U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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ENVIRONMENTAL DATA SERVICE
Thomas S. Austin, Director

Solar - Geophysical Data

NO. 368 APRIL 1975

Part I (Prompt Reports)

DATA FOR
MARCH 1975
FEBRUARY 1975

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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Solar-Geophysical Data, 366 Part I (or Part II), pages, February 1975, U.S. Department of Commerce, (Boulder, Colorado, U.S.A. 80302)

SOLAR - GEOPHYSICAL DATA

No. 368

Issued in two parts

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CONTENTS

Part I (Prompt Reports)

	Page
Index for 1974 and 1975	2
Data for March 1975	3-21
Data for February 1975	23-106

Part II (Comprehensive Reports)

Index for 1974 and 1975	2
Data for October 1974	3-45
Data for September 1974	47-56
Miscellaneous Data X-ray Spectroheliograms, OSO-5 -- January 1975	57-60

INDEX FOR 1974 - 1975 DATA PUBLISHED IN "SOLAR-GEOPHYSICAL DATA"

		1974 Aug	Sep	Oct	Nov	Dec	1975 Jan	Feb	Mar
A.	Solar and Interplanetary Phenomena								
A.1	Sunspot Drawings	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	
A.2a	Zürich Provisional Relative Sunspot Numbers R_z	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7
A.2b	Zürich Final Sunspot Numbers R_z	367A 6	367A 6	367A 6	367A 6	367A 6			
A.2c	American Relative Sunspot Numbers R_A'	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7
A.3a	Mt. Wilson Magnetograms	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	
A.3b	Mt. Wilson Magnetic Characteristics of Sunspots	362A 94	363A 88	364A 94	365A 86	366A 86	367A 86	368A 82	
A.3c	Kitt Peak Magnetograms	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	
A.4	Hα Spectroheliograms	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	
A.5	Calcium Plage Drawings - McMath (or Catania)	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	
A.5a	Calcium Plage (McMath) and Sunspot Regions	362A 94	363A 88	364A 94	365A 86	366A 86	367A 86	368A 82	
A.5b	McMath Daily Calcium Plage Index	362A102	363A 97	364A101	365A 92	366A 92	367A 93	368A 89	
A.6	Hα Synoptic Charts	362A 31	363A 27	364A 31	365A 24	366A 23	367A 23	368A 25	
A.7b	Coronal Line Emission	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	
A.8aa	2800 MHz - Daily Values of Solar Flux (ARO-Ottawa)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7
A.8ac	2800 MHz - Daily Values of Adj. Solar Flux (ARO-Ottawa)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7
A.8g	Daily Values of Adjusted Solar Flux (AFCRL)	361A 7	362A 7	363A 7	364A 7	365A 7	366A 7	367A 7	368A 7
A.9cb	8.6 mm Radio Maps of the Sun (NELC - La Posta)	---	---	---	365A 26	366A 24	367A 24	368A 26	
A.9d	2 cm Radio Maps of the Sun (NELC - La Posta)	362A 32	363A 28	364A 32	365A 26	366A 24	367A 24	368A 26	
A.10a	169 MHz - Interferometric Observations (Nançay)	361A 13	362A 14	364A110	364A 13	365A 12	366A 12	367A 12	
A.10c	21 cm East-West Solar Scans (Fleurs)	361A 15	362A 16	363A 15	364A 15	365A 14	366A 14	367A 14	368A 14
A.10d	43 cm East-West Solar Scans (Fleurs)	361A 16	362A 17	363A 16	364A 16	365A 15	366A 15	367A 15	368A 15
A.10e	10.7 cm East-West Solar Scans (Ottawa-ARO)	361A 14	362A 15	363A 14	364A 14	365A 13	366A 13	367A 13	368A 13
A.11e	Solar X-ray Spectroheliograms (OSO-5; 1969-6A)	362A 32	363A 28	364A 32	365A 26	367B 55	368B 58	368A 26	
A.11g	Solar X-ray (SMS-1 GOES)	---	---	---	364A 21	365A 18	366A 18	367A 18	368A 18
A.12ba	Cosmic Ray Protons (Pioneers 6 & 7)	361A 18	---	---	---	365A 17	---	---	---
A.12bb	Cosmic Ray Protons (Pioneers 8 & 9)	361A 19	362A 22	---	364A 19	---	---	---	---
A.12d	Solar Protons (NOAA 2, 3 & 4) Graphs	361A 20	362A 23	363A 22	364A 24	---	---	---	---
A.13a	Solar Wind (Pioneers 6 & 7)	361A 18	---	---	---	365A 17	---	---	---
A.13d	Solar Wind from IPS Measurements	---	---	---	---	---	366A 17	367A 17	368A 17
A.17	Interplanetary Magnetic Field (Pioneer 8)	361A 19	362A 22	---	---	---	---	---	---
A.17	Interplanetary Magnetic Field (Pioneer 9)	361A 19	---	363A 21	364A 19	---	---	---	---
A.17c	Inferred IP Magnetic Field	361A 23	362A 26	363A 24	364A 27	365A 21	366A 20	367A 20	368A 21
A.18	Interplanetary Electric Field (Pioneer 8)	361A 19	362A 22	---	---	---	---	---	---
A.18	Interplanetary Electric Field (Pioneer 9)	361A 19	---	363A 21	364A 19	---	---	---	---
B.	Ionospheric (and Radio Wave Propagation) Phenomena								
B.51ca	High Latitude Quality Figures and Forecasts	362A119	363A123	364A119	365A109	366A111	367A111	368A103	
B.52	Graphs of Transmission Frequency Range	362A120	363A124	364A120	365A110	366A112	367A112	368A104	
B.53	Quality Figures Based on Frequency Ranges	362A122	363A126	364A122	365A112	366A114	367A114	368A106	
C.	Flare-Associated Events								
C.1a	Optical Observations Flares	361A 10	362A 10	363A 10	364A 10	365A 10	366A 10	367A 10	368A 10
C.1ba	Optical Observations Flares (Standardized Data)	366B 4	367B 4	368B 4					
C.1d	Flare Patrol Observations	361A 12	362A 13	363A 13	364A 12	365A 11	366A 11	367A 11	368A 11
C.1d	Flare Patrol Observations	366B 14	367B 20	368B 24					
C.1e	Flare Indices (by day)	366B 13	367B 16	368B 20					
C.1f	Flare Indices (by Region)	367B 52	368B 56						
C.3	Solar Radio Waves - Outstanding Occurrences	366B 15	367B 21	368B 25					
	Solar Radio Waves - Fixed Frequencies - Selected	361A 17	362A 18	363A 17	364A 17	365A 16	366A 16	367A 16	368A 16
C.3t	43.25, 80 and 160 MHz Selected Bursts (Culgoora)	362A111	363A115	365B106	365A101	366A100	367A103	368A 95	
C.4a	Solar Radio Spectral Obs. (Fort Davis)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	
C.4b	Solar Radio Spectral Obs. (Boulder)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	
C.4d	Solar Radio Spectral Obs. (Culgoora)	362A104	363A101	365B103	365A 94	366A 94	367A 96	368A 91	
C.4e	Solar Radio Spectral Obs. (Weissenau)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	
C.4f	Solar Radio Spectral Obs. (Sagamore Hill)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	
C.4h	Solar Radio Spectral Obs. (Dwingeloo	362A104			365A 94	366A 94	367A 96	368A 91	
C.4i	Solar Radio Spectral Obs. (Dürnten)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	
C.4j	Solar Radio Spectral Obs. (Manila)	362A104	363A101	364A104	365A 94	366A 94	367A 96	368A 91	
C.5e	Solar X-ray (SMS-1 GOES)				364A 23	365A 20	366A 18	367A 18	368A 18
C.6	Sudden Ionospheric Disturbances	362A103	363A 99	364A102	365A 93	366A 93	367A 95	368A 90	
D.	Geomagnetic and Magnetospheric Phenomena								
D.1a	Geomagnetic Indices Ci, Cp, Kp, Ap, aa - Selected Days	362A114	363A118	364A113	365A104	366A103	367A106	368A 98	
D.1ba	27-Day Chart of Kp Indices	362A115	363A119	364A114	365A105	366A105	367A107	368A 99	
D.1c	27-Day Chart of C9	366A107	366A107	366A107	366A107	366A107			
D.1d	Principal Magnetic Storms	362A117	363A121	364A116	365A107	366A109	367A109	368A101	
D.1e	Reduced Magnetograms	---	367B 40	368B 44					
D.1f	Sudden Commencement and Solar Flare Effects	362A118	363A122	364A118	365A108	366A110	367A110	368A102	
D.1g	Equatorial Indices Dst	362A116	363A120	364A115	365A106	366A108	367A108	368A100	
F.	Cosmic Rays								
F.1a	Cosmic Ray Neutron Counts (Deep River)	362A112	364B 42	364A111	365A102	366A101	367A104	368A 96	
F.1b	Cosmic Ray Neutron Counts (Climax)					366A101	367A104	368A 96	
F.1e	Cosmic Ray Neutron Counts (Alert)	362A112	364B 42	364A111	365A102	366A101	367A104	368A 96	
F.1f	Cosmic Ray Neutron Counts (Calgary)	362A112	363A116	364A111	366B 32	366A101	367A104	368A 96	
F.1g	Cosmic Ray Neutron Counts (Sulphur Mountain)	362A112	363A116	364A111	366B 32	366A101	367A104	368A 96	
F.1h	Cosmic Ray Neutron Counts (Thule)	363B 47	363A116	364A111	365A102	366A101	367A104	368A 96	
F.1i	Cosmic Ray Neutron Counts (Kiel)	362A112	363A116	364A111	365A102	366A101	367A104	368A 96	
F.1j	Cosmic Ray Neutron Counts (Tokyo)	362A112	363A116	364A111	365A102	366A101	367A104	368A 96	
H.	Miscellaneous								
H.60	IUWDS Alert Decisions	361A 4	362A 4	363A 4	364A 4	365A 4	366A 4	367A 5	368A 4
H.62	Abbreviated Calendar Record	367B 44	368B 48						

