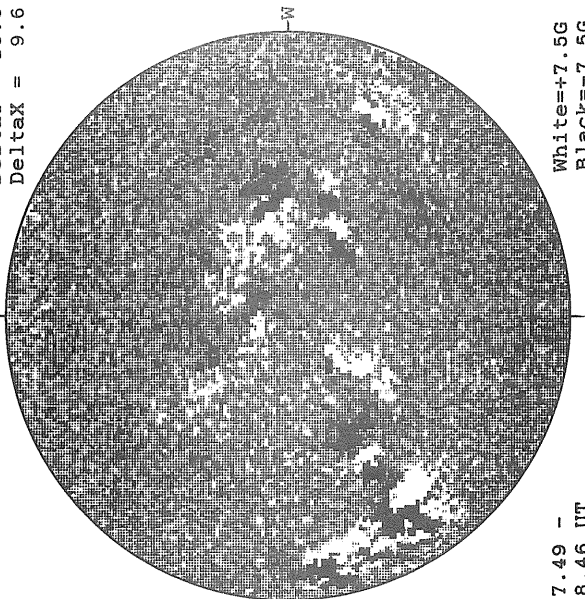
Solid = +
Dashed = -



17.49 -
18.46 UT

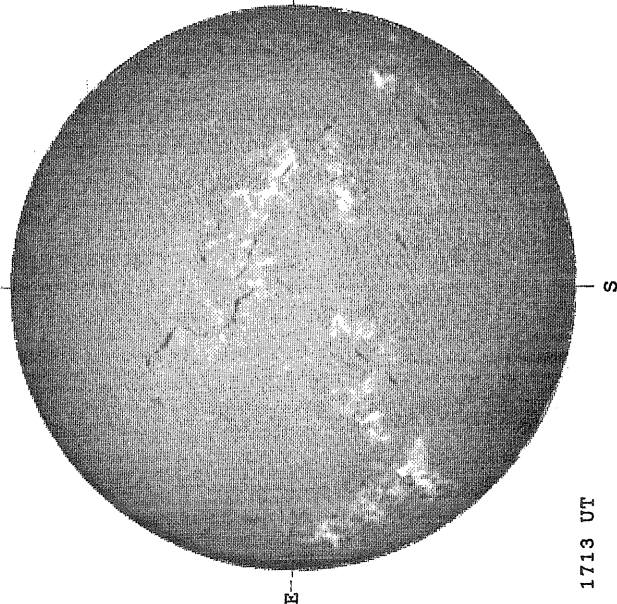
MT. WILSON MAGNETOGRAM
N

DeltaY = 13.0
DeltaX = 9.6



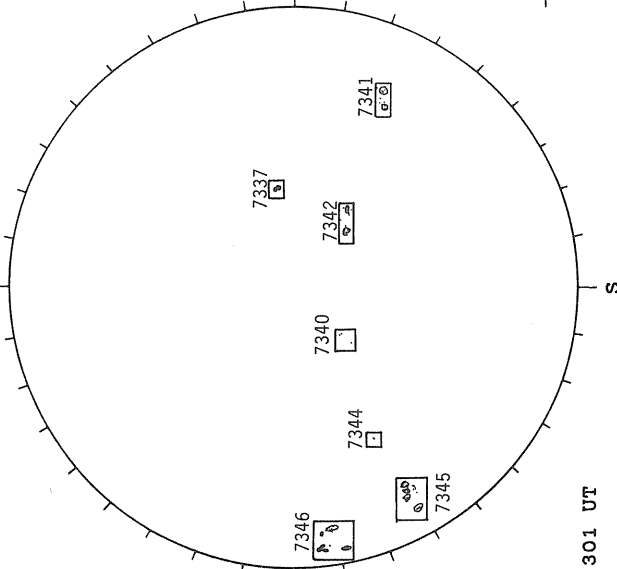
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



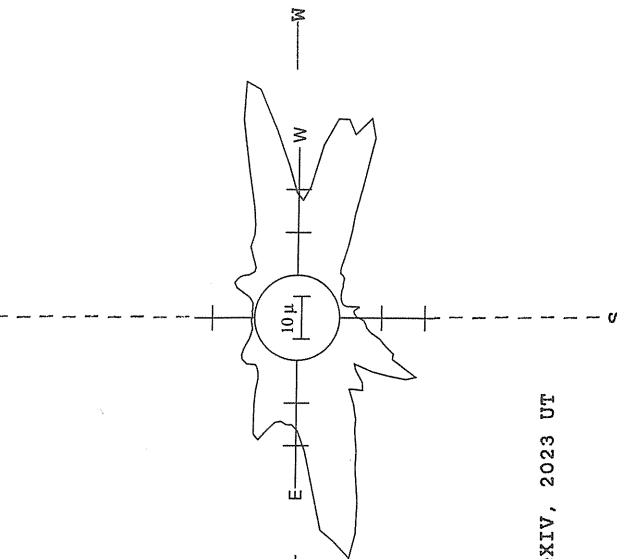
1713 UT

RAMEY SUNSPOT



1301 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

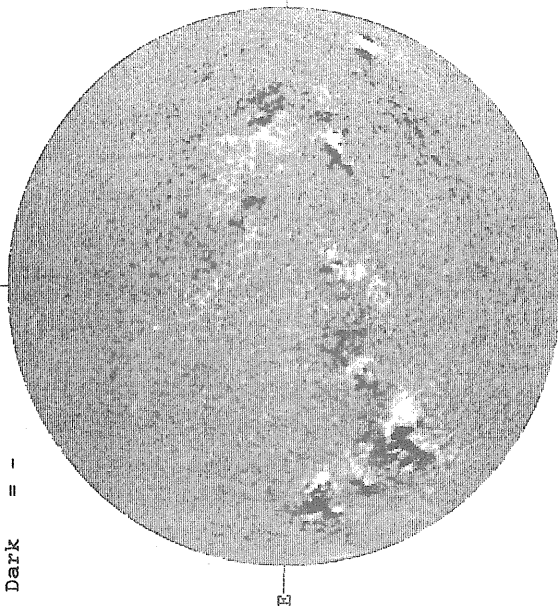


FexIV, 2023 UT

NOVEMBER 19, 1992 (P= 20.17, B₀ = 2.32, L₀ = 110.74)

KITT PEAK MAGNETOGRAM
5507A

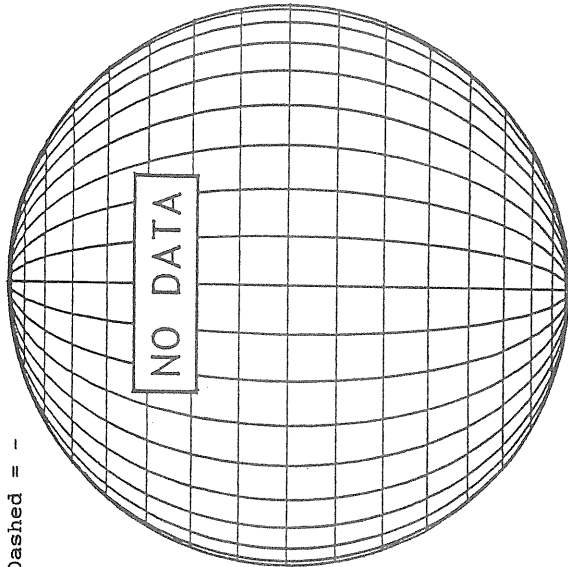
Bright = +
Dark = -



1610 UT

STANFORD MAGNETOGRAM

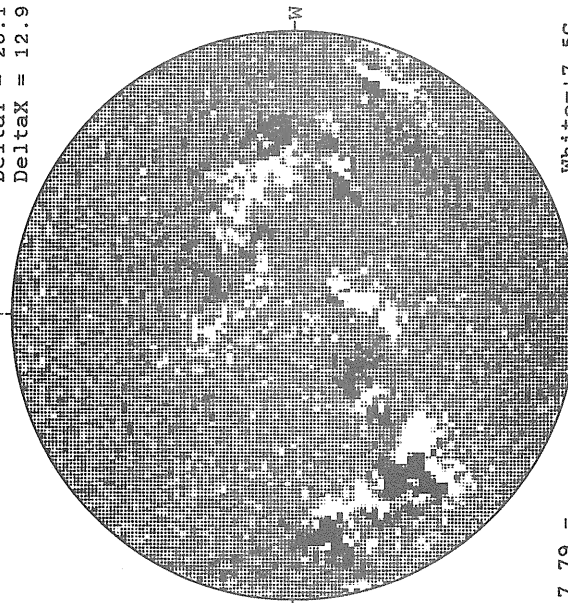
Solid = +
Dashed = -



17.79 -
18.21 UT

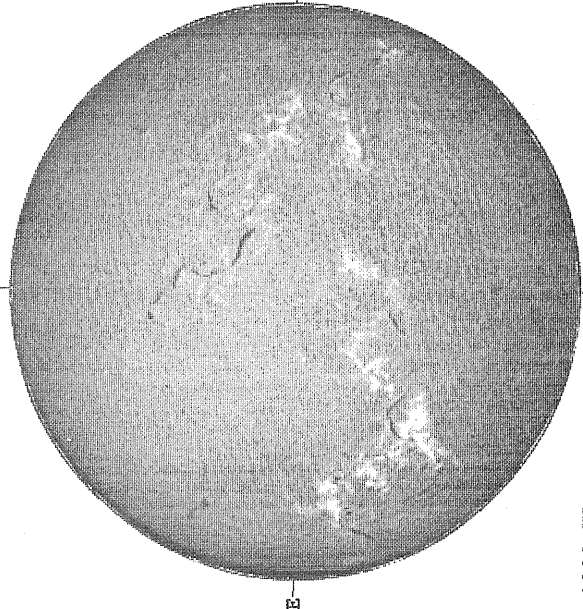
MT. WILSON MAGNETOGRAM

Delta_y = 20.1
Delta_x = 12.9



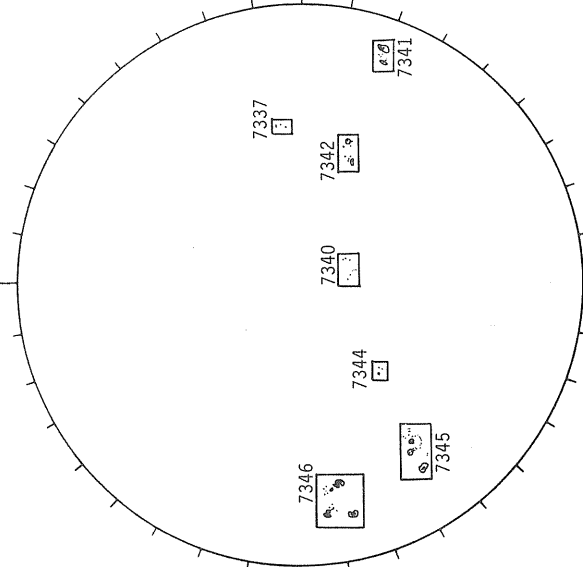
White = +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



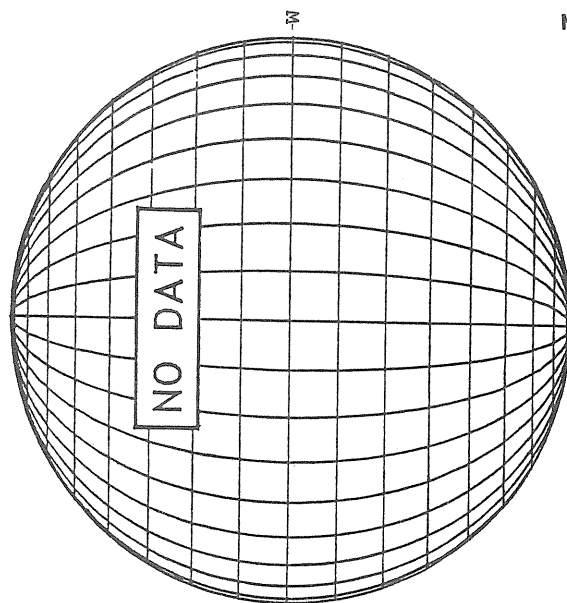
1920 UT

RAMEY SUNSPOT



1328 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

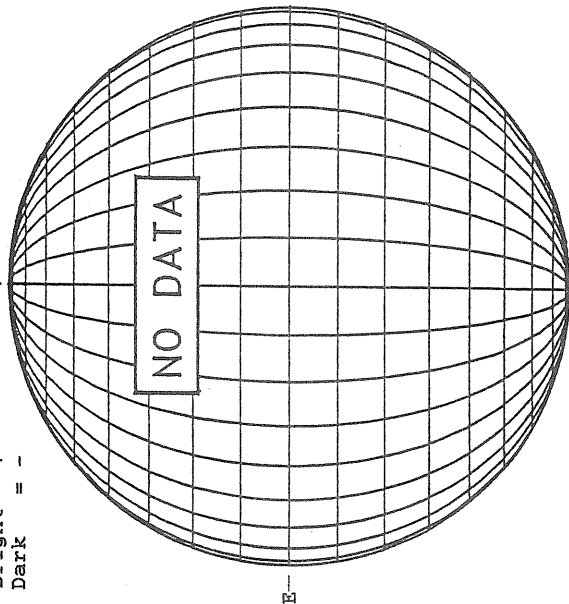


NO DATA

NOVEMBER 20, 1992 (P= 19.86, B₀ = 2.20, L₀ = 97.56)

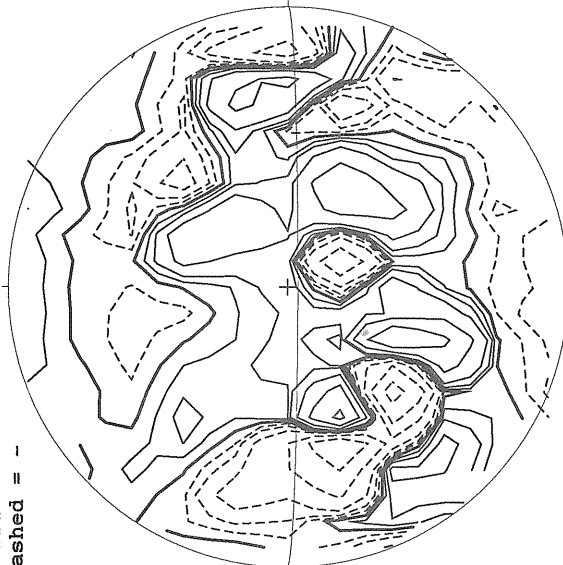
KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



STANFORD MAGNETOGRAM

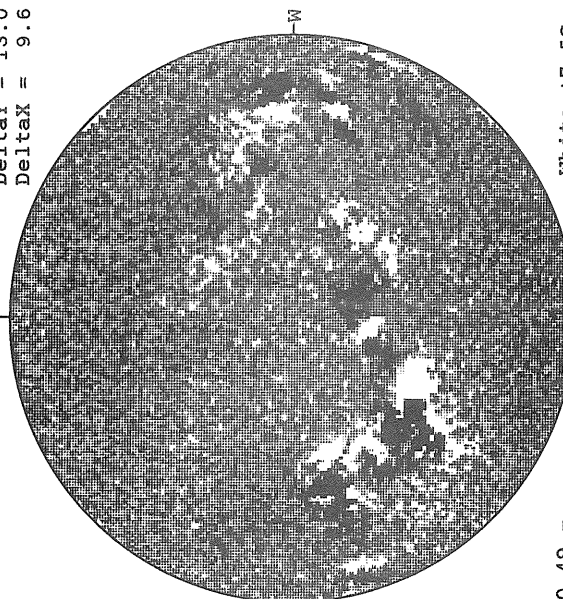
Solid = +
Dashed = -



2238 UT

MT. WILSON MAGNETOGRAM

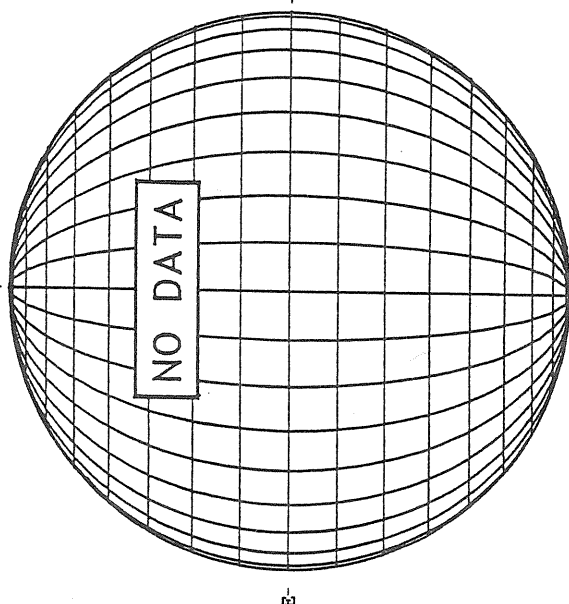
DeltaY = 13.0
DeltaX = 9.6



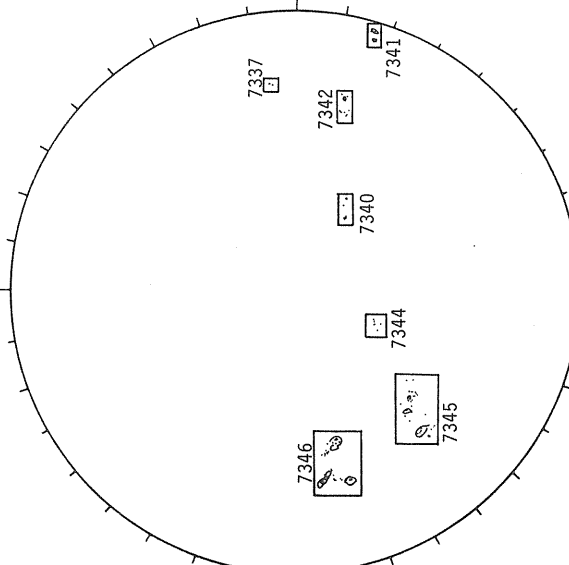
20.49 -
21.45 UT

White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA

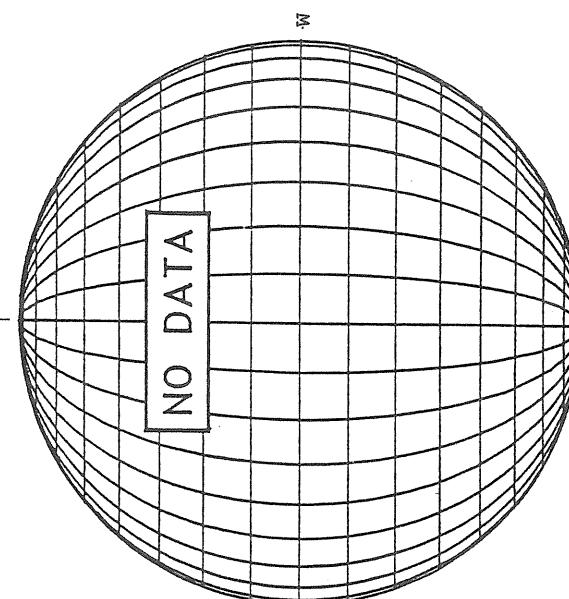


RAMEY SUNSPOT



1300 UT

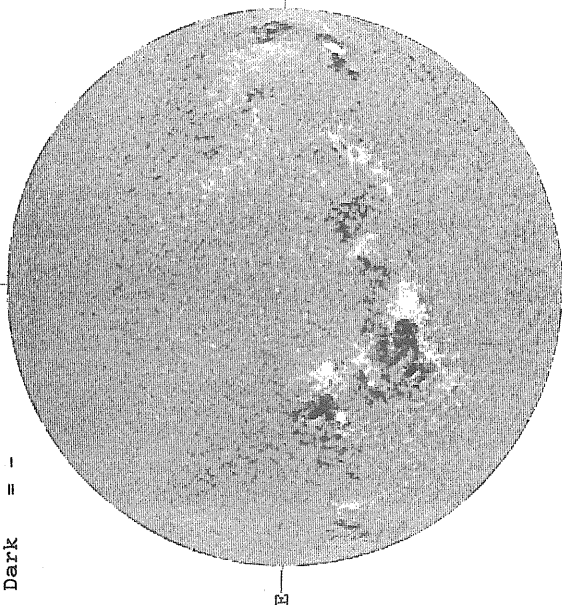
SACRAMENTO PEAK CORONA (1.15 Radii)



NOVEMBER 21, 1992 (P = 19.54, B₀ = 2.08 L₀ = 84.38)

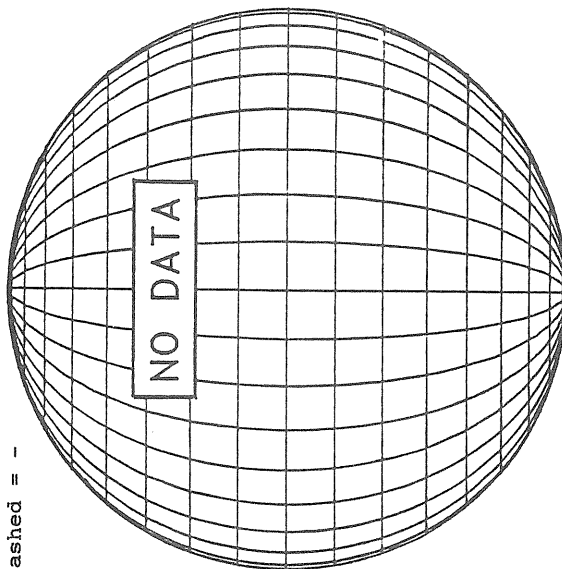
KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



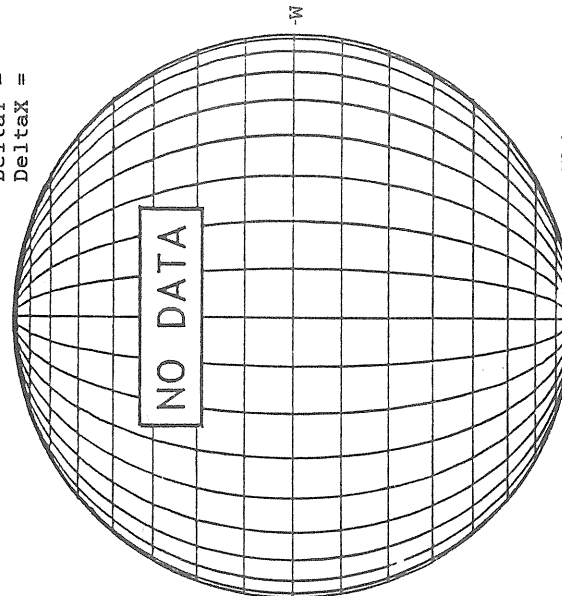
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



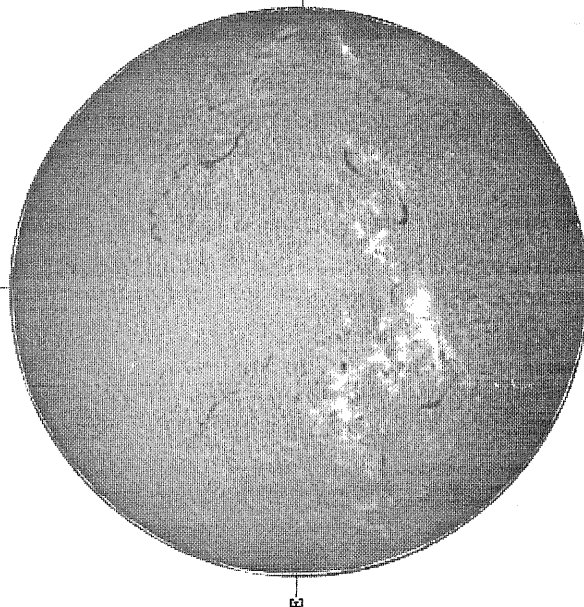
MT. WILSON MAGNETOGRAM

Delta Y =
Delta X =

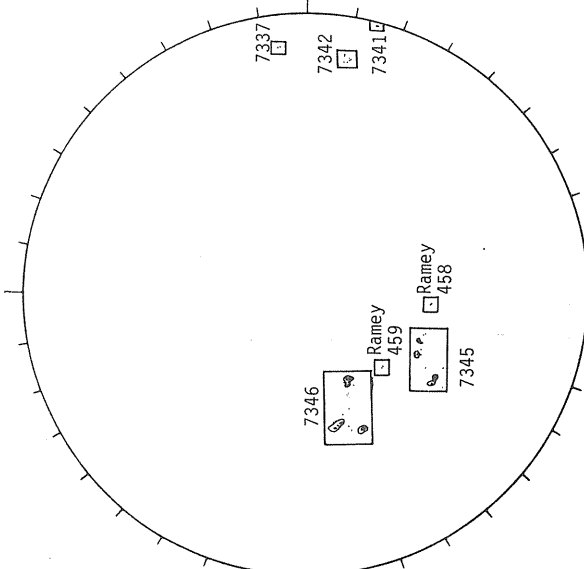


White = +7.5G
Black = -7.5G

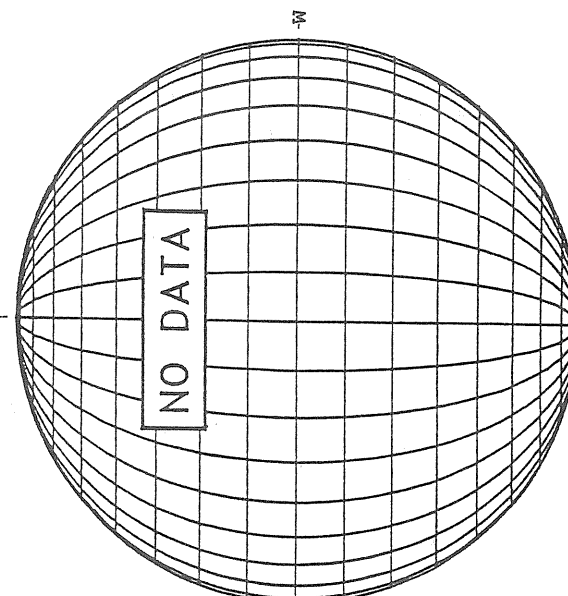
SACRAMENTO PEAK H-ALPHA



RAMEY SUNSPOT



SACRAMENTO PEAK CORONA (1.15 Radii)



2002 UT

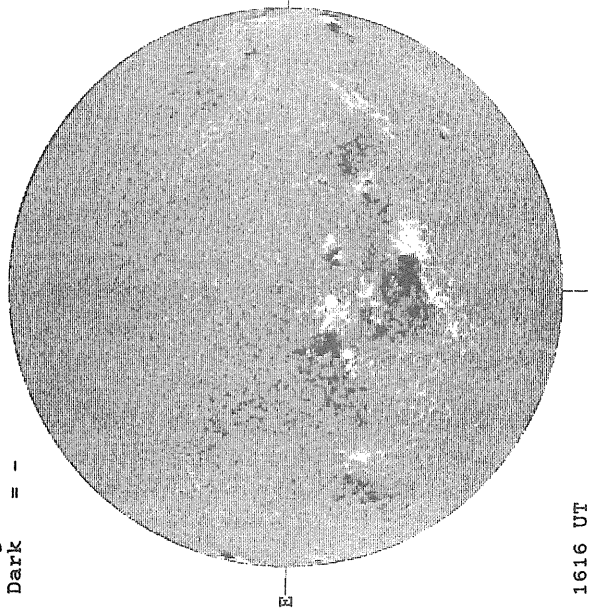
1303 UT

70
Nov 92

NOVEMBER 22, 1992 (P= 19.22, B₀ = 1.96, L₀ = 71.20)

KITT PEAK MAGNETOGRAM
5507A

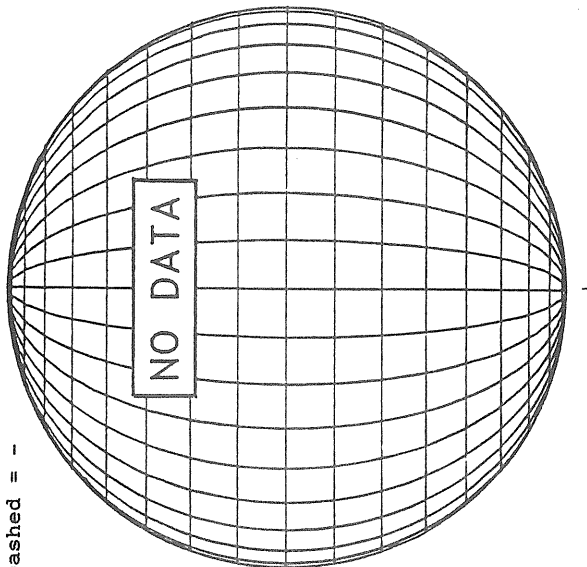
Bright = +
Dark = -



1616 UT

STANFORD MAGNETOGRAM

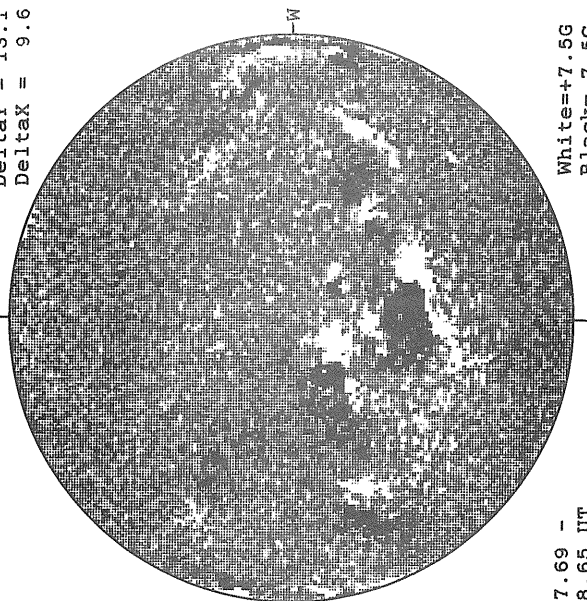
Solid = +
Dashed = -



17.69 -
18.65 UT

MT. WILSON MAGNETOGRAM

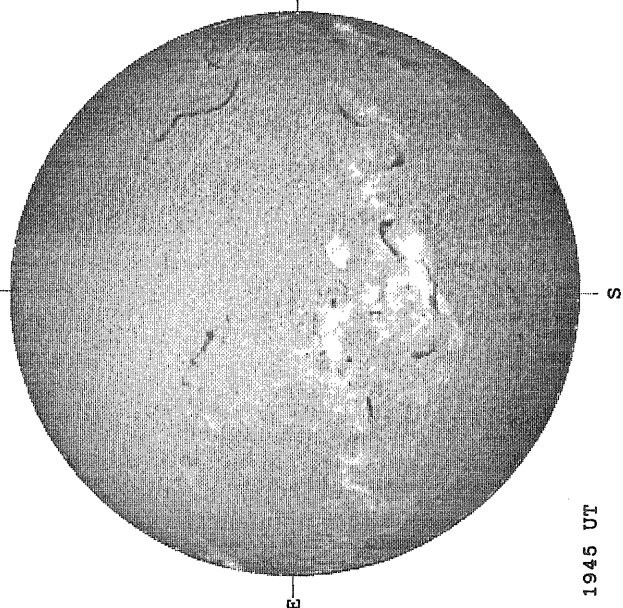
DeltaY = 13.1
DeltaX = 9.6



17.69 -
18.65 UT

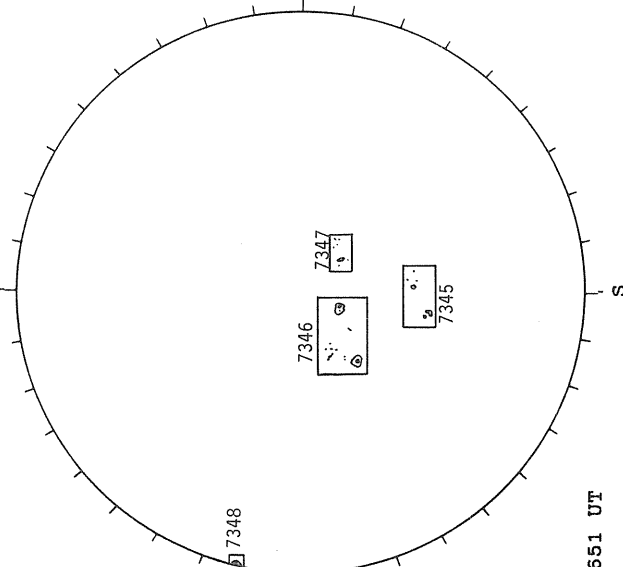
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



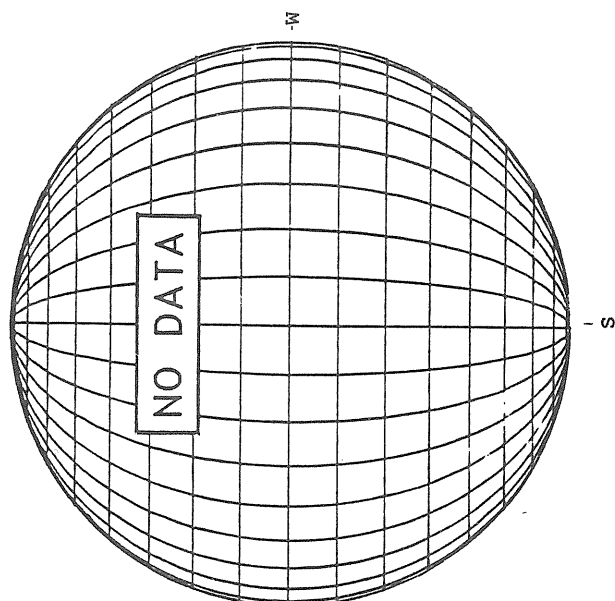
1945 UT

BOULDER SUNSPOT



1651 UT

SACRAMENTO PEAK CORONA (1.15 Radii)



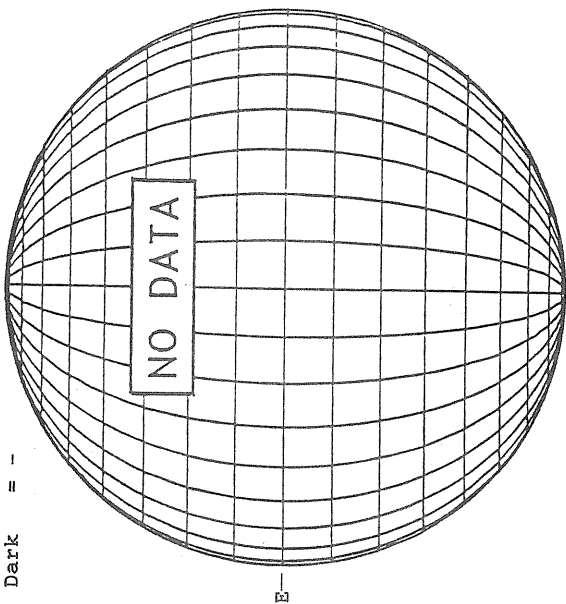
17.69 -
18.65 UT

White=+7.5G
Black=-7.5G

NOVEMBER 23, 1992 (P= 18.89, B₀ = 1.84, L₀ = 58.02)