Note: A = Part I, B = Part II.
362A 32 listed under Aug shows that data for August 1974 were contained in *Solar-Geophysical Data* Number 362 - Part I beginning on page 32.

MARCH 1975 DATA

Contents

	Page
Alert Period	
IUWDS Alert Periods (Advance and Worldwide)	4-5
Daily Solar Indices	
12-Month Tables Sunspot Numbers, R_Z, and 2800 MHz Flux Adjusted to 1 A.U.	6
Combined Table Sunspot Numbers and Solar Fluxes	7
Graph of Sunspot Cycles	8
Zürich Smoothed Observed and Predicted Sunspot Numbers	9
Solar Flares	
Flares of Numerical Importance 1 or Greater	10
Subflares	10
No-Flare-Patrol Chart	11
Solar Radio Waves	
169 MHz Solar Interferometric Chart - Nançay (data not available at time of publication)	12
10.7 cm East-West Solar Scans - ARO, Ottawa	13
21 cm East-West Solar Scans - Fleurs	14
43 cm East-West Solar Scans - Fleurs	15
Selected Fixed - Frequency Occurrences	16
Solar Wind Measurements	
Scintillation Observations	17
Spacecraft Observations	
No Pioneer data available	
Solar X-ray Radiation	
SMS-1 GOES	18-20
Solar Proton Monitoring	
(The data from NOAA 4 is not useable, NOAA 2 and 3 were not monitored)	
Inferred IP Magnetic Field Polarities	21

ALERT PERIODS

INTERNATIONAL URSIGRAM AND WORLD DAYS SERVICE

MARCH 1975

PRESTO MESSAGES (THE RAPID REPORT OF MAJOR EVENTS):

Boulder 05/1400Z Minor Magstorm begins 05/0230Z.
Boulder 10/1541Z Weak Magstorm in progress 10/1200Z.

SUMMARY OF THE GEOALERT WWA MESSAGES

Message serial number	Date of issue	Date of observation	Wolf number	10 cm solar flux	A index	Active Regions: Location Lat-Long	Active Regions: No. of Flares Total	Active Regions: No. of Flares M	Active Regions: No. of Flares X	Outstanding events	Forecasts: Date	Forecasts: Location Lat-Long	Forecasts: Desc*	Alert Situations
060	01	28	00	70	10	-	0	0	0		01	SPOTNIL		SOLQUIET MAGALERT 01/03 STRATWARM ALERT /SATURDAY/ STRATWARM EXISTS SIGNIFICANT INTENSIFICATION NOTED IN MID-STRATOSPHERE WARM AIR SYSTEM OVER NORTHEASTERN SIBERIA.
061	02	01	12	72	15	N11W16	0	0	0		02	N11W16	Q	SOLQUIET MAGALERT MINOR 02/03
062	03	02	22	74	10	N12W30	0	0	0		03	N12W30	Q	SOLQUIET MAGNIL
063	04	03	28	75	07	N12W45	0	0	0		04	N12W45	Q	SOLQUIET MAGQUIET STRATWARM ALERT /TUESDAY/ STRATWARM EXISTS NORTHERN SIBERIA MOVING POLEWARD.
064	05	04	12	74	08	N12W58	0	0	0		05	N12W58	Q	SOLQUIET MAGQUIET STRATWARM ALERT /WEDNESDAY/ STRATWARM EXISTS NORTHERN SIBERIA.
065	06	05	22	72	35	N12W79 N07E71	0 0	0 0	0 0		06	N12W79 N07E71	Q Q	SOLQUIET MAGALERT 05/06 STRATWARM ALERT /THURSDAY/ STRATWARM EXISTS MID-STRATOSPHERE WARMING CONTINUES OVER NORTHERN SIBERIA.
066	07	06	11	73	23	N12W85 N07E58	0 0	0 0	0 0		07	N12W85 N07E58	Q Q	SOLQUIET MAGNIL STRATWARM ALERT /FRIDAY/ STRATWARM EXISTS NORTHERN SIBERIA.
067	08	07	11	73	05	N08W45	0	0	0		08	N08W45	Q	SOLQUIET MAGALERT 09/15 STRATWARM ALERT /SATURDAY/ STRATWARM EXISTS NORTHERN SIBERIA IN MID-STRATOSPHERE SLOPING NORTHWEST TO EUROPEAN ARCTIC IN UPPER STRATOSPHERE SLOW WESTWARD SPREADING AND WEAKENING EXPECTED.
068	09	08	28	74	01	N06E32 S13E12	0 0	0 0	0 0		09	N06E32 S13E12	Q Q	SOLQUIET MAGALERT MINOR 09/15
069	10	09	32	75	05	N07E19 S13W01	0 0	0 0	0 0		10	N07E19 S13W01	Q Q	SOLQUIET MAGALERT MINOR 10/15
070	11	10	17	74	35	S13W15	0	0	0	A MAGNETIC STORM STARTED GRADUALLY 09/23XX AND IS STILL IN PROGRESS	11	S13W13	Q	SOLQUIET MAGALERT 11/15
071	12	11	30	78	46	S13W29 N07W07	0 0	0 0	0 0	MAJOR GEOMAGNETIC STORM WEAKENED TO ACTIVE CONDITIONS AFTER 1500Z	12	S13W29 N07W07	Q Q	SOLQUIET MAGALERT 12/15
072	13	12	15	75	52	S13W45	8	0	0		13	S13W45	E	SOLALERT 13/17 MAGALERT 13/15
073	14	13	23	77	19	S14W55	0	0	0		14	S14W55	E	SOLALERT 14/17 MAGALERT 14/15
074	15	14	29	76	18	S13W67	1	0	0	MINOR MAGNETIC STORM CONTINUES	15	S13W67	E	SOLALERT 15/17 MAGALERT 15
075	16	15	45	74	16	S12W85 S12W20 S09W55	0 0 0	0 0 0	0 0 0	NEUTRON GLE 8.2% ABOVE BACKGROUND AT 2230Z	16	S12W85 S12W20 S09W55	Q Q Q	SOLNIL MAGNIL
076	17	16	48	77	20	S14W34 S11W70	1 2	0 0	0 0		17	S14W34 S11W70	Q Q	SOLQUIET MAGQUIET
077	18	17	33	76	12	S14W40 S11W82	0 0	0 0	0 0		18	S14W40 S11W82	Q Q	SOLQUIET MAGQUIET
078	19	18	34	75	15	S13W62 S07W37	0 0	0 0	0 0		19	S13W62 S07W37	Q Q	SOLQUIET MAGQUIET
079	20	19	27	74	10	S12W81 N06W58	0 0	0 0	0 0		20	S12W81 N06W58	Q Q	SOLQUIET MAGQUIET
080	21	20	12	73	10	S14W90	0	0	0		21	S14W90	Q	SOLQUIET MAGQUIET STRATWARM ALERT /FRIDAY/ WARM AIR ESTABLISHED IN STRATOSPHERE OVER ARCTIC REGION. SPRINGTIME CIRCULATION REVERSAL PROGRESSING. STRATWARM ENDS.