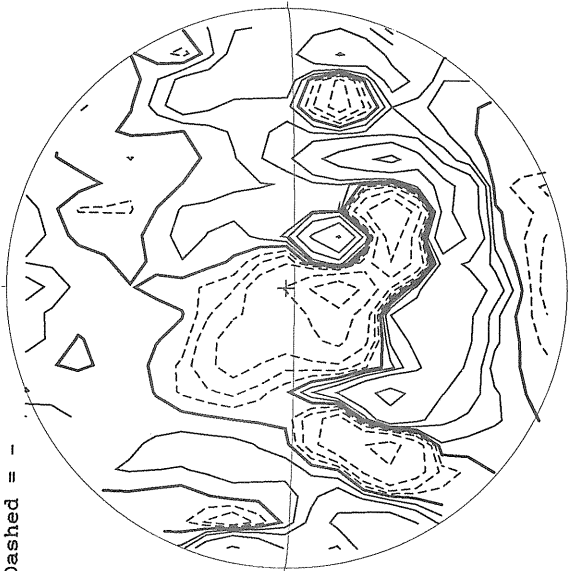
KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



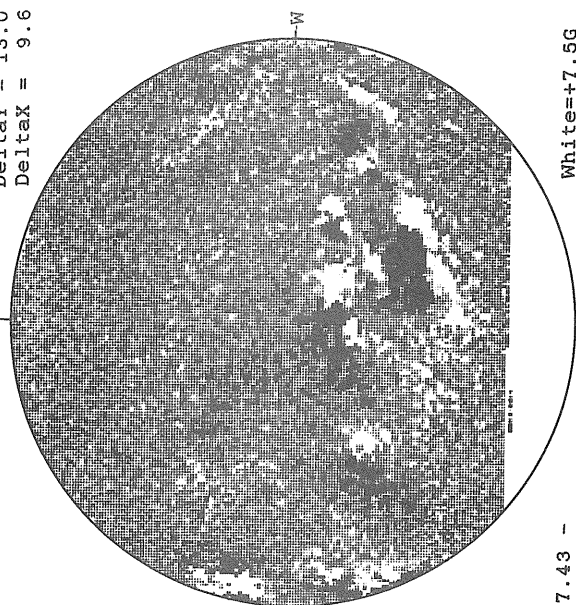
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

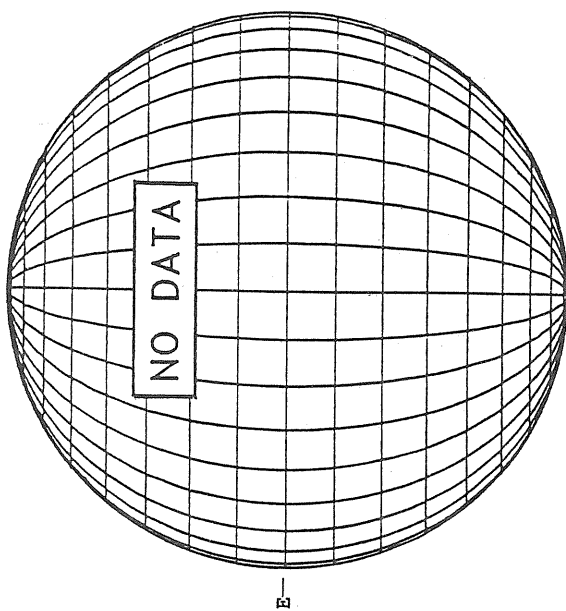
Delta_Y = 13.0
Delta_X = 9.6



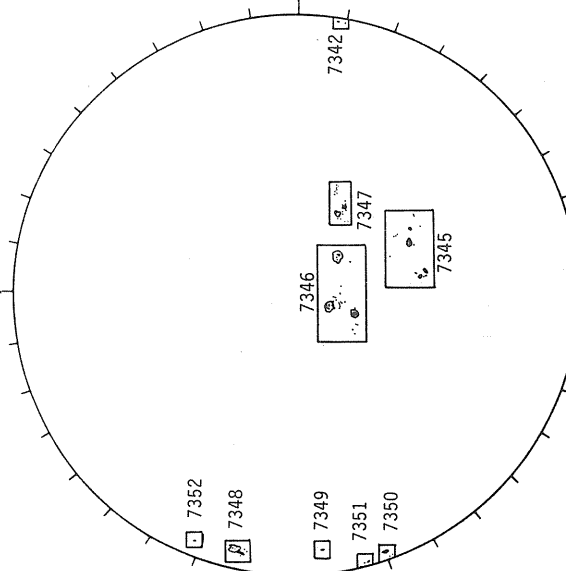
17.43 -
18.33 UT

White=+7.5G
Black=-7.5G

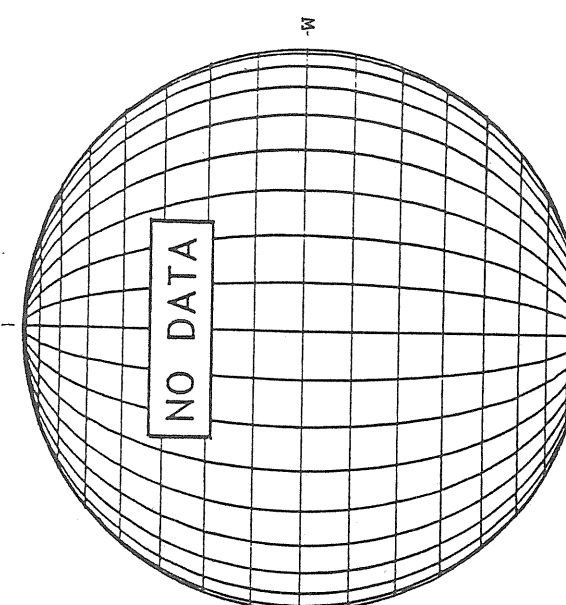
SACRAMENTO PEAK H-ALPHA



RAMEY SUNSPOT



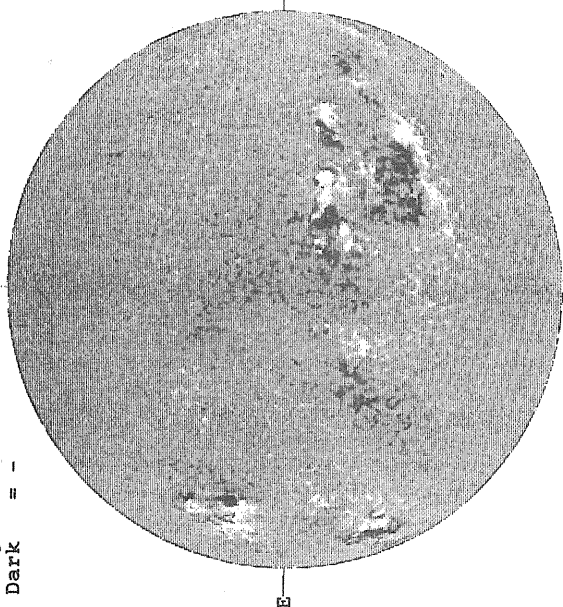
SACRAMENTO PEAK CORONA (1.15 Radii)



NOVEMBER 24, 1992 (P= 18.55 B₀ = 1.71, L₀ = 44.84)

KITT PEAK MAGNETOGRAM
5607A

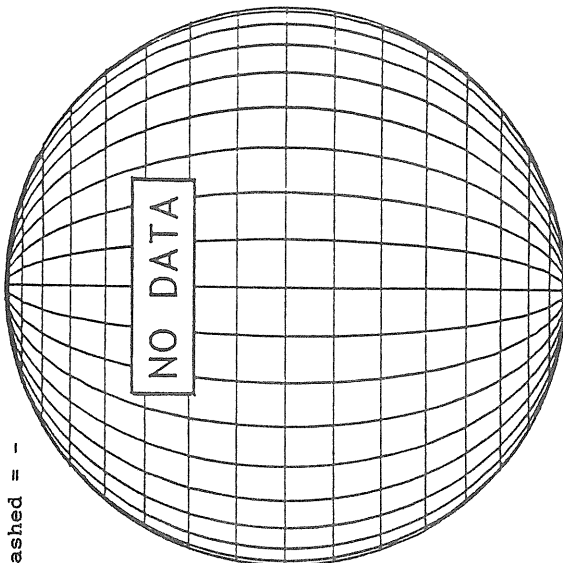
Bright = +
Dark = -



1623 UT

STANFORD MAGNETOGRAM

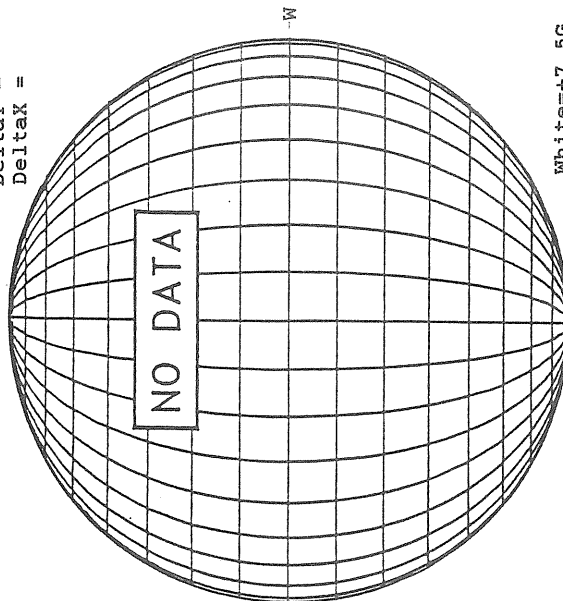
Solid = +
Dashed = -



NO DATA

MT. WILSON MAGNETOGRAM

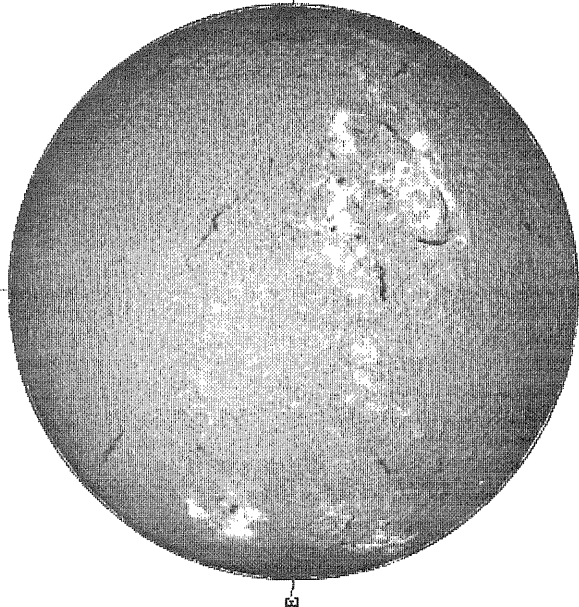
DeltaY =
DeltaX =



NO DATA

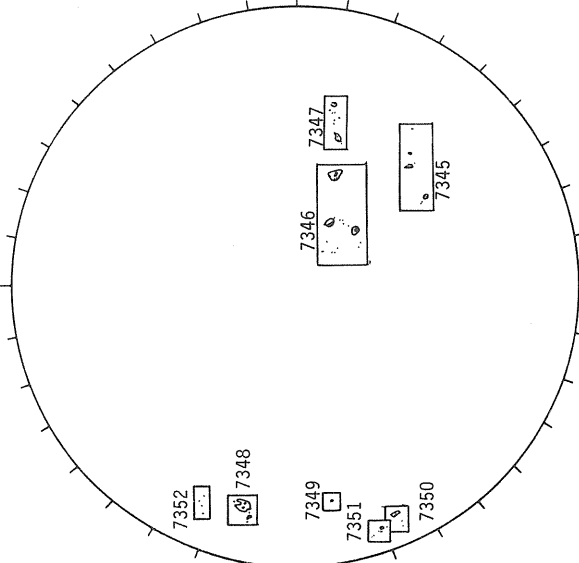
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



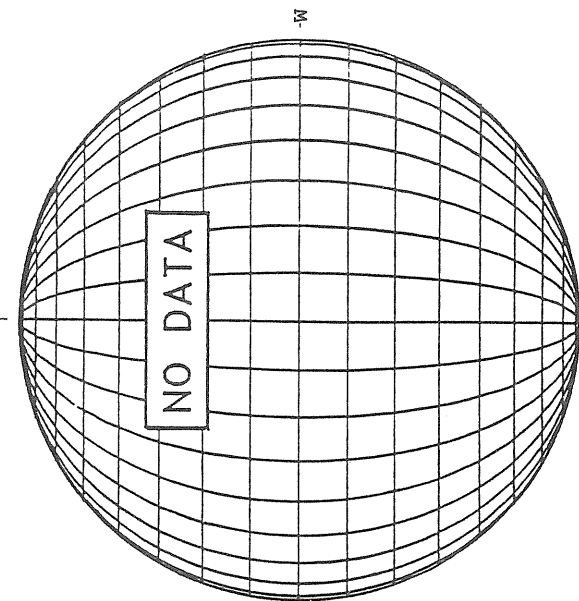
1723 UT

RAMEY SUNSPOT



1730 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

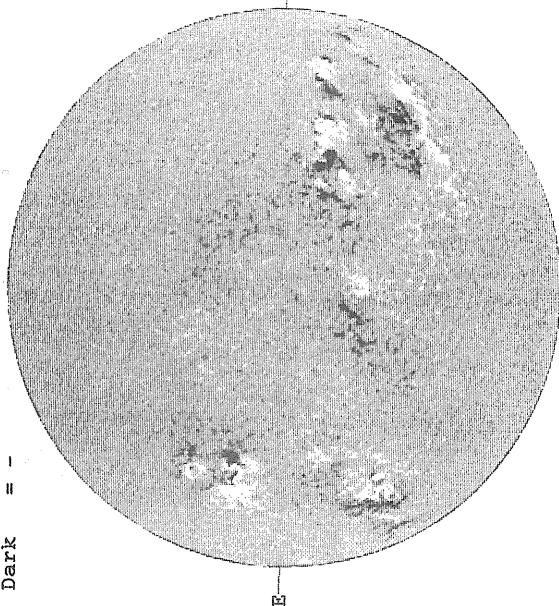


NO DATA

NOVEMBER 25, 1992 (P= 18.20 B₀ = 1.59, L₀ = 31.66)

KITT PEAK MAGNETOGRAM
5507A

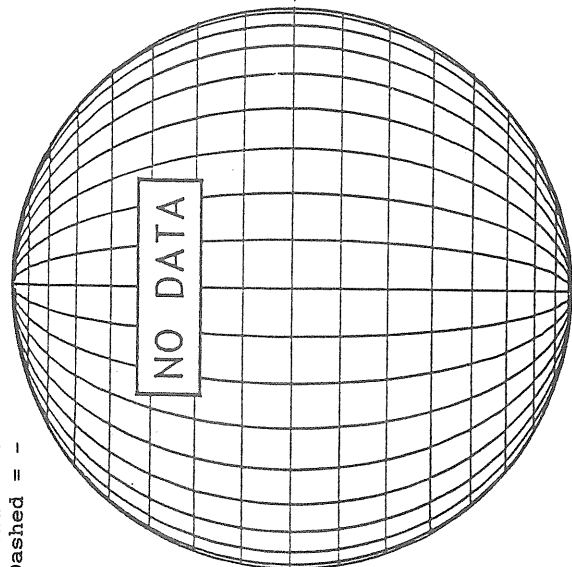
Bright = +
Dark = -



1614 UT

STANFORD MAGNETOGRAM

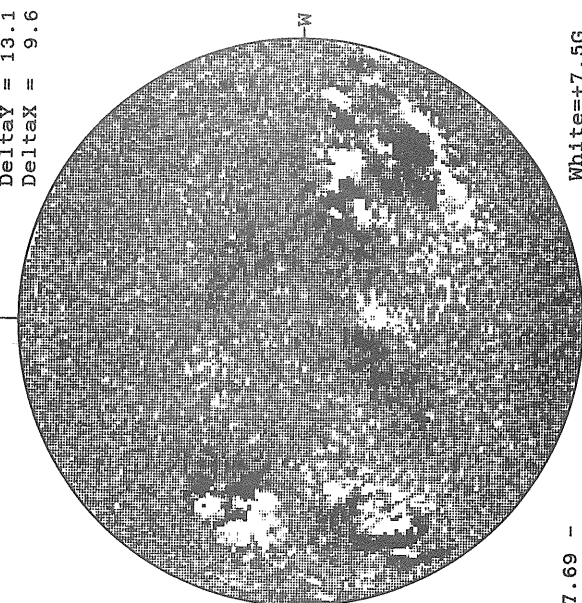
Solid = +
Dashed = -



17.69 -
18.66 UT

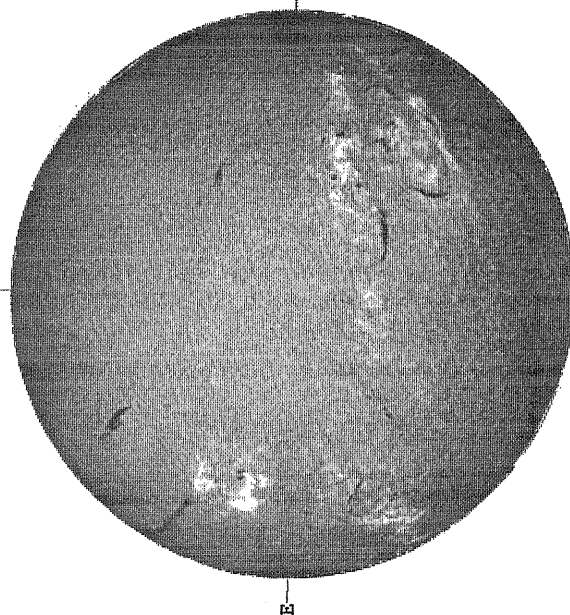
MT. WILSON MAGNETOGRAM

Delta Y = 13.1
Delta X = 9.6



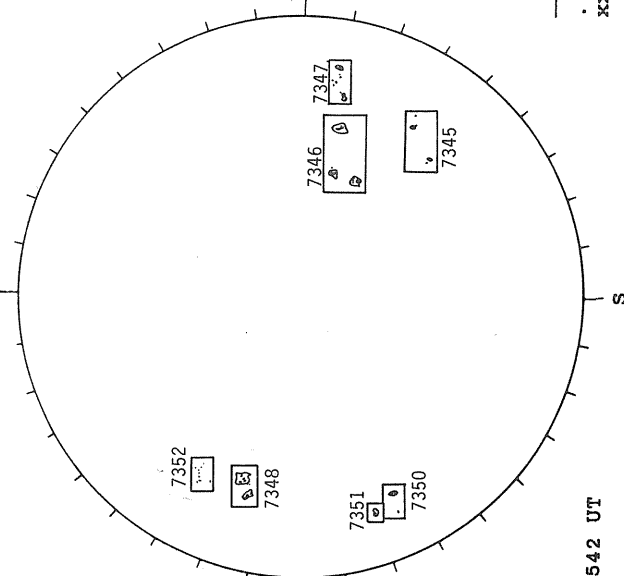
White = +7.5G
Black = -7.5G

SACRAMENTO PEAK H-ALPHA



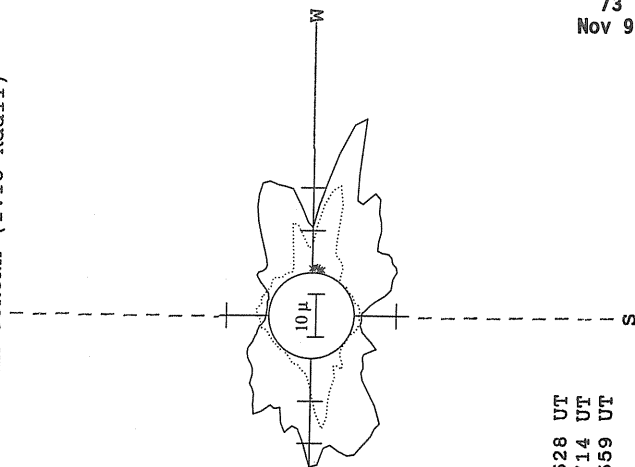
1600 UT

BOULDER SUNSPOT



1542 UT

SACRAMENTO PEAK CORONA (1.15 Radii)

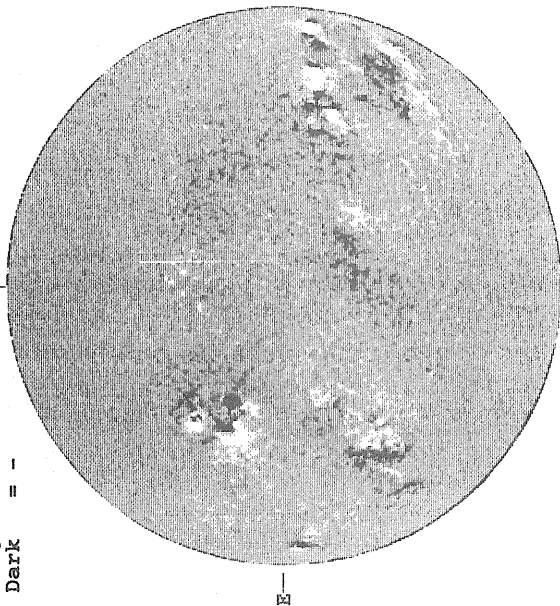


— Fe XIV, 1628 UT
.... Fe X, 1714 UT
xxxx Ca XV, 1659 UT

NOVEMBER 26, 1992 (P= 17.85, B₀ = 1.46, I₀ = 18.48)

KITT PEAK MAGNETOGRAM
N **5507A**

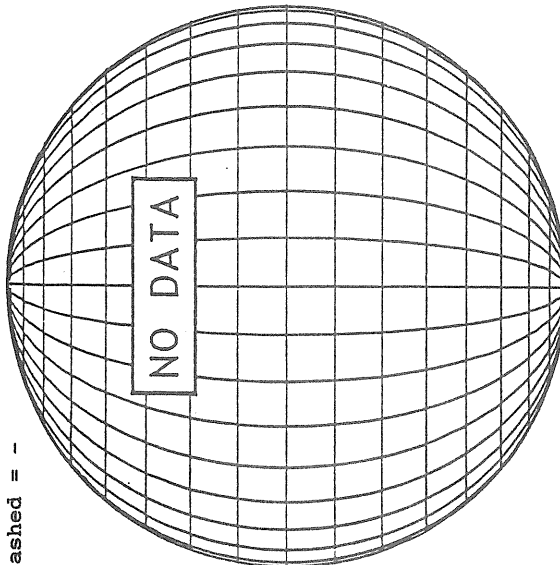
Bright = +
Dark = -



1617 UT

STANFORD MAGNETOGRAM
N

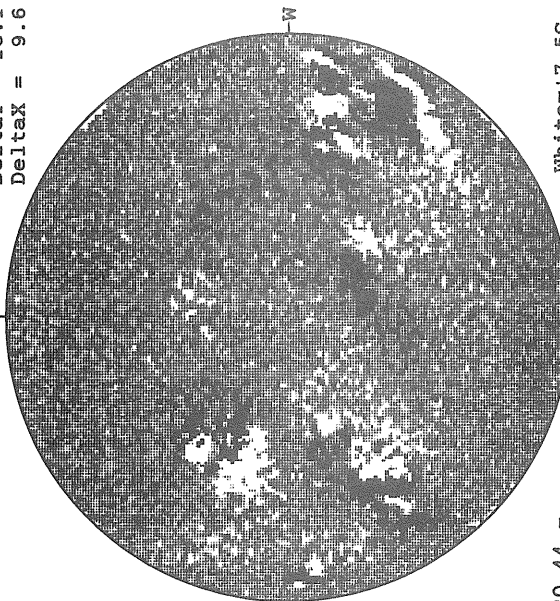
Solid = +
Dashed = -



20.44 -
21.41 UT

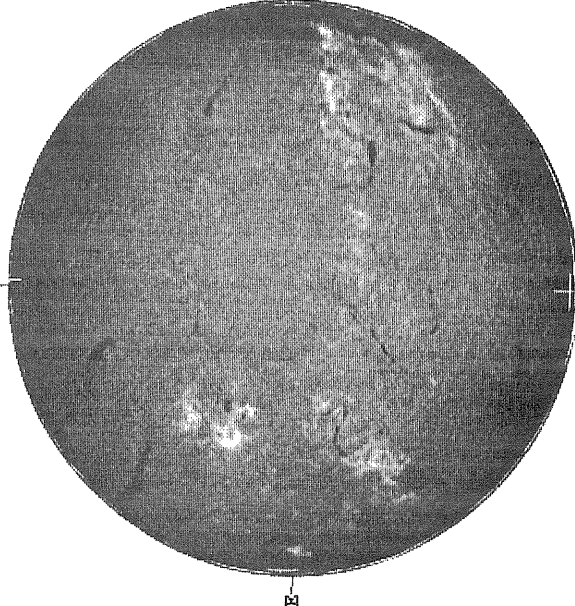
MT. WILSON MAGNETOGRAM
N

Delta_{ay} = 13.1
Delta_{ax} = 9.6



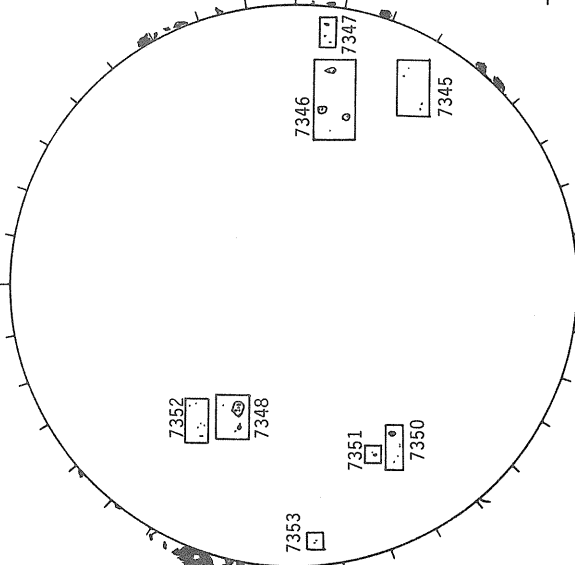
White=+7.5G
Black=-7.5G

BOULDER H-ALPHA



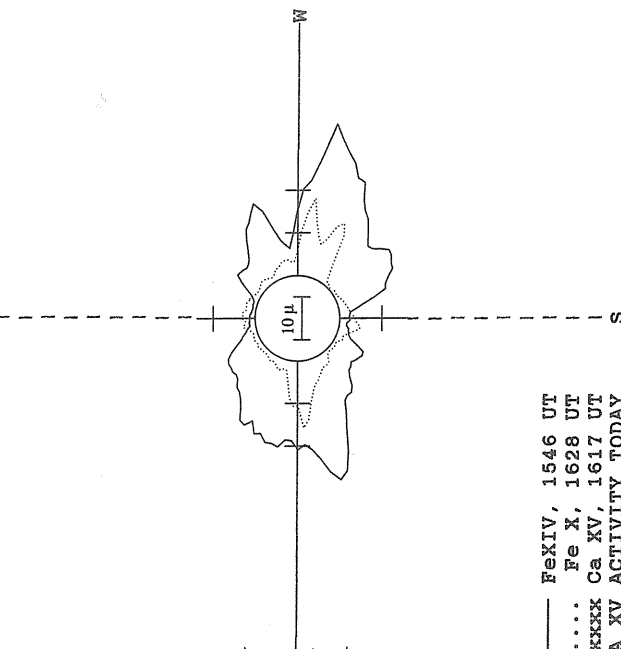
1759 UT

BOULDER SUNSPOT



1549 UT
1759 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)

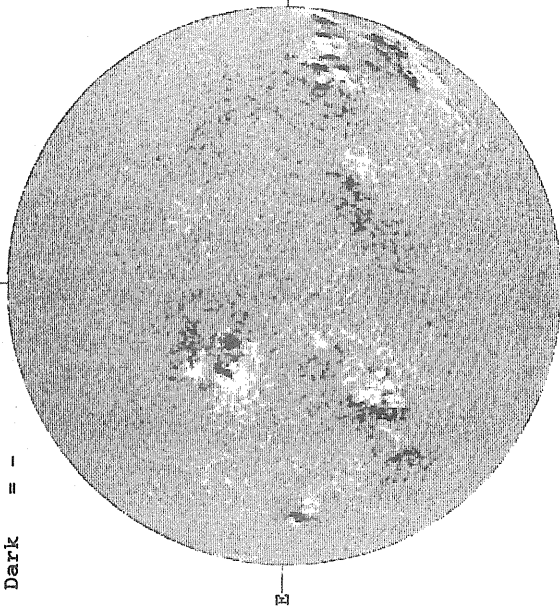


— FeXIV, 1546 UT
.... Fe X, 1628 UT
xxxx Ca XV, 1617 UT
NO CA XV ACTIVITY TODAY

NOVEMBER 27, 1992 (P= 17.49, B₀ = 1.34, L₀ = 5.30)

KITT PEAK MAGNETOGRAM
5507A

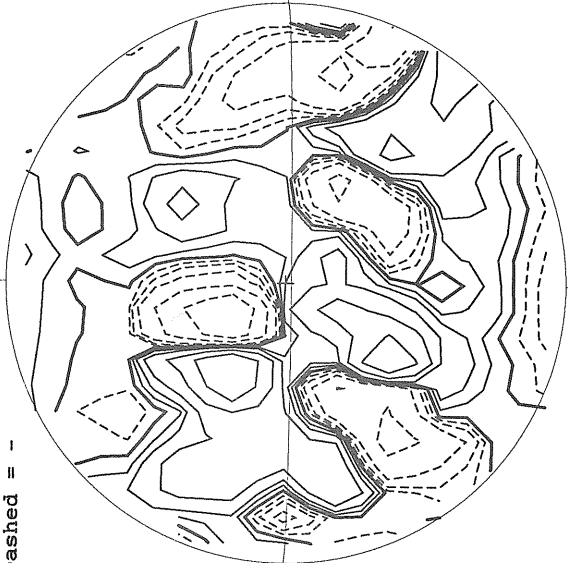
Bright = +
Dark = -



1624 UT

STANFORD MAGNETOGRAM

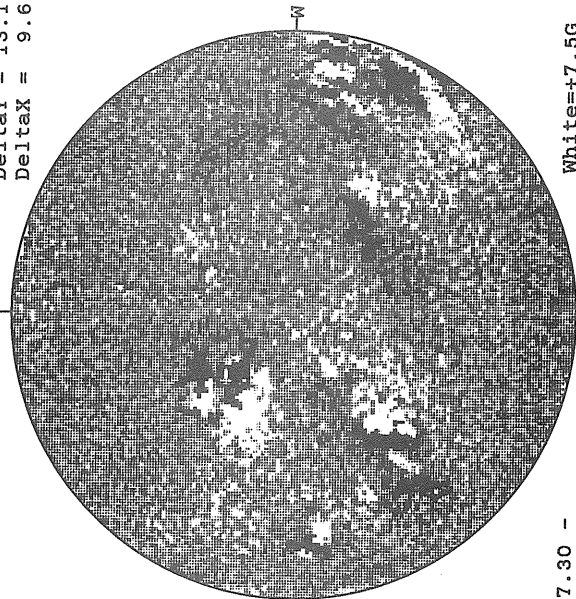
Solid = +
Dashed = -



2316 UT

MT. WILSON MAGNETOGRAM

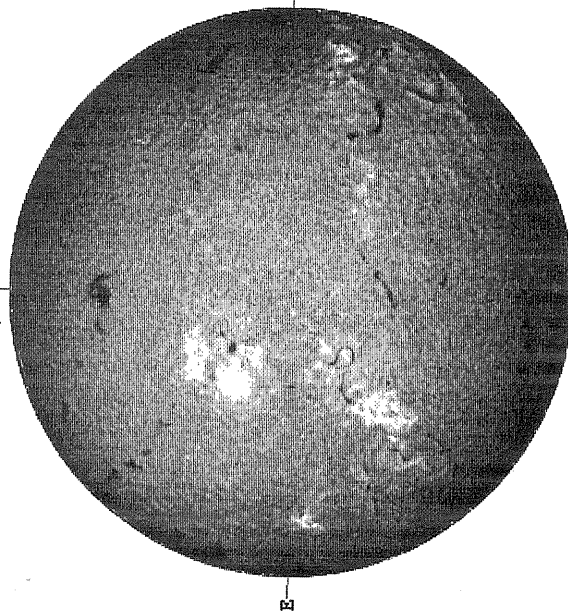
DeltaY = 13.1
DeltaX = 9.6



17.30 -
18.27 UT

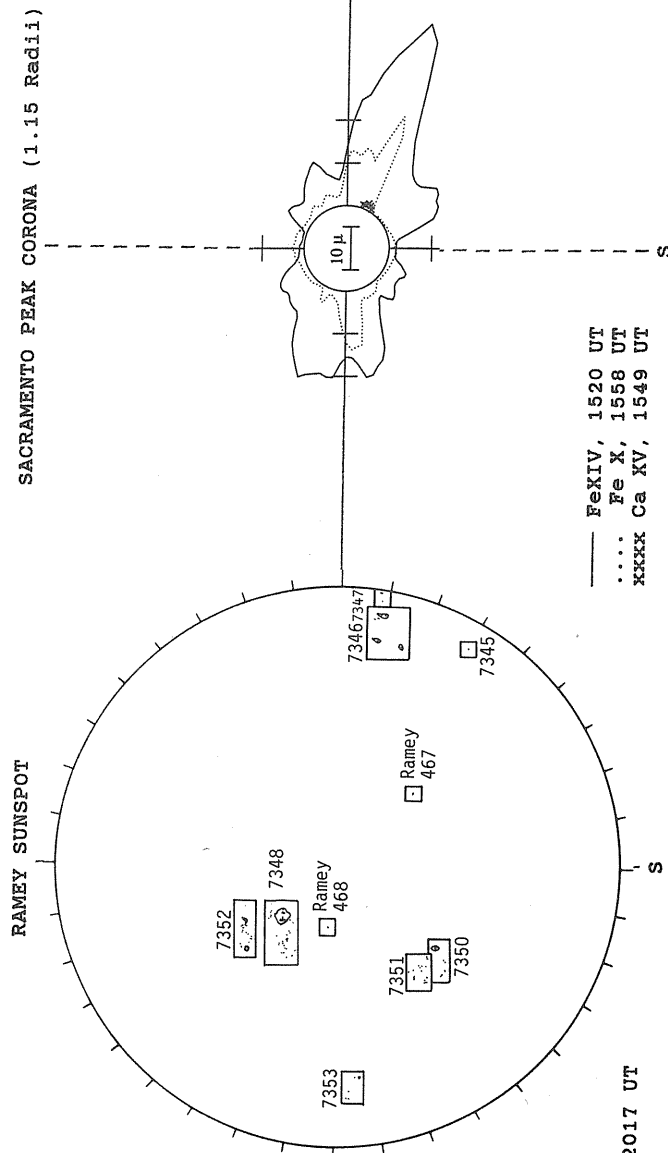
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



1631 UT

RAMEY SUNSPOT



2017 UT

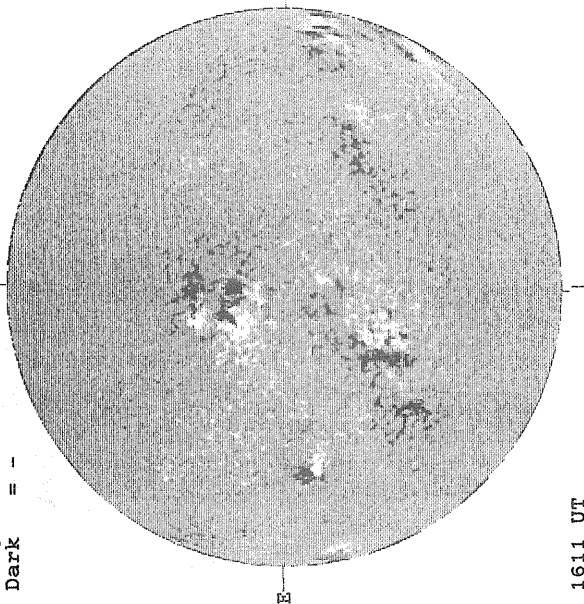
SACRAMENTO PEAK CORONA (1.15 Radii)