* Q=Quiet E=Eruptive A=Active P=Proton C=Caution D=Doubtful O.G.=Other Groups

ALERT PERIODS

INTERNATIONAL URSIGRAM
AND WORLD DAYS SERVICE

MARCH 1975

SUMMARY OF THE GEOALERT WWA MESSAGES

Message serial number	Date of issue	Date of observation	Wolf number	10 cm solar flux	A index	Active Regions Location Lat-Long	Active Regions No. of Flares Total	Active Regions No. of Flares M	Active Regions No. of Flares X	Outstanding events	Forecasts Date	Forecasts Location Lat-Long	Forecasts Desc*	Alert Situations
081	22	21	00	72	04	-	-	-	-		22	SPOTNIL		SOLQUIET MAGALERT 22/24
082	23	22	00	70	05	-	-	-	-		23	SPOTNIL		SOLQUIET MAGALERT MINOR 23/24
083	24	23	00	68	14	-	-	-	-		24	SPOTNIL		SOLQUIET MAGALERT MINOR 24
084	25	24	00	68	11	-	-	-	-		25	SPOTNIL		SOLQUIET MAGNIL
085	26	25	00	68	08	-	-	-	-		26	SPOTNIL		SOLQUIET MAGQUIET
086	27	26	11	69	12	N09E00	0	0	0		27	N09E00	Q	SOLQUIET MAGQUIET
087	28	27	00	68	25	-	-	-	-		28	SPOTNIL		SOLQUIET MAGALERT MINOR 28/29
088	29	28	00	68	23	-	-	-	-	A MINOR GEOMAGNETIC DISTURBANCE IS IN PROGRESS	29	SPOTNIL		SOLQUIET MAGALERT MINOR 29/01
089	30	29	00	69	23	-	-	-	-	MINOR GEOMAGNETIC DISTURBANCE CONTINUES	30	SPOTNIL		SOLQUIET MAGALERT MINOR 30/1
090	31	30	15	69	08	S01E27	0	0	0		31	S01E27	Q	SOLQUIET MAGNIL
091	01	31	13	71	10	S02E14	0	0	0		01	S02E14	Q	SOLQUIET MAGQUIET

RELATIVE SUNSPOT NUMBERS

ZURICH, R_Z

	1974 FINAL									1975 PROVISIONAL		
DAY	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
1	22	47	33	79	37	8	61	18	0	30	0	0
2	26	70	41	87	23	8	53	27	0	30	22	7
3	19	85	52	90	12	16	46	39	9	28	28	14
4	22	98	67	93	17	37	60	45	16	19	27	11
5	21	100	62	95	18	40	85	36	17	18	20	14
6	23	102	72	93	26	44	83	25	8	23	26	14
7	28	98	65	78	32	38	84	22	7	32	34	7
8	38	96	59	59	34	32	97	14	0	29	29	18
9	56	88	64	40	43	63	107	7	0	37	22	19
10	66	69	55	26	48	74	114	24	9	31	18	20
11	71	62	48	22	54	80	110	27	21	30	13	20
12	74	49	38	22	67	80	92	24	31	31	18	15
13	77	38	44	28	69	74	76	16	34	32	9	15
14	83	32	41	38	66	67	63	8	33	11	8	17
15	87	23	32	49	59	64	48	16	35	20	8	18
16	77	16	25	54	57	68	41	20	40	17	8	30
17	67	8	25	52	52	71	28	20	36	16	0	30
18	55	0	27	53	44	66	16	18	34	20	0	24
19	45	0	28	47	43	51	9	34	43	20	0	20
20	42	0	20	50	32	31	11	40	40	18	7	16
21	35	0	16	55	28	13	12	40	40	16	8	9
22	25	7	11	58	34	0	9	44	37	16	0	0
23	17	9	11	60	34	7	7	44	28	15	0	0
24	18	7	15	57	28	11	7	37	26	7	12	0
25	19	0	15	59	25	11	8	29	9	7	9	0
26	20	20	8	60	8	13	16	25	8	7	0	13
27	28	18	8	54	8	19	30	23	8	0	0	7
28	15	26	18	51	8	23	27	13	20	7	0	0
29	22	18	30	42	14	38	22	7	16	7		0
30	16	7	47	41	8	58	22	7	19	7		7
31		30		38	15		16		13	0		8
MEAN	40.3	39.5	36.0	55.8	33.6	40.2	47.1	25.0	20.5	18.7	11.6	12.0

1974 yearly mean = 34.5

DAILY SOLAR FLUX AT 2800 MHz
OTTAWA ARO

FLUX ADJUSTED TO 1 A.U., S_a

	1974									1975		
DAY	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
1	72.1	98.5	97.9	105.4*	85.1	77.8	93.1	90.2	79.7	78.1	70.8	70.7
2	71.3	113.1*	100.1	112.7*	85.2	79.4	94.6	92.0	78.7	75.8	72.3	72.4
3	71.6	115.5	98.9	118.5*	83.0	79.2	93.4	96.2	76.7	77.1	74.3	73.4
4	73.3	118.0	98.2	127.8*	85.8	81.0	100.5	99.5	74.7	74.4	75.4	72.8
5	76.3	119.7	96.5	125.6*	86.5	81.5	113.3*	97.6*	73.2	73.7	76.5	71.3
6	80.0	123.0	95.0*	121.5	88.0	82.2	115.0	92.3	71.9	73.8	81.1	72.4
7	80.2	119.3	92.8	110.9*	85.8	85.4	114.5*	85.6	71.1	75.7	79.4	71.9
8	81.1	115.8	95.0*	104.7*	89.4	93.4	125.2	82.0	69.6	77.7	78.8	72.5
9	87.8	110.0	95.1	95.5	87.5	96.0	128.9	78.9	69.6	79.9	77.1	73.8
10	93.5*	105.1	97.0	88.2	88.3	102.0	129.3*	78.4	70.4	80.5	76.7	73.3
11	99.8	104.3	95.3*	83.1	94.4	104.6	137.5*	77.3	76.2	81.2	74.8	73.0
12	105.6*	97.1	91.7	83.3	99.4	105.6	144.1	79.1	77.9	82.4	74.9	74.2
13	102.8	93.5	89.8	83.3	95.2	106.8*	126.6	76.1	78.0	80.4	73.7	75.6*
14	116.3	88.2	88.1	83.3	93.2	104.1	113.2*	77.7	78.2	77.7	72.0	75.0
15	122.9*	84.9	84.7	85.5	92.1	103.6	103.7*	80.0	83.2	77.4	69.7	73.4
16	115.0*	80.3	86.2	91.3	96.6	102.0*	94.9	82.5	88.3	76.5	71.4	76.0
17	101.8	75.8	87.2	91.0	98.8	100.3	83.8	84.6	88.3	74.7	69.3	75.3
18	98.0	75.2	84.4	86.5	95.1*	100.0	81.0	88.5	90.3	75.8	68.3	74.2
19	87.5*	73.0	82.8	87.1	88.8	91.7	75.2	96.0	91.9	74.1	70.0	72.9
20	82.3	72.5	83.8	86.7	82.6	85.9*	75.5	95.6	87.3	73.8	69.5	71.9
21	79.5	71.9	81.4	90.1	81.2*	82.7	73.9	96.2	86.0	74.5	68.9	71.2
22	75.3	72.2	82.3	95.3*	80.6	81.0	72.6	98.7	84.4*	73.6	68.3	69.3
23	73.9	71.5	80.2	98.5	81.0	74.6	74.0	98.1	83.0	72.7	68.3	67.6
24	75.0	71.6	79.1	92.1*	77.4	72.8	74.7	95.9	80.1	71.0	68.6	67.4
25	76.5	72.4	78.8	89.5	75.7	72.8	76.9	94.5	78.9	70.3	69.4	67.5
26	74.9	79.6	79.6	93.1	73.8	75.4	80.7	92.2	75.8	70.5	68.8	68.6
27	75.3	85.1	82.4	87.9	72.7	77.0	80.0	90.8	74.3	70.1	69.4	67.3
28	77.9	87.4	83.0	84.5	71.8	80.7	81.6	86.6	73.7	70.7	68.6	67.8
29	81.6	89.4	89.4*	85.2	72.4	90.7	81.6	83.8	74.1	70.4		69.0
30	91.7	91.3	93.1*	85.9	74.2	91.5	82.7	82.0	74.5	70.5		69.0
31		95.1		87.4	75.6		86.7*		76.1	70.1		70.5
MEAN	86.7	92.6	89.0	95.5	85.1	88.7	97.1	88.3	78.6	75.0	72.4	71.7