76
Nov 92

NOVEMBER 28, 1992 (P= 17.13 B_O = 1.21, L_O = 352.12)

KITT PEAK MAGNETOGRAM
5507A

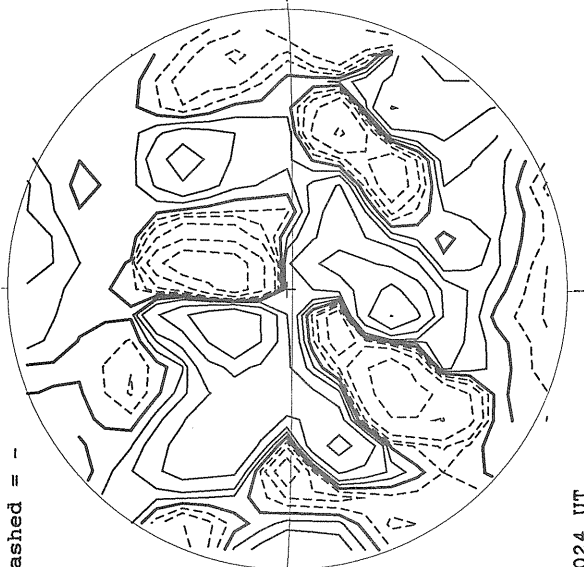
Bright = +
Dark = -



1611 UT

STANFORD MAGNETOGRAM

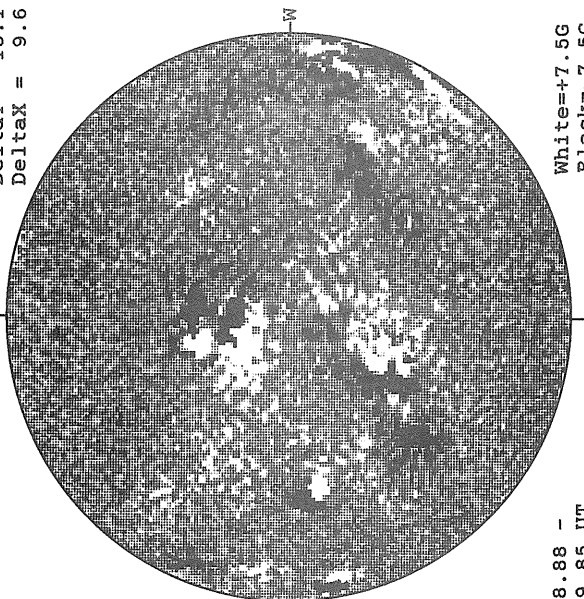
Solid = +
Dashed = -



2024 UT

MT. WILSON MAGNETOGRAM

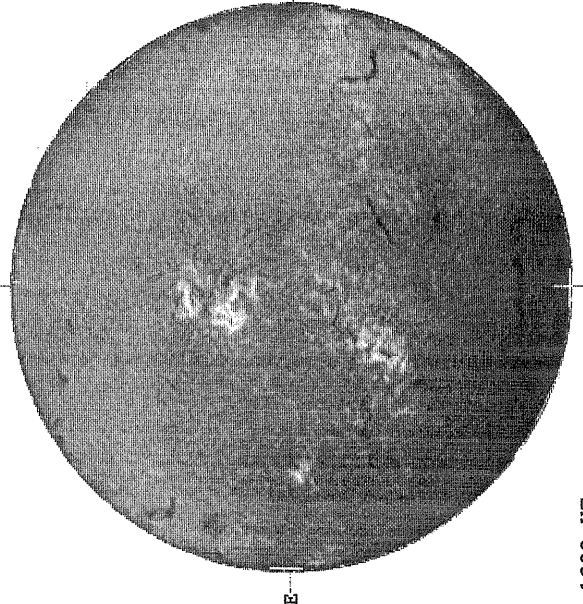
DeltaY = 13.1
DeltaX = 9.6



18.88 -
19.85 UT

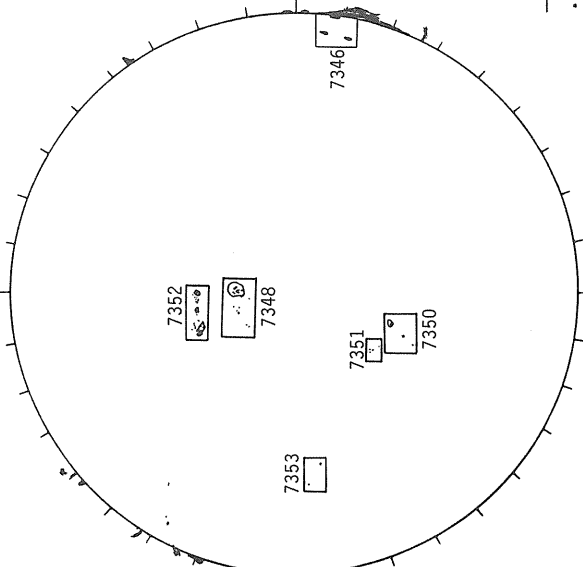
White=+7.5G
Black=-7.5G

BOULDER H-ALPHA



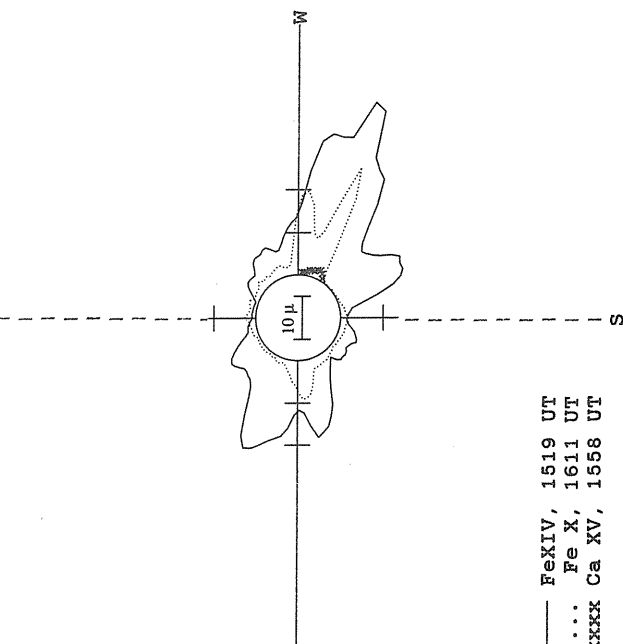
1629 UT

BOULDER SUNSPOT



1641 UT BOUL Prom
1629 UT BOUL Prom

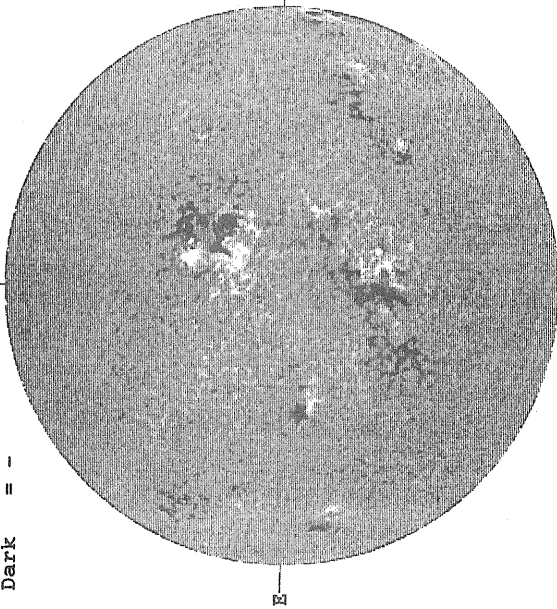
SACRAMENTO PEAK CORONA (1.15 Radii)



— Fe XIV, 1519 UT
... Fe X, 1611 UT
xxxx Ca XV, 1558 UT

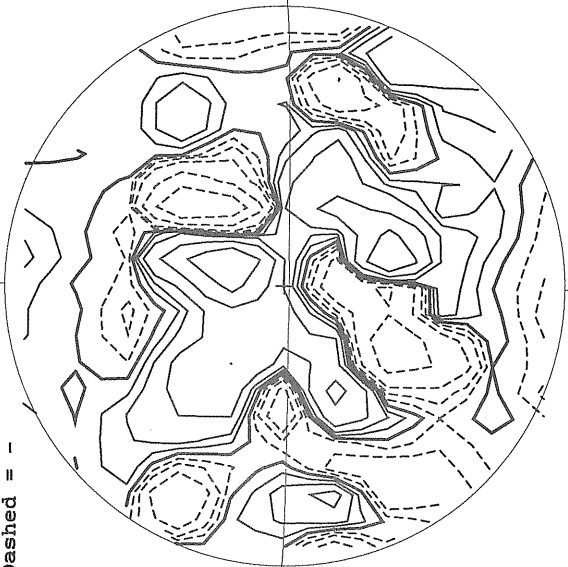
NOVEMBER 29, 1992 (P= 16.76, B₀ = 1.09, L₀ = 338.94)

KITT PEAK MAGNETOGRAM
N
Bright = +
Dark = -



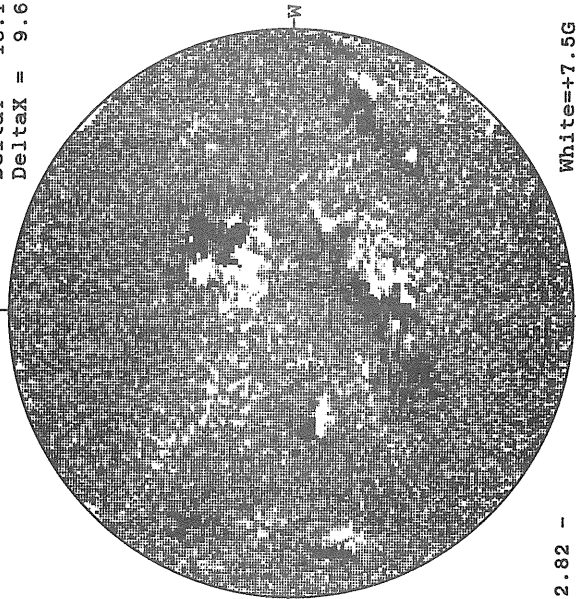
1637 UT

STANFORD MAGNETOGRAM
N
Solid = +
Dashed = -



1858 UT

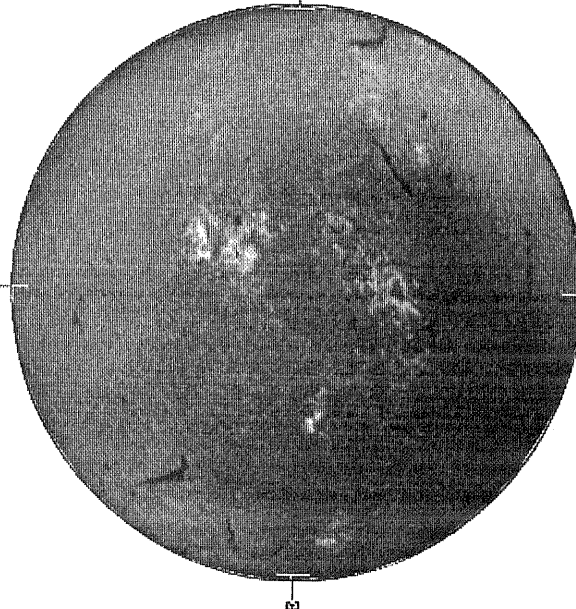
MT. WILSON MAGNETOGRAM
N
Delta_Y = 13.1
Delta_X = 9.6



22.82 -
23.79 UT

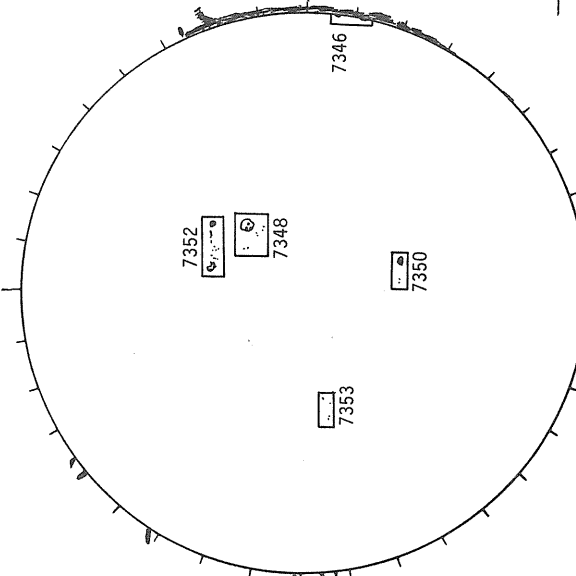
White=+7.5G
Black=-7.5G

BOULDER H-ALPHA



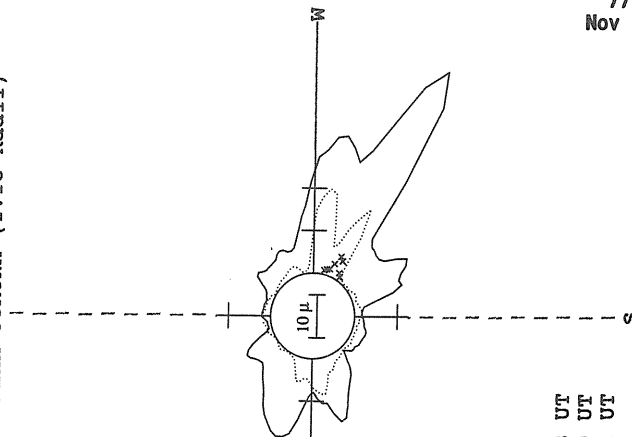
1647 UT

BOULDER SUNSPOT



1622 UT BOUL Prom
1647 UT BOUL Prom

SACRAMENTO PEAK CORONA (1.15 Radii)

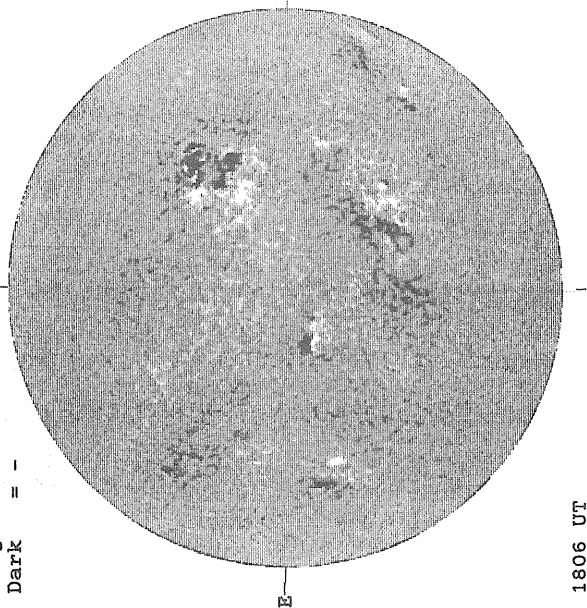


— Fe XIV, 1513 UT
.... Fe X, 1550 UT
xxxx Ca XV, 1541 UT

NOVEMBER 30, 1992 (P= 16.38, B₀ = 0.96, L₀ = 325.76)

KITT PEAK MAGNETOGRAM
5507A

Bright = +
Dark = -



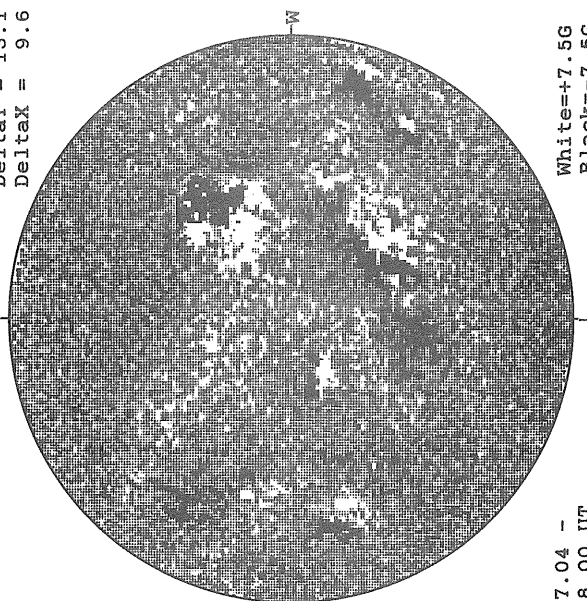
STANFORD MAGNETOGRAM

Solid = +
Dashed = -



MT. WILSON MAGNETOGRAM

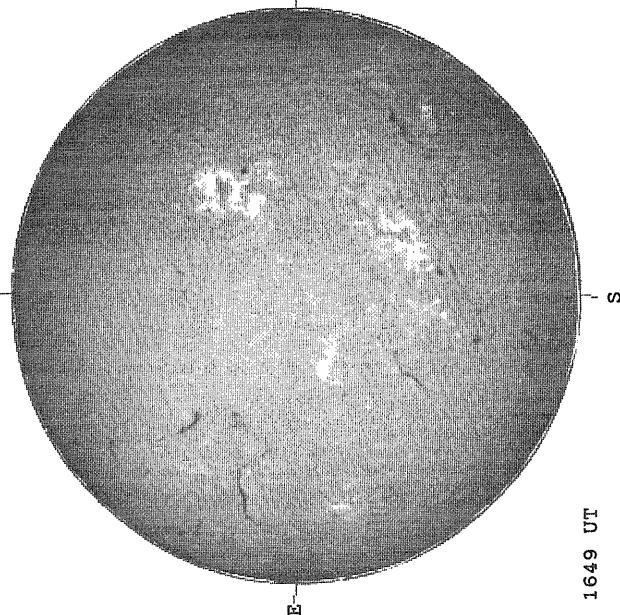
DeltaY = 13.1
DeltaX = 9.6



17.04 -
18.00 UT

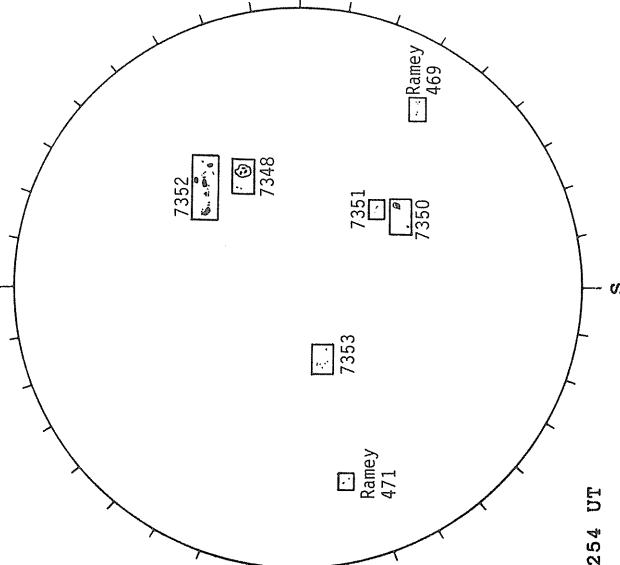
White=+7.5G
Black=-7.5G

SACRAMENTO PEAK H-ALPHA



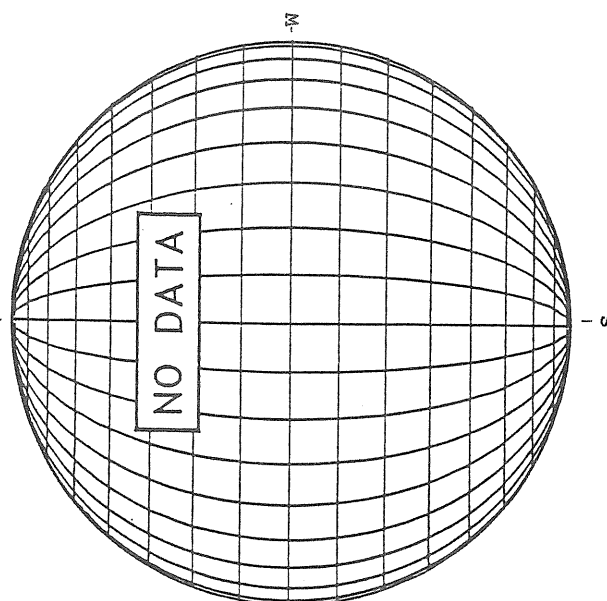
1649 UT

RAMEY SUNSPOT



1254 UT

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)

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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
7326	27665	BOUL	10	26	1547	S06 E82	11	1.8		A	HA	140	3	9	2
7326		MWIL	10	26	1600	S06 E77	11	1.4	4	AP					
7326		HOLL	10	26	1715	S07 E77	11	1.5		A	HA	120	3	2	3
7326		LEAR	10	27	0021	S05 E71	11	1.3		A	HS	240	2	2	2
7326		RAMY	10	27	1155	S05 E66	11	1.4		B	CKO	150	5	7	3
7326		BOUL	10	27	1448	S06 E69	11	1.8		B	CSO	160	2	10	2
7326		HOLL	10	27	1820	S05 E63	11	1.5		B	CAO	200	5	7	3
7326		PALE	10	27	1930	S07 E65	11	1.7		B	CAO	170	6	8	3
7326		MWIL	10	27	2215	S06 E60	11	1.4	4	(BP)					
7326		LEAR	10	28	0010	S05 E60	11	1.5		B	CSO	140	5	7	3
7326	27665	SVTO	10	28	0730	S05 E58	11	1.6		B	CAO	160	7	8	2
7326		RAMY	10	28	1315	S05 E54	11	1.6		B	CAO	210	6	8	3
7326		PALE	10	28	1930	S05 E53	11	1.8		B	CAO	290	4	9	3
7326		HOLL	10	28	2115	S05 E50	11	1.6		B	CSO	240	5	8	2
7326		LEAR	10	29	0045	S07 E49	11	1.7		B	CAO	230	10	7	3
7326		RAMY	10	29	1235	S05 E41	11	1.6		B	CKO	240	8	8	4
7326		PALE	10	29	2018	S05 E35	11	1.5		A	HS	240	4	3	3
7326		HOLL	10	29	2230	S06 E33	11	1.4		A	HK	290	7	3	2
7326		LEAR	10	30	0030	S07 E32	11	1.4		A	HK	200	4	3	3
7326		RAMY	10	30	1218	S06 E27	11	1.5		B	CKO	90	11	8	5
7326	27665	HOLL	10	30	1515	S07 E26	11	1.6		B	CAO	230	6	5	3
7326		BOUL	10	30	1714	S05 E22	11	1.4		A	HK	220	2	3	1
7326		PALE	10	31	0100	S05 E18	11	1.4		B	CSO	170	6	4	3
7326		SVTO	10	31	0922	S06 E13	11	1.4		B	CKO	250	6	5	1
7326		RAMY	10	31	1221	S06 E10	11	1.3		A	HK	210	6	4	3
7326		MWIL	10	31	1515	S06 E10	11	1.4	5	(BP)					
7326		BOUL	10	31	1710	S05 E09	11	1.4		B	CKO	270	12	6	3
7326		PALE	10	31	1859	S04 E10	11	1.5		B	CSO	230	7	6	3
7326		HOLL	10	31	2115	S06 E07	11	1.4		A	HH	280	2	3	2
7326		LEAR	11	01	0001	S05 E06	11	1.4		B	CHO	300	9	7	3
7326	27665	RAMY	11	01	1243	S06 W01	11	1.4		B	CAO	200	6	5	3
7326		BOUL	11	01	1505	S05 W02	11	1.5		B	DAO	230	9	5	3
7326		HOLL	11	01	1515	S07 W02	11	1.5		B	CHO	310	16	5	3
7326		MWIL	11	01	1530	S06 W02	11	1.5	5	(BP)					
7326		LEAR	11	02	0004	S07 W06	11	1.5		B	CSO	200	8	5	3
7326		SVTO	11	02	1237	S06 W14	11	1.5		B	CHO	250	9	5	2
7326		HOLL	11	02	1529	S06 W15	11	1.5		B	CAO	240	7	5	2
7326		MWIL	11	02	1600	S06 W17	11	1.4	5	(BP)					
7326		PALE	11	02	2030	S07 W14	11	1.8		B	CAO	230	6	5	3
7326		LEAR	11	03	0015	S06 W22	11	1.4		B	DKO	220	4	6	3
7326		SVTO	11	03	0947	S06 W26	11	1.5		A	HS	200	3	3	1
7326	27665	RAMY	11	03	1225	S05 W27	11	1.5		B	CKO	230	6	4	3
7326		MWIL	11	03	1545	S06 W30	11	1.4	5	(BP)					
7326		HOLL	11	03	2210	S06 W33	11	1.4		A	HS	180	3	2	1
7326		LEAR	11	04	0012	S05 W36	11	1.3		A	HA	150	1	4	4
7326		RAMY	11	04	1315	S06 W41	11	1.5		A	HA	160	3	2	3
7326		SVTO	11	04	1350	S06 W42	11	1.4		B	CAO	230	4	3	1
7326		BOUL	11	04	1504	S05 W44	11	1.3		A	HS	140	3	2	1
7326		MWIL	11	04	1545	S06 W43	11	1.4	5	(AP)					
7326		HOLL	11	04	1705	S06 W44	11	1.4		A	HS	210	3	2	3
7326		PALE	11	04	1717	S08 W43	11	1.5		A	HS	140	3	2	3
7326	27665	LEAR	11	05	0016	S06 W48	11	1.4		A	HA	140	3	3	3
7326		SVTO	11	05	1037	S06 W53	11	1.5		B	CSO	100	5	3	2
7326		RAMY	11	05	1230	S05 W53	11	1.5		B	CAO	200	5	4	3
7326		MWIL	11	05	1530	S06 W57	11	1.4	5	(AP)					
7326		HOLL	11	05	2240	S06 W61	11	1.4		A	HS	240	3	2	3
7326		PALE	11	05	2245	S08 W58	11	1.6		B	CAO	190	5	3	2
7326		LEAR	11	06	0048	S06 W63	11	1.3		B	CSO	170	3	3	3
7326		SVTO	11	06	1155	S06 W68	11	1.4		B	CAO	180	4	3	3
7326		RAMY	11	06	1254	S06 W66	11	1.6		A	HA	70	2	2	3
7326		MWIL	11	06	1545	S06 W70	11	1.4	5	(AP)					
7326	27665	BOUL	11	06	1621	S06 W72	11	1.3		A	HA	220	4	4	2
7326		HOLL	11	06	1710	S06 W71	11	1.4		A	HA	160	1	2	3
7326		PALE	11	06	2030	S07 W70	11	1.6		A	HA	120	1	2	3
7326		LEAR	11	07	0002	S06 W76	11	1.3		A	HS	80	1	2	3
7326		SVTO	11	07	0747	S07 W80	11	1.3		A	HA	70	1	2	3
7326		RAMY	11	07	1321	S07 W80	11	1.6		A	HS	60	1	1	3
7326		MWIL	11	07	1600	S06 W83	11	1.4	4	AP					
7326		HOLL	11	07	1740	S06 W86	11	1.3		A	AX	30	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
7326		PALE	11 07 1930	S08 W83	11 1.6		A	HS	30	1	1	3
7325		HOLL	10 26 1715	S16 E80	11 1.8		A	HS	60	1	2	3
7325		LEAR	10 27 0021	S15 E78	11 1.9		A	AX	10	2	1	2
7325		RAMY	10 27 1155	S14 E70	11 1.8		A	HK	120	1	3	3
7325		BOUL	10 27 1448	S17 E73	11 2.2		A	HS	100	1	2	2
7325		HOLL	10 27 1820	S15 E68	11 1.9		B	CAO	160	4	3	3
7325		PALE	10 27 1930	S14 E68	11 1.9		A	HS	100	3	3	3
7325	27666	MWIL	10 27 2215	S15 E66	11 1.9	4	(AP)					
7325		LEAR	10 28 0010	S15 E63	11 1.8		A	HS	90	3	2	3
7325		SVTO	10 28 0730	S16 E64	11 2.2		A	HS	110	4	3	2
7325		RAMY	10 28 1315	S14 E58	11 1.9		B	CAO	130	6	4	3
7325		PALE	10 28 1930	S15 E57	11 2.1		B	CAO	110	4	3	3
7325		HOLL	10 28 2115	S15 E54	11 2.0		B	CSO	10	7	4	2
7325		LEAR	10 29 0045	S17 E55	11 2.2		B	CAO	110	3	3	3
7325		RAMY	10 29 1235	S13 E51	11 2.4		B	CSO	140	8	12	4
7325		PALE	10 29 2018	S15 E43	11 2.1		A	HS	140	1	3	3
7325		HOLL	10 29 2230	S15 E40	11 2.0		A	HA	140	6	2	2
7325		LEAR	10 30 0030	S16 E38	11 1.9		A	HA	110	4	2	3
7325		RAMY	10 30 1218	S15 E32	11 1.9		A	HA	250	7	4	5
7325		HOLL	10 30 1515	S15 E31	11 2.0		A	HA	100	3	2	3
7325		BOUL	10 30 1714	S15 E29	11 1.9		A	HA	120	3	3	1
7325		PALE	10 31 0100	S16 E27	11 2.1		A	HR	60	1	2	3
7325		SVTO	10 31 0922	S16 E21	11 2.0		A	HS	90	1	1	1
7325		RAMY	10 31 1221	S15 E18	11 1.9		A	HS	90	3	3	3
7325	27666	MWIL	10 31 1515	S16 E16	11 1.8	5	(AP)					
7325		BOUL	10 31 1710	S14 E15	11 1.8		A	HA	90	1	2	3
7325		PALE	10 31 1859	S14 E16	11 2.0		A	HS	70	1	2	3
7325		HOLL	10 31 2115	S15 E15	11 2.0		A	HS	90	1	2	2
7325		LEAR	11 01 0001	S15 E12	11 1.9		A	HS	60	1	2	3
7325		RAMY	11 01 1243	S16 E06	11 2.0		A	HS	100	2	2	3
7325		BOUL	11 01 1505	S14 E04	11 1.9		A	HS	60	1	2	3
7325		HOLL	11 01 1515	S17 E05	11 2.0		B	CAO	130	4	3	3
7325	27666	MWIL	11 01 1530	S16 E04	11 1.9	5	(AP)					
7325	27670	MWIL	11 01 1530	S16 E08	11 2.2	3	(B)					
7325		LEAR	11 02 0004	S16 E01	11 2.1		B	CSO	70	4	3	3
7325		SVTO	11 02 1237	S16 W07	11 2.0		B	CSO	90	6	3	2
7325		HOLL	11 02 1529	S16 W09	11 2.0		A	HA	90	4	2	2
7325	27666	MWIL	11 02 1600	S16 W08	11 2.0	5	(AP)					
7325		PALE	11 02 2030	S17 W07	11 2.3		B	CSO	70	3	3	3
7325		LEAR	11 03 0015	S16 W14	11 1.9		B	CAO	60	2	3	3
7325		SVTO	11 03 0947	S16 W18	11 2.0		A	HS	60	1	2	1
7325		RAMY	11 03 1225	S16 W20	11 2.0		B	CAO	80	2	3	3
7325	27666	MWIL	11 03 1545	S16 W22	11 2.0	5	(AP)					
7325		HOLL	11 03 2210	S15 W25	11 2.0		A	HS	40	1	2	1
7325		LEAR	11 04 0012	S16 W27	11 2.0		A	HA	60	1	2	4
7325		RAMY	11 04 1315	S16 W34	11 2.0		B	CSO	30	2	3	3
7325		SVTO	11 04 1350	S16 W35	11 1.9		B	CAO	60	2	3	1
7325		BOUL	11 04 1504	S15 W36	11 1.9		A	HS	50	1	1	1
7325	27666	MWIL	11 04 1545	S16 W35	11 2.0	5	(AP)					
7325		HOLL	11 04 1705	S15 W35	11 2.1		A	HS	70	1	1	3
7325		PALE	11 04 1717	S18 W34	11 2.1		A	HS	30	2	1	3
7325		LEAR	11 05 0016	S16 W41	11 1.9		A	HA	50	1	2	3
7325		SVTO	11 05 1037	S15 W45	11 2.0		A	HS	50	1	2	2
7325		RAMY	11 05 1230	S15 W47	11 2.0		A	HA	40	1	2	3
7325	27666	MWIL	11 05 1530	S15 W48	11 2.0	4	(AP)					
7325		HOLL	11 05 2240	S16 W53	11 1.9		A	HS	80	1	2	3
7325		PALE	11 05 2245	S18 W48	11 2.3		A	HS	90	1	2	2
7325		LEAR	11 06 0048	S16 W54	11 1.9		A	HS	30	1	2	3
7325		SVTO	11 06 1155	S15 W58	11 2.1		A	HS	40	2	2	3
7325		RAMY	11 06 1254	S15 W58	11 2.1		A	HS	40	1	2	3
7325	27666	MWIL	11 06 1545	S16 W61	11 2.0	5	(AP)					
7325		BOUL	11 06 1621	S16 W63	11 1.9		A	HS	50	1	2	2
7325		HOLL	11 06 1710	S16 W62	11 2.0		A	HS	30	1	2	3
7325		PALE	11 06 2030	S18 W61	11 2.2		A	HS	40	1	2	3
7325		LEAR	11 07 0002	S16 W68	11 1.8		A	HS	50	1	2	3
7325		SVTO	11 07 0747	S17 W68	11 2.1		A	HA	50	1	2	3
7325		RAMY	11 07 1321	S16 W72	11 2.1		A	HS	30	1	1	3
7325	27666	MWIL	11 07 1600	S16 W74	11 2.0	5	(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
7325		HOLL	11 07 1740	S16	W78	11 1.8		A	HS	40	1	2	3
7325		PALE	11 07 1930	S18	W72	11 2.3		A	HS	30	1	1	3
7325		LEAR	11 08 0018	S18	W81	11 1.8		B	BXO	30	2	4	3
7325A	27671	MWIL	11 01 1530	S15	E14	11 2.7	3	(AF)					
7325A	27671	MWIL	11 03 1545	S13	W14	11 2.6	4	(AF)					
7325A		RAMY	11 04 1315	S13	W24	11 2.7		B	CAO	20	5	4	3
7325A		BOUL	11 04 1504	S14	W25	11 2.7		A	AX		1		1
7325A	27671	MWIL	11 04 1545	S14	W25	11 2.8	4	(AF)					
7325A		HOLL	11 04 1705	S14	W24	11 2.9		A	HR	20	1	1	3
7325A		PALE	11 04 1717	S16	W24	11 2.9		A	AX	10	1	1	3
7325A		EAR	11 05 0016	S16	W29	11 2.8		B	XO	20	2	3	L
7325A		SVTO	11 05 1037	S14	W34	11 2.9		B	BXO	10	2	2	2
7325A		RAMY	11 05 1230	S15	W35	11 2.9		A	AX	10	3	2	3
7332		SVTO	11 02 1237	S21	E06	11 3.0		B	BXO	30	11	4	2
7332		RAMY	11 03 1225	S22	W07	11 3.0		A	AX		1		3
7332	27675	MWIL	11 03 1545	S21	W10	11 2.9	4	(B)					
7332		HOLL	11 03 2210	S21	W12	11 3.0		B	CSO	30	5	4	1
7332		LEAR	11 04 0012	S22	W15	11 2.8		B	CAO	70	15	6	4
7332		RAMY	11 04 1315	S21	W21	11 2.9		B	DAO	130	10	9	3
7332		SVTO	11 04 1350	S21	W20	11 3.0		B	DAO	150	11	8	1
7332		BOUL	11 04 1504	S21	W24	11 2.8		B	DAO	150	7	7	1
7332	27675	MWIL	11 04 1545	S21	W23	11 2.9	5	(B)					
7332		HOLL	11 04 1705	S21	W23	11 2.9		B	DAO	220	11	8	3
7332		PALE	11 04 1717	S22	W22	11 3.0		B	DSO	130	10	8	3
7332		LEAR	11 05 0016	S22	W31	11 2.6		B	DAO	210	5	9	3
7332		SVTO	11 05 1037	S19	W33	11 2.9		B	DAO	130	6	9	2
7332		RAMY	11 05 1230	S21	W33	11 3.0		B	EAO	170	9	11	3
7332	27675	MWIL	11 05 1530	S22	W38	11 2.7	5	(B)					
7332		HOLL	11 05 2240	S21	W41	11 2.8		B	EAO	290	8	12	3
7332		PALE	11 05 2245	S21	W38	11 3.0		B	DAO	180	3	8	2
7332		LEAR	11 06 0048	S21	W42	11 2.8		B	DSO	150	4	8	3
7332		SVTO	11 06 1155	S22	W47	11 2.9		B	ESO	180	3	10	3
7332		RAMY	11 06 1254	S21	W48	11 2.8		B	DSO	90	5	9	3
7332	27675	MWIL	11 06 1545	S22	W51	11 2.7	5	(B)					
7332		BOUL	11 06 1621	S22	W51	11 2.8		B	DAO	170	2	10	2
7332		HOLL	11 06 1710	S22	W52	11 2.7		B	ESO	120	2	12	3
7332		PALE	11 06 2030	S22	W51	11 2.9		B	ESO	160	4	11	3
7332		LEAR	11 07 0002	S22	W55	11 2.8		B	DAO	150	2	10	3
7332		SVTO	11 07 0747	S23	W57	11 2.9		B	DAO	120	5	10	3
7332		RAMY	11 07 1321	S23	W63	11 2.7		B	CAO	110	5	9	3
7332	27675	MWIL	11 07 1600	S22	W62	11 2.9	5	(BF)					
7332		HOLL	11 07 1740	S22	W65	11 2.7		B	ESO	80	2	13	3
7332		PALE	11 07 1930	S23	W65	11 2.8		B	DAO	120	5	10	3
7332		LEAR	11 08 0018	S25	W62	11 3.2		A	HS	100	1	2	3
7332		SVTO	11 08 1210	S23	W69	11 3.2		A	HS	60	1	2	3
7332		RAMY	11 08 1225	S23	W75	11 2.7		B	EAO	90	3	12	3
7332		BOUL	11 08 1449	S25	W78	11 2.6		A	HS	50	1	2	2
7332	27675	MWIL	11 08 1545	S23	W74	11 2.9	5	(B)					
7332		HOLL	11 08 1630	S24	W72	11 3.1		A	HS	60	1	2	3
7332		PALE	11 08 2022	S22	W75	11 3.1		A	HS	30	1	2	2
7332		LEAR	11 09 0021	S24	W79	11 2.9		A	HA	60	1	2	3
7332B		RAMY	11 01 1243	N06	E23	11 3.2		A	AX	10	4	1	3
7332B		BOUL	11 01 1505	N08	E20	11 3.1		A	HA	30	2	2	3
7332B		HOLL	11 01 1515	N07	E21	11 3.2		A	AX	10	2	2	3
7332A	27672	MWIL	11 01 1530	N06	E21	11 3.2	4	(AF)					
7329		RAMY	11 01 1243	S19	E47	11 5.1		B	BXO	10	2	4	3
7329		BOUL	11 01 1505	S20	E45	11 5.1		B	CAO	30	2	5	3
7329		HOLL	11 01 1515	S18	E45	11 5.1		B	BXO	20	4	5	3
7329	27673	MWIL	11 01 1530	S20	E45	11 5.1	3	(B)					
7329		LEAR	11 02 0004	S19	E39	11 5.0		A	AX	10	1	1	3
7329		SVTO	11 02 1237	S19	E33	11 5.0		A	AX	10	2	1	2
7329		LEAR	11 04 0012	S19	E13	11 5.0		B	BXO	20	2	3	4
7329		RAMY	11 04 1315	S19	E07	11 5.1		A	AX		2	2	3
7329		SVTO	11 04 1350	S18	E06	11 5.0		A	AX	10	1	1	1