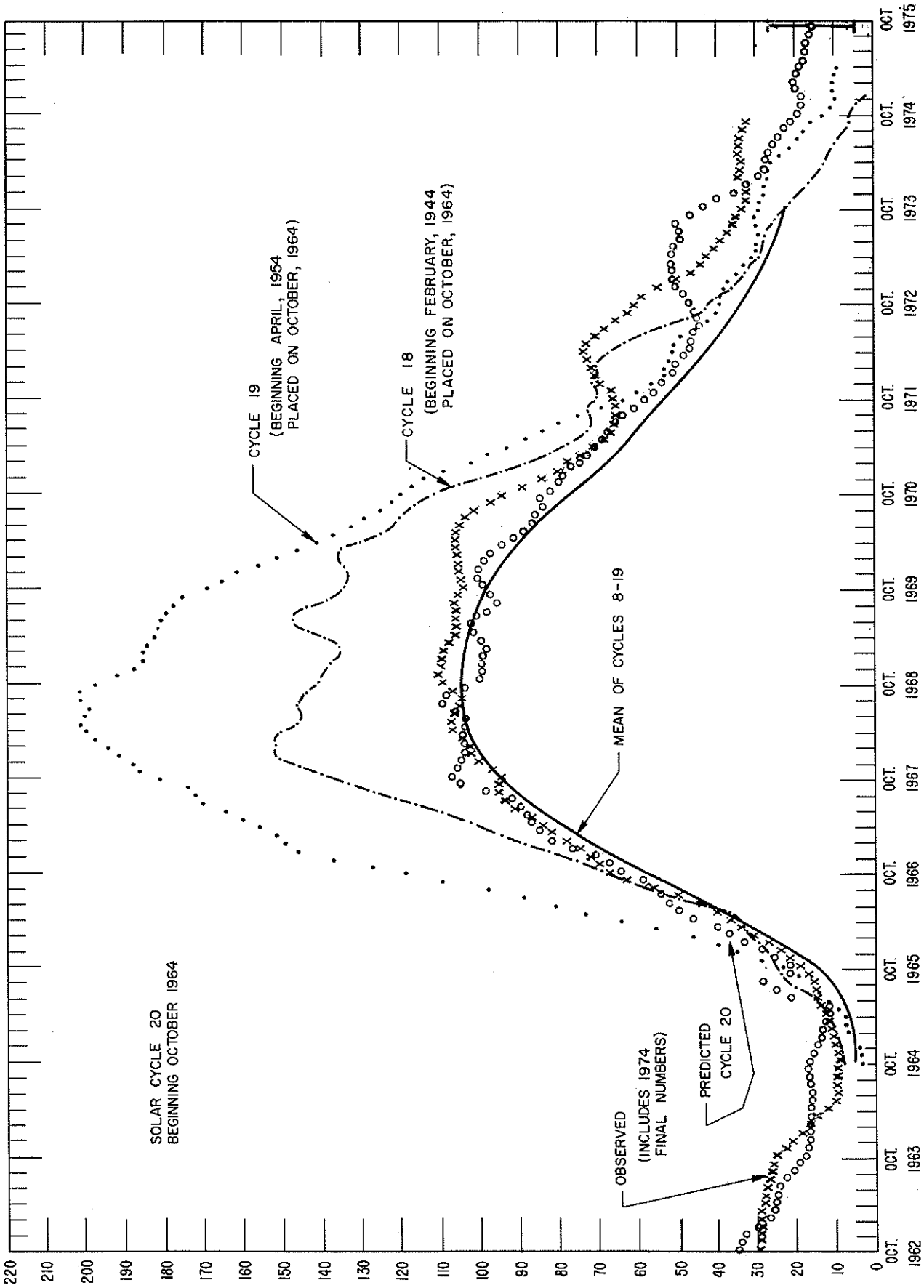
* adjusted for burst

DAILY SOLAR INDICES

MARCH 1975

MAR 1975	YEAR DAY	BARTELS 27-DAY CYCLE NUMBER	SUNSPOT NUMBERS		OBSERVED FLUX OTTAWA 2800	SOLAR FLUX ADJUSTED TO 1 A.U.								
			R_Z	R_A		AFCRL 15400	AFCRL 8800	AFCRL 4995	OTTAWA 2800	AFCRL 2695	AFCRL 1415	AFCRL 606	AFCRL 410	AFCRL 245
1	60	7	0	5	72.0	525	272	118	70.7	69.5	46.8	32.5	21.1	8.0
2	61	8	7	13	73.7	519	270	120	72.4	72.6	48.2	34.4	23.5	12.9
3	62	9	14	13	74.7	517	269	117	73.4	73.3	47.8	31.4	21.2	8.0
4	63	10	11	11	74.0	529	279	120	72.8	73.9	48.5	35.5	21.8	8.3
5	64	11	14	21	72.5	525	279	118	71.3	69.9	46.6	32.1	22.5	8.4
6	65	12	14	9	73.5	519	278	119	72.4	71.6	48.9	35.1	18.8	8.1
7	66	13	7	8	73.0	516	275	118	71.9	71.2	47.2	34.3	18.8	8.0
8	67	14	18	16	73.5	520	276	118	72.5	72.2	49.6	34.8	19.2	7.6
9	68	15	19	20	74.8	524	277	118	73.8	72.9	48.9	35.7	19.4	8.5
10	69	16	20	16	74.3	513	276	119	73.3	73.4	50.0	36.4	19.4	8.3
11	70	17	20	15	74.0	507	274	119	73.0	72.5	48.8	34.1	19.0	8.6
12	71	18	15	14	75.1	515	277	122	74.2	74.2	50.0	35.3	19.9	8.5
13	72	19	15	16	76.5*	518	274	123	75.6*	75.9	50.1	34.1	18.2	7.4
14	73	20	17	15	75.8	517	277	123	75.0	72.3	49.4	35.1	20.8	7.8
15	74	21	18	20	74.2	513	272	119	73.4	72.0	48.1	33.7	19.8	8.0
16	75	22	30	29	76.8	515	278	122	76.0	73.9	49.0	34.1	21.8	10.5
17	76	23	30	27	76.1	515	275	121	75.3	73.6	49.6	34.7	23.4	12.4
18	77	24	24	20	74.9	515	274	122	74.2	72.5	47.8	33.9	22.0	14.5
19	78	25	20	15	73.5	516	274	121	72.9	71.3	49.2	33.6	21.7	8.0
20	79	26	16	8	72.5	520	272	119	71.9	73.0	48.9	32.8	19.5	8.0
21	80	27	9	1	71.7	518	276	117	71.2	71.1	47.5	32.9	20.2	7.4
22	81	1	0	0	69.8	522	274	115	69.3	69.6	45.4	30.5	20.9	7.5
23	82	2	0	0	68.0	513	274	115	67.6	66.5	44.4	30.8	19.9	7.6
24	83	3	0	0	67.8	511	274	116	67.4	66.1	45.2	31.2	20.0	7.2
25	84	4	0	0	67.8	514	275	116	67.5	66.1	42.5	30.9	19.3	7.3
26	85	5	13	2	68.9	514	277	115	68.6	69.4	45.0	31.3	20.4	7.2
27	86	6	7	1	67.6	510	279	114	67.3	68.6	45.3	32.0	21.1	7.6
28	87	7	0	0	68.0	511	278	116	67.8	68.8	43.7	33.5	21.5	7.6
29	88	8	0	0	69.2	513	277	115	69.0	68.8	45.2	32.6	19.9	7.4
30	89	9	7	3	69.1	516	276	116	69.0	66.8	45.9	33.5	21.1	7.8
31	90	10	8	2	70.6	515	276	117	70.5	68.7	47.2	35.4	22.5	7.6
MEAN			12.0	10.3	72.4	517	275	118	71.7	71.0	47.4	33.5	20.6	8.5

* Corrected for burst.