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(Ordered by Central Meridian Passage Date)

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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
7329	27676	MWIL	11 04	1545	S17	E04	11 5.0	4	(B)					
7329		HOLL	11 04	1705	S18	E02	11 4.9		A	AX		1		3
7329		PALE	11 04	1717	S19	E02	11 4.9		A	AX	10	2	2	3
7329		LEAR	11 05	0016	S19	W00	11 5.0		B	BXO	20	2	3	3
7329A		BOUL	11 09	1601	N09	W60	11 5.2		A	AX		1		3
7336		PALE	11 07	1930	N10	W18	11 6.4		A	AX	20	2	2	3
7336		RAMY	11 09	1218	N07	W39	11 6.6		B	CAO	20	8	3	3
7336		SVTO	11 09	1230	N07	W38	11 6.7		B	CRO	20	8	4	3
7336		BOUL	11 09	1601	N07	W42	11 6.5		B	CAO	30	6	4	3
7336		HOLL	11 09	1610	N07	W42	11 6.5		B	BXO	20	6	5	3
7336		PALE	11 09	2010	N06	W44	11 6.5		B	CRO	20	5	4	3
7336		LEAR	11 10	0017	N06	W47	11 6.5		B	CAO	70	8	4	3
7336		HOLL	11 10	1520	N06	W56	11 6.4		B	CAO	50	5	6	3
7336	27679	MWIL	11 10	1545	N06	W57	11 6.4	4	(B)					
7336		RAMY	11 10	1608	N06	W56	11 6.5		B	CAO	50	7	6	3
7336		PALE	11 10	1835	N05	W57	11 6.5		B	CAO	50	8	5	3
7336		LEAR	11 11	0012	N06	W63	11 6.3		B	CAO	70	4	6	3
7336		RAMY	11 11	1201	N07	W69	11 6.3		A	HA	70	2	2	3
7336		SVTO	11 11	1215	N05	W68	11 6.4		A	HS	50	3	3	2
7336		HOLL	11 11	1500	N07	W70	11 6.4		A	HS	50	2	1	2
7336	27679	MWIL	11 11	1530	N07	W72	11 6.2	4	(AP)					
7336		PALE	11 11	2230	N05	W73	11 6.5		A	HS	40	1	2	2
7336		LEAR	11 12	0026	N07	W80	11 6.0		A	HS	60	1	2	3
7330		LEAR	11 01	0001	S09	E82	11 7.1		A	HS	30	1	1	3
7330		RAMY	11 01	1243	S08	E75	11 7.1		B	DAO	100	3	9	3
7330		BOUL	11 01	1505	S09	E75	11 7.2		BGD	DA	270	5	10	3
7330		HOLL	11 01	1515	S08	E75	11 7.2		B	DSO	80	12	10	3
7330	27674	MWIL	11 01	1530	S09	E74	11 7.2	4	(B)					
7330		LEAR	11 02	0004	S09	E69	11 7.2		B	DSO	120	5	8	3
7330		SVTO	11 02	1237	S07	E66	11 7.5		B	DAO	280	15	10	2
7330		HOLL	11 02	1529	S08	E61	11 7.2		B	DAO	290	17	9	2
7330	27674	MWIL	11 02	1600	S08	E62	11 7.3	5	(B)					
7330		PALE	11 02	2030	S05	E60	11 7.3		B	DAO	330	14	9	3
7330		LEAR	11 03	0015	S08	E55	11 7.1		B	EAO	360	11	11	3
7330		SVTO	11 03	0947	S07	E53	11 7.4		B	EAO	260	6	12	1
7330		RAMY	11 03	1225	S07	E50	11 7.3		B	EKO	380	15	11	3
7330	27674	MWIL	11 03	1545	S08	E47	11 7.2	5	(B)					
7330		HOLL	11 03	2210	S07	E44	11 7.2		B	DSO	290	4	10	1
7330		LEAR	11 04	0012	S08	E45	11 7.4		B	EKO	350	11	11	4
7330		RAMY	11 04	1315	S08	E37	11 7.3		B	DKO	330	23	10	3
7330		SVTO	11 04	1350	S09	E36	11 7.3		B	EAO	340	21	12	1
7330		BOUL	11 04	1504	S08	E34	11 7.2		B	DAO	300	11	11	1
7330	27674	MWIL	11 04	1545	S08	E35	11 7.3	5	(B)					
7330		HOLL	11 04	1705	S08	E34	11 7.3		B	EHI	540	25	11	3
7330		PALE	11 04	1717	S08	E36	11 7.4		B	DHO	360	16	10	3
7330		LEAR	11 05	0016	S08	E31	11 7.3		B	EKO	460	28	12	3
7330		SVTO	11 05	1037	S07	E25	11 7.3		B	ESO	360	23	12	2
7330		RAMY	11 05	1230	S08	E23	11 7.2		B	EKI	510	32	11	3
7330	27674	MWIL	11 05	1530	S09	E21	11 7.2	5	(B)					
7330		HOLL	11 05	2240	S08	E17	11 7.2		B	EKI	560	26	12	3
7330		PALE	11 05	2245	S06	E21	11 7.5		B	DHI	320	23	12	2
7330		LEAR	11 06	0048	S09	E16	11 7.2		B	EKI	430	34	12	3
7330		SVTO	11 06	1155	S08	E10	11 7.2		BG	EHI	530	45	11	3
7330		RAMY	11 06	1254	S07	E09	11 7.2		B	EKI	380	45	12	3
7330	27674	MWIL	11 06	1545	S08	E07	11 7.2	5	(BG)					
7330		BOUL	11 06	1621	S07	E07	11 7.2		B	DKI	470	42	10	2
7330		HOLL	11 06	1710	S08	E06	11 7.2		B	EAI	460	27	11	3
7330		PALE	11 06	2030	S07	E07	11 7.4		B	EAI	460	37	12	3
7330		LEAR	11 07	0002	S08	E03	11 7.2		BG	EKI	410	37	11	3
7330		SVTO	11 07	0747	S08	W01	11 7.2		BG	EHI	470	39	11	3
7330		RAMY	11 07	1321	S08	W04	11 7.2		B	DKI	450	22	10	3
7330	27674	MWIL	11 07	1600	S08	W06	11 7.2	5	(BG)					
7330		HOLL	11 07	1740	S07	W07	11 7.2		B	DKI	500	28	10	3
7330		PALE	11 07	1930	S08	W06	11 7.4		B	DKI	470	27	10	3
7330		LEAR	11 08	0018	S09	W09	11 7.3		B	DHO	490	29	10	3
7330		SVTO	11 08	1210	S07	W17	11 7.2		BG	ESO	440	15	12	3

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(Ordered by Central Meridian Passage Date)

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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
7330		RAMY	11 08 1225	S08	W15	11 7.4		BG	EKI	480	31	11	3
7330		BOUL	11 08 1449	S08	W19	11 7.2		B	DAO	300	13	9	2
7330	27674	MWIL	11 08 1545	S07	W18	11 7.3	5	(D)					
7330		HOLL	11 08 1630	S08	W20	11 7.2		BGD	EKI	480	20	12	3
7330		PALE	11 08 2022	S07	W20	11 7.3		B	DSO	350	13	10	2
7330		LEAR	11 09 0021	S09	W24	11 7.2		BG	DKO	420	20	9	3
7330		RAMY	11 09 1218	S08	W29	11 7.3		BGD	DKO	400	16	7	3
7330		SVTO	11 09 1230	S07	W30	11 7.3		BGD	DKI	740	20	9	3
7330		BOUL	11 09 1601	S08	W32	11 7.3		B	DKO	480	20	9	3
7330		HOLL	11 09 1610	S08	W32	11 7.3		B	DHO	370	20	9	3
7330		PALE	11 09 2010	S10	W34	11 7.3		BG	DSI	270	13	9	3
7330		LEAR	11 10 0017	S09	W36	11 7.3		B	DKI	480	31	9	3
7330		HOLL	11 10 1520	S08	W45	11 7.3		B	DAO	280	7	9	3
7330	27674	MWIL	11 10 1545	S08	W46	11 7.2	5	(B)					
7330		RAMY	11 10 1608	S08	W45	11 7.3		B	DAO	220	12	9	3
7330		PALE	11 10 1835	S10	W46	11 7.3		B	DAO	260	10	9	3
7330		LEAR	11 11 0012	S09	W50	11 7.2		B	DAO	240	16	9	3
7330		RAMY	11 11 1201	S09	W56	11 7.3		B	DAO	240	7	8	3
7330		SVTO	11 11 1215	S10	W55	11 7.4		B	CKO	270	8	9	2
7330		HOLL	11 11 1500	S08	W57	11 7.3		B	DAO	170	7	8	2
7330	27674	MWIL	11 11 1530	S08	W58	11 7.3	5	(B)					
7330		PALE	11 11 2230	S09	W60	11 7.4		B	DKO	270	10	9	2
7330		LEAR	11 12 0026	S08	W65	11 7.1		B	DAO	170	4	8	3
7330		RAMY	11 12 1248	S08	W69	11 7.3		B	CAO	60	8	7	4
7330	27674	MWIL	11 12 1530	S08	W75	11 7.0	3	(B)					
7330		HOLL	11 12 1745	S08	W76	11 7.0		B	DAO	80	5	8	3
7330		PALE	11 12 2115	S09	W74	11 7.3		B	DAO	80	4	8	3
7330		LEAR	11 13 0016	S08	W77	11 7.2		B	CAO	150	3	7	3
7330		SVTO	11 13 0750	S06	W80	11 7.3		A	HS	30	1	2	3
7330		RAMY	11 13 1313	S08	W80	11 7.5		A	AX	10	1	1	3
7330	27674	MWIL	11 13 1530	S07	W85	11 7.3	3	X					
7333		LEAR	11 04 0012	N07	E58	11 8.3		A	AX	20	1	1	4
7333		RAMY	11 04 1315	N08	E47	11 8.1		A	AX		1		3
7333		SVTO	11 04 1350	N07	E51	11 8.4		A	AX	10	1	1	1
7333		HOLL	11 04 1705	N06	E47	11 8.2		A	AX	10	1		3
7333		PALE	11 04 1717	N08	E49	11 8.4		A	AX	10	1	1	3
7333		LEAR	11 05 0016	N06	E43	11 8.2		A	AX	10	1	1	3
7333		RAMY	11 09 1218	N09	W20	11 8.0		A	AX		1		3
7338		RAMY	11 10 1608	N05	W07	11 10.1		B	BXO		2	2	3
7338		PALE	11 10 1835	N06	W08	11 10.2		A	AX	10	2	2	3
7338		LEAR	11 11 0012	N06	W12	11 10.1		B	BXO		2	3	3
7338		RAMY	11 11 1201	N06	W19	11 10.1		B	BXO	10	4	3	3
7338		SVTO	11 11 1215	N06	W17	11 10.2		A	BX	10	4	4	2
7338		HOLL	11 11 1500	N06	W21	11 10.0		B	BXO		2	3	2
7338	27681	MWIL	11 11 1530	N06	W21	11 10.1	3	(B)					
7338		PALE	11 11 2230	N07	W22	11 10.3		B	BXO	10	2	3	2
7338		LEAR	11 12 0026	N05	W27	11 10.0		B	BXO	20	2	3	3
7334		LEAR	11 05 0016	N10	E81	11 11.1		A	AX	60	1	1	3
7334		SVTO	11 05 1037	N12	E76	11 11.2		B	BXO	40	3	4	2
7334		RAMY	11 05 1230	N13	E75	11 11.2		B	CAO	70	6	6	3
7334	27677	MWIL	11 05 1530	N12	E76	11 11.4	4	(AP)					
7334		HOLL	11 05 2240	N11	E72	11 11.4		B	DAI	150	7	7	3
7334		PALE	11 05 2245	N13	E75	11 11.6		B	DAO	110	3	8	2
7334		LEAR	11 06 0048	N13	E73	11 11.5		B	DAO	150	6	9	3
7334		SVTO	11 06 1155	N13	E66	11 11.5		B	DAO	160	8	7	3
7334		RAMY	11 06 1254	N13	E65	11 11.4		B	CSO	150	7	9	3
7334	27677	MWIL	11 06 1545	N12	E62	11 11.3	5	(B)					
7334		BOUL	11 06 1621	N14	E64	11 11.5		B	DKO	270	6	10	2
7334		HOLL	11 06 1710	N12	E61	11 11.3		B	DAO	260	6	9	3
7334		PALE	11 06 2030	N14	E61	11 11.5		B	DAO	170	6	8	3
7334		LEAR	11 07 0002	N12	E62	11 11.7		B	DAO	180	8	9	3
7334		SVTO	11 07 0747	N13	E54	11 11.4		B	DAO	270	9	8	3
7334		RAMY	11 07 1321	N14	E51	11 11.4		B	DAO	160	15	9	3
7334	27677	MWIL	11 07 1600	N13	E48	11 11.3	5	(BG)					
7334		HOLL	11 07 1740	N12	E50	11 11.5		B	EAI	270	19	12	3
7334		PALE	11 07 1930	N14	E49	11 11.5		B	DAO	200	14	9	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	CHP Mo Day	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7334		LEAR	11 08 0018	N14 E47	11 11.6		B	DAO	180	10	10	3
7334		SVTO	11 08 1210	N12 E38	11 11.4		B	DSO	110	8	9	3
7334		RAMY	11 08 1225	N13 E38	11 11.4		B	DKO	290	15	9	3
7334		BOUL	11 08 1449	N12 E34	11 11.2		B	DAO	160	7	8	2
7334	27677	MWIL	11 08 1545	N13 E34	11 11.2	5	(BG)					
7334		HOLL	11 08 1630	N12 E36	11 11.4		B	CSO	220	15	11	3
7334		PALE	11 08 2022	N15 E34	11 11.4		B	DSO	230	15	10	2
7334		LEAR	11 09 0021	N11 E32	11 11.4		B	CSO	250	16	8	3
7334		RAMY	11 09 1218	N14 E24	11 11.3		B	DAO	200	21	10	3
7334		SVTO	11 09 1230	N10 E27	11 11.5		B	EAO	180	16	12	3
7334		BOUL	11 09 1601	N12 E22	11 11.3		B	DKO	260	17	9	3
7334		HOLL	11 09 1610	N11 E23	11 11.4		BG	EAO	230	17	12	3
7334		PALE	11 09 2010	N13 E18	11 11.2		B	DSO	140	8	4	3
7334		LEAR	11 10 0017	N11 E16	11 11.2		B	DHO	180	14	8	3
7334		HOLL	11 10 1520	N12 E09	11 11.3		B	CSO	160	14	9	3
7334	27677	MWIL	11 10 1545	N13 E07	11 11.2	5	(BP)					
7334		RAMY	11 10 1608	N14 E08	11 11.3		B	DAO	170	16	10	3
7334		PALE	11 10 1835	N13 E07	11 11.3		B	ESO	180	21	12	3
7334		LEAR	11 11 0012	N13 E04	11 11.3		B	DAO	170	8	10	3
7334		RAMY	11 11 1201	N13 W03	11 11.3		B	CAO	130	20	10	3
7334		SVTO	11 11 1215	N13 W01	11 11.4		B	CSO	190	16	12	2
7334		HOLL	11 11 1500	N12 W04	11 11.3		B	CAO	100	15	10	2
7334	27677	MWIL	11 11 1530	N13 W07	11 11.1	5	(BP)					
7334		PALE	11 11 2230	N13 W07	11 11.4		B	EAO	150	19	12	2
7334		LEAR	11 12 0026	N13 W11	11 11.2		B	DSO	150	16	8	3
7334		RAMY	11 12 1248	N13 W16	11 11.3		B	CAO	120	19	11	4
7334	27677	MWIL	11 12 1530	N12 W20	11 11.1	4	(BP)					
7334		HOLL	11 12 1745	N12 W19	11 11.3		B	CAO	110	18	11	3
7334		PALE	11 12 2115	N14 W19	11 11.4		B	CSO	120	19	12	3
7334		LEAR	11 13 0016	N12 W26	11 11.0		B	DAO	90	9	8	3
7334		SVTO	11 13 0750	N13 W29	11 11.1					0		3
7334		RAMY	11 13 1313	N12 W33	11 11.1		B	DAO	90	8	7	3
7334		HOLL	11 13 1530	N12 W34	11 11.1		A	HA	60	4	7	4
7334	27677	MWIL	11 13 1530	N12 W34	11 11.1	5	(BP)					
7334		BOUL	11 13 1604	N12 W34	11 11.1		B	DAO	80	2	6	1
7334		PALE	11 13 1950	N12 W36	11 11.1		B	CSO	70	10	11	3
7334		LEAR	11 14 0007	N13 W39	11 11.1		B	DAO	110	4	7	3
7334		SVTO	11 14 0925	N13 W43	11 11.1		B	DSO	60	3	6	2
7334		RAMY	11 14 1220	N12 W42	11 11.3		B	CAO	60	3	11	3
7334	27677	MWIL	11 14 1530	N12 W47	11 11.1	5	(BG)					
7334		HOLL	11 14 1640	N13 W48	11 11.1		A	HS	60	2	8	3
7334		PALE	11 14 1715	N10 W48	11 11.1		B	DSO	60	4	5	3
7334		BOUL	11 14 1953	N13 W47	11 11.3		B	DSO	40	2	5	3
7334		LEAR	11 15 0023	N14 W51	11 11.2		B	DSO	110	4	10	2
7334		SVTO	11 15 0838	N12 W58	11 11.0		B	CAO	60	2	9	3
7334		RAMY	11 15 1255	N12 W56	11 11.3		B	CAO	60	3	8	4
7334		HOLL	11 15 1600	N13 W60	11 11.1		A	HS	40	2	8	4
7334		BOUL	11 15 1635	N12 W63	11 10.9		B	CRO	10	2	6	3
7334	27677	MWIL	11 15 1800	N12 W62	11 11.1	4	(AP)					
7334		PALE	11 15 2230	N10 W65	11 11.0		B	CSO	30	2	5	2
7334		LEAR	11 16 0009	N13 W67	11 10.9		B	CSO	50	2	5	3
7334		RAMY	11 16 1224	N12 W69	11 11.3		B	CRO	30	3	5	5
7334		SVTO	11 16 1230	N12 W73	11 11.0		B	BXO	60	3	10	2
7334	27677	MWIL	11 16 1600	N13 W75	11 11.0	5	(B)					
7334		PALE	11 16 2130	N08 W80	11 10.9		A	AX	30	1	1	2
7334		LEAR	11 17 0014	N10 W77	11 11.2		A	AX	30	1	1	3
7335		SVTO	11 05 1037	S17 E78	11 11.4		A	HS	60	1	2	2
7335	27678	MWIL	11 05 1530	S18 E80	11 11.7	5	B					
7335		HOLL	11 05 2240	S18 E77	11 11.8		B	DAO	200	4	8	3
7335		PALE	11 05 2245	S16 E75	11 11.6		B	DAO	50	2	7	2
7335		LEAR	11 06 0048	S18 E75	11 11.7		B	DSO	240	2	10	3
7335		SVTO	11 06 1155	S17 E70	11 11.8		B	DKO	340	7	8	3
7335		RAMY	11 06 1254	S17 E68	11 11.7		B	DAO	290	5	9	3
7335	27678	MWIL	11 06 1545	S17 E66	11 11.7	5	(B)					
7335		BOUL	11 06 1621	S18 E68	11 11.8		B	EKO	610	6	12	2
7335		HOLL	11 06 1710	S17 E66	11 11.7		B	DAO	240	6	8	3
7335		PALE	11 06 2030	S17 E65	11 11.8		B	DAO	340	5	9	3
7335		LEAR	11 07 0002	S17 E64	11 11.9		B	DKO	380	10	9	3

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

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NOVEMBER 1992

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
7335		SVTO	11 07 0747	S17 E58	11 11.7		B	DAO	340	5	7	3
7335		RAMY	11 07 1321	S16 E55	11 11.7		B	DAO	330	11	9	3
7335	27678	MWIL	11 07 1600	S17 E53	11 11.7	5	(D)					
7335		HOLL	11 07 1740	S17 E53	11 11.8		B	EKO	490	13	11	3
7335		PALE	11 07 1930	S16 E52	11 11.7		B	DAO	370	12	9	3
7335		LEAR	11 08 0018	S17 E51	11 11.9		B	EKO	430	8	11	3
7335		SVTO	11 08 1210	S17 E43	11 11.8		B	DSO	200	4	8	3
7335		RAMY	11 08 1225	S16 E43	11 11.8		B	DKO	400	9	10	3
7335	27678	BOUL	11 08 1449	S17 E42	11 11.8		B	DSO	230	3	9	2
7335		MWIL	11 08 1545	S17 E40	11 11.7	6	(B)					
7335		HOLL	11 08 1630	S18 E40	11 11.7		B	DSO	340	16	10	3
7335		PALE	11 08 2022	S16 E38	11 11.7		B	DSO	320	8	7	2
7335		LEAR	11 09 0021	S18 E35	11 11.7		B	CAO	390	8	7	3
7335		RAMY	11 09 1218	S16 E30	11 11.8		BD	DKO	480	13	9	3
7335		SVTO	11 09 1230	S18 E29	11 11.7		B	D O	380	15	7	3
7335		BOUL	11 09 1601	S17 E28	11 11.8		B	DKO	500	18	9	3
7335		HOLL	11 09 1610	S19 E28	11 11.8		BD	DKC	460	17	8	3
7335		PALE	11 09 2010	S18 E26	11 11.8		BD	DSO	360	11	8	3
7335		LEAR	11 10 0017	S17 E23	11 11.7		BD	DKI	550	25	9	3
7335	27678	HOLL	11 10 1520	S17 E14	11 11.7		BG	DAI	530	30	10	3
7335		MWIL	11 10 1545	S17 E14	11 11.7	5	(B)					
7335		RAMY	11 10 1608	S17 E15	11 11.8		B	DKI	490	30	10	3
7335		PALE	11 10 1835	S18 E15	11 11.9		BG	EKI	660	26	11	3
7335		LEAR	11 10 0012	S17 E10	11 11.8		BG	EKI	440	22	11	3
7335		RAMY	11 11 1201	S17 E04	11 11.8		BD	EKI	540	24	11	3
7335		SVTO	11 11 1215	S17 E04	11 11.8		BG	DKI	560	18	9	2
7335	27678	HOLL	11 11 1500	S16 E01	11 11.7		B	DKI	440	16	9	2
7335		MWIL	11 11 1530	S18 E01	11 11.7	5	(B)					
7335		PALE	11 11 2230	S18 E01	11 12.0		BD	EKI	520	17	11	2
7335		LEAR	11 12 0026	S17 W05	11 11.6		BG	DKO	440	19	9	3
7335	27678	RAMY	11 12 1248	S17 W11	11 11.7		B	DKO	440	19	10	4
7335		MWIL	11 12 1530	S17 W12	11 11.7	5	(B)					
7335		HOLL	11 12 1745	S17 W13	11 11.7		B	EKI	460	19	11	3
7335		PALE	11 12 2115	S18 W14	11 11.8		B	EKI	540	16	11	3
7335		LEAR	11 13 0016	S18 W15	11 11.9		B	EKO	440	11	10	3
7335	27678	RAMY	11 13 1313	S18 W23	11 11.8		B	EKO	410	8	13	3
7335		MWIL	11 13 1530	S17 W25	11 11.7	5	(B)					
7335		HOLL	11 13 1530	S18 W24	11 11.8		B	EHO	420	6	11	4
7335		BOUL	11 13 1604	S18 W26	11 11.7		B	DKO	430	2	9	1
7335		PALE	11 13 1950	S18 W27	11 11.8		B	DKO	440	12	10	3
7335		LEAR	11 14 0007	S17 W30	11 11.7		B	EKO	400	12	11	3
7335		SVTO	11 14 0925	S16 W35	11 11.7		BG	EKO	420	9	12	2
7335	27678	RAMY	11 14 1220	S18 W34	11 11.9		BG	ESO	420	8	13	3
7335		MWIL	11 14 1530	S17 W37	11 11.8	5	(BG)					
7335		HOLL	11 14 1640	S18 W39	11 11.7		B	DSO	360	2	10	3
7335		PALE	11 14 1715	S20 W39	11 11.7		B	DSO	370	4	10	3
7335		BOUL	11 14 1953	S17 W37	11 12.0		B	EHO	370	7	11	3
7335		LEAR	11 15 0023	S17 W44	11 11.7		B	EKO	350	8	11	2
7335		SVTO	11 15 0838	S18 W48	11 11.7		B	DHO	420	2	10	3
7335		RAMY	11 15 1255	S18 W48	11 11.9		B	EKO	370	5	12	4
7335		HOLL	11 15 1600	S18 W51	11 11.8		B	ESO	320	4	12	4
7335	27678	BOUL	11 15 1635	S18 W47	11 12.1		B	FHO	300	7	19	3
7335		MWIL	11 15 1800	S18 W52	11 11.8	6	(B)					
7335		PALE	11 15 2230	S21 W55	11 11.7		B	DAO	240	7	9	2
7335		LEAR	11 16 0009	S17 W57	11 11.7		B	DKO	480	10	10	3
7335		RAMY	11 16 1224	S18 W61	11 11.9		B	EKO	320	7	12	5
7335	27678	SVTO	11 16 1230	S19 W62	11 11.8		B	EKO	330	7	12	2
7335		MWIL	11 16 1600	S17 W64	11 11.8	6	(B)					
7335		HOLL	11 16 1630	S18 W66	11 11.7		B	ESO	330	3	11	3
7335		PALE	11 16 2130	S19 W67	11 11.8		B	DSO	170	4	9	2
7335		LEAR	11 17 0014	S18 W67	11 11.9		B	EAO	350	3	11	3
7335		SVTO	11 17 1235	S18 W76	11 11.7		B	EKO	210	2	11	2
7335		RAMY	11 17 1240	S19 W75	11 11.8		B	DAO	250	3	9	3
7335	27678	HOLL	11 17 1515	S15 W76	11 11.9		B	DHO	240	2	9	3
7335		MWIL	11 17 1545	S17 W78	11 11.7	5	(B)					
7335		LEAR	11 18 0035	S18 W80	11 11.9		A	HA	120	1	3	3
7339		RAMY	11 10 1608	S16 E42	11 13.8		A	AX		1		3
7339		RAMY	11 11 1201	S15 E32	11 13.9		B	BXO		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
7339	27682	MWIL	11 11 1530	S17 E29	11 13.8	3	(B)					
7339		LEAR	11 12 0026	S17 E25	11 13.9		B	BXO	20	2	3	3
7339		RAMY	11 12 1248	S17 E18	11 13.9		B	BXO	10	4	4	4
7339	27682	MWIL	11 12 1530	S17 E14	11 13.7	3	(AP)					
7339		HOLL	11 12 1745	S17 E13	11 13.7		A	AX		1		3
7339		PALE	11 12 2115	S17 E13	11 13.9		A	AX	10	2	2	3
7339		LEAR	11 13 0016	S17 E09	11 13.7		B	BXO	30	2	3	3
7339		RAMY	11 13 1313	S17 E03	11 13.8		B	BXO	10	3	3	3
7339	27682	MWIL	11 13 1530	S16 W00	11 13.6	4	(B)					
7339		HOLL	11 13 1530	S17 E01	11 13.7		B	BXO	20	3	3	4
7339		PALE	11 13 1950	S18 E01	11 13.9		B	BXO	20	3	3	3
7339		LEAR	11 14 0007	S17 W04	11 13.7		B	BXO	20	6	4	3
7339		SVTO	11 14 0925	S17 W09	11 13.7		B	BXO	20	8	5	2
7339		RAMY	11 14 1220	S17 W09	11 13.8		B	BXO	10	4	5	3
7339	27682	MWIL	11 14 1530	S17 W12	11 13.7	4	(B)					
7339		HOLL	11 14 1640	S17 W13	11 13.7		B	BXO	10	2	5	3
7339		PALE	11 14 1715	S18 W12	11 13.8		B	BXO	10	3	6	3
7339		LEAR	11 15 0023	S17 W17	11 13.7		B	CSO	20	5	7	2
7339		RAMY	11 15 1255	S18 W22	11 13.9		A	AX		1		4
7341		PALE	11 13 1950	S17 E21	11 15.4		A	AX	10	2	2	3
7341		LEAR	11 14 0007	S16 E16	11 15.2		A	AX		2	2	3
7341		SVTO	11 14 0925	S17 E10	11 15.1		B	BXO	20	9	3	2
7341	27685	RAMY	11 14 1220	S16 E10	11 15.3		B	BXO	20	3	3	3
7341		MWIL	11 14 1530	S16 E08	11 15.2	4	(B)					
7341		HOLL	11 14 1640	S16 E06	11 15.1		B	BXO	20	6	3	3
7341		PALE	11 14 1715	S17 E08	11 15.3		B	BXO	20	6	4	3
7341		BOUL	11 14 1953	S15 E08	11 15.4		B	BXO	10	4	3	3
7341		LEAR	11 15 0023	S16 E03	11 15.2		B	CSO	30	6	5	2
7341		SVTO	11 15 0838	S17 W03	11 15.1		B	BXO	20	7	5	3
7341		RAMY	11 15 1255	S16 W04	11 15.2		B	BXO	20	8	4	4
7341		HOLL	11 15 1600	S16 W08	11 15.0		A	AX	10	3	2	4
7341		BOUL	11 15 1635	S15 W09	11 15.0		A	AX	10	3	1	3
7341	27685	MWIL	11 15 1800	S17 W08	11 15.1	3	(B)					
7341	27685	MWIL	11 16 1600	S16 W21	11 15.1	4	(AP)					
7341		HOLL	11 16 1630	S16 W22	11 15.0		A	AX	10	1	1	3
7341		PALE	11 16 2130	S17 W21	11 15.3		B	CRO	20	8	4	2
7341		LEAR	11 17 0014	S16 W23	11 15.3		B	BXO	40	10	4	3
7341		SVTO	11 17 1235	S16 W32	11 15.1		B	DSO	70	3	6	2
7341		RAMY	11 17 1240	S17 W30	11 15.2		B	DAO	60	9	4	3
7341		HOLL	11 17 1515	S15 W32	11 15.2		B	DAO	60	7	5	3
7341	27685	MWIL	11 17 1545	S15 W33	11 15.1	5	(B)					
7341		LEAR	11 18 0035	S17 W36	11 15.3		B	DAO	170	7	6	3
7341		RAMY	11 18 1301	S17 W44	11 15.2		B	DAO	190	9	8	3
7341		HOLL	11 18 1740	S15 W46	11 15.2		B	DSI	230	12	8	3
7341		LEAR	11 19 0004	S15 W54	11 14.9		B	DKO	280	9	9	3
7341		SVTO	11 19 0855	S16 W56	11 15.1		B	DAO	250	7	8	3
7341		RAMY	11 19 1328	S17 W58	11 15.1		B	DAI	210	9	10	2
7341	27685	MWIL	11 19 1600	S15 W61	11 15.0	5	(B)					
7341		HOLL	11 19 1750	S15 W61	11 15.1		B	DAO	240	7	10	2
7341		LEAR	11 20 0009	S17 W65	11 15.1		B	DKO	230	6	9	2
7341		SVTO	11 20 0713	S17 W67	11 15.2		B	DAO	220	4	8	3
7341		RAMY	11 20 1300	S15 W71	11 15.2		B	DAO	210	6	8	4
7341	27685	MWIL	11 20 1615	S15 W72	11 15.2	4	(B)					
7341		HOLL	11 20 1701	S16 W73	11 15.2		B	DAO	180	4	10	2
7341		PALE	11 20 2305	S17 W75	11 15.3		B	DSO	110	2	8	2
7341		LEAR	11 21 0024	S15 W78	11 15.1		B	DAO	200	5	10	3
7341		SVTO	11 21 0900	S14 W81	11 15.2		A	HA	30	2	6	3
7341		RAMY	11 21 1303	S14 W87	11 15.0		A	HA	30	2	2	3
7341A		LEAR	11 14 0007	N19 E27	11 16.1		A	AX		2	1	3
7341B	27683	MWIL	11 11 1530	S06 E70	11 16.9	2	(AP)					
7341B	27683	MWIL	11 12 1530	S07 E56	11 16.8	3	(AP)					
7341B		LEAR	11 14 0007	S04 E33	11 16.5		A	AX	40	1	1	3
7343		LEAR	11 14 0007	N08 E39	11 16.9		A	AX		1	1	3
7343		RAMY	11 17 1240	N08 W10	11 16.8		A	AX		1		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
7337	27680	HOLL	11	10	1520	N06 E85	11 17.0		B	CSO	90	3	4	3
7337		MWIL	11	10	1545	N07 E86	11 17.1	4	AP					
7337		RAMY	11	10	1608	N07 E80	11 16.7		A	HS	40	1	2	3
7337		PALE	11	10	1835	N10 E85	11 17.2		A	HS	60	1	4	3
7337		LEAR	11	11	0012	N07 E80	11 17.0		A	HS	120	2	2	3
7337		RAMY	11	11	1201	N08 E70	11 16.7		A	HA	80	4	3	3
7337	27680	SVTO	11	11	1215	N07 E73	11 17.0		A	HS	180	1	3	2
7337		HOLL	11	11	1500	N08 E71	11 16.9		A	HS	110	2	2	2
7337		MWIL	11	11	1530	N07 E70	11 16.9	4	(AP)					
7337		PALE	11	11	2230	N08 E70	11 17.2		A	HS	100	1	2	2
7337		LEAR	11	12	0026	N06 E68	11 17.1		B	CAO	140	3	3	3
7337		RAMY	11	12	1248	N06 E58	11 16.9		B	CAO	100	6	4	4
7337	27680	MWIL	11	12	1530	N06 E58	11 17.0	5	(AP)					
7337		HOLL	11	12	1745	N07 E56	11 16.9		A	HA	140	6	3	3
7337		PALE	11	12	2115	N08 E58	11 17.2		B	CAO	170	6	6	3
7337		LEAR	11	13	0016	N07 E54	11 17.0		B	CAO	130	2	4	3
7337		RAMY	11	13	1313	N07 E46	11 17.0		A	HA	70	2	3	3
7337		MWIL	11	13	1530	N07 E45	11 17.0	5	(AP)					
7337	27680	HOLL	11	13	1530	N07 E46	11 17.1		A	HA	80	3	2	4
7337		BOUL	11	13	1604	N08 E44	11 17.0		A	HA	130	2	2	1
7337		PALE	11	13	1950	N08 E42	11 17.0		B	CSO	80	4	2	3
7337		LEAR	11	14	0007	N07 E40	11 17.0		B	CSO	120	4	4	3
7337		SVTO	11	14	0925	N06 E35	11 17.0		B	CSO	100	4	2	2
7337		RAMY	11	14	1220	N07 E35	11 17.1		A	HA	90	4	4	3
7337	27680	MWIL	11	14	1530	N06 E32	11 17.0	5	(BP)					
7337		HOLL	11	14	1640	N08 E31	11 17.0		A	HS	110	2	2	3
7337		PALE	11	14	1715	N08 E30	11 17.0		A	HA	70	4	2	3
7337		BOUL	11	14	1953	N07 E31	11 17.1		A	HA	90	2	2	3
7337		LEAR	11	15	0023	N07 E26	11 17.0		A	HA	70	5	3	2
7337		SVTO	11	15	0838	N07 E22	11 17.0		B	CAO	100	8	4	3
7337	27680	RAMY	11	15	1255	N08 E22	11 17.2		B	CAO	90	10	8	4
7337		HOLL	11	15	1600	N08 E18	11 17.0		A	HA	90	9	5	4
7337		BOUL	11	15	1635	N07 E17	11 17.0		A	HA	60	4	2	3
7337		MWIL	11	15	1800	N06 E17	11 17.0	4	(AP)					
7337		PALE	11	15	2230	N06 E10	11 16.7		B	DSO	90	11	9	2
7337		LEAR	11	16	0009	N05 E13	11 17.0		B	DAO	100	9	4	3
7337	27680	RAMY	11	16	1224	N08 E08	11 17.1		B	CAO	50	4	5	5
7337		SVTO	11	16	1230	N07 E07	11 17.0		B	DSO	70	3	3	2
7337		MWIL	11	16	1600	N07 E04	11 17.0	5	(B)					
7337		HOLL	11	16	1630	N08 E03	11 16.9		B	CAO	90	9	6	3
7337		PALE	11	16	2130	N08 E01	11 17.0		A	HA	60	5	2	2
7337		LEAR	11	17	0014	N07 E01	11 17.1		B	CAO	70	6	4	3
7337	27680	SVTO	11	17	1235	N07 W08	11 16.9		A	HS	50	5	2	2
7337		RAMY	11	17	1240	N06 W06	11 17.1		B	CAO	60	9	7	3
7337		HOLL	11	17	1515	N06 W07	11 17.1		B	CAO	50	10	8	3
7337		MWIL	11	17	1545	N07 W09	11 17.0	4	(B)					
7337		LEAR	11	18	0035	N06 W13	11 17.0		B	DAO	60	2	3	3
7337		RAMY	11	18	1301	N05 W21	11 17.0		A	HA	40	2	2	3
7337	27680	HOLL	11	18	1740	N06 W20	11 17.2		A	HS	30	2	2	3
7337		LEAR	11	19	0004	N07 W27	11 17.0		A	HS	20	2	2	3
7337		RAMY	11	19	1328	N06 W34	11 17.0		A	HS	20	3	2	2
7337		MWIL	11	19	1600	N07 W36	11 17.0	4	(AP)					
7337		HOLL	11	19	1750	N07 W37	11 17.0		A	AX	10	2	2	2
7337		LEAR	11	20	0009	N05 W39	11 17.1		A	AX	20	3	2	2
7337	27680	SVTO	11	20	0713	N06 W43	11 17.1		A	AX	10	1	1	3
7337		RAMY	11	20	1300	N06 W47	11 17.0		A	HR	10	2	2	4
7337		MWIL	11	20	1615	N07 W48	11 17.1	4	(AP)					
7337		HOLL	11	20	1701	N07 W50	11 17.0		A	AX	10	1	1	2
7337		PALE	11	20	2305	N07 W51	11 17.1		A	AX	10	1	1	2
7337		LEAR	11	21	0024	N07 W56	11 16.8		A	AX	20	1	1	3
7337	27680	SVTO	11	21	0900	N07 W58	11 17.0		A	AX	20	2	1	3
7337		RAMY	11	21	1303	N06 W60	11 17.0		A	AX	10	2	2	3
7337		MWIL	11	21	1545	N07 W62	11 17.0	4	(AP)					
7337		LEAR	11	22	0006	N07 W67	11 17.0		A	AX	10	1	1	4
7342	27686	RAMY	11	14	1220	S07 E43	11 17.7		A	AX		1		3
7342		MWIL	11	14	1530	S08 E40	11 17.6	4	(B)					
7342		HOLL	11	14	1640	S08 E40	11 17.7		B	BXO	30	4	3	3
7342		PALE	11	14	1715	S07 E39	11 17.6		B	BXO	30	5	3	3