PREDICTED AND OBSERVED SUNSPOT NUMBERS

SMOOTHED OBSERVED AND PREDICTED SUNSPOT NUMBERS
CYCLE 20

MONTH	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1964										9.6	10.2	11.0
1965	11.7	12.0	12.5	13.6	14.6	15.0	15.5	16.4	17.4	19.7	22.3	24.5
1966	27.7	31.3	34.5	37.4	40.7	44.6	50.3	56.6	63.1	67.6	70.2	72.7
1967	75.0	78.8	82.2	84.6	87.4	91.3	94.1	95.3	95.3	95.0	97.1	100.6
1968	102.6	102.9	104.7	107.2	107.6	106.6	105.2	104.8	107.0	109.9	110.6	110.1
1969	110.0	109.6	108.0	106.4	106.2	106.1	105.8	106.4	105.4	104.1	104.6	104.9
1970	105.6	106.0	106.2	106.1	105.8	105.3	103.8	101.0	97.2	93.9	89.4	84.1
1971	80.4	77.8	74.4	70.9	68.1	66.7	65.4	64.6	65.8	66.2	66.8	69.4
1972	70.8	71.2	72.4	73.4	72.9	70.5	68.2	65.5	62.2	60.6	58.7	55.1
1973	50.9	46.5	44.2	42.7	40.7	39.1	37.5	36.1	34.4	32.6	31.8	31.5
1974	32.7	34.4	34.0	33.9	34.6	34.5	34.0	33.1	32.1	30.3 (2)	28.7 (3)	27.4 (4)
1975	26.0 (5)	24.3 (5)	23.0 (6)	21.5 (7)	19.8 (8)	18.6 (9)	17.6 (11)	16.5 (-)	15.3 (-)	14.4 (-)	13.5 (-)	12.5 (-)

For each month, the upper figure is the observed or predicted Zürich smoothed sunspot number. The lower figure in parenthesis is the corresponding absolute value of the 90% prediction interval, an indication of the uncertainty above and below the predicted number. Observed numbers are those with no prediction intervals. The observed smoothed sunspot numbers are based on final Zürich numbers through 1974.

The predicted sunspot numbers are derived from a regression analysis based on cycles 8 through 19. Tests indicate that earlier cycles are from a different statistical population. From July 1968 - February 1970 a regression analysis based on cycles 1 through 19 was used because it had not then been proven that two populations exist.

SOLAR FLARES

PARTIAL LISTING

Solar Flares for which at least one observatory has assigned a numerical importance of "1" or greater.

MARCH 1975

OBSERVATORY	OBSERVED UT DATE MAR	START	END	MAX. PHASE	LOCATION APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	DURATION MIN.	IMPORTANCE	OBS. COND.	TYPE	MEASUREMENTS TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	REMARKS
ATHN	12	1343	1414	1347	S13	W39	.636		9.6	31	SN	2	C		1.98				U F
ATHN	12	1343	1414	1347	S13	W39	.636		9.6	31	SN	2	V		1.98				U F
RAMY	12	1343	1425	1346	S15	W37	.615		9.8	42	SN	4	C		1.11				F
RAMY	12	1350E	1419	1355	S13	W37	.610	13532	9.8	290	1F	4	C		2.17				DE
RAMY	12	1350E	1355D	1355D	S13	W37	.610	13532	9.8	50	1F	4	V		2.17				DE

Note: Catania and Capri-S express Maximum Intensities in percent of the local undisturbed chromosphere instead of percent of the local continuum. Parentheses are used to indicate this difference.

"Remarks":

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked asymmetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

SOLAR FLARES

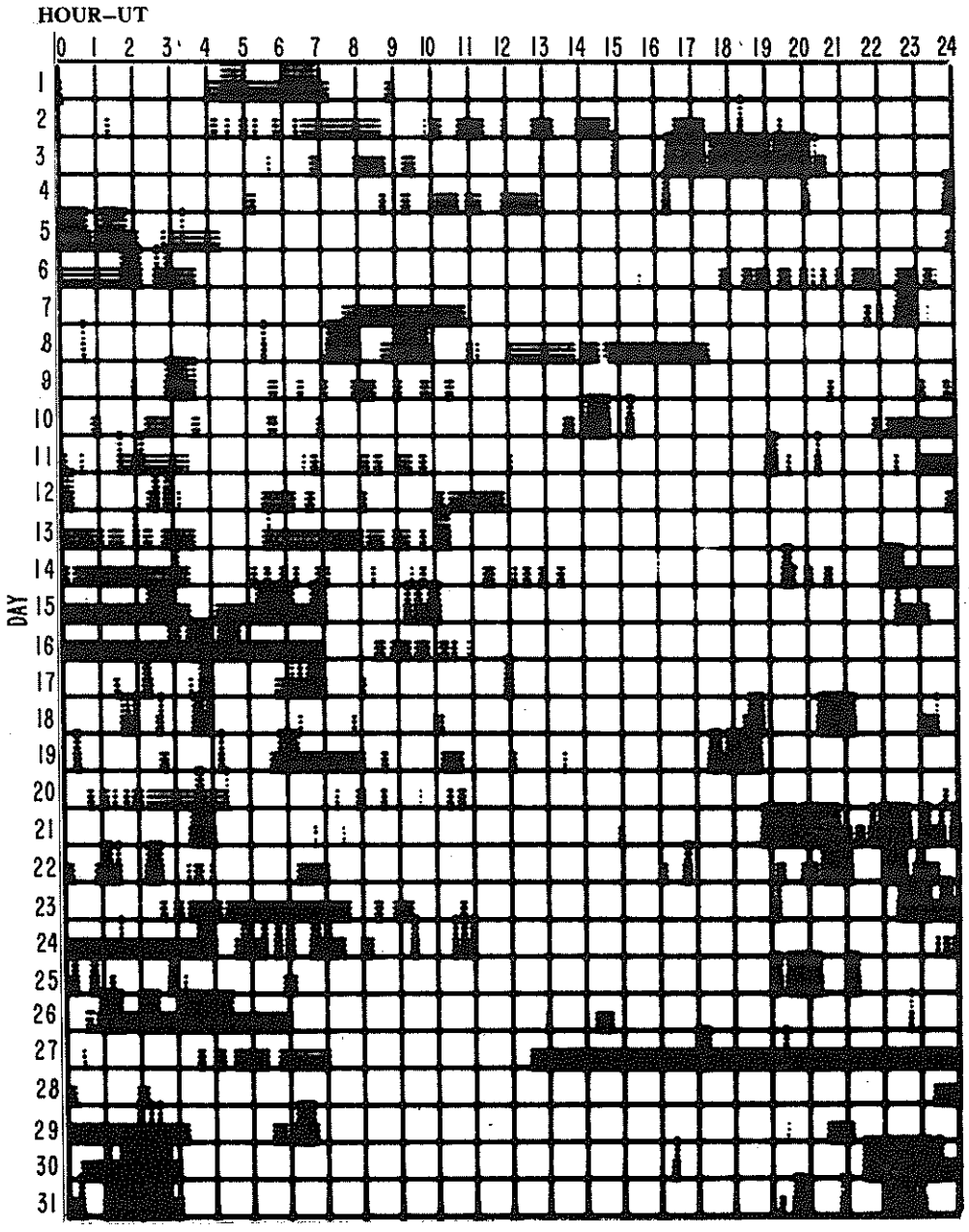
Date, time (UT) and coordinates of Subflares not included in preceding table.

MARCH 1975

05	1918	N12	W73	11	0039	S13	W30	12	0039E	S14	W31	12	0040E	S13	W32	12	0040	S13	W30	12	0310	S14	W32
12	0312E	S13	W32	12	0847	S14	W37	12	0917	S14	W37	12	0919	S13	W34	12	1648	S15	W39	12	1833E	S13	W41
12	1834E	S13	W41	12	1913	S15	W38	12	1917	S15	W41	12	2237	S15	W42	12	2238	S13	W44	13	0027	S13	W43
13	0629	S13	W49	13	1207	S15	W48	13	1919	S15	W53	13	2041	S14	W57	14	0059	S13	W57	14	2351E	S12	W70
15	1831	S13	W82	15	2339	S13	W90	16	0915	S11	W61	16	0915	S11	W61	16	1216	S10	W62	16	1314	S11	W63
16	1314	S11	W63	16	1411	S12	W63	16	1918	S16	W31	17	1754E	S17	W90	21	2244E	N 7	W85	21	2244E	N 8	W81
22	0128E	N 8	W87	22	0129E	N 8	W84	23	2013	N16	E47												

INTERVALS OF NO FLARE PATROL OBSERVATION
FOR PRECEDING SOLAR FLARE TABLE

MARCH 1975



Observatories included in total patrol:

Athenes	Catania	Manila	Palehua	Upice
Boulder	Herstmonceux	McMath-Hulbert	Ramey	Wendelstein
Bucharest	Hurbanovo	Mitaka	Tehran	

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

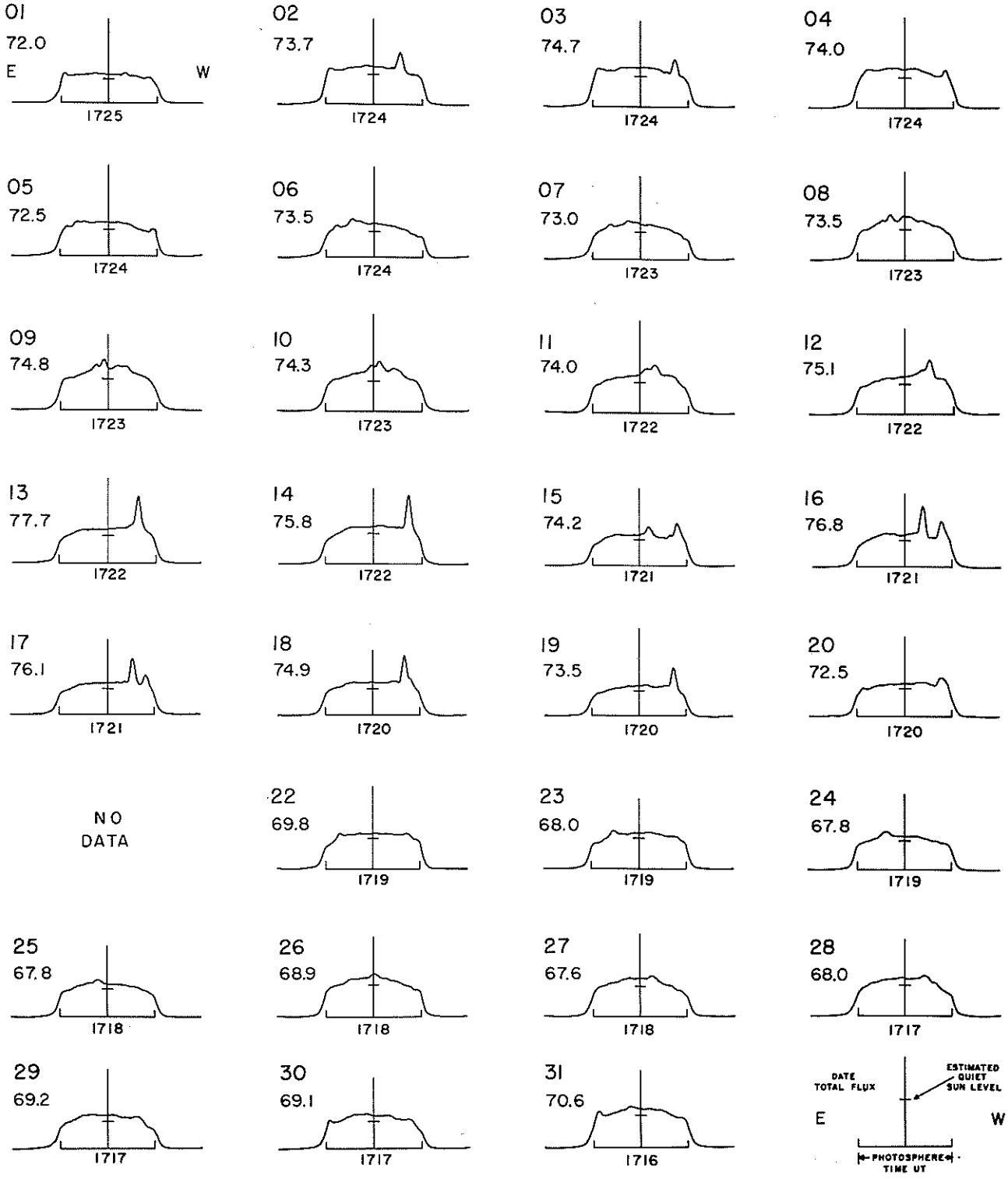
DATA NOT AVAILABLE AT TIME OF PUBLICATION