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NOVEMBER 1992

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
7342		BOUL	11 14 1953	S08 E41	11 17.9		A	AX	10	3	2	3
7342		LEAR	11 15 0023	S07 E35	11 17.6		B	BXO	10	4	4	2
7342		SVTO	11 15 0838	S07 E30	11 17.6		B	CRO	30	7	4	3
7342		RAMY	11 15 1255	S07 E28	11 17.6		B	BXO	10	6	5	4
7342		HOLL	11 15 1600	S08 E26	11 17.6		B	BXO	20	9	5	4
7342		BOUL	11 15 1635	S07 E25	11 17.6		B	BXO	10	4	4	3
7342	27686	MWIL	11 15 1800	S08 E25	11 17.6	3	(B)					
7342		PALE	11 15 2230	S08 E23	11 17.7		B	BXO	20	11	5	2
7342		LEAR	11 16 0009	S07 E21	11 17.6		B	CRO	30	15	6	3
7342		RAMY	11 16 1224	S07 E13	11 17.5		B	DAO	50	13	5	5
7342		SVTO	11 16 1230	S06 E15	11 17.6		B	BXO	30	14	6	2
7342	27686	MWIL	11 16 1600	S07 E12	11 17.6	5	(B)					
7342		HOLL	11 16 1630	S07 E11	11 17.5		B	DAO	70	8	5	3
7342		PALE	11 16 2130	S04 E08	11 17.5		B	DAO	40	8	6	2
7342		LEAR	11 17 0014	S06 E07	11 17.5		B	BXO	60	8	5	3
7342		SVTO	11 17 1235	S07 E00	11 17.5		B	CSO	40	10	7	2
7342		RAMY	11 17 1240	S08 E01	11 17.6		B	DRO	30	16	8	3
7342		HOLL	11 17 1515	S07 W02	11 17.5		B	CAO	30	17	7	3
7342	27686	MWIL	11 17 1545	S07 W03	11 17.4	5	(B)					
7342		LEAR	11 18 0035	S08 W06	11 17.6		B	BXO	40	12	6	3
7342		RAMY	11 18 1301	S08 W13	11 17.6		B	DAO	60	14	7	3
7342		HOLL	11 18 1740	S08 W17	11 17.5		B	DAO	50	13	6	3
7342		LEAR	11 19 0004	S09 W22	11 17.3		B	CAO	60	14	7	3
7342		SVTO	11 19 0855	S09 W24	11 17.6		B	CAO	40	14	6	3
7342		RAMY	11 19 1328	S08 W28	11 17.5		B	DAO	70	10	7	2
7342	27686	MWIL	11 19 1600	S08 W30	11 17.4	5	(B)					
7342		HOLL	11 19 1750	S08 W31	11 17.4		B	DSO	50	11	6	2
7342		LEAR	11 20 0009	S09 W35	11 17.4		B	CAO	40	7	7	2
7342		SVTO	11 20 0713	S09 W37	11 17.5		B	DAO	60	4	6	3
7342		RAMY	11 20 1300	S08 W42	11 17.4		B	DAO	50	11	6	4
7342	27686	MWIL	11 20 1615	S08 W42	11 17.5	4	(B)					
7342		HOLL	11 20 1701	S08 W43	11 17.5		B	CAO	50	4	6	2
7342		PALE	11 20 2305	S09 W47	11 17.4		B	BXO	20	3	5	2
7342		LEAR	11 21 0024	S09 W47	11 17.5		B	DAO	70	8	6	3
7342		SVTO	11 21 0900	S07 W53	11 17.4		B	CSO	50	8	7	3
7342		RAMY	11 21 1303	S07 W55	11 17.4		B	CRO	40	8	6	3
7342	27686	MWIL	11 21 1545	S08 W58	11 17.3	4	(B)					
7342		HOLL	11 21 1620	S08 W58	11 17.3		B	CRO	40	5	3	1
7342		PALE	11 21 2230	S06 W62	11 17.3		B	BXO	20	3	4	2
7342		LEAR	11 22 0006	S08 W64	11 17.2		B	CSO	80	5	6	4
7342		SVTO	11 22 1200	S08 W73	11 17.0		B	BXO	20	4	6	3
7342	27686	MWIL	11 22 1545	S08 W71	11 17.3	4	(B)					
7342		LEAR	11 23 0028	S09 W77	11 17.2		B	CRO	90	3	3	3
7342		SVTO	11 23 0808	S08 W79	11 17.4		B	BXO	40	3	5	3
7342		RAMY	11 23 1243	S07 W85	11 17.2		A	HA	20	2	2	3
7342	27686	MWIL	11 23 1545	S08 W88	11 17.0	4	X					
7342		PALE	11 23 2310	S08 W88	11 17.4		A	HA	50	2	2	3
7342A	27687	MWIL	11 14 1530	N09 E56	11 18.8	3	(AF)					
7340		RAMY	11 13 1313	S09 E79	11 19.5		A	AX		1	1	3
7340	27684	MWIL	11 13 1530	S10 E77	11 19.4	3	(AP)					
7340		HOLL	11 13 1530	S10 E78	11 19.5		A	AX	20	1	1	4
7340		PALE	11 13 1950	S09 E71	11 19.1		A	HA	20	1	1	3
7340		LEAR	11 14 0007	S09 E71	11 19.3		A	AX	30	2	1	3
7340		SVTO	11 14 0925	S12 E65	11 19.3		A	AX	10	1	1	2
7340		RAMY	11 14 1220	S08 E65	11 19.4		A	AX	10	1	1	3
7340	27684	MWIL	11 14 1530	S10 E63	11 19.4	4	(AP)					
7340		HOLL	11 14 1640	S10 E62	11 19.3		A	AX		1		3
7340		PALE	11 14 1715	S08 E60	11 19.2		A	AX	10	1	1	3
7340		BOUL	11 14 1953	S09 E62	11 19.5		A	AX		1		3
7340		LEAR	11 15 0023	S09 E57	11 19.3		A	AX	10	1	1	2
7340		SVTO	11 15 0838	S08 E55	11 19.5		B	BXO	20	3	4	3
7340		RAMY	11 15 1255	S07 E51	11 19.3		B	BXO	10	3	4	4
7340		HOLL	11 15 1600	S08 E50	11 19.4		A	AX		1		4
7340		LEAR	11 16 0009	S11 E45	11 19.4		B	BXO	10	6	6	3
7340		RAMY	11 16 1224	S07 E39	11 19.4		A	AX	10	4	2	5
7340	27689	MWIL	11 16 1600	S10 E37	11 19.4	4	(AP)					
7340		HOLL	11 16 1630	S10 E36	11 19.4		B	BXO	30	8	9	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
7340		SVTO	11 17 1235	S06	E24	11 19.3		A	AX		1		2
7340		RAMY	11 17 1240	S09	E26	11 19.5		B	BXO		2	5	3
7340		HOLL	11 17 1515	S08	E22	11 19.3		B	BXO	10	3	2	3
7340	27689	MWIL	11 17 1545	S06	E22	11 19.3	5	(B)					
7340		LEAR	11 18 0035	S07	E17	11 19.3		A	AX	10	1	1	3
7340		RAMY	11 18 1301	S08	E11	11 19.4		B	BXO		3	3	3
7340		HOLL	11 18 1740	S09	E09	11 19.4		B	BXO	10	6	8	3
7340		LEAR	11 19 0004	S08	E03	11 19.2		B	BXO	20	3	4	3
7340		SVTO	11 19 0855	S08	E00	11 19.4		B	BXO	20	11	4	3
7340		RAMY	11 19 1328	S08	W03	11 19.3		B	BXO	20	8	5	2
7340	27689	MWIL	11 19 1600	S08	W05	11 19.3	4	(BG)					
7340		HOLL	11 19 1750	S08	W07	11 19.2		B	BXO	30	10	6	2
7340		LEAR	11 20 0009	S08	W09	11 19.3		B	BXO	20	5	6	2
7340		SVTO	11 20 0713	S09	W14	11 19.2		B	BXO	20	7	5	3
7340		RAMY	11 20 1300	S10	W16	11 19.3		B	BXO	10	6	8	4
7340	27689	MWIL	11 20 1615	S08	W18	11 19.3	4	(BG)					
7340		HOLL	11 20 1701	S08	W19	11 19.3		B	BXO	20	3	4	2
7340		LEAR	11 21 0024	S06	W23	11 19.3		B	BXO	10	4	7	3
7340A		SVTO	11 22 1200	S33	W38	11 19.5		B	BXO	10	2	3	3
7340A	27693	MWIL	11 22 1545	S32	W39	11 19.6	4	(B)					
7344		RAMY	11 14 1220	S10	E88	11 21.1		A	AX		1		3
7344		LEAR	11 15 0023	S14	E78	11 20.9		A	AX	10	1	1	2
7344		SVTO	11 15 0838	S14	E76	11 21.1		A	AX	20	1	1	3
7344		RAMY	11 15 1255	S13	E75	11 21.2		A	HR	20	2	3	4
7344		HOLL	11 15 1600	S14	E71	11 21.0		B	BXO	20	2	3	4
7344		BOUL	11 15 1635	S14	E74	11 21.3		A	AX		2		3
7344	27688	MWIL	11 15 1800	S15	E70	11 21.0	3	(AP)					
7344		PALE	11 15 2230	S13	E69	11 21.1		A	AX	10	1	1	2
7344		LEAR	11 16 0009	S14	E67	11 21.1		A	AX	10	2	1	3
7344		RAMY	11 16 1224	S13	E58	11 20.9		A	AX	10	3	2	5
7344		SVTO	11 16 1230	S13	E61	11 21.1		A	AX	20	2	2	2
7344	27688	MWIL	11 16 1600	S15	E58	11 21.0	4	(AP)					
7344		HOLL	11 16 1630	S15	E55	11 20.8		B	BXO	10	4	3	3
7344		PALE	11 16 2130	S11	E58	11 21.2		A	AX	10	1	1	2
7344		LEAR	11 17 0014	S15	E53	11 21.0		B	BXO	30	2	3	3
7344		SVTO	11 17 1235	S13	E47	11 21.1		A	AX	10	2	1	2
7344		RAMY	11 17 1240	S14	E46	11 21.0		B	BXO	10	2	3	3
7344		HOLL	11 17 1515	S15	E45	11 21.0		A	AX	10	2	1	3
7344	27688	MWIL	11 17 1545	S14	E45	11 21.0	4	(B)					
7344		LEAR	11 18 0035	S16	E42	11 21.2		B	BXO	10	2	2	3
7344		RAMY	11 18 1301	S16	E34	11 21.1		A	AX		1		3
7344		HOLL	11 18 1740	S14	E30	11 21.0		A	HR	10	1	1	3
7344		LEAR	11 19 0004	S17	E27	11 21.0		B	BXO	30	5	5	3
7344		SVTO	11 19 0855	S12	E21	11 20.9		B	EAI	10	3	5	3
7344		RAMY	11 19 1328	S15	E18	11 20.9		A	HR	10	3	2	2
7344	27688	MWIL	11 19 1600	S14	E17	11 20.9	4	(AP)					
7344		HOLL	11 19 1750	S15	E15	11 20.9		A	AX	20	3	2	2
7344		LEAR	11 20 0009	S16	E13	11 21.0		B	CSO	30	3	3	2
7344		SVTO	11 20 0713	S15	E09	11 21.0		B	BXO	10	3	2	3
7344		RAMY	11 20 1300	S15	E07	11 21.1		B	BXO	10	5	4	4
7344	27688	MWIL	11 20 1615	S15	E03	11 20.9	4	(AP)					
7344		HOLL	11 20 1701	S15	E05	11 21.1		B	BXO	20	2	3	2
7344		LEAR	11 21 0024	S15	W01	11 20.9		A	AX	10	1	1	3
7347A		RAMY	11 21 1303	S24	E03	11 21.8		A	AX		2	2	3
7347		HOLL	11 21 1620	S06	E07	11 22.2		A	AX	10	3	2	1
7347		PALE	11 21 2230	S06	E03	11 22.2		A	AX	10	3	2	2
7347		LEAR	11 22 0006	S07	E03	11 22.2		B	BXO	10	5	4	4
7347		SVTO	11 22 1200	S07	W05	11 22.1		B	DAO	70	18	6	3
7347	27694	MWIL	11 22 1545	S07	W07	11 22.1	4	(D)					
7347		BOUL	11 22 1651	S06	W08	11 22.1		B	CAO	30	8	6	2
7347		LEAR	11 23 0028	S06	W12	11 22.1		B	CAO	130	22	7	3
7347		SVTO	11 23 0808	S07	W16	11 22.1		B	DSO	130	21	8	3
7347		RAMY	11 23 1243	S07	W18	11 22.2		B	DAO	100	26	8	3
7347	27694	MWIL	11 23 1545	S07	W20	11 22.1	5	(B)					
7347		PALE	11 23 2310	S08	W22	11 22.3		B	DAO	270	23	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
7347		LEAR	11 24 0014	S08 W26	11 22.1		B	CAO	90	13	8	3
7347		SVTO	11 24 1440	S06 W35	11 22.0		B	DAO	130	12	9	3
7347	27694	MWIL	11 24 1530	S06 W35	11 22.0	4	(B)					
7347		HOLL	11 24 1615	S06 W37	11 21.9		B	DSO	130	17	9	4
7347		RAMY	11 24 1730	S07 W37	11 21.9		B	DAO	100	16	11	4
7347		PALE	11 24 2015	S08 W33	11 22.4		B	DSO	90	22	10	4
7347		LEAR	11 25 0005	S06 W39	11 22.1		B	EAO	50	28	11	4
7347		RAMY	11 25 1330	S06 W46	11 22.1		B	DAO	70	13	10	2
7347	27694	MWIL	11 25 1530	S05 W49	11 22.0	5	(B)					
7347		BOUL	11 25 1542	S06 W50	11 21.9		B	ESO	120	11	11	3
7347		HOLL	11 25 1600	S06 W48	11 22.1		A	HS	170	10	13	3
7347		PALE	11 25 1830	S08 W49	11 22.1		B	EAO	60	7	11	3
7347		LEAR	11 26 0005	S06 W55	11 21.9		B	EAO	140	10	12	4
7347		SVTO	11 26 0812	S07 W57	11 22.1		B	CAO	80	9	10	4
7347		RAMY	11 26 1240	S06 W59	11 22.1		B	EAO	90	8	11	4
7347		BOUL	11 26 1549	S06 W64	11 21.9		B	CSO	60	3	9	1
7347	27694	MWIL	11 26 1600	S05 W65	11 21.8	4	(B)					
7347		HOLL	11 26 1640	S06 W64	11 21.9		B	ESO	90	8	11	3
7347		PALE	11 26 1907	S07 W67	11 21.8		B	DSO	110	6	10	3
7347		LEAR	11 27 0012	S07 W71	11 21.7		B	EAO	230	4	11	3
7347		SVTO	11 27 0752	S06 W70	11 22.1		B	DHO	90	3	10	3
7347	27694	MWIL	11 27 1530	S05 W79	11 21.7	3	(B)					
7347		HOLL	11 27 1540	S07 W76	11 21.9		B	CSO	60	2	6	3
7347		PALE	11 27 1930	S09 W80	11 21.8		A	HR	50	1	1	3
7347		RAMY	11 27 2017	S07 W79	11 21.9		B	CSO	30	2	9	2
7345		LEAR	11 16 0009	S24 E90	11 22.9		A	AX	10	2	1	3
7345		RAMY	11 16 1224	S22 E79	11 22.6		B	EAO	160	7	14	5
7345	27690	SVTO	11 16 1230	S22 E76	11 22.4		B	CAO	180	11	11	2
7345		MWIL	11 16 1600	S24 E75	11 22.5	5	(B)					
7345		HOLL	11 16 1630	S25 E72	11 22.3		B	EAI	310	12	15	3
7345		PALE	11 16 2130	S20 E76	11 22.7		B	EAO	260	6	11	2
7345		LEAR	11 17 0014	S24 E71	11 22.5		B	EAI	270	12	12	3
7345		SVTO	11 17 1235	S23 E69	11 22.8		B	EAO	350	11	14	2
7345		RAMY	11 17 1240	S23 E66	11 22.6		B	EKI	480	16	13	3
7345		HOLL	11 17 1515	S24 E63	11 22.5		B	ESO	360	12	11	3
7345	27690	MWIL	11 17 1545	S23 E65	11 22.7	5	(D)					
7345		LEAR	11 18 0035	S26 E58	11 22.5		B	EAI	600	8	14	3
7345		RAMY	11 18 1301	S24 E52	11 22.5		B	EAI	380	17	12	3
7345		HOLL	11 18 1740	S22 E51	11 22.6		B	EAO	430	12	11	3
7345		LEAR	11 19 0004	S26 E44	11 22.4		B	EKO	400	16	15	3
7345		SVTO	11 19 0855	S23 E42	11 22.6		B	EAI	300	23	12	3
7345		RAMY	11 19 1328	S23 E38	11 22.5		B	EAI	300	31	15	2
7345	27690	MWIL	11 19 1600	S24 E39	11 22.7	5	(BF)					
7345		HOLL	11 19 1750	S23 E37	11 22.6		B	FSI	310	20	16	2
7345		LEAR	11 20 0009	S25 E33	11 22.6		B	FKO	310	21	16	2
7345		SVTO	11 20 0713	S25 E29	11 22.5		B	EAI	310	28	14	3
7345		RAMY	11 20 1300	S25 E28	11 22.7		B	EKO	360	38	13	4
7345	27690	MWIL	11 20 1615	S24 E27	11 22.8	5	(BG)					
7345		HOLL	11 20 1701	S24 E23	11 22.5		B	FAI	400	21	16	2
7345		PALE	11 20 2305	S22 E23	11 22.7		B	EAI	200	13	12	2
7345		LEAR	11 21 0024	S23 E21	11 22.6		B	FKO	290	30	16	3
7345		SVTO	11 21 0900	S26 E18	11 22.8		B	EAO	260	29	14	3
7345		RAMY	11 21 1303	S23 E16	11 22.8		B	EAO	210	19	13	3
7345	27690	MWIL	11 21 1545	S24 E14	11 22.7	5	(BF)					
7345		HOLL	11 21 1620	S24 E12	11 22.6		A	HA	200	19	15	1
7345		PALE	11 21 2230	S22 E10	11 22.7		B	ESO	210	9	11	2
7345		LEAR	11 22 0006	S23 E10	11 22.8		B	EAO	290	24	14	4
7345		SVTO	11 22 1200	S25 E01	11 22.6		B	FSO	160	16	16	3
7345	27690	MWIL	11 22 1545	S24 E02	11 22.8	5	(BG)					
7345		BOUL	11 22 1651	S23 E01	11 22.8		B	ESO	60	7	11	2
7345		LEAR	11 23 0028	S24 W03	11 22.8		B	EAO	150	11	11	3
7345		SVTO	11 23 0808	S24 W09	11 22.6		B	FSO	110	17	19	3
7345		RAMY	11 23 1243	S22 W12	11 22.6		B	CAO	120	23	18	3
7345	27690	MWIL	11 23 1545	S23 W11	11 22.8	4	(BF)					
7345		PALE	11 23 2310	S22 W16	11 22.7		B	CAO	130	20	18	3
7345		LEAR	11 24 0014	S24 W17	11 22.7		BG	EAO	140	6	12	3
7345		SVTO	11 24 1440	S23 W23	11 22.8		B	EAO	140	6	11	3
7345	27690	MWIL	11 24 1530	S23 W24	11 22.8	4	(BF)					

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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
7345		HOLL	11 24 1615	S23 W28	11 22.5		A	HS	120	6	13	4
7345		RAMY	11 24 1730	S22 W28	11 22.6		B	HA	90	12	18	4
7345		PALE	11 24 2015	S22 W29	11 22.6		B	ESO	70	7	12	4
7345		LEAR	11 25 0005	S23 W28	11 22.8		B	EAO	50	7	11	4
7345		RAMY	11 25 1330	S22 W33	11 23.0		B	EAO	100	16	15	2
7345	27690	MWIL	11 25 1530	S22 W37	11 22.8	5	(AF)					
7345		BOUL	11 25 1542	S24 W38	11 22.7		B	ESO	70	5	13	3
7345		HOLL	11 25 1600	S22 W39	11 22.7		B	DSI	120	9	10	3
7345		PALE	11 25 1830	S22 W42	11 22.5		A	ESO	30	8	15	3
7345		LEAR	11 26 0005	S24 W45	11 22.5		B	EAO	80	8	13	4
7345		SVTO	11 26 0812	S23 W45	11 22.9		B	ESO	40	8	15	4
7345		RAMY	11 26 1240	S24 W47	11 22.9		B	FAO	30	7	18	4
7345		BOUL	11 26 1549	S24 W50	11 22.8		B	BXO	40	4	14	1
7345	27690	MWIL	11 26 1600	S22 W50	11 22.8	4	(AF)					
7345		HOLL	11 26 1640	S23 W50	11 22.8		A	HA	40	9	16	3
7345		PALE	11 26 1907	S25 W54	11 22.6		B	CSO	50	4	13	3
7345		LEAR	11 27 0012	S24 W55	11 22.7		B	ESO	100	4	13	3
7345		SVTO	11 27 0752	S23 W58	11 22.8		B	BXO	30	2	14	3
7345	27690	MWIL	11 27 1530	S23 W65	11 22.6	4	(AF)					
7345		HOLL	11 27 1540	S25 W58	11 23.1		A	AX		2		3
7345		PALE	11 27 1930	S28 W58	11 23.3		A	AS	20	1	1	3
7345		RAMY	11 27 2017	S25 W59	11 23.3		A	AX	10	1		2
7345		LEAR	11 28 0040	S25 W63	11 23.1		A	AX	40	1	1	2
7345A		RAMY	11 21 1303	S14 E17	11 22.8		A	AX		2	2	3
7346		PALE	11 16 2130	S04 E80	11 22.9		A	HS	50	1	2	2
7346		LEAR	11 17 0014	S06 E82	11 23.1		A	HA	60	1	2	3
7346		SVTO	11 17 1235	S06 E79	11 23.4		BG	EAO	180	4	12	2
7346		RAMY	11 17 1240	S05 E79	11 23.4		B	EAO	340	8	11	3
7346		HOLL	11 17 1515	S08 E76	11 23.3		B	ESO	270	11	12	3
7346	27691	MWIL	11 17 1545	S06 E73	11 23.1	5	(B					
7346		LEAR	11 18 0035	S08 E69	11 23.2		B	EAO	460	7	13	3
7346		RAMY	11 18 1301	S06 E64	11 23.3		B	EAO	400	17	13	3
7346		HOLL	11 18 1740	S07 E61	11 23.3		B	EAI	320	20	13	3
7346		LEAR	11 19 0004	S10 E56	11 23.2		B	EKO	470	10	14	3
7346		SVTO	11 19 0855	S07 E54	11 23.4		B	EAI	320	27	12	3
7346		RAMY	11 19 1328	S06 E49	11 23.2		B	EAO	350	19	14	2
7346	27691	MWIL	11 19 1600	S06 E48	11 23.2	5	(BG)					
7346		HOLL	11 19 1750	S07 E48	11 23.3		B	ESO	410	17	13	2
7346		LEAR	11 20 0009	S08 E46	11 23.4		B	EKO	490	18	15	2
7346		SVTO	11 20 0713	S07 E40	11 23.3		B	EAO	420	19	14	3
7346		RAMY	11 20 1300	S07 E39	11 23.5		BG	FAO	530	30	16	4
7346	27691	MWIL	11 20 1615	S06 E35	11 23.3	5	(B)					
7346		HOLL	11 20 1701	S07 E34	11 23.2		B	EAO	680	19	14	2
7346		PALE	11 20 2305	S06 E32	11 23.3		B	EHI	470	13	13	2
7346		LEAR	11 21 0024	S08 E33	11 23.5		B	EKO	570	24	13	3
7346		RAMY	11 21 1303	S07 E26	11 23.5		B	EKO	510	27	13	3
7346	27691	MWIL	11 21 1545	S06 E22	11 23.3	5	(B)					
7346		HOLL	11 21 1620	S07 E22	11 23.3		B	EAO	460	24	14	1
7346		PALE	11 21 2230	S05 E18	11 23.3		B	ESO	380	10	12	2
7346		LEAR	11 22 0006	S07 E19	11 23.4		B	EKO	530	25	13	4
7346		SVTO	11 22 1200	S07 E13	11 23.5		B	FHO	420	26	16	3
7346	27691	MWIL	11 22 1545	S06 E08	11 23.2	5	(B)					
7346		BOUL	11 22 1651	S07 E09	11 23.4		B	EAO	420	14	13	2
7346		LEAR	11 23 0028	S08 E05	11 23.4		B	EKO	450	12	15	3
7346		SVTO	11 23 0808	S07 E02	11 23.5		B	FSO	480	19	17	3
7346		RAMY	11 23 1243	S07 E01	11 23.6		BG	FAO	480	31	17	3
7346	27691	MWIL	11 23 1545	S06 W05	11 23.3	5	(B)					
7346		PALE	11 23 2310	S08 W06	11 23.5		BG	FAO	490	35	18	3
7346		LEAR	11 24 0014	S09 W08	11 23.4		B	FAO	450	12	17	3
7346		SVTO	11 24 1440	S06 W15	11 23.5		B	FAO	450	14	18	3
7346	27691	MWIL	11 24 1530	S06 W16	11 23.4	5	(BG)					
7346		HOLL	11 24 1615	S07 W18	11 23.3		B	FSO	590	30	18	4
7346		RAMY	11 24 1730	S07 W13	11 23.7		BG	FKO	420	32	18	4
7346		PALE	11 24 2015	S08 W17	11 23.6		B	FHO	440	38	17	4
7346		LEAR	11 25 0005	S07 W20	11 23.5		B	FAO	380	26	18	4
7346		RAMY	11 25 1330	S07 W26	11 23.6		BG	FKO	470	12	17	2
7346	27691	MWIL	11 25 1530	S05 W30	11 23.4	5	(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
7346		BOUL	11 25 1542	S08 W31	11 23.3		B	EKO	490	8	14	3
7346		HOLL	11 25 1600	S05 W27	11 23.6		BG	FHI	600	13	19	3
7346		PALE	11 25 1830	S05 W28	11 23.7		BG	FKO	400	9	19	3
7346		LEAR	11 26 0005	S09 W36	11 23.3		BG	FHO	470	13	19	4
7346		SVTO	11 26 0812	S08 W37	11 23.6		B	FAO	450	11	17	4
7346		RAMY	11 26 1240	S07 W39	11 23.6		BG	FKO	350	15	17	4
7346		BOUL	11 26 1549	S07 W41	11 23.6		B	FKO	380	6	18	1
7346	27691	MWIL	11 26 1600	S06 W44	11 23.4	5	(B)					
7346		HOLL	11 26 1640	S07 W42	11 23.5		BG	FAI	460	14	18	3
7346		PALE	11 26 1907	S08 W42	11 23.6		BG	FSO	300	8	18	3
7346		LEAR	11 27 0012	S08 W48	11 23.4		BG	EHO	410	11	15	3
7346		SVTO	11 27 0752	S07 W51	11 23.5		B	EKO	370	7	13	3
7346	27691	MWIL	11 27 1530	S06 W57	11 23.4	4	(B)					
7346		HOLL	11 27 1540	S08 W57	11 23.4		B	ESO	410	7	14	3
7346		PALE	11 27 1930	S08 W58	11 23.5		BG	DSO	270	3	10	3
7346		RAMY	11 27 2017	S07 W57	11 23.6		BG	EAO	180	7	14	2
7346		LEAR	11 28 0040	S08 W58	11 23.7		BG	EAO	310	3	14	2
7346		SVTO	11 28 0810	S07 W63	11 23.6		B	EAO	270	6	13	3
7346		RAMY	11 28 1238	S08 W66	11 23.6		BG	EAO	260	4	13	3
7346		HOLL	11 28 1620	S07 W70	11 23.4		BG	EAO	310	5	12	3
7346		BOUL	11 28 1641	S07 W71	11 23.4		B	FAO	180	4	15	3
7346	27691	MWIL	11 28 1715	S06 W70	11 23.5	4	(B)					
7346		PALE	11 28 2320	S06 W76	11 23.3		B	FSO	210	3	20	2
7346		LEAR	11 29 0012	S08 W71	11 23.7		BG	EAO	210	3	14	2
7346		RAMY	11 29 1310	S07 W74	11 24.0		B	DAO	120	2	6	3
7346		BOUL	11 29 1622	S09 W81	11 23.6		B	DSO	80	2	6	3
7346		HOLL	11 29 1640	S07 W78	11 23.8		B	DSO	120	3	8	3
7346	27691	MWIL	11 29 1730	S06 W83	11 23.5	4	(AF)					
7346		PALE	11 29 2238	S08 W85	11 23.6		A	HS	80	1	5	2
7346		LEAR	11 30 0004	S06 W80	11 24.0		A	HA	90	2	3	3
7346A	27692	MWIL	11 17 1545	S10 E79	11 23.6	5	AP					
7346A	27692	MWIL	11 19 1600	S11 E55	11 23.8	5	(AP)					
7346A	27692	MWIL	11 20 1615	S11 E42	11 23.8	5	(AP)					
7346A	27692	MWIL	11 21 1545	S11 E28	11 23.8	5	(AP)					
7346A	27692	MWIL	11 22 1545	S11 E16	11 23.9	5	(BP)					
7346A	27692	MWIL	11 23 1545	S11 E02	11 23.8	5	(AP)					
7346A	27692	MWIL	11 24 1530	S11 W09	11 24.0	5	(AP)					
7346A	27692	MWIL	11 25 1530	S10 W24	11 23.8	5	(AP)					
7346A	27692	MWIL	11 26 1600	S10 W38	11 23.8	5	(BF)					
7346A	27692	MWIL	11 27 1530	S10 W51	11 23.8	5	(AP)					
7346A		RAMY	11 27 2017	S13 W16	11 26.6		A	AX		1		2
7346A		SVTO	11 28 0810	S12 W24	11 26.5		B	BXO	10	3	5	3
7346A	27692	MWIL	11 28 1715	S10 W65	11 23.8	5	(AP)					
7346A		LEAR	11 29 0012	S12 W34	11 26.4		B	BXO	20	2	3	2
7346A	27692	MWIL	11 29 1730	S10 W80	11 23.7	4	(AP)					
7349	27695	MWIL	11 22 1545	S06 E78	11 28.5	4	(AP)					
7349		LEAR	11 23 0028	S05 E71	11 28.3		A	AX	30	1	1	3
7349		SVTO	11 23 0808	S06 E66	11 28.3		A	HA	30	1	1	3
7349		RAMY	11 23 1243	S05 E64	11 28.3		A	HA	30	2	1	3
7349	27695	MWIL	11 23 1545	S06 E63	11 28.4	4	(AP)					
7349		PALE	11 23 2310	S05 E61	11 28.5		A	AX		1		3
7349		LEAR	11 24 0014	S06 E59	11 28.4		A	AX	40	1	1	3
7349		SVTO	11 24 1440	S05 E49	11 28.3		A	AX	10	1	1	3
7349	27695	MWIL	11 24 1530	S06 E49	11 28.3	4	(AP)					
7349		HOLL	11 24 1615	S06 E48	11 28.3		A	AX		1		4
7349		RAMY	11 24 1730	S06 E48	11 28.3		A	AX		2	1	4
7349		PALE	11 24 2015	S05 E48	11 28.4		A	AX	10	1	1	4
7349		LEAR	11 25 0005	S06 E46	11 28.4		A	AX		1	1	4
7349		LEAR	11 26 0005	S06 E33	11 28.5		A	AX	10	1	1	4
7348		SVTO	11 22 1200	N12 E83	11 28.7		A	HA	90	3	2	3
7348	27696	MWIL	11 22 1545	N12 E80	11 28.7	5	(AP)					
7348		BOUL	11 22 1651	N13 E80	11 28.7		A	HS	50	1	2	2
7348		LEAR	11 23 0028	N14 E73	11 28.5		B	CAO	260	3	4	3
7348		SVTO	11 23 0808	N12 E70	11 28.6		B	DSO	360	6	7	3
7348		RAMY	11 23 1243	N12 E67	11 28.6		BD	DKC	410	10	5	3
7348	27696	MWIL	11 23 1545	N12 E66	11 28.6	5	(BP)					

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NOAA/ USAF Group	Mt Wilson Group	Sta	Observation Time		Lat	CMD	CMP Mo	Max H	Mag Class	Spot Class	Corrected Area (10-6 Hemi)	Spot Count	Long. Extent (Deg)	Qual
7348		PALE	11	23	2310	N12 E66	11	28.9	BD	DKC	330	8	7	3
7348		LEAR	11	24	0014	N12 E63	11	28.7	B	DAO	400	4	9	3
7348		SVTO	11	24	1440	N12 E53	11	28.6	B	DAO	360	7	9	3
7348	27696	MWIL	11	24	1530	N12 E54	11	28.7	5	(BP)				
7348		HOLL	11	24	1615	N11 E53	11	28.7	BG	DKC	630	12	9	4
7348		RAMY	11	24	1730	N11 E54	11	28.8	B	DKI	370	11	8	4
7348		PALE	11	24	2015	N12 E54	11	28.9	BG	DKC	350	14	8	4
7348		LEAR	11	25	0005	N12 E50	11	28.8	B	DKO	390	7	6	4
7348		RAMY	11	25	1330	N13 E43	11	28.8	B	DKO	400	17	8	2
7348	27696	MWIL	11	25	1530	N12 E42	11	28.8	5	(D)				
7348		BOUL	11	25	1542	N12 E43	11	28.9	B	DKO	430	9	8	3
7348		HOLL	11	25	1600	N12 E42	11	28.8	BG	DKI	550	11	7	3
7348		PALE	11	25	1830	N14 E40	11	28.8	BG	DSO	400	10	10	3
7348		LEAR	11	26	0005	N12 E36	11	28.7	BD	DKO	460	13	8	4
7348		SVTO	11	26	0812	N12 E32	11	28.7	BD	DKO	510	14	9	4
7348		RAMY	11	26	1240	N12 E30	11	28.8	B	DKO	410	24	9	4
7348		BOUL	11	26	1549	N12 E29	11	28.8	B	DKO	340	8	6	1
7348	27696	MWIL	11	26	1600	N12 E29	11	28.8	5	(BG)				
7348		HOLL	11	26	1640	N12 E28	11	28.8	B	CKO	450	16	8	3
7348		PALE	11	26	1907	N12 E26	11	28.7	B	DKO	420	17	8	3
7348		LEAR	11	27	0012	N11 E23	11	28.7	BG	DHO	510	18	10	3
7348		SVTO	11	27	0752	N11 E20	11	28.8	BG	EAO	430	25	12	3
7348	27696	MWIL	11	27	1530	N12 E15	11	28.8	5	(BG)				
7348		HOLL	11	27	1540	N11 E16	11	28.8	BG	DHI	420	22	10	3
7348		PALE	11	27	1930	N12 E14	11	28.9	B	EHO	420	13	11	3
7348		RAMY	11	27	2017	N12 E14	11	28.9	BG	EKO	390	31	11	2
7348		LEAR	11	28	0040	N12 E10	11	28.8	BG	DKO	300	11	9	2
7348		SVTO	11	28	0810	N11 E08	11	28.9	BG	EHO	360	24	11	3
7348		RAMY	11	28	1238	N12 E06	11	29.0	BG	DKO	370	12	10	3
7348		HOLL	11	28	1620	N13 E02	11	28.8	B	DHO	400	13	10	3
7348		BOUL	11	28	1641	N13 E03	11	28.9	B	DKO	320	13	9	3
7348	27696	MWIL	11	28	1715	N12 E02	11	28.9	5	(BP)				
7348		PALE	11	28	2320	N12 W04	11	28.7	B	CHO	300	5	6	2
7348		LEAR	11	29	0012	N11 W02	11	28.8	BG	EKO	330	10	11	2
7348		RAMY	11	29	1310	N13 W10	11	28.8	BG	DKO	320	12	7	3
7348		BOUL	11	29	1622	N12 W11	11	28.8	B	CAO	210	9	7	3
7348		HOLL	11	29	1640	N12 W12	11	28.8	B	DHO	330	12	6	3
7348	27696	MWIL	11	29	1730	N12 W13	11	28.7	5	(BG)				
7348		PALE	11	29	2238	N12 W17	11	28.7	B	CHO	250	5	5	2
7348		LEAR	11	30	0004	N12 W15	11	28.9	BG	DAO	290	11	8	3
7348		SVTO	11	30	1117	N12 W22	11	28.8	B	CHO	210	5	6	2
7348		RAMY	11	30	1254	N12 W23	11	28.8	B	CKO	310	5	6	3
7348	27696	MWIL	11	30	1600	N12 W26	11	28.7	6	(BP)				
7348		HOLL	11	30	2002	N14 W27	11	28.8	B	CSO	260	7	8	2
7348		LEAR	12	01	0004	N14 W27	11	29.1	B	CHO	250	8	8	3
7348		SVTO	12	01	0950	N12 W34	11	28.9	BG	DSI	300	3	4	3
7348		RAMY	12	01	1237	N13 W36	11	28.9	B	CKO	310	5	5	4
7348	27696	MWIL	12	01	1600	N13 W39	11	28.8	5	(BG)				
7348		HOLL	12	01	1718	N13 W39	11	28.9	B	CSO	260	4	4	2
7348		PALE	12	01	2220	N12 W44	11	28.7	B	CSO	280	4	4	2
7348		LEAR	12	02	0007	N12 W43	11	28.9	B	CHO	290	6	8	2
7348		SVTO	12	02	1055	N12 W47	11	29.0	B	CSI	190	9	7	3
7348		RAMY	12	02	1215	N11 W48	11	29.0	B	CHO	240	6	9	3
7348		HOLL	12	02	1635	N12 W51	11	28.9	B	CSO	240	6	6	4
7348		PALE	12	02	1816	N10 W54	11	28.8	BG	EAO	340	2	3	4
7348	27696	MWIL	12	02	2030	N13 W54	11	28.9	5	(BP)				
7348		LEAR	12	03	0002	N12 W52	11	29.2	B	CAO	160	2	9	2
7348		SVTO	12	03	1007	N13 W61	11	28.9	B	BXO	260	3	6	3
7348		RAMY	12	03	1255	N11 W61	11	29.0	B	CAO	180	2	9	4
7348	27696	MWIL	12	03	1845	N13 W68	11	28.7	5	AP				
7348		PALE	12	03	1957	N09 W72	11	28.5	A	HS	160	1	2	3
7348		LEAR	12	04	0003	N12 W70	11	28.8	A	HS	220	1	2	2
7348		SVTO	12	04	0905	N12 W72	11	29.0	B	EAI	180	1	15	3
7348		RAMY	12	04	1400	N12 W79	11	28.7	A	HS	180	1	2	4
7348		PALE	12	04	2220	N08 W88	11	28.4	A	HS	60	1	4	2
7348		LEAR	12	05	0018	N12 W79	11	29.2	A	HA	120	1	4	2
7352		RAMY	11	23	1243	N21 E68	11	28.7	A	AX	10	1		3
7352		PALE	11	23	2310	N22 E68	11	29.2	A	AX	40	4	2	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
7352	27698	LEAR	11	24	0014	N22 E64	11 28.9		B	BXO	50	2	4	3
7352		MWIL	11	24	1530	N21 E55	11 28.9	4	(B)					
7352		HOLL	11	24	1615	N20 E55	11 28.9		B	BXO	10	7	7	4
7352		RAMY	11	24	1730	N20 E56	11 29.0		B	BXO	30	7	8	4
7352		PALE	11	24	2015	N22 E54	11 29.0		B	BXO	60	8	8	4
7352	27698	LEAR	11	25	0005	N22 E53	11 29.1		B	BXO	30	10	8	4
7352		RAMY	11	25	1330	N21 E45	11 29.0		B	BXO	30	17	8	2
7352		MWIL	11	25	1530	N20 E42	11 28.8	4	(B)					
7352		BOUL	11	25	1542	N21 E42	11 28.9		B	BXO	20	9	7	3
7352		HOLL	11	25	1600	N20 E42	11 28.9		A	CRI	100	9	8	3
7352	27698	PALE	11	25	1830	N23 E40	11 28.8		B	BXO	20	7	5	3
7352		LEAR	11	26	0005	N21 E38	11 28.9		B	BXO	40	8	8	4
7352		SVTO	11	26	0812	N20 E33	11 28.9		B	BRO	40	8	8	4
7352		RAMY	11	26	1240	N20 E30	11 28.8		B	CAO	40	19	7	4
7352		BOUL	11	26	1549	N21 E31	11 29.0		B	BXO	30	7	8	1
7352	27698	MWIL	11	26	1600	N20 E30	11 29.0	4	(B)					
7352		HOLL	11	26	1640	N19 E29	11 28.9		BG	DAI	50	12	9	3
7352		PALE	11	26	1907	N20 E27	11 28.9		B	DSO	50	13	10	3
7352		LEAR	11	27	0012	N19 E25	11 28.9		B	DAO	120	15	10	3
7352		SVTO	11	27	0752	N19 E20	11 28.8		B	EAO	70	11	11	3
7352	27698	MWIL	11	27	1530	N20 E18	11 29.0	4	(BG)					
7352		HOLL	11	27	1540	N20 E16	11 28.9		B	DAO	90	23	10	3
7352		PALE	11	27	1930	N21 E18	11 29.2		B	DAO	110	7	8	3
7352		RAMY	11	27	2017	N20 E14	11 28.9		B	DAO	80	21	10	2
7352		LEAR	11	28	0040	N21 E14	11 29.1		B	CAO	120	12	8	2
7352	27698	SVTO	11	28	0810	N19 E08	11 28.9		B	ESO	120	24	12	3
7352		RAMY	11	28	1238	N18 E05	11 28.9		B	EAI	110	23	12	3
7352		HOLL	11	28	1620	N20 E04	11 29.0		B	DAI	150	22	10	3
7352		BOUL	11	28	1641	N21 E04	11 29.0		B	DAI	170	28	10	3
7352		MWIL	11	28	1715	N20 E04	11 29.0	5	(B)					
7352	27698	PALE	11	28	2320	N20 W04	11 28.7		B	DAO	130	13	10	2
7352		LEAR	11	29	0012	N21 W01	11 28.9		B	EAO	160	19	11	2
7352		RAMY	11	29	1310	N20 W09	11 28.9		B	EAO	120	19	11	3
7352		BOUL	11	29	1622	N20 W09	11 29.0		B	ESI	130	21	11	3
7352		HOLL	11	29	1640	N20 W10	11 28.9		B	EAI	170	24	12	3
7352	27698	MWIL	11	29	1730	N20 W10	11 29.0	5	(B)					
7352		PALE	11	29	2238	N19 W16	11 28.7		B	EAI	110	18	11	2
7352		LEAR	11	30	0004	N20 W13	11 29.0		B	EAI	180	27	12	3
7352		SVTO	11	30	1117	N18 W19	11 29.0		BG	EAO	170	31	13	2
7352		RAMY	11	30	1254	N20 W22	11 28.8		B	EAO	180	31	13	3
7352	27698	MWIL	11	30	1600	N19 W24	11 28.8	5	(D)					
7352		HOLL	11	30	2002	N22 W25	11 28.9		B	EAI	350	17	13	2
7352		LEAR	12	01	0004	N21 W28	11 28.9		B	EAO	290	22	13	3
7352		SVTO	12	01	0950	N20 W34	11 28.9		B	ESO	320	29	12	3
7352		RAMY	12	01	1237	N20 W35	11 28.9		B	EAI	220	32	12	4
7352	27698	MWIL	12	01	1600	N21 W36	11 29.0	5	(BG)					
7352		HOLL	12	01	1718	N21 W38	11 28.9		BG	ESI	300	25	11	2
7352		PALE	12	01	2220	N19 W41	11 28.9		BG	EAO	340	24	13	2
7352		LEAR	12	02	0007	N20 W41	11 29.0		BG	EAI	330	14	12	2
7352		SVTO	12	02	1055	N20 W49	11 28.8		BG	EAI	200	24	14	3
7352	27698	RAMY	12	02	1215	N19 W48	11 28.9		BG	EAI	240	22	13	3
7352		HOLL	12	02	1635	N21 W50	11 28.9		BG	EAI	340	27	13	4
7352		PALE	12	02	1816	N17 W53	11 28.8		B	CSO	480	19	14	4
7352		MWIL	12	02	2030	N21 W53	11 28.9	5	(B)					
7352		LEAR	12	03	0002	N21 W53	11 29.0		B	EAO	170	12	14	2
7352	27698	SVTO	12	03	1007	N20 W60	11 28.9		B	FSI	270	21	17	3
7352		RAMY	12	03	1255	N19 W63	11 28.8		B	EAI	300	17	14	4
7352		MWIL	12	03	1845	N21 W65	11 28.9	5	B					
7352		PALE	12	03	1957	N18 W70	11 28.6		B	FAO	350	9	18	3
7352		LEAR	12	04	0003	N20 W69	11 28.8		B	FSO	160	9	20	2
7352	27697	SVTO	12	04	0905	N20 W70	11 29.1		A	HK	270	14	6	3
7352		RAMY	12	04	1400	N20 W76	11 28.9		B	FSI	210	9	17	4
7352		PALE	12	04	2220	N17 W79	11 29.0		B	CAO	50	3	6	2
7352		LEAR	12	05	0018	N21 W82	11 28.8		B	DAO	130	6	8	2
7350		LEAR	11	23	0028	S19 E81	11 29.2		A	HA	60	1	2	3
7350	27697	SVTO	11	23	0808	S19 E75	11 29.1		A	HA	90	2	3	3
7350		RAMY	11	23	1243	S19 E75	11 29.2		B	CAO	90	4	9	3
7350		MWIL	11	23	1545	S18 E74	11 29.3	4	(AP)					

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

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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
7350		PALE	11	23	2310	S18 E70	11 29.3		A	HA	100	1	1	3
7350		LEAR	11	24	0014	S19 E68	11 29.2		A	HA	120	1	2	3
7350		SVTO	11	24	1440	S18 E56	11 28.9		A	HA	80	1	1	3
7350	27697	MWIL	11	24	1530	S18 E60	11 29.2	4	(AP)					
7350		HOLL	11	24	1615	S20 E59	11 29.2		B	CSO	130	4	5	4
7350		RAMY	11	24	1730	S21 E60	11 29.3		B	CAO	100	5	8	4
7350		PALE	11	24	2015	S20 E63	11 29.7		B	CAO	50	4	6	4
7350		LEAR	11	25	0005	S19 E57	11 29.3		B	CAO	40	3	7	4
7350		RAMY	11	25	1330	S19 E49	11 29.3		B	CSO	70	5	7	2
7350	27697	MWIL	11	25	1530	S18 E49	11 29.4	4	(AP)					
7350		BOUL	11	25	1542	S19 E50	11 29.5		B	DSO	120	3	7	3
7350		HOLL	11	25	1600	S18 E47	11 29.2		B	DSO	110	3	6	3
7350		LEAR	11	26	0005	S21 E43	11 29.3		B	CSO	100	4	7	4
7350		SVTO	11	26	0812	S20 E38	11 29.2		B	CAO	80	5	7	4
7350		RAMY	11	26	1240	S20 E37	11 29.3		B	DAO	70	9	8	4
7350		BOUL	11	26	1549	S20 E37	11 29.5		B	CSO	140	5	8	1
7350	27697	MWIL	11	26	1600	S19 E35	11 29.3	5	(BP)					
7350		HOLL	11	26	1640	S21 E35	11 29.4		B	DSO	100	9	8	3
7350		LEAR	11	27	0012	S21 E32	11 29.5		B	DSO	110	5	10	3
7350		SVTO	11	27	0752	S20 E25	11 29.2		B	CSO	110	5	8	3
7350	27697	MWIL	11	27	1530	S19 E23	11 29.4	5	(BP)					
7350		HOLL	11	27	1540	S20 E22	11 29.3		B	DSO	90	4	8	3
7350		RAMY	11	27	2017	S21 E21	11 29.4		B	CAO	80	6	7	2
7350		LEAR	11	28	0040	S21 E18	11 29.4		B	DSO	120	4	7	2
7350		SVTO	11	28	0810	S20 E14	11 29.4		B	DSO	110	6	10	3
7350		RAMY	11	28	1238	S21 E12	11 29.4		B	DSO	80	5	7	3
7350		HOLL	11	28	1620	S21 E09	11 29.4		B	CSO	80	6	8	3
7350		BOUL	11	28	1641	S21 E09	11 29.4		B	DSO	70	3	6	3
7350	27697	MWIL	11	28	1715	S19 E07	11 29.2	5	(G)					
7350		LEAR	11	29	0012	S22 E04	11 29.3		B	CAO	110	6	7	2
7350		RAMY	11	29	1310	S19 W03	11 29.3		B	CSO	100	6	7	3
7350		BOUL	11	29	1622	S19 W05	11 29.3		B	CSO	70	3	6	3
7350		HOLL	11	29	1640	S19 W07	11 29.2		B	CSO	80	3	5	3
7350	27697	MWIL	11	29	1730	S19 W07	11 29.2	5	(AP)					
7350		LEAR	11	30	0004	S19 W08	11 29.4		B	CSO	60	5	5	3
7350		SVTO	11	30	1117	S21 W14	11 29.4		B	CSO	60	2	6	2
7350		RAMY	11	30	1254	S21 W16	11 29.3		B	CAO	50	2	5	3
7350	27697	MWIL	11	30	1600	S21 W18	11 29.3	5	(AP)					
7350		HOLL	11	30	2002	S18 W21	11 29.2		B	CSO	80	2	6	2
7350		LEAR	12	01	0004	S19 W24	11 29.3		B	CSO	70	2	5	3
7350		SVTO	12	01	0950	S19 W29	11 29.3		A	HA	90	1	2	3
7350		RAMY	12	01	1237	S19 W31	11 29.3		A	HA	60	1	2	4
7350	27697	MWIL	12	01	1600	S19 W32	11 29.3	5	(BP)					
7350		HOLL	12	01	1718	S19 W34	11 29.2		A	HS	40	1	2	2
7350		PALE	12	01	2220	S20 W35	11 29.3		A	HX	100	1	2	2
7350		LEAR	12	02	0007	S18 W37	11 29.3		A	HS	90	1	2	2
7350		SVTO	12	02	1055	S19 W45	11 29.1		A	HA	60	1	2	3
7350		RAMY	12	02	1215	S20 W43	11 29.3		A	HS	60	1	2	3
7350		HOLL	12	02	1635	S19 W46	11 29.3		A	HS	60	1	2	4
7350		PALE	12	02	1816	S21 W47	11 29.2		A	HS	100	1	2	4
7350	27697	MWIL	12	02	2030	S19 W49	11 29.2	5	(AP)					
7350		LEAR	12	03	0002	S19 W50	11 29.3		A	HA	50	1	2	2
7350		SVTO	12	03	1007	S19 W56	11 29.2		A	HS	70	1	2	3
7350		RAMY	12	03	1255	S20 W58	11 29.2		A	HA	80	1	2	4
7350	27697	MWIL	12	03	1845	S19 W62	11 29.1	5	AP					
7350		PALE	12	03	1957	S23 W64	11 29.0		A	HS	40	1	1	3
7350		LEAR	12	04	0003	S20 W62	11 29.3		A	HS	90	1	2	2
7350		SVTO	12	04	0905	S19 W67	11 29.4		A	HA	130	1	3	3
7350		RAMY	12	04	1400	S21 W71	11 29.2		A	HS	60	1	2	4
7350		PALE	12	04	2220	S23 W79	11 28.9		A	HS	50	1	2	2
7350		LEAR	12	05	0018	S20 W81	11 28.9		A	HS	60	1	2	2
7350		RAMY	12	05	1349	S21 W85	11 29.1		A	HS	60	1	2	4
7351		SVTO	11	23	0808	S15 E80	11 29.4		A	AX	20	1	1	3
7351		RAMY	11	23	1243	S14 E79	11 29.5		B	CAO	50	4	4	3
7351		PALE	11	23	2310	S15 E75	11 29.6		A	HA	50	1	1	3
7351		LEAR	11	24	0014	S16 E72	11 29.5		A	HA	90	1	1	3
7351		SVTO	11	24	1440	S16 E60	11 29.2		A	AX	40	1	1	3
7351		HOLL	11	24	1615	S17 E62	11 29.4		B	CSO	40	4	5	4

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(Ordered by Central Meridian Passage Date)

NOVEMBER 1992

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
7351		RAMY	11 24 1730	S16 E65	11 29.6		B	CAO	90	7	6	4
7351		PALE	11 24 2015	S15 E67	11 29.9		B	CAO	40	4	5	4
7351		LEAR	11 25 0005	S16 E61	11 29.6		B	CAO	40	5	4	4
7351		RAMY	11 25 1330	S16 E51	11 29.4		B	CSO	50	6	3	2
7351		BOUL	11 25 1542	S16 E51	11 29.5		A	HA	60	4	2	3
7351		HOLL	11 25 1600	S16 E50	11 29.4		A	HA	80	3	3	3
7351		PALE	11 25 1830	S15 E50	11 29.5		B	DSO	150	7	8	3
7351		LEAR	11 26 0005	S20 E46	11 29.5		B	CSO	60	4	3	4
7351		SVTO	11 26 0812	S17 E41	11 29.4		B	CAO	60	2	2	4
7351		RAMY	11 26 1240	S16 E38	11 29.4		B	CAO	20	5	3	4
7351		BOUL	11 26 1549	S16 E38	11 29.5		A	HA	40	2	1	1
7351		HOLL	11 26 1640	S17 E37	11 29.5		A	HA	30	4	3	3
7351		PALE	11 26 1907	S19 E36	11 29.5		B	DSO	80	10	9	3
7351		LEAR	11 27 0012	S18 E34	11 29.6		B	CSO	70	6	5	3
7351		SVTO	11 27 0752	S17 E28	11 29.4		B	CSO	40	8	5	3
7351		HOLL	11 27 1540	S17 E25	11 29.5		B	BXO	20	14	5	3
7351		PALE	11 27 1930	S19 E22	11 29.5		B	DSI	90	12	9	3
7351		RAMY	11 27 2017	S16 E23	11 29.6		B	CRO	40	16	6	2
7351		LEAR	11 28 0040	S17 E21	11 29.6		B	CAO	60	8	5	2
7351		SVTO	11 28 0810	S16 E16	11 29.5		B	BXO	40	13	5	3
7351		RAMY	11 28 1238	S17 E15	11 29.7		B	BXO	20	8	5	3
7351		HOLL	11 28 1620	S16 E11	11 29.5		B	BXO	20	11	6	3
7351		BOUL	11 28 1641	S16 E12	11 29.6		A	AX	10	4	2	3
7351		PALE	11 28 2320	S18 E08	11 29.6		B	CSO	70	6	8	2
7351		LEAR	11 29 0012	S16 E07	11 29.5		B	BXO	30	3	3	2
7351		RAMY	11 29 1310	S15 E01	11 29.6		B	BXO	70	3	3	3
7351		PALE	11 29 2238	S20 W05	11 29.6		A	HS	30	1	1	2
7351		RAMY	11 30 1254	S15 W17	11 29.2		B	BXO		3	2	3
7356		RAMY	12 03 1255	S12 W38	11 30.7		B	CRO	10	2	3	4
7356	27702	MWIL	12 03 1845	S12 W42	11 30.6	4	X					
7356		PALE	12 03 1957	S15 W42	11 30.6		A	AX	10	1	1	3
7356		LEAR	12 04 0003	S12 W44	11 30.7		A	AX	10	1	1	2
7356		RAMY	12 04 1400	S13 W52	11 30.6		A	HR	20	1	1	4
7356		PALE	12 04 2220	S16 W59	11 30.4		B	BXO	30	5	3	2
7356		LEAR	12 05 0018	S12 W60	11 30.5		B	BXO	50	4	5	2
7356		RAMY	12 05 1349	S13 W67	11 30.5		B	CRO	30	6	6	4
7356	27702	MWIL	12 05 1600	S12 W68	11 30.5	4	(B)					
7356		PALE	12 05 2201	S13 W74	11 30.3		A	AX	30	2	2	3
7356		LEAR	12 06 0015	S12 W72	11 30.6		A	AX	30	1	1	2

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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NOVEMBER 1992

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	0104	0110	0126	1-	1			1			0050	C1.6	
01	0132	0136	0144	1-	1			1			0131	C1.3	
01	0704	0710	0726	1-	1			1			0658	C1.1	
01	0830	0834	0854	1-	5		1	1			0825	C1.5	
01	0859	0901	0931	1	3		2				No flare		
01	0900	0925	0949	1	3		2				*		
01	1006	1010	1016	1-	5			1		4	1005	C2.8	
01	1146	1154	1208	1-	5	1	4	1		6	1142	C4.9	
01	1229	1234	1249	1-	5					4	1234	C2.6	
01	1526	1529	1546	1-	3					7	1526	C2.2	
01	1606	1607	1615	1-	3					3	1605	C1.2	
01	2038	2042	2053	1-	3					2	2039	C1.3	
02	0044	0058	0120	1-	1			1			0040	C1.4	
02	0232	0304	0940	3	5	1		1		1	0231	X9.0	
02	0533	0538	0548	1+	1	1					*		
02	1043	1054	1138	1-	5		1			1	No flare		
02	1255	1311	1419	1	1		1				1226		7323
03	1724	1729	1750	1	3					7	1723	C2.4	
03	1958	1959	2030U	1+	1					1	1958	B9.6	
04	0134	0138	0158	1-	1			1			0130	C1.4	
04	0452	0504	0542	1-	5			1		1	0451	C2.4	
04	1056	1104	1124	1-	5			1		4	1052	C3.7	
04	1508	1511	1527	1-	3					5	1506	C1.8	
04	1803	1808	1814	1-	1					1	1802	C1.2	
04	2328	2338	2358	1-	1			1			2327	C1.4	
05	0618	0624	0738	3-	3	1	2	1		1	0617	M2.0	
05	0759	0806	0819	1+	3		2				0746E		
05	0825	0829	0836	1-	3					2	0823	C1.6	
05	0910	0914	0930	1-	5			1		4	0911E	C4.3	
05	1144	1155	1230	1+	3		2				*		
05	1323	1325	1333	1-	1					1	1324	C2.2	
05	1600	1603	1610	1-	1					1	1600	C1.1	
05	2030	2042	2058	1-	5	1		1		5	2026	C8.2	
06	0128	0134	0156	1-	1			1			0126	C1.3	
06	0544	0550	0620	1-	1			1			0541	C1.1	
06	1049	1053	1112	1-	3					2	1049	C1.6	7334
06	1055	1107	1123	1	1		1				1049	C1.6	7334
06	1200	1203	1210	1-	1					1	1156	B7.1	
06	1300	1304	1315	1-	1					1	1259	C1.5	
06	1420	1422	1432	1-	1					1	1415	C1.3	7334
07	1036	1044	1102	1	1		1				No flare		
07	1110	1115	1150	1	1		1				No flare		
07	1622	1629	1710	2	3					5	1625E	C3.7	7332
08	0850	0853	0905	1-	1					1	0850	B9.1	
08	0905	0921	0933	1	1		1				No flare		
08	1305	1314	1336	1	5		1			1	1311	C1.3	7330
08	1417	1422	1436	1-	5		1			7	1419E	C5.0	7330
08	1457	1501	1518	1-	5					8	1458	C3.1	
08	1523	1525	1533	1-	1					1	No flare		
08	1543	1547	1601	1-	1					1	No flare		
09	0028	0038	0128	1-	1			1			0007	C2.8	7330
09	0158	0201	0215U	1-	1					1	0158		7330
09	0714	0717	0733	1	1		1				No flare		
09	1351	1403	1423	1+	1		1				No flare		
09	1432	1434	1453	1	3					2	1434E	C1.8	7330
09	1724	1731	1758	1+	3					3	1721	C2.8	7330
10	0756	0810	0823	1	1		1				0806	C1.3	7330
10	0954	1000	1014	1-	5			1		5	0951	C2.9	

* = no flare patrol.

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SUDDEN IONOSPHERIC DISTURBANCES

NOVEMBER 1992

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			
10	1200	1206	1215	1-	1					1	1200	C1.4	
10	1408	1414	1426	1-	1					1	1411	B9.5	
10	1618	1628	1647	1+	1					1	No flare		
10	1728	1730	1743	1-	1					1	1727	C1.4	
10	1950	1955	2030	2	1					1	1935	B8.1	
10	2348	2356	2422	1-	1			1			2346	C2.2	
11	1758	1800	1810	1-	1					1	1756	B4.9	
12	0005	0010	0100	2+	1					1	0028	C1.0	7337
12	0142	0150	0212	1-	1			1			0141	B9.8	
12	1255	1319	1400	1+	3		2				No flare		
12	2055	2122	2156	2+	1					1	No flare		
12	2228	2230	2247	1	3					2	2225	B4.6	
13	1538	1601	1705	2	3					2	1557		7337
14	0809	0813	0839	1	1		1				No flare		
14	1118E	1129	1157	2	1					1	No flare		
14	2234	2240	2308	1-	1			1			2231	C1.9	
15	0416	0426	0444	1-	1			1			0410	C1.6	
15	0840	0846	0912	1-	5			1		5	0830	C5.5	
15	0954	0958	1008	1-	5			1		5	0950	C2.1	
15	1152	1154	1206	1-	3					4	1151	C2.1	
15	1908	1914	2001	2	1					1	1901		7335
16	0144	0156	0234	1	3	1		1			0147	C4.0	
16	1331	1343	1411	1+	1		1				1332	C2.9	
16	1420	1424	1445	1	1					1	*		
16	1601	1606	1626	1+	3					2	1601	C1.2	
16	1621	1626	1647	1+	1					1	1621	C2.0	
16	1718	1720	1736D	1-	1					1	1718		7345
16	1737	1741	1811	1+	3					2	1736	C4.1	
16	1900	1913	1930	1+	1					1	1842	C1.8	
16	1953	1957	2013	1	1					1	1953	C2.1	7345
16	2025	2030	2045	1-	3					5	2021	C3.9	
16	2132	2146	2214	1-	5			1		3	2130	C3.7	7345
16	2304	2306	2319	1-	1					1	2304		
16	2330	2336	2358	1-	1			1			2326	C3.5	
17	0758	0809	0841	1+	1		1				No flare		
17	0829E	0832	0844	1-	1					1	0816	C1.6	
17	1158	1201	1210	1-	1						1145	C1.3	
18	1231	1244	1320	2+	1						1229	C1.1	
18	1458	1510	1527	1	1		1				No flare		
18	1924	1942	2102	3-	3					6	1902	M1.3	7345
19	0304	0314	0334	1-	5			1		1	0238	C1.8	
19	1017	1019	1021	1-	1					1	1018	B9.8	7346
19	2020	2032	2100	1-	5			1		4	2018	C9.9	7345
19	2300	2404	2600D	1	1			1			2328	C5.6	7345
21	0342	0350	0416	1-	1			1			*		
21	0610	0615	0810	1	1					1	No flare		
21	0710	0714	0746	2	1			1			0710	C5.0	7341
21	1428	1430	1444	1-	5					2	1426	C1.9	
21	1959	2000	2010U	1-	1					1	1959	C1.2	7346
22	1138	1142	1151	1-	3					3	1139	C3.3	
22	1304	1306	1318	1-	5	1	2	1		9	1301	M1.4	
22	1708	1717	1730U	1	1					1	1706	C1.9	
22	1757	1800	1818	1-	3					3	1756	C3.0	
22	2204	2208	2224	1-	1			1			2153	C1.7	
22	2306	2312	2354	2+	3	1		1			2258	M1.6	7348

* = no flare patrol.