EAST - WEST SOLAR SCANS

March 1975

ALGONQUIN RADIO OBSERVATORY
CANADA

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

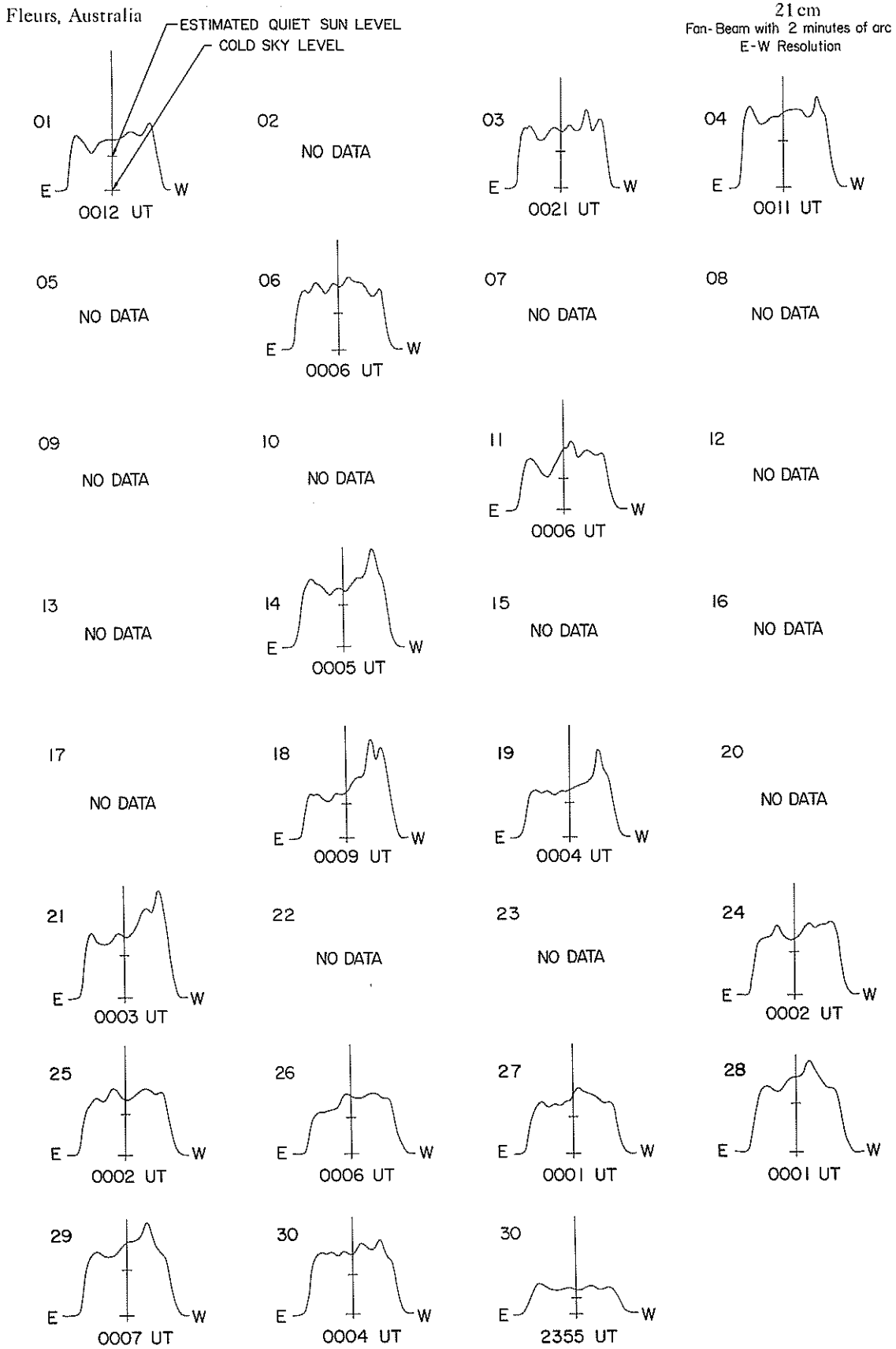


EAST-WEST SOLAR SCANS

MARCH 1975

Fleurs, Australia

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

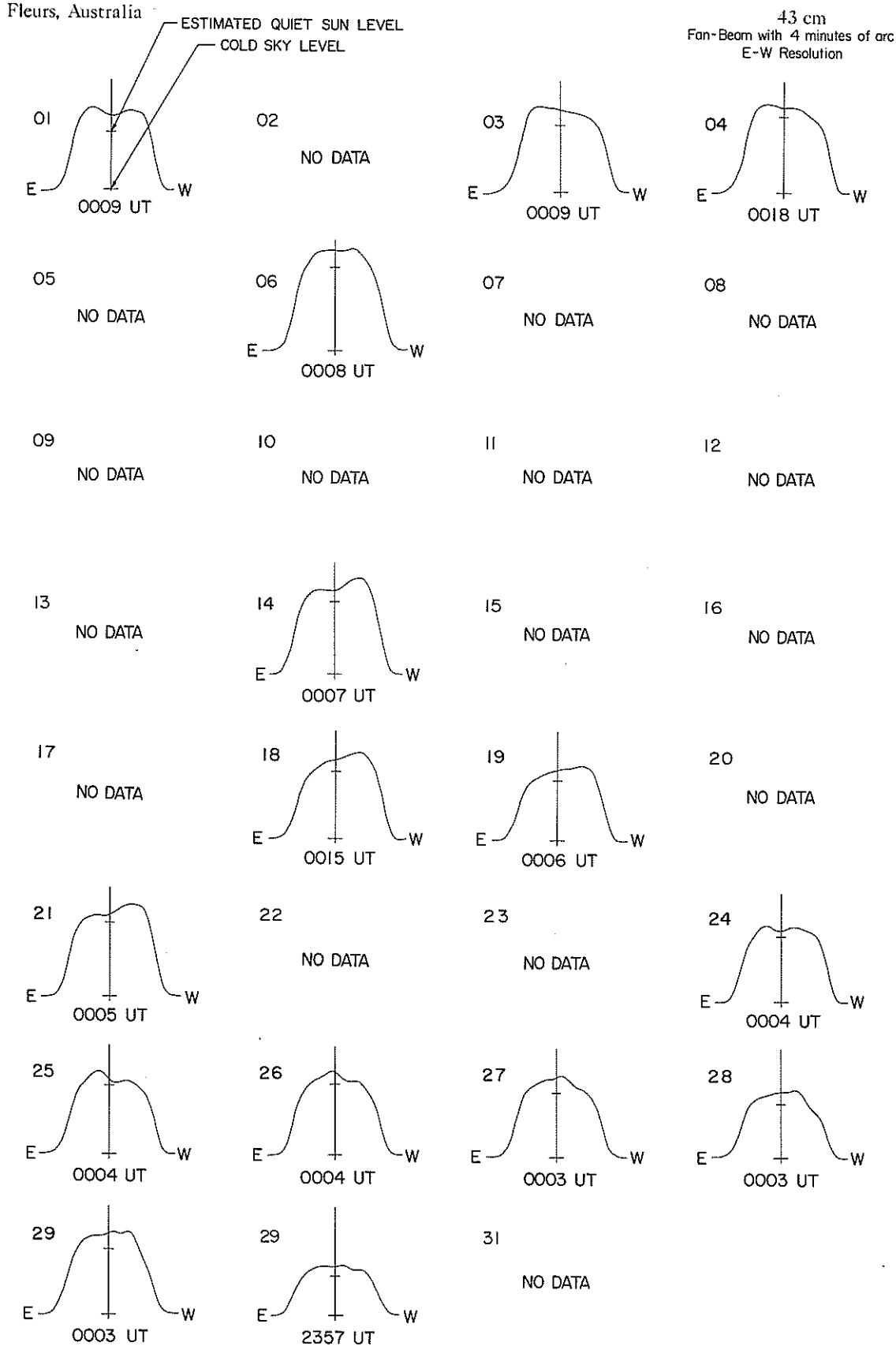


EAST-WEST SOLAR SCANS

MARCH 1975

Fleurs, Australia

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



SOLAR RADIO EMISSION
SELECTED FIXED FREQUENCY EVENTS

MARCH 1975

	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY $10^{-22} Wm^{-2} Hz^{-1}$ PEAK	MEAN	INT	REMARKS
6	2695 BOUL	8 S	2059.5	2100.5	2	9	4		
	2695 BOUL	3 S	2105.5	2106	1.5	5	2		
7	2695 BOUL	45 C	2329.5	2330.5	2	23	9		
10	2695 BOUL	45 C	2222	2222.5	1.5	5	2		
12	2800 OTTA	20 GRF	1340	1420	75	1.4	0.7		
13	2800 OTTA	20 GRF	1410	1610	215	1.8	0.9		
	2800 OTTA	27F RF	1810		140	1.2	1		
	2800 OTTA	24 R	1810	1840	30	1.2	0.6		
	2800 OTTA	24P R	1840		100	1.2			
	2800 OTTA	26 FAL	2020	2030	10	-1.2	-0.6		
14	2695 PENT	2S/F	0004	0005	3.5	1.4	0.7		
	2695 PENT	20 GRF	2335	2348	55	1.8	0.9		
16	2800 OTTA	24O R	1403 D	1410	7 E	2			CALIBRATION
	2800 OTTA	24P R	1410		285	2			
	2800 OTTA	24O R	1855	1910	15	1.6	0.8		
	2800 OTTA	24P R	1910		340 D	1.6			
	2800 OTTA	8 S	1918.7	1918.7	0.3	2.6			
	2800 OTTA	20 GRF	2000	2035	90	1.8	0.9		
21	2800 OTTA	20 GRF	1925	2005	95	1.4	0.7		

Observatories:

BOUL = Boulder MANI = Manila OTTA = Ottawa ARO PENT = Penticton SGMR = Sagamore Hill

Explanation of Type Code:

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

SOLAR WIND
Interplanetary Scintillations
MARCH 1975

UCSD 74 MHZ SCINTILLATIONS

DAY	3C48		3C144		3C147		3C161		3C237		3C273		3C298		3C459	
	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR	VEL	ERR
1	486	20									460	64	476	125		
2	514	30									588	49	557	38		
3	347	34	466	105									382	140		
4							380	136								
5	279	23	425	105			394	12			598	124	470	39		
6	352	18	492	141												
7	418	116	477	45	396	70										
8	417	57	295	18	325	8										
9	412	24	367	81	388	44	338	38								
10	403	37			445	103	400	84								
11	379	98							606	81			668	257		
12	527	105					478	81					648	92		
13	341	56	547	137			353	35					378	56		
14																
15	383	47														
16	323	69														
17			322	60												
18	346	46	309	45	255	70	526	56								
19	405	9	313	9	245	51	414	25								
20	501	164	377	144	240	32										
21	432	33	246	58									313	66		
22	291	54	250	16	390	13	484	34	314	148						
23	368	4	302	35			577	84								
24	472	34			515	13	407	45					375	185		
25	462	47	348	70	336	82	422	60	325	64						
26																
27	439	127											608	231		
28			433	122	389	69	394	6								
29	389	109														
30	551	45	488	164												
31	478	135	385	78			305	56							382	12

MARCH	5				15				25			
	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON	UT	LAT	DIST	DLON
3C48	23.	9.	0.80	-33.	22.	15.	0.70	-40.	22.	23.	0.59	-46.
3C144	3.	-7.	1.09	-16.	2.	-7.	1.04	-17.	1.	-7.	0.99	-17.
3C147	2.	0.	1.09	-14.	1.	0.	1.05	-15.	1.	0.	1.01	-16.
3C161	4.	-14.	1.14	-13.	3.	-14.	1.10	-14.	3.	-15.	1.05	-15.
3C237	8.	-8.	1.29	-3.	7.	-8.	1.28	-6.	6.	-7.	1.26	-8.
3C273	10.	-6.	1.28	5.	9.	-5.	1.30	2.	8.	-5.	1.30	0.
3C298	11.	-2.	1.22	9.	11.	-2.	1.25	7.	10.	-2.	1.27	5.
3C459	20.	47.	0.18	-66.	19.	62.	0.15	55.	19.	29.	0.27	68.

Sources as given in the 3rd Cambridge Catalog.