SUDDEN IONOSPHERIC DISTURBANCES

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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			
23	0234	0254	0330	1	3	1		1			0232	C5.4	
23	0338	0344	0416	2	3	1		1			0331	C8.5	7348
23	0430	0436	0542	2-	1			1			0430	C9.1	7347
23	0706	0706	0729	1	1					1	No flare		
23	0848	0854	0920	1-	5			1		4	0845	C5.8	7348
23	0911	0912	0930	1	1					1	0912		7347
23	0938	0948	1014	1-	5			1		4	0931	C5.0	7347
23	1356	1358	1414	1-	5					5	1357	C4.0	7342
23	1638	1645	1700	1	3					2	1639	C2.4	
23	1742	1745	1758	1-	1					1	1742	C2.4	7347
23	1923	1930	1958	2-	3					2	1923	C4.3	7347
23	2016	2040	2130	2-	5	1		1		4	2018	M4.4	7342
24	0102	0112	0128D	1-	1			1			0059	C2.9	
24	0128E	0132	0150	1-	1			1			0128	C3.0	
24	0358	0402	0422	1-	1			1			0357	C1.5	
24	0534	0542	0608	1-	1			1			0534	C1.8	7342
24	0703	0716	0737	1	1		1				*		
24	0838	0848	0930	1	5			1		3	0837	C8.0	
24	1000	1004	1028	1-	5	1	2	1		5	0959	C6.9	
24	1336	1345	1408	1+	1					1	No flare		
24	1416	1426	1446	1+	5					4	1413	C5.9	
24	1544	1557	1625	2-	5					6	1547	C5.4	
24	2030	2038	2100	1+	5			1		5	2028	C6.4	
25	0146	0158	0238D	1	1			1			0145	C2.6	
25	0238E	0242	0300	1-	1			1			0239	C2.3	7348
25	1224	1228	1243	1-	5		1			1	1221	C1.1	
25	1606	1610	1700	2+	1					1	No flare		
25	1746	1752	1817	1+	1					1	No flare		
26	0530	0542	0616	1	1			1			0530	C3.4	
26	1123	1129	1152	1+	5		1			1	No flare		
26	1152	1156	1223	1+	1					1	No flare		
26	1244	1245	1302	1-	1					1	1244	C2.8	7348
27	0819	0821	0900	1+	1		1				No flare		
27	1242	1248	1314	1-	5	1	3	1		5	1228	C8.5	
27	1359	1403	1417	1-	5					2	1400E	C2.5	7348
28	0016	0022	0044	1-	1			1			0014	C2.1	7348
28	0943	0945	1005	1-	1					1	0941	C1.2	7348
28	1606	1614	1634	1+	3					4	1606	C3.6	7348
28	1930	1934	2000	1+	1					1	1903	C1.8	7348
28	2012	2017	2032	1	1					1	2001	C2.8	7348
29	0824	0846	0948	1-	1			1			0815	C9.1	
29	0927	0929	0945	1	1		1				No flare		
29	1230	1234	1252	1-	5	2	2	1		8	1230	M1.4	7351
29	1808	1815	1830U	1	1					1	1758	C1.1	
29	1940	1945	2105	2+	1					1	1937	C1.0	
29	2340	2350	2416	1-	1			1			2343	C2.0	7348
30	0024	0028	0040	1-	1			1			0022	C1.4	
30	0656	0702	0730	1-	5			1		1	0649	C1.4	7348
30	0931	0932	0945	1-	1					1	0932		7348
30	1244	1250	1316	1-	5		1	1		3	1245	C5.5	7352
30	1511	1513	1526	1-	3					2	1511	C1.4	7348
30	1923	1928	1948	1	3					5	1935E	M2.6	7353
30	2025	2026	2033	1-	1					1	*		
30	2238	2242	2300	1-	5			1		1	2236	C1.7	

* = no flare patrol.

SUDDEN IONOSPHERIC DISTURBANCES

NOVEMBER 1992

OBSERVATORIES REPORTING FOR NOVEMBER 1992

Amherst, New Hampshire, USA	SES	Louisville, Kentucky, USA	SES
Athens, Georgia, USA	SES	Madison, Wisconsin, USA	SES
Ayrshire, Scotland	SES	Manahawkin, New Jersey, USA	SES
Boksburg, Rep of S. Africa	SES	Maui, Hawaii, USA	SWF
Cranford, New Jersey, USA	SES	Nerja, Spain	SES
Darmstadt, Germany	SWF	Panska Ves, Czechoslovakia	SES, SEA, SWF
Farsta, Sweden	SES	Paterson, New Jersey, USA	SES
Gettysburg, Pennsylvania, USA	SES	Piscataway, New Jersey, USA	SES
Hiraiso, Japan	SWF	Rimavska Sobota, Czechoslovakia	SEA
Houston, Texas, USA	SES	Rochester, New Hampshire, USA	SES
Hudson, Ohio, USA	SES	San Francisco, California, USA	SES
Huntsville, Alabama, USA	SES	Sofia, Bulgaria	SES
Inubo, Japan	SPA	Tucson, Arizona, USA	SES
Itapetinga, Brazil	SPA, SES	Upice, Czechoslovakia	SEA
Kandilli, Turkey	SEA	Wellington, Ohio, USA	SES
LaCrescenta, California, USA	SES	Windsor Locks, Connecticut, USA	SES
Locust Grove, Georgia, USA	SES	Zilina, Czechoslovakia	SEA

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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Nov 92

NOVEMBER 1992

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)	Start (UT)	End (UT)		Int (1-3)
01			LEAR				0001.0	0002.0	3				III
			LEAR				0241.0	0241.0	3				III
			SVTO				0658.0	1523.0	2				CONT
			IZMI				0700.0E	1200.0	2				IIIS, DP
	0700	1200	IZMI				0700.0E	1200.0	2				IS, C
	0710	1403	ONDR	0734.0	1403.0	1	0734.0	1403.0	1				I
			SGMR				1140.0	2048.0	1				CONT
			PALE				1747.0	0338.0	2				CONT
			LEAR				2112.0	0507.0	2				CONT
02			LEAR				0249.0	0253.0	3				III
			LEAR				0253.0	0302.0	3				II
			LEAR				0302.0	1018.0	3				IV
			LEAR				0317.0	0319.0	3				III
			SVTO				0612.0	1405.0	2				CONT
			IZMI				0700.0E	1200.0	2				IIIS
	0700	1200	IZMI				0700.0E	1200.0	2				IS, C
			IZMI				0737.0	0737.9	2				IIIG
	0712	1402	ONDR	0804.0	1402.0	1	0725.0	1402.0	1				IN
			SGMR				1204.0	1952.0	1				CONT
			SGMR				1307.0	1308.0	2				III
			SGMR				1425.0	1426.0	1				V
			SGMR				1541.0	1541.0	1				III
			SGMR				1655.0	1655.0	1				III
			SGMR				1707.0	1708.0	1				III
			PALE				1757.0	1817.0	1				S
			SGMR				1757.0	1757.0	1				III
			SGMR				1817.0	1817.0	1				III
			PALE				1844.0	0204.0	2				CONT
			SGMR				1851.0	1919.0	2				S
			SGMR				2012.0	2012.0	1				III
			LEAR				2312.0	0500.0	1				CONT
03			LEAR				0150.0	0154.0	2				III
			LEAR				0301.0	0303.0	3				III
			LEAR				0303.0	0317.0	2				S
			LEAR				0624.0	0624.0	2				III
			LEAR				0640.0	0640.0	1				III
	0700	1200	IZMI				0700.0E	1200.0	1				IS
	0714	1402	ONDR										
			LEAR				0725.0	0915.0	1				CONT
			SGMR				1333.0	1336.0	1				MWB
			SGMR				1353.0	1354.0	1				III
			SGMR				1410.0	1415.0	1				MWB
			SGMR				1724.0	1725.0	1				III
			PALE				1847.0	1847.0	1				III
			SGMR				1847.0	1847.0	1				III
04			LEAR				0101.0	0140.0	1				S
			LEAR				0114.0	0115.0	2				III
			LEAR				0140.0	0140.0	2				III
			LEAR				0623.0	0624.0	2				III
	0700	1200	IZMI				1057.1	1057.3	2				IIIG
	0716	1403	ONDR				1057.1	1057.2	2				IIIG
			LEAR				2225.0	2227.0	1				III
05	0700	1200	IZMI				0700.0E	1200.0	1				IN,W
			LEAR				0810.0	0811.0	1				III
			IZMI				0845.6	0845.8	2				IIIG
	0718	1403	ONDR				0845.6	0845.7	2				IIIG
			SGMR				1409.0	1409.0	1				III
			SVTO				1409.0	1409.0	2				III
			SGMR				1520.0	1521.0	1				III
06			LEAR				0433.0	0434.0	1				III
			LEAR				0621.0	0624.0	3				III
			SVTO				0621.0	0622.0	2				III
			LEAR				0704.0	0705.0	2				III
	0700	1200	IZMI				0704.5	0704.9	2				IIIG

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Nov 92

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

Spectral Observations

NOVEMBER 1992

Observation			Decimetric Band			Metric Band			Dekametric Band			Spectral Type							
Day (UT)	Start (UT)	End (UT)	Sta	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)	Int (1-3)	Start (UT)	End (UT)		Int (1-3)						
06	0720	1402	IZMI	0817.2	1402.0	2	0746.7	0748.3	1				IIIG						
			IZMI				0817.2	0817.3	1				IIIG						
			ONDR				0817.2	1402.0	2				I						
			ONDR				0817.2	0817.3	2				IIIG						
			IZMI				0831.0	1200.0	2				IS						
			IZMI				0853.9	0854.1	2				IIIB						
			IZMI				0905.8	1200.0	2				IIIN						
			SVTO				1019.0	1225.0	2				CONT						
			ONDR				1023.8	1024.1	3				IDC						
			SGMR				1256.0	1256.0	1				III						
			SVTO				1256.0	1256.0	2				III						
			SGMR				1621.0	1623.0	1				V						
			SGMR				1730.0	1800.0	1				CONT						
			PALE				2123.0	2124.0	1				III						
07	0700	1200	LEAR				0152.0	0258.0	1				CONT						
			LEAR				0220.0	0222.0	2				III						
			LEAR				0253.0	0253.0	2				III						
			LEAR				0710.0	0726.0	1				S						
			IZMI				0710.2	0710.5	2				IIIB						
			ONDR																
			IZMI				0726.1	0726.8	1				IIIG						
			IZMI				0727.0	1200.0	1				IN,W						
			LEAR				0833.0	0833.0	2				III						
			ONDR				1009.0	1401.0	1				IN						
			IZMI				1157.3	1158.2	1				IIIG						
			08				0724	0740	LEAR				0033.0	0033.0	1				III
									ONDR										
									SVTO				0846.0	0847.0	2				III
LEAR	0847.0	0847.0		2									III						
IZMI	1030.0	1200.0		1									IIIN						
IZMI	1103.1	1104.0		1									IIIGG						
IZMI	1122.3	1125.1		1									IIIGG						
IZMI	1144.6	1158.2		2									IIIGG						
SGMR	1146.0	1146.0		1									III						
SVTO	1146.0	1150.0		2									III						
SGMR	1317.0	1317.0		1									III						
SGMR	1320.0	1323.0		2									V						
SGMR	1506.0	1514.0		2									III						
SGMR	1617.0	1619.0		1									III						
SGMR	1710.0	1716.0		1									III						
PALE	1711.0	1746.0		1									S						
PALE	2106.0	2106.0		1									III						
PALE	2139.0	2140.0		1									III						
PALE	2154.0	2155.0		1									III						
09	0700	1200	LEAR				0002.0	0002.0	3				III						
			PALE				0002.0	0006.0	1				III						
			LEAR				0003.0	0003.0	1				III						
			LEAR				0006.0	0007.0	2				III						
			LEAR				0038.0	0040.0	2				III						
			PALE				0039.0	0039.0	1				III						
			LEAR				0053.0	0053.0	1				III						
			LEAR				0115.0	0118.0	2				III						
			PALE				0116.0	0116.0	1				III						
			LEAR				0119.0	0119.0	2				III						
			IZMI				1114.6	1116.8	2				IIIGG						
			PALE				1948.0	1949.0	2				III						
			SGMR				1948.0	1949.0	2				V						
			PALE				2144.0	2148.0	1				III						
			LEAR				2314.0	2315.0	1				III						
			PALE				2314.0	2320.0	1				III						
			LEAR				2319.0	2320.0	2				III						
			LEAR				2321.0	2322.0	1				III						
10			LEAR				0059.0	0101.0	2				III						
			PALE				0059.0	0100.0	1				III						
			LEAR				0105.0	0105.0	1				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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NOVEMBER 1992

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)	Start (UT)	End (UT)		Int (1-3)
10			LEAR				0146.0	0150.0	1				III
			LEAR				0206.0	0223.0	2				S
			LEAR				0209.0	0211.0	3				III
			PALE				0210.0	0211.0	1				III
			LEAR				0354.0	0354.0	1				III
			LEAR				0419.0	0421.0	2				III
			LEAR				0543.0	0548.0	2				III
			LEAR				0605.0	0610.0	3				III
			SVTO				0606.0	0608.0	1				III
			LEAR				0707.0	0712.0	1				III
			LEAR				0741.0	0848.0	1				S
0700	1200		IZMI				0741.8	0800.0	1				IIIN
			LEAR				0742.0	0743.0	2				III
			SVTO				0742.0	0743.0	2				III
			IZMI				0742.7	0743.3	2				IIIG
0810	1401		ONDR										
			IZMI				0833.9	0836.0	2				IIIG,V
			LEAR				0835.0	0837.0	3				III
			SVTO				0835.0	0846.0	2				S
			IZMI				0842.0	0848.3	1				IIIN
			SVTO				1101.0	1107.0	2				V
			IZMI				1101.1	1101.7	2				IIIG
			IZMI				1104.0	1108.0	2				IIIGG
			IZMI				1126.6	1127.2	1				IIIG
			SGMR				1233.0	1238.0	2				V
			SGMR				1346.0	1347.0	1				III
			SVTO				1410.0	1411.0	2				V
			SGMR				1500.0	1500.0	1				III
			SGMR				1555.0	1556.0	1				V
			SGMR				1617.0	1629.0	1				S
			PALE				1957.0	1959.0	2				III
			SGMR				1957.0	1958.0	1				III
			PALE				2057.0	2059.0	2				V
			SGMR				2058.0	2058.0	1				III
			LEAR				2319.0	2321.0	2				III
			PALE				2319.0	2320.0	1				III
			LEAR				2350.0	2353.0	1				III
11			LEAR				0011.0	0011.0	2				III
			LEAR				0121.0	0123.0	2				III
			LEAR				0154.0	0200.0	1				III
			LEAR				0323.0	0324.0	2				III
			LEAR				0352.0	0354.0	1				III
			LEAR				0355.0	0400.0	3				V
			LEAR				0515.0	0515.0	1				III
			LEAR				0559.0	0603.0	3				V
			SVTO				0600.0	0601.0	2				V
			LEAR				0640.0	0641.0	2				V
			LEAR				0707.0	0708.0	2				III
0700	1200		IZMI				0707.4	0708.4	1				IIIG,C
			IZMI				0842.7	0843.0	1				IIIG,C
			LEAR				0843.0	0844.0	2				III
			SVTO				0843.0	0843.0	2				III
0730	1400		ONDR				0937.0	1400.0	1				IN
			SVTO				1005.0	1028.0	2				S
			IZMI				1005.3	1006.1	1				IIIG,C
			LEAR				2332.0	2333.0	2				III
			PALE				2333.0	2333.0	1				III
12			LEAR				0538.0	0538.0	1				III
0700	1200		IZMI				0838.5	0839.5	2				IIIGG
			LEAR				0839.0	0858.0	2				S
			IZMI				0844.8	0845.3	1				IIIG
			SVTO				0857.0	0858.0	2				III
			IZMI				0857.2	0858.3	1				IIIGG
			SVTO				1141.0	1141.0	2				III
			IZMI				1141.3	1142.0	2				IIIG,V
0732	1358		ONDR				1141.3	1141.8	3				IIIG

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

Spectral Observations

NOVEMBER 1992

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)	Start (UT)	End (UT)		Int (1-3)
13			LEAR				0210.0	0353.0	1				CONT
			LEAR				0619.0	0620.0	1				III
	0700	1200	LEAR				0653.0	0654.0	1				III
	0735	1356	IZMI				0653.9	0654.1	1				IIIG
			ONDR										
			LEAR				0845.0	0849.0	2				III
			SVTO				0845.0	0850.0	2				III
			IZMI				0845.4	0845.9	1				IIIG
			IZMI				0849.4	0849.8	1				IIIG
			IZMI				0957.9	0958.1	1				III
	0700	1200	IZMI				0959.2	0959.3	1				III
			IZMI				1003.0	1003.3	1				II G,DP
			SVTO				1043.0	1058.0	2				S
			SGMR				1212.0	1217.0	2				III
			SVTO				1212.0	1217.0	3				III
			SVTO				1333.0	1333.0	3				III
			SGMR				1914.0	1914.0	2				III
			PALE				1915.0	1915.0	2				V
14	0738	1354	ONDR										
			LEAR				0840.0	0840.0					III
			SVTO				0849.0	0851.0	1				III
	0700	1200	IZMI				1002.0	1002.2	1				IIIG
			SVTO				1040.0	1046.0	3				III
			IZMI				1137.4	1138.3	1				IIIGG
15			LEAR				0125.0	0125.0	1				III
	0740	1352	ONDR										
	0700	1200	IZMI				0802.8	0813.0	1				IN
16	0700	1200	IZMI				0700.0E	1200.0	2				IS
			IZMI				0710.0	0712.0	2				IIIGG
	0742	1350	ONDR										
			LEAR				0840.0	0931.0	1				CONT
			SVTO				0903.0	0940.0	1				CONT
			SVTO				1049.0	1207.0	1				CONT
			PALE				2126.0	2126.0	1				III
			LEAR				2325.0	2325.0	1				III
17	0744	1348	ONDR										
			SGMR				1353.0	1353.0	1				III
			SGMR				1530.0	1534.0	2				III
			PALE				2007.0	2045.0	1				CONT
18			LEAR				0452.0	0452.0	1				III
	0700	1200	IZMI				0700.0E	0859.0	1				IS
	0746	1241	ONDR										
			SGMR				1933.0	2054.0	1				CONT
			PALE				1938.0	2305.0	1				CONT
19			LEAR				0533.0	0533.0	2				III
	1210	1345	ONDR										
			SGMR				1430.0	1430.0	1				III
			LEAR				2201.0	2230.0	2				S
			LEAR				2247.0	2247.0	1				III
			LEAR				2350.0	0716.0	2				CONT
20			PALE				0021.0	0331.0	1				CONT
	0700	1200	IZMI				0700.0E	1200.0	1				IS
			IZMI				0731.0	0735.0	1				IIIN
	0750	1344	ONDR										
			IZMI				0950.0	0951.5	1				IIIG
			IZMI				1043.3	1043.8	2				IIIG
			IZMI				1113.4	1114.2	2				IIIG
			SGMR				1252.0	1252.0	1				III
			LEAR				2208.0	2208.0	2				III
			LEAR				2347.0	2348.0	1				III
21			LEAR				0101.0	0101.0	1				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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Nov 92

NOVEMBER 1992

Observation		Sta	Decimetric Band			Metric Band			Dekametric Band			Spectral Type
Start	End		Start	End	Int	Start	End	Int	Start	End	Int	
Day (UT)	(UT)		(UT)	(UT)	(1-3)	(UT)	(UT)	(1-3)	(UT)	(UT)	(1-3)	
21		LEAR				0154.0	0155.0	3				III
		PALE				0154.0	0155.0	1				III
		LEAR				0202.0	0224.0	2				S
		LEAR				0324.0	0325.0	3				III
		LEAR				0339.0	0343.0	2				III
		LEAR				0345.0	0400.0	3				MWB
0700	1200	IZMI				0700.0	1200.0	1				IN
		IZMI				0921.0	0921.5	1				IIIG
0752	1342	ONDR	0945.0	1342.0	1	0945.0	1342.0	1				IN
		IZMI				1004.2	1004.5	2				IIIG
		IZMI				1017.9	1018.2	1				IIIG
		IZMI				1026.2	1026.5	1				IIIG
		IZMI				1118.7	1118.8	1				IIIB
		SGMR				1812.0	1814.0	1				III
		PALE				1813.0	1815.0	1				III
		LEAR				2231.0	2233.0	1				III
		PALE				2233.0	2233.0	1				V
		LEAR				2347.0	2348.0	1				III
22		LEAR				0147.0	0148.0	1				III
		LEAR				0250.0	0250.0	1				III
		LEAR				0337.0	0338.0	2				III
		LEAR				0358.0	0359.0	1				III
0700	1200	IZMI				0700.0	1200.0	1				IN
		IZMI				0815.4	0817.3	2				IIIG
		LEAR				0816.0	0817.0	1				III
		IZMI				0910.8	0910.9	1				IIIB
		IZMI				1137.1	1138.0	1				IIIG
0754	1340	ONDR	1139.0	1142.5	2							IIIGU
		ONDR	1308.0	1310.4	3	1308.0	1310.4	3				IV
		PALE				1956.0	1956.0	1				III
23		LEAR				0339.0	0340.0	2				III
		LEAR				0612.0	0613.0	2				III
0700	1200	IZMI				0700.0	1200.0	2				IS
0756	1339	ONDR	0847.8	0847.9	2							IIIG
		SGMR				1657.0	1658.0	2				III
		PALE				2026.0	2048.0	2				II
		SGMR				2028.0	2035.0	1				II
		PALE				2048.0	2057.0	1				III
		PALE				2113.0	2118.0	1				III
		PALE				2136.0	2142.0	2				III
		LEAR				2359.0	2359.0	1				III
24		LEAR				0017.0	0019.0	2				III
		LEAR				0501.0	0502.0	2				III
		LEAR				0510.0	0511.0	2				III
		LEAR				0523.0	0527.0	3				III
		LEAR				0542.0	0551.0	3				III
		LEAR				0621.0	0626.0	2				III
		LEAR				0650.0	0711.0	3				S
		SVTO				0652.0	0652.0	2				III
0700	1200	IZMI				0700.0	1200.0	1				IN
		IZMI				0705.4	0713.4	2				IIIGG
		IZMI				0723.9	0724.0	1				IIIB
		IZMI				0733.1	0733.2	1				IIIB
		LEAR				0831.0	0835.0	3				III
		SVTO				0831.0	0832.0	3				III
0758	1338	ONDR	0831.6	0832.1	3	0831.6	0832.1	3				IIIG
		IZMI				0831.7	0836.1	3				IIIGG,V
		ONDR				0833.0	0834.5	1				IIIG
		IZMI				0840.9	0841.1	1				IIIB
		IZMI				0855.5	0855.6	2				IIIB
		IZMI				0917.5	0917.6	1				IIIB
		IZMI				0925.8	0928.3	2				IIIGG
		LEAR				0932.0	0932.0	1				III
		SVTO				0932.0	0932.0	2				III
		IZMI				0932.4	0932.8	2				IIIG,V
		IZMI				1051.4	1051.9	2				IIIG,C

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Nov 92

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

Spectral Observations

NOVEMBER 1992

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)	Start (UT)	End (UT)		Int (1-3)
24			IZMI				1123.5	1123.6	1				IIIB
			IZMI				1131.7	1132.8	2				IIIG
			IZMI				1134.3	1134.9	2				IIIG
			IZMI				1140.1	1141.0	2				IIIG
			SGMR				1307.0	1309.0	2				III
			SVTO				1307.0	1309.0	2				V
			ONDR	1309.8	1310.0	2							IIIG
			SGMR				1349.0	1350.0	1				III
			SGMR				1453.0	1507.0	1				S
			SGMR				1539.0	1539.0	2				V
			LEAR				2322.0	2345.0	2				S
25			LEAR				0024.0	0024.0	2				III
			LEAR				0045.0	0045.0	2				III
			LEAR				0131.0	0135.0	3				III
			PALE				0131.0	0132.0	2				III
			LEAR				0204.0	0204.0	1				III
			LEAR				0239.0	0242.0	2				III
			LEAR				0312.0	0313.0	2				III
			LEAR				0511.0	0515.0	2				III
			SVTO				0653.0	0654.0	2				III
			LEAR				0658.0	0705.0	2				III
	0700	1200	IZMI				0703.3	0704.1	2				IIIG
	0800	1336	ONDR	0800.0	1336.0	2	0800.0	1336.0	2				I
			LEAR				0812.0	0812.0	2				III
			IZMI				0812.3	0812.8	1				IIIG,C
			SVTO				0909.0	0910.0	2				III
		SGMR				1440.0	1441.0	2				V	
		LEAR				2344.0	2344.0	1				III	
26			LEAR				0203.0	0203.0	2				III
			LEAR				0441.0	0442.0	1				III
			LEAR				0724.0	0728.0	2				III
	0700	1200	IZMI				0726.0	1200.0	1				IN
			IZMI				0726.9	0727.8	1				IIIG
			LEAR				0734.0	0735.0	1				III
			IZMI				0734.8	0735.4	2				IIIG
			SVTO				0735.0	0737.0	1				III
			IZMI				0744.3	0745.0	1				IIIG
			LEAR				0748.0	0748.0	1				III
	0802	1335	ONDR										
			IZMI				0907.2	0907.6	1				IIIG
			IZMI				0921.9	0922.0	1				IIIB
			IZMI				0928.5	0928.8	1				IIIG
			IZMI				1018.7	1023.2	2				IIIGG
			IZMI				1039.7	1040.7	2				IIIG
			IZMI				1048.3	1050.4	2				IIIG
			IZMI				1051.8	1051.9	1				IIIB
			IZMI				1129.7	1132.1	2				IIIGG
			SVTO				1130.0	1131.0	1				III
			SGMR				1440.0	1442.0	1				V
			SGMR				1631.0	1631.0	1				III
			PALE				2113.0	2114.0	1				III
			PALE				2209.0	2243.0	2				S
			LEAR				2210.0	2211.0	2				III
			LEAR				2221.0	2223.0	1				III
			LEAR				2310.0	2311.0	1				III
			LEAR				2330.0	2331.0	1				III
			LEAR				2345.0	2351.0	3				III
			PALE				2345.0	0009.0	2				S
27			LEAR				0155.0	0157.0	2				III
			LEAR				0206.0	0207.0	3				III
			LEAR				0214.0	0221.0	2				III
			LEAR				0235.0	0249.0	1				S
			LEAR				0324.0	0328.0	1				III
			LEAR				0355.0	0404.0	2				III
			LEAR				0522.0	0522.0	1				III
			LEAR				0636.0	0647.0	1				S

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

Spectral Observations

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Nov 92

NOVEMBER 1992

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)	Start (UT)	End (UT)	Int (1-3)		
27	0700	1200	IZMI				0719.0	0730.5	2				IIIN	
			LEAR				0719.0	0726.0	2				III	
			SVTO				0719.0	0720.0	2				III	
			IZMI				0728.7	1200.0	1				IN	
			LEAR				0743.0	0744.0	2				III	
			SVTO				0743.0	0744.0	1				III	
	0804	1334	IZMI				0743.6	0743.7	3				IIIB	
			ONDR	0804.0	1334.0	2	0804.0	1334.0	2				I	
			LEAR				0815.0	0818.0	2				III	
			SVTO				0817.0	0818.0	1				III	
			IZMI				0830.0	0837.0	2				IIIN	
			LEAR				0830.0	0831.0	1				III	
			IZMI				1000.7	1007.8	2				IIIB	
			IZMI				1013.6	1014.8	2				IIIG	
			IZMI				1029.7	1030.9	1				IIIGG	
			PALE				1723.0	1724.0	1				III	
			PALE				2005.0	2011.0	1				III	
28			LEAR				0036.0	0036.0	1				III	
			LEAR				0209.0	0247.0	1				S	
	0806	1332	ONDR											
	0700	1200	IZMI				0919.5	0919.6	1				IIIB	
			PALE				2034.0	2034.0	1				III	
29	0700	1200	IZMI				0706.0	0706.1	1				IIIB	
			LEAR				0706.0	0706.0	2				III	
	0808	1124	ONDR											
			IZMI				0827.1	0728.1	1				IIIG	
			LEAR				0828.0	0836.0	1				II	
			IZMI				0828.8	0834.0	2				II	
			SVTO				0829.0	0831.0	2				MWB	
			IZMI				0831.0	0835.0	1				IC	
			IZMI				0931.8	0932.2	2				CONT	
			LEAR				2330.0	2330.0	1				III	
30			LEAR				0133.0	0134.0	2				III	
			PALE				1927.0	0000.0	2				II	
			SGMR				1927.0	1941.0	2				II	

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

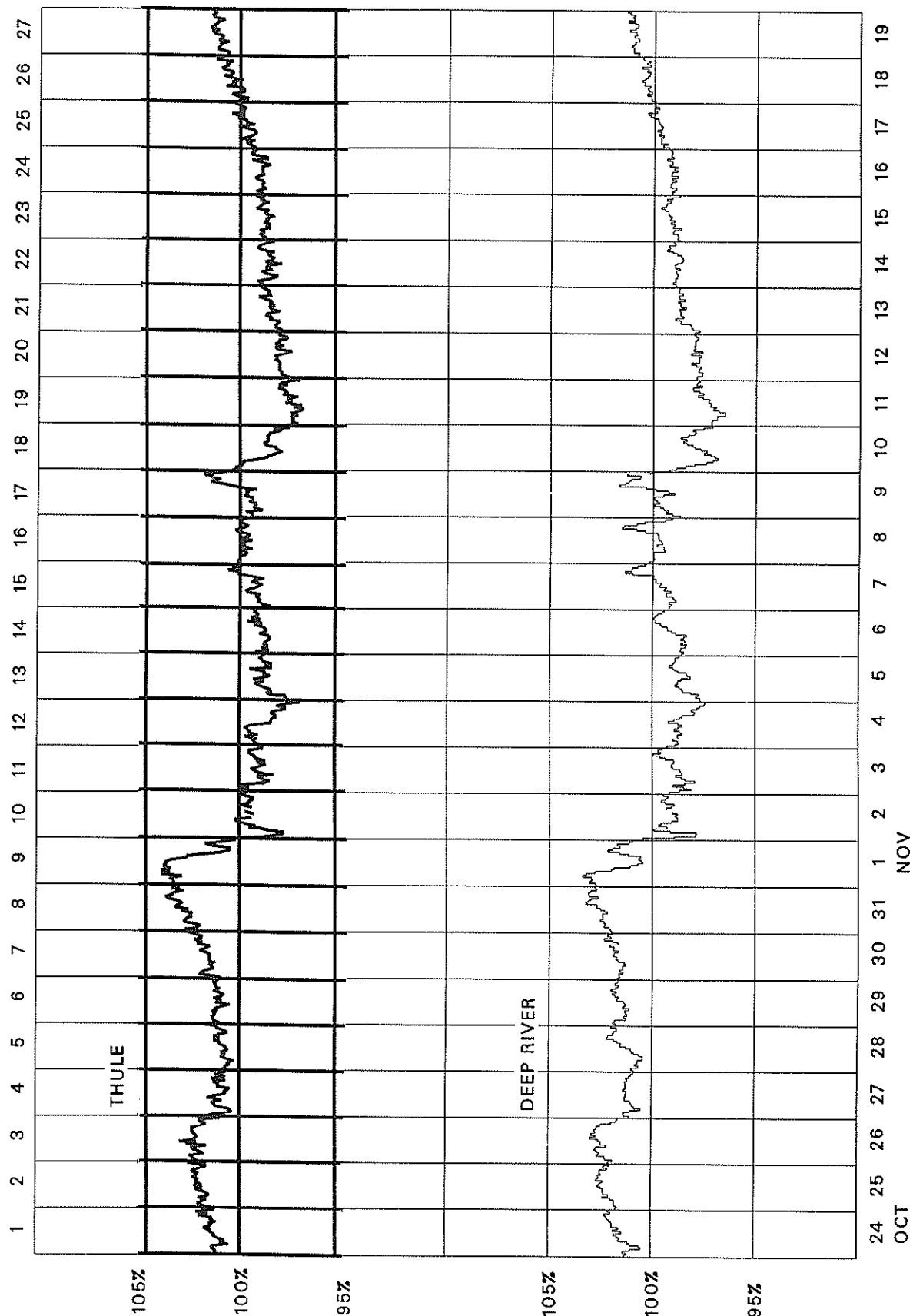
B = Single burst	RS = Reverse slope burst
G = Small group (< 10) of bursts	DP = Drifting pairs
GG = Large group (> 10) of burst	DC = Drifting Chains
C = Underlying continuum (particularly with Type I)	H = Herringbone
S = Storm in the sense of intermittent but apparently connected activity	W = Weak
N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

Stations Reporting:

CULG = Culgoora	IZMI = IZMIRAN	LEAR = Learmonth	ONDR = Ondrejov	PALE = Palehua
POTS = Potsdam	SGMR = Sagamore Hill		SVTO = San Vito	WEIS = Weissenau

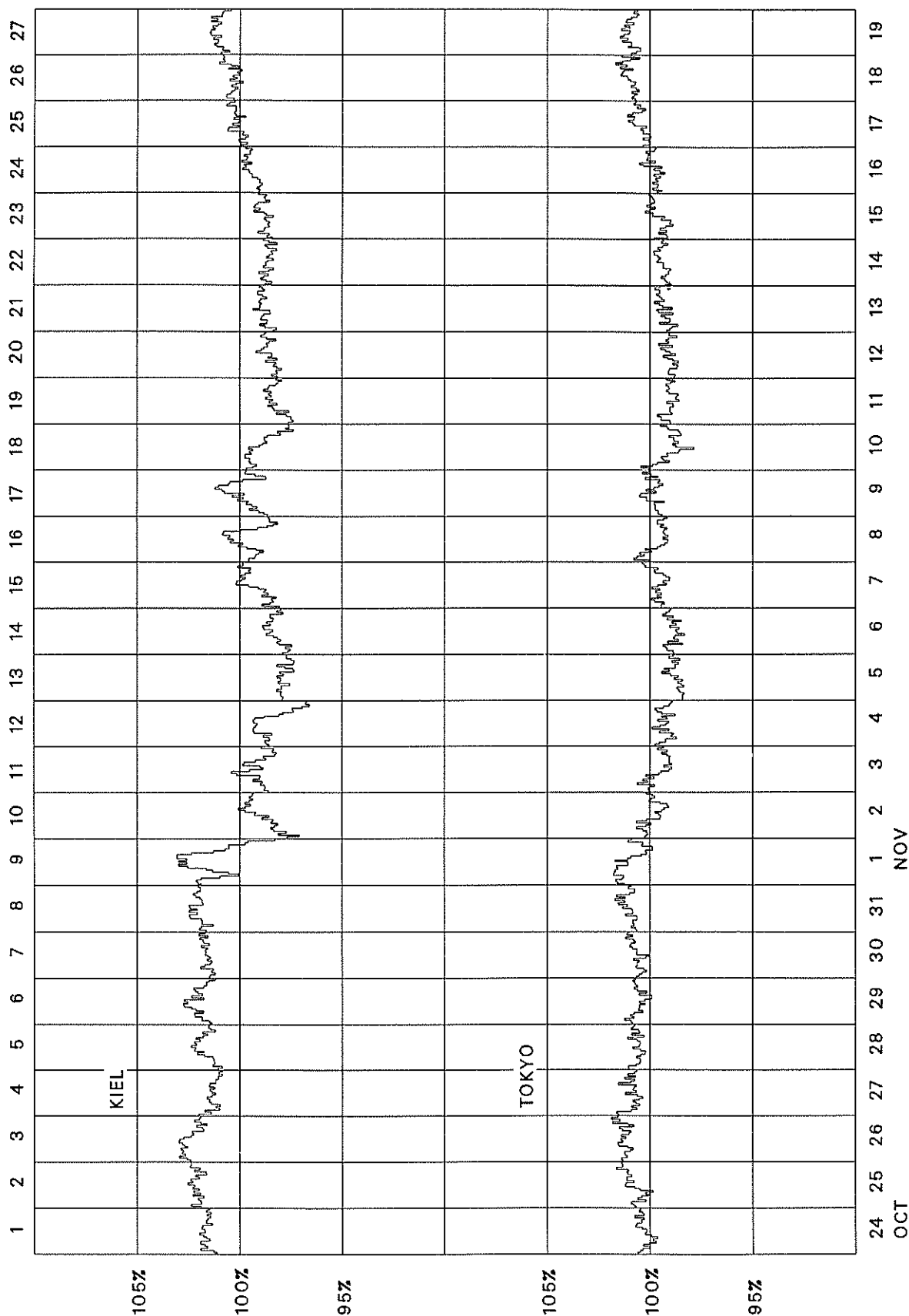
COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2175 (October 1992-November 1992)



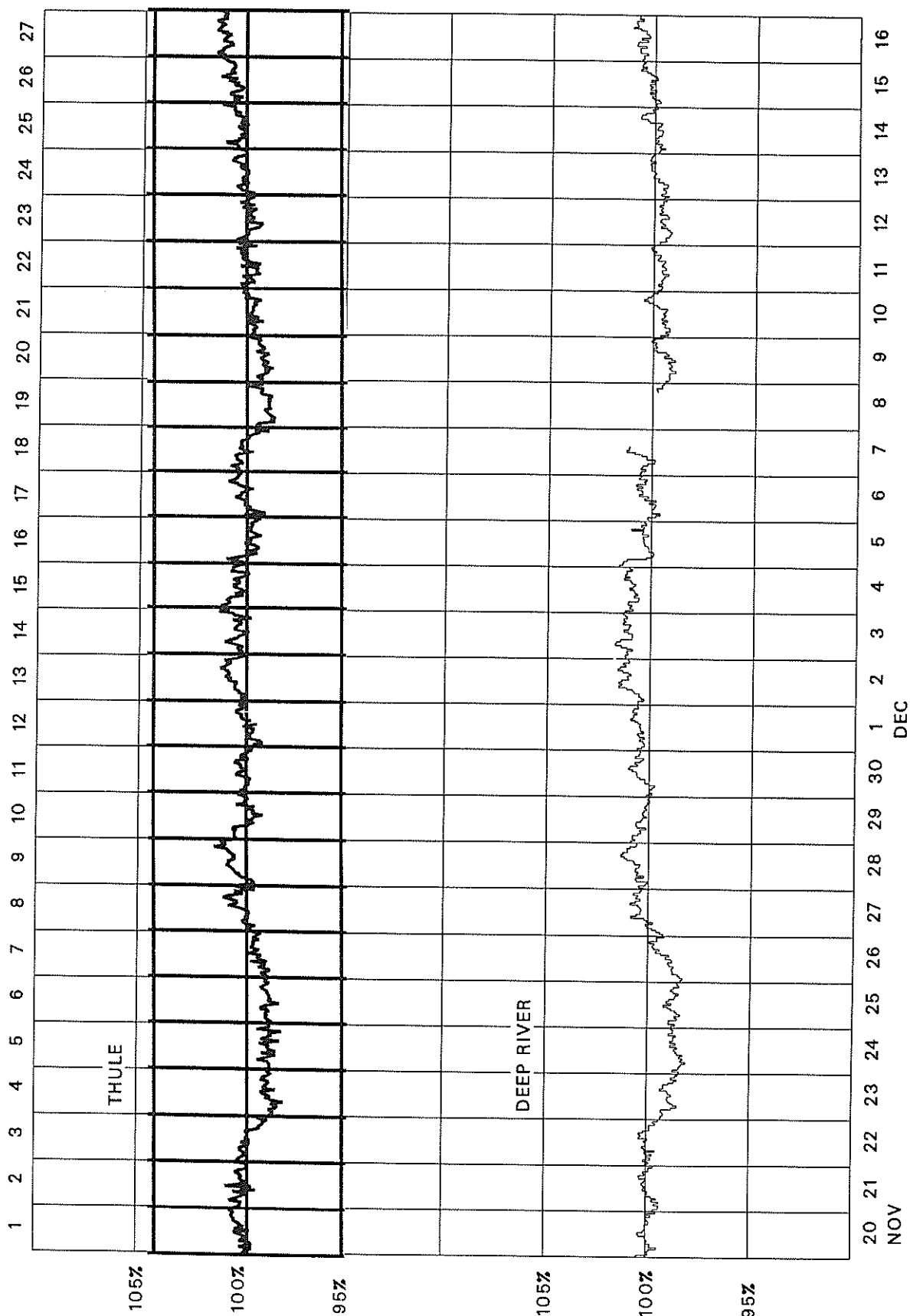
COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2175 (October 1992-November 1992)



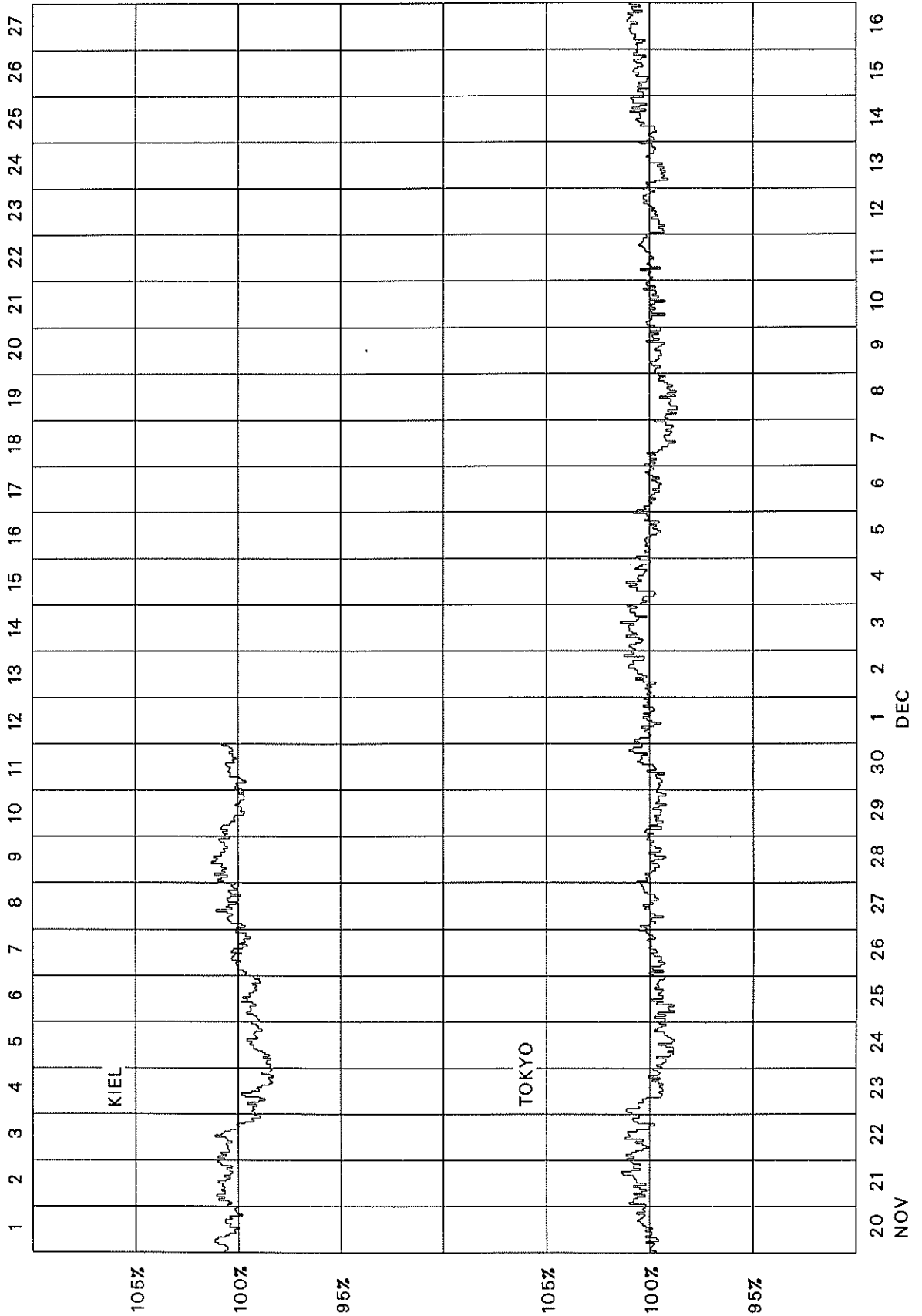
COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2176 (November 1992-December 1992)



COSMIC RAY INDICES (Neutron Monitor)

Bartels Rotation 2176 (November 1992-December 1992)



COSMIC RAY INDICES
(Neutron Monitor)

NOVEMBER 1992

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	4396	6909.2	6064.5		3534.9	
2	4253	6726.9(23)	5909.1		3495.0	
3	4244	6712.2	5919.7		3483.2	
4	4223	6683.7	5881.1		3474.1	
5	4224	6685.7	5848.0		3454.2	
6	4236	6721.9	5871.5		3460.7	
7	4259	6770.2	5932.7		3485.7	
8	4276	6785.1	5946.5		3486.9	
9	4289	6787.1	5964.6		3494.0	
10	4225	6643.1	5911.4		3466.8	
11	4168	6604.7	5869.6		3465.4	
12	4191	6640.5	5888.5		3464.7	
13	4215	6686.9	5908.4		3476.0	
14	4221	6711.7	5895.0		3477.7	
15	4230	6725.7	5905.9		3485.5	
16	4237	6724.3	5942.6		3492.6	
17	4272	6770.2	5983.7		3515.7	
18	4302	6807.5	6000.8		3533.9	
19	4334	6852.8	6040.9		3532.4	
20	4337	6841.5	6025.5		3529.1	
21	4334	6836.1	6036.9		3549.0	
22	4313	6841.1	6014.0		3546.4	
23	4269	6772.2	5933.8		3524.0	
24	4271	6747.4	5936.0		3498.8	
25	4274	6758.6	5955.3		3504.3	
26	4293	6783.4	5992.4		3518.9	
27	4331	6862.0	6016.6		3526.2	
28	4348	6889.6	6046.2		3519.8	
29	4322	6868.4	6005.3		3512.7	
30	4323	6869.8	6012.2		3526.2	
Mean	4274	6767.4	5955.3		3501.2	

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.

GEOMAGNETIC ACTIVITY INDICES

November 1992

Kp Three-Hourly Indices										Km Three-Hourly Indices										aa Provisional					
Day	1	2	3	4	5	6	7	8	Sum	Ap	Cp	1	2	3	4	5	6	7	8	Am	N	S	M		
1	2	1	2-	1+	2-	3	2+	6	19	16	0.9	2-	1	1+	1+	2-	3	3-	6-	28	35	27	12	50	
2	D4	5-	5+	4-	3+	3-	1+	3+	27+	23	1.1	4-	5-	3+	3	3	1+	3-	3-	36	37	32	46	23	
3		4-	4-	4+	4	2	1	2+	3-	24-	17	0.9	3+	3	4-	4-	2-	1+	2+	3-	27	33	16	33	17
4	D3	2+	3	3	4	4+	5	3	5-	29+	25	1.2	2	2	3-	4-	4+	4+	3	4+	41	34	47	26	56
5		4+	2+	3	3+	3+	2+	2+	2	23	15	0.8	3	2	3	3	3+	2+	3-	1+	25	27	26	31	23
6		3	2+	3	2	4-	4-	2+	3-	23-	14	0.8	2-	1+	2+	2+	3	4-	2+	3-	22	28	18	15	31
7		3	2	3	3-	2	3	2	3+	21	12	0.7	2	2-	3-	3-	2	3	2	3	20	27	20	22	25
8		3+	2	2	1+	2	2	3	4-	19+	11	0.6	3-	2	2-	1+	2	2	3-	3+	19	27	13	18	22
9	D1	3-	4	6+	6	5	4+	3	4+	36-	42	1.5	2+	3	5	5+	5	4	3+	4	63	62	49	57	54
10		3	3-	2+	3	2	3+	2+	3	22-	12	0.7	3+	2+	3	3-	2+	3+	3	3-	27	29	28	29	28
11		4-	4	4-	4-	3+	3+	3-	2+	27-	19	1.0	3	3+	3	4-	3	3+	2+	2+	30	33	26	33	26
12		3	3+	3-	3+	3	3-	3	4	25	16	0.9	3-	3-	2	3	3+	3-	3-	4-	28	33	20	24	29
13		3	2+	2+	4	4+	3	3	3-	25-	17	0.9	2	2	2+	4-	4	3-	3-	3-	28	34	26	28	33
14		3-	2+	2+	3	3+	3-	3-	2+	21+	12	0.7	2	2+	2	2+	3	3-	3-	2+	20	26	17	19	24
15	D5*	3	2+	2-	2-	4	4+	3+	5-	25	19	1.0	3-	2-	1+	2-	4-	4	3+	4	31	41	30	16	56
16	Q10A	4-	2+	2	2-	1+	1+	3	3	18+	10	0.6	3	2	2-	2-	1+	2-	3-	3-	17	29	13	18	24
17	Q8A	2+	3+	2	1+	2-	1+	2	2	16	8	0.4	2	3-	2-	2-	2-	1+	3-	2+	15	19	13	15	17
18	Q5A	3-	1	1-	1+	1	2+	3	1-	13-	7	0.3	2+	1-	1-	2-	1	2+	3+	1-	13	20	11	10	21
19	Q6A	1-	2	2	2	3-	3	1+	1	13+	7	0.4	1+	2	2-	2+	3	1+	1+	1	13	14	15	16	13
20	Q1	1-	0+	1-	1	1-	0+	2-	2+	8-	4	0.1	1	1-	1	1	1	1-	2-	2+	8	10	7	7	10 CK
21	Q7A	4-	3+	2-	0+	0+	0+	1-	1	11+	7	0.4	3+	3-	1+	0+	0+	0+	1-	2-	12	12	13	18	7 K
22		1-	2	3-	4-	4	3+	4-	4	24	17	0.9	1+	2	3	4	4	3+	4-	3+	37	34	41	22	52
23	D2	5-	6-	4+	3+	3+	5-	3	3+	32+	31	1.3	4	4+	4	3+	4-	5-	3	3	48	50	39	46	44
24		2-	1+	3-	3-	3	3-	3+	3-	20	12	0.7	2-	1+	3	3	3	3-	3+	3-	24	21	26	18	29
25		3-	2	2	4-	4-	2	2	3	21	12	0.7	2+	2-	2+	4	4	2+	3-	3	29	24	27	25	27
26	Q9A	3	4-	2-	2+	2	1+	2	2-	18-	10	0.5	2+	3	2-	3-	2+	1+	2	2	17	16	13	18	11
27	Q3	1+	1+	2-	1	2+	2-	0+	1+	11	5	0.2	2-	2-	1+	1+	2+	2-	1	1+	11	10	9	10	10 CC
28	Q4	1+	2	1+	2	1	1+	2-	2+	13	6	0.3	1+	2-	2	3-	1+	2-	2+	2+	14	14	16	14	15 C
29	Q2	1+	1	2-	1+	2+	2-	1	0+	11-	5	0.2	2-	1+	2-	2	2+	2	1+	0+	12	11	11	11	11 CC
30		0+	0+	1+	2+	3	4-	5-	3-	18+	13	0.8	0+	1-	2-	3-	4-	4-	4+	3-	28	27	29	10	46
Mean										14	0.72									24.8	27.3	22.8	25.0		

Kn Three-Hourly Indices										Ks Three-Hourly Indices										Prov					
Day	1	2	3	4	5	6	7	8	An	1	2	3	4	5	6	7	8	As	Sa	Ri	Ra	Rs	IMF		
1	2-	1-	1+	2-	2-	3	3-	6-	28	2-	1+	1	1+	2-	3	3-	6-	28	144.8	109	102	94			
2	4-	4+	3+	3	3	1+	3	3-	35	4-	5	4-	3	3-	1+	2+	3-	37	138.8	88	84	88			
3	3+	3	4	4-	2	1+	2+	3-	30	3+	3	3+	3	2-	1+	2+	2+	25	132.9	68	65	82			
4	2	2-	3	4-	5-	5-	3	4-	42	2+	2+	2+	4-	4+	4+	3	5-	41	140.4	86	83	90			
5	3	2	3	3	3	3-	2+	2	24	3+	2	3-	3+	4-	2	3	1	25	133.6	95	88	82			
6	2	1+	3-	2+	3+	4	3-	2+	26	2-	1+	2	2	3-	3+	2	3-	18	130.5	95	87	79			
7	2+	1+	3-	3-	2	3+	2	3	22	2	2-	3-	3-	2	3-	2	3	19	132.4	96	93	81			
8	3-	2	2	1+	2+	3-	3-	3+	21	3-	2-	1+	1+	2-	1+	3-	3+	17	129.7	74	74	78			
9	2+	3	5+	5+	5-	5-	3+	4	63	3-	3	5-	6	5	4-	3+	4	63	129.9	76	77	78			
10	3+	2	2+	3-	2+	3+	3-	3-	24	4-	2+	3+	3	2+	3	3+	3	30	133.7	78	78	82			
11	3	3+	3	4-	3	3+	2+	2+	32	3+	3+	3	3+	3-	3+	2+	3-	29	132.0	84	80	81			
12	2+	3	2	3	3+	3-	3-	4-	28	3	3-	2	3-	3+	2+	3	4-	28	124.7	83	79	73			
13	2+	2	2	4-	4+	3	3-	3-	29	2-	2	2+	4-	4-	2+	3-	3-	26	122.2	59	57	70			
14	2+	2	2	3-	3+	3	3-	2+	22	2-	3-	2	2	3-	2+	3-	3-	18	123.4	69	69	71			
15	2+	2	1+	2-	4	4	3+	4	32	3-	1+	2	2	4-	4	3	4	31	124.1	74	76	72			
16	3	2	2-	2-	1+	2-	3	3-	18	3	2	1+	1+	1	2-	3-	3	16	133.7	84	89	82			
17	2	3-	2-	1+	2-	1+	2+	2-	14	2	2+	2-	2-	1+	1+	3-	3-	15	148.9	100	100	99			
18	2+	0+	1-	1+	1	3-	3	1-	12	2+	1	1	2-	1-	2	3+	1	14	158.2*	102	98	109			
19	1	2-	2-	2+	3-	1+	1+	1-	11	1+	2	2	3-	3	1+	2-	1+	16	157.1	108	102	108			
20	1	1-	1-	1	1	1-	1+	2	7	1-	1-	1+	1+	1	1-	2	3-	9	155.0	98	102	105			
21	3+	2+	1+	0	0+	0+	1-	1+	11	3+	3-	1+	1	1-	1-	1	2-	13	161.3*	85	90	112			
22	1	2-	3-	4-	4	4-	4-	3+	34	2	2+	4-	4	4	3+	4	4-	40	162.0	95	88	113			
23	4	4+	4-	4-	4-	5-	3	3	50	4-	4	4	3+	3+	4+	3+	3	46	171.7	115	109	123			
24	2-	1	3-	3	3	3-	3+	2+	23	2	2	3	3	3	3-	3+	3-	26	169.4	116	109	121			
25	2+	2-	2	4	4+	2+	2+	3-	28	3-	2	3-	4	4-	2+	3	3	29	162.4	125	113	113			
26	2	3+	1+	3-	2+	1+	2-	1+	17	2+	3-	2-	3	3-	1+	2+	2+	18	158.2	116	114	109			
27	1+	2-	1+	1	2+	2-	1-	1+	10	2-	2-	1+	1+	2-	2-	1+	2-	12	152.6	116	112	103			
28	1-	1+	2-	2+	1+	2-	2	2	12	2-	2	2+	3	2-	2-	3-	2+	17	144.7	103	97	94			
29	1	1-	2-	1+	3-	2	2-	0+	10	2	2-	2	2+	2+	2-	1+	1-	13	136.0	88	83	85			
30	0+	0+	2-	3-	3+	4-	4+	3-	27	1-	1	2	2+	4-	4	5-	3-	29	135.9	74	74	85			
Mean										24.7									24.9	142.0	92.0	89.1	91.4		

DAILY AVERAGE INDICES Ap

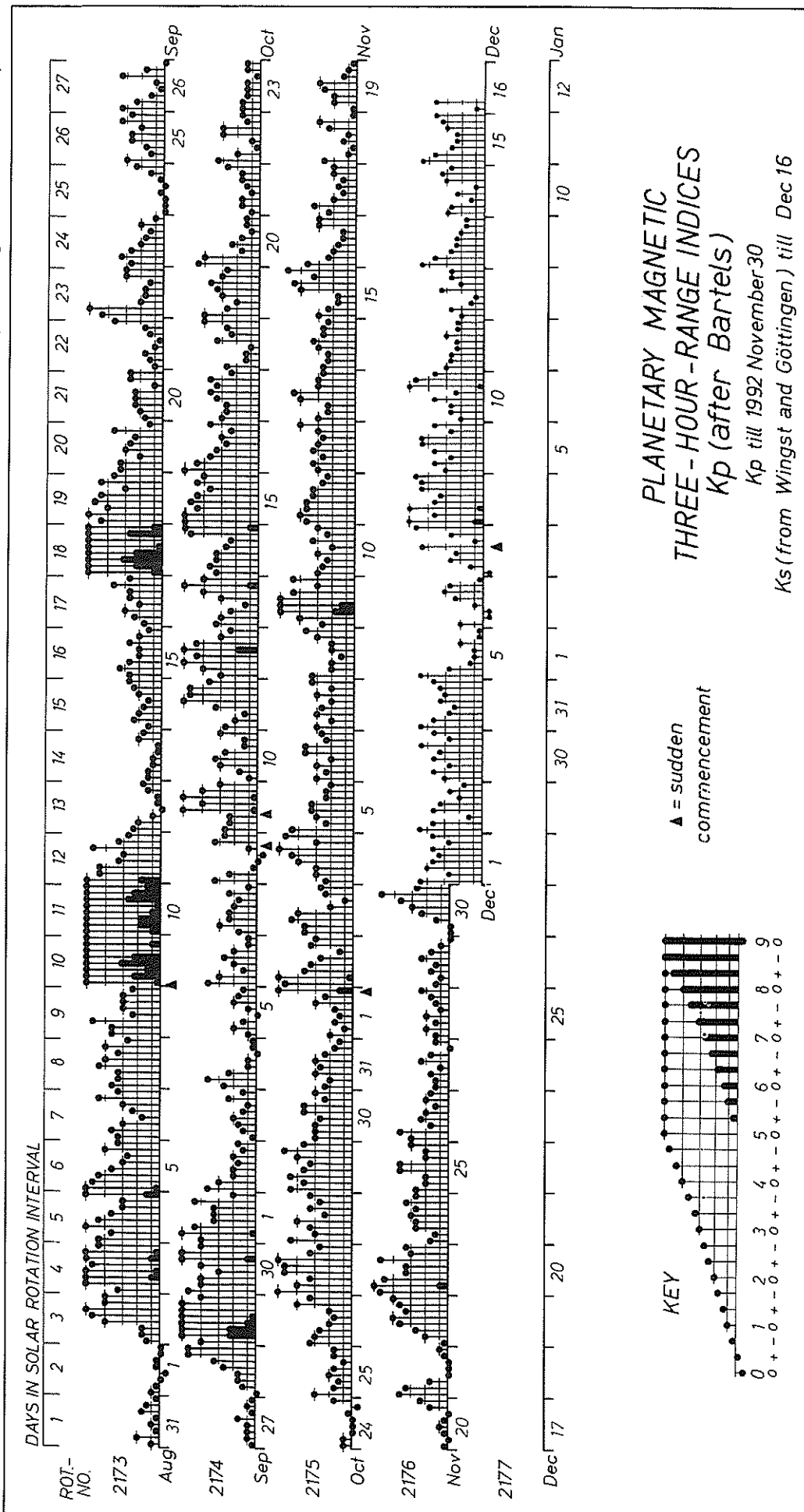
December 1991 to November 1992

DAY	1991 DEC	1992 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	10	12	29	16	13	15	8	19	8	2	26	16
2	18	22	56	12	6	12	5	16	5	23	9	23
3	12	16	92	11	32	9	6	5	4	48	6	17
4	15	16	27	13	12	12	4	4	15	33	7	25
5	9	12	7	12	15	5	6	9	35	28	5	15
6	5	13	7	8	24	5	5	5	16	17	10	14
7	6	8	17	10	19	13	12	4	26	22	8	12
8	8	16	49	11	20	29	46	5	16	18	8	11
9	10	7	79	25	6	39	17	4	12	84	26	42
10	15	14	25	17	5	179	20	6	7	88	10	12
11	14	26	7	20	3	70	26	4	13	32	24	19
12	13	22	11	12	4	11	40	15	6	5	34	16
13	15	27	10	6	6	21	12	23	11	5	23	17
14	17	21	10	4	6	4	6	12	15	8	25	12
15	7	18	4	9	10	5	10	6	8	10	35	19
16	20	27	4	13	5	4	4	12	8	12	22	10
17	35	10	16	25	4	3	5	5	4	93	16	8
18	12	7	14	17	19	16	27	5	6	31	12	7
19	13	6	13	4	17	14	12	4	9	13	16	7
20	10	14	63	4	18	8	7	8	26	8	12	4
21	27	7	69	23	8	8	9	11	20	7	6	7
22	6	7	27	17	12	50	10	34	39	17	9	17
23	14	4	16	26	8	14	13	16	73	9	5	31
24	10	4	28	22	13	8	22	7	10	4	3	12
25	7	4	55	16	10	10	14	11	5	11	7	12
26	9	7	65	12	8	8	8	4	11	8	14	10
27	36	22	60	11	5	10	11	7	14	4	31	5
28	23	14	7	10	10	13	15	17	5	16	19	6
29	29	14	44	18	7	19	38	5	16	62	27	5
30	16	22		12	10	14	37	9	6	35	16	13
31	9	15		14		8		10	4		10	
MEAN	15	14	31	14	11	21	15	10	15	25	15	14

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

University of Göttingen

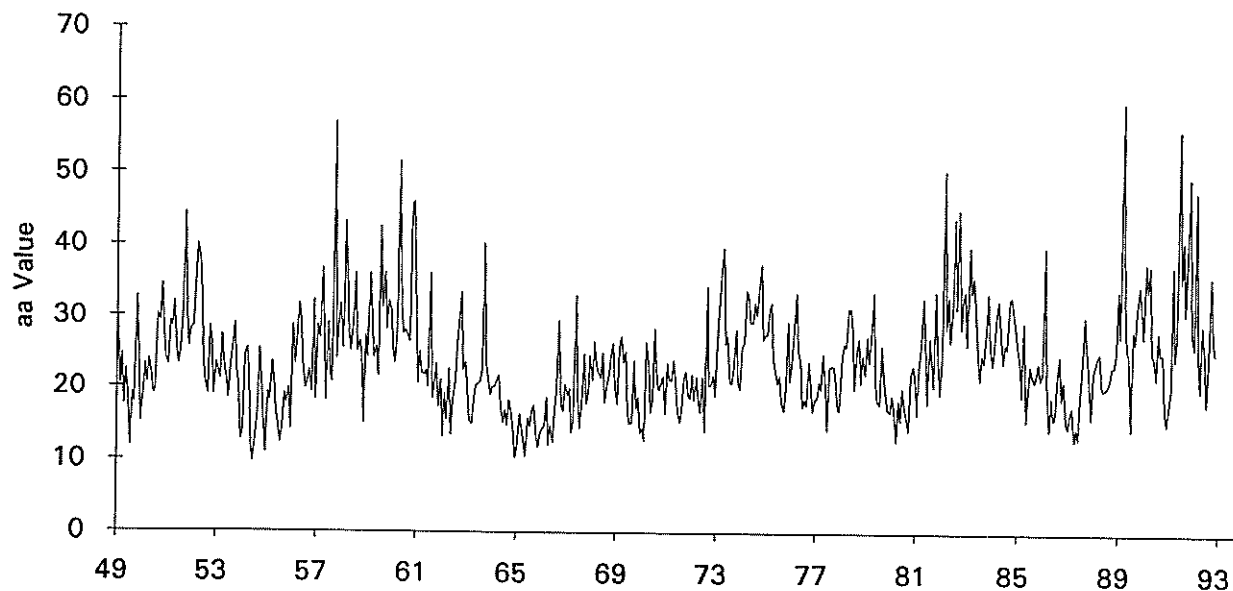
Kp through November 30, 1992



With Best Wishes for a Happy New Year

Institut für Geophysik Göttingen

MONTHLY MEAN aa INDICES 01/49-11/92



Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mean
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	30.7	44.1	49.7	28.0	34.2
1992	25.9	47.7	24.5	19.8	29.1	24.8	17.9	24.1	35.8	27.0	25.0		

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

NOVEMBER 1992

Sta	Geomag Lat	Commencement Time			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)
FRD 49.4N	01	2146	SC*	-	1.5	101	- 16	01(8)	6	14	141	57	03 --
UJJ 13.6N	01	2145	SC	-	1.7	51	- 12		-	5	89	33	03 01
ABG 09.4N	01	2145	SC	-	1.4M	43	- 16	01(8)	5	5	81	48	03 01
HYB 07.6N	01	2146	SC	-	1.1	45	- 2	01(8) 03(4)	5	5	116	26	03 13
GUA 04.3N	01	2147	SC		.2	54	- 16	01(8)	6	--	190	10	02 14
ETT 00.7S	01	2145	SC	-	1.3	39	39		-	4	177	71	03 14
PMG 18.3S	01	2147	SC	-	4 *	59	47	01(8) 02(2)	5	14	150	80	02 14
HER 33.6S	01	2146	SC		.6*	65	48	01(8)	6	23	105	92	02 07
KGL 57.2S	01	2146	SC		16	50	10	01(8)	6	43	270	240	02 15
HYB 07.6N	03	1800	..	..	..	..	..	04(5,6)	5	4	162	13	05 19
ETT 00.7S	03	1830	..	..	..	..	..		-	5	199	52	05 16
CMO 64.9N	04	06--	..	..	..	..	..	04(6)	8	367	1910	870	04 20
KRC 16.4N	04	0624	..	..	..	..	..	04(6)	6	4	95	50	05 01
UJJ 13.6N	04	0400	..	..	..	..	..		-	4	133	22	05 19
ABG 09.4N	04	0400	..	..	..	..	..	04(5,6)	5	4	148	27	05 19
HER 33.6S	04	1312	SC		.5*	14	16	04(6)	4	15	71	107	04 18
KGL 57.2S	04	1312	SC		05	32	00	04(6,8)	6	55	350	280	05 21
BJI 28.8N	08	22--	..	..	..	..	..	09(3)	6	13	171	33	11 21
KRC 16.4N	08	22--	..	..	..	..	..	09(3)	7	8	165	60	10 12
HYB 07.6N	08	0600	..	..	..	..	..	09(3,4)	7	6	226	21	11 18
ETT 00.7S	08	1500	..	..	..	..	..		-	7	260	101	11 20
PMG 18.3S	08	22--	..	..	..	..	..	09(3,4)	6	10	230	100	10 10
CMO 64.9N	09	05--	..	..	..	..	..	09(3)	8	261	1870	840	10 02
FRD 49.4N	09	04--	..	..	..	..	..	09(4,5)	5	25	81	73	10 --
UJJ 13.6N	09	0400	..	..	..	..	..		-	--	--	--	10 21
ABG 09.4N	09	0400	..	..	..	..	..	09(3,4,6)	5	6	208	28	10 21
GUA 04.3N	09	06--	..	..	..	..	..	09(3)	7	--	170	10	09 17
GUA 04.3N	09	19--	..	..	..	..	..	10(1)	6	--	100	20	10 09
HER 33.6S	09	22--	..	..	..	..	..	09(3,5)	5	10	52	47	10 03
CAN 43.6S	09	05--	..	..	..	..	..	09(3,4,5)	5	20	134	54	09 20
KGL 57.2S	09	0600	..	..	..	..	..	09(4,6)	7	62	500	2600	10 13
HYB 07.6N	21	2100	..	..	..	..	..	22(4,5)	6	4	190	14	24 20
CMO 64.9N	22	08--	..	..	..	..	..	23(3,4)	6	190	1000	790	24 00
FRD 49.4N	22	----	..	..	..	..	..	23(2)	5	23	107	37	24 --
BJI 28.8N	22	03--	..	..	..	..	..	22(4)	6	7	134	25	24 00
KRC 16.4N	22	04--	..	..	..	..	..	22(4)	6	5	150	50	23 --
UJJ 13.6N	22	0600	..	..	..	..	..		-	4	155	33	24 00
ABG 09.4N	22	0600	..	..	..	..	..	22(4,5) 23(6)	5	4	173	36	24 00
GUA 04.3N	22	06--	..	..	..	..	..	22(4)	6	--	110	10	22 19
GUA 04.3N	23	00--	..	..	..	..	..	23(1)	5	--	100	10	23 18
HER 33.6S	23	04--	..	..	..	..	..	23(2)	5	19	63	84	23 18
GUA 04.3N	25	09--	..	..	..	..	..	25(4)	5	--	50	10	25 14
HYB 07.6N	30	0600	..	..	..	..	..	30(6) 01(6)	5	4	136	12	02 22
ETT 00.7S	30	0600	..	..	..	..	..		-	--	--	--	-- --
HER 33.6S	30	18--	..	..	..	..	..	30(7)	5	8	68	53	01 02

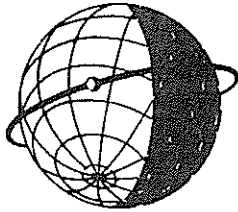
Stations:

ABG = ALIBAG
ANN = ANNAMALAINAGAR
API = APIA
BJI = BEIJING
CAN = CANBERRA
CMO = COLLEGE

ETT = ETAIYAPURAM
FRD = FREDERICKSBURG
GNA = GNANGARA
GUA = GUAM
HER = HERMANUS

HON = HONOLULU
HYB = HYDERABAD
JAI = JAIPUR
KGL = KERGUELEN
KRC = KARACHI

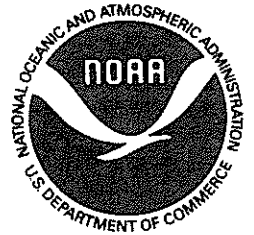
PMG = PORT MORESBY
SHL = SHILLONG
SIT = SITKA
TRD = TRIVANDRUM
UJJ = UJJAIN
WIT = WITTEVEEN



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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."