SOLAR X–RAYS BY SATELLITE
SMS–1 GOES

MARCH 1975

.5 - 4Å Hourly Averages (10^{-6} watts/m^2 /sec)

MO DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
3/ 1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 2	B	B	B	0.02	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 3	B	B	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	0.63	B	B	B	B	B	B	B	0.03
3/ 4	B	B	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	0.09	B	B	B	B	2.47	B	B	0.11
3/ 5	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 6	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 7	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 8	B	B	B	B	0.01	B	B	B	B	B	B	B	0.09	B	B	B	B	B	B	B	B	B	B	B	B
3/ 9	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	0.11	B	B	B	B	B	B	B	B
3/10	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B
3/11	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/12	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/13	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/14	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B
3/15	B	B	B	0.03	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/16	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/17	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/18	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/19	B	B	B	0.02	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/20	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/21	B	B	B	M	M	M	B	B	B	B	B	B	B	B	B	B	0.08	B	B	B	B	B	B	B	B
3/22	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B	B	B	0.01	0.03	B	B	B	B	B	B
3/23	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B
3/24	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	M	M	B	M	B	B	B	B
3/25	B	B	B	B	M	M	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/26	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B
3/27	B	B	B	B	M	M	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/28	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	M	B
3/29	B	B	B	M	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/30	B	B	B	0.19	M	M	M	M	M	M	0.02	0.06	B	B	B	B	B	B	B	B	B	B	B	B	0.02
3/31	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	1.22	B	B	B	B	B	B	B	0.06

SOLAR X–RAYS BY SATELLITE
SMS–1 GOES

MARCH 1975

1 - 8Å Hourly Averages (10^{-5} watts/m^2 /sec)

MO DA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Mean
3/ 1	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 2	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.01
3/ 4	B	B	B	B	0.03	0.07	B	B	B	B	B	B	B	B	B	B	0.11	B	B	B	B	B	B	B	0.06
3/ 5	B	B	B	B	B	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 6	B	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 7	B	B	B	B	0.09	0.03	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/ 8	B	B	B	B	0.06	0.11	B	B	B	B	B	B	0.09	B	B	B	B	B	B	B	B	B	B	B	B
3/ 9	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	0.10	B	0.02	B	B	B	B	B	B
3/10	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B
3/11	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/12	B	B	B	B	M	M	B	B	B	0.01	B	B	B	0.01	B	B	B	B	B	B	B	B	B	B	B
3/13	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/14	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B	B
3/15	B	B	B	0.02	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/16	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	B	B	B	B	B
3/17	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	B	B
3/18	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/19	B	B	B	0.02	M	M	B	B	B	B	B	B	B	B	B	B	B	B	0.93	B	B	B	B	B	0.02
3/20	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/21	B	B	B	M	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/22	B	B	B	B	B	M	B	0.02	B	B	B	B	B	B	B	B	B	B	0.49	B	B	0.01	B	B	0.01
3/23	0.03	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B
3/24	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	M	M	B	M	B	B	B	B
3/25	B	B	B	B	M	M	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B	B	B	0.11	B
3/26	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	M	B	B	B	B	B	B	B	B
3/27	B	B	B	B	M	M	M	M	M	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/28	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.02	B	M	B
3/29	B	B	B	M	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
3/30	B	B	B	B	M	M	M	M	M	M	B	0.09	B	0.07	0.10	B	B	B	B	B	B	B	B	B	0.02
3/31	B	B	B	B	M	M	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	0.03

SOLAR X–RAYS BY SATELLITE
SMS–1 GOES

MARCH 1975

DAY	BEGIN TIME	.5-4A	1-8A	MAX TIME	.5-4A	1-8A	1/2P TIME	.5-4A	1-8A
1	1028	0.0E+00	2.4E-08	1031	7.9E-09	3.3E-06	1033	0.0E+00	1.6E-06
14	2337	0.0E+00	6.7E-09	2352	1.7E-07	3.2E-06	0000	1.3E-08	1.6E-06
16	1901	6.1E-10	6.7E-09	1916	1.7E-07	3.2E-06	1932	2.4E-08	1.6E-06

INFERRED IP MAGNETIC FIELD

BARTELS ROTATION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1896	1972 MAR 10	A A	A A	A A	A A	A A	A A	T A	T A	T A	T A	T A	T T	A A	A T	T T	A T	TA T	A A	A A	T T	T T	T T	T T	T T	TA T	A A	A A
1897	APR 6	A A	T T	T T	A A	AT T	T T	T T	T T	TA T	T T	T T	T T	T T	A A	T T	T T	AT A	A A	A A	A A	A A	T -	A A	A A	T T	TA TA	A A
1898	MAY 3	A A	A A	A A	T -	A A	T T	T T	T T	T T	T T	T T	T T	T T	A A	T A	A T	A A	AT A	A A	AT A	AT A	T T	A A	T T	T T	A A	T T
1899	MAY 30	A A	A A	A *	A A	AT A*	T T	T T	A A	T T	T T	TA T	A A	A -	A -	TA -	A -	A -	T T	T -	A A	A A	T T	T T	T T	T T	TA TA	A A
1900	JUN 26	A A	A A	A A	TA A	TA A	A A	A A	T AT	TA T	T T	T T	T T	TA A	A T	T T	A A	A A	T A*	TA A*	A A	T T*	T T	T T	T T	T T	T TA	TA
1901	JUL 23	TA A*	TA A*	T A*	T A	A A	A A	A A	T A*	TA T	T T	A A	A A	TA A	T -	AT A	T T	T T	T T	T T	T T	T T	A T	T T	T T	T T	A A	TA -
1902	AUG 19	A -	A -	A A	A A	A A	A A	A A	TA T	A A	A A	A A	A A	T T	A A	A A	A A	A T	T T	T T	T T	TA A	A A	TA T	A A	A A	TA A	A -
1903	SEP 15	A A	TA T*	A A	A A	A A	AT A	A A	A T	T A	AT A	A A	A -	A -	A -	A -	A -	A T	T T	T T	T T	T A	- T	T T	A	AT A	TA A	A T
1904	OCT 12	T T	A -	TA -	A A*	A T	A T	TA T	A A	A A	A T	TA A	TA A	AT A	AT A	A A	T AT	T T	A AT	A T*	T T	A -	A A*	T AT	T T	TA T	TA *	A A
1905	NOV 8	A A	T A	AT A	AT AT	TA AT	T AT	A T	TA T*	A A	A A	A A*	TA AT	A A	A A	TA AT	T T	A T	TA TA	A T	A T	AT T	A A	TA A	A A	A A	AT AT	T T
1906	DEC 5	T T	T T	TA AT	T -	T -	T T	T T	A AT	A -	TA T	TA T	A A	AT -	A -	A T	T TA	A A	T T	T T	T T	A A*	A T	T T	T T	T T	TA AT	TA T
1907	1973 JAN 1	T T	T T	T T	T T	TA T	T T	A T	AT -	A AT	A T	A -	AT -	A TA	A A	A A	A A	A A	A A	T T	A -	T -	T T	T -	TA T	T -	T T	T T
1908	JAN 28	T T	A A	T T	TA T	AT T	T T	T T	A T	A A	A TA	A A	A A	A AT	T TA	A AT	A TA	A AT	AT -	A A	A A	T T	T T	AT T	T T	T T	T T	T T	T T
1909	FEB 24	AT T	AT T	AT TA	AT T	T T	T -	AT TA	AT A	T A	T T	A A	A A	A A	A AT	TA A	AT A	A A	AT TA	A A	T A	AT TA	A A	AT A	T T	T T	T T	T T
1910	MAR 23	T T	T T	T T	T T	A T	T T	T T	T T	TA AT	A T	TA A	A A	A -	A A	A A	T TA	A A	A A	A AT	AT T-	T -	T T	A T	T T	T T	AT T*	T T*
1911	APR 19	T T	T AT	T T-	A T	T T	AT T	A A	AT T	T T	T TA	A A	A A	AT A*	A A	- AT	A TA	A A*	- T	A A	T TA	T T*	- AT	A A	T T	- A	- T	A A*
1912	MAY 16	T T	T T	T T	T T	AT T	- T	- TA	T T	A A	AT	AT T	T AT	A A	A -	A A	A -	A A	A* A	A A	A A	A A	A -	T* A	-A	A A	- -	T T	T T
1913	JUN 12	TA T*	- T	* -	T T	TA T*	A A	T T	- T*	T T*	T T	T T	AT	AT A	A A	A TA	T *	- T	T -	A A	A A	A A	A*	A AT	T -	T T	A A	- A	T T
1914	JUL 9	T T	T T	A A	T T	- T	AT A	T T*	A T*	- A	A AT	* -	A A	T T	A TA	- T	T T	T T	A A	- A*	A A	A A*	A TA	- A	A TA	T T*	T T*	T T
1915	AUG 5	T T	A A	A A	T AT	A A	A T	T T*	T T	AT *	T AT	T T	A AT	T T	A A	A TA	T T	T T	A A	A A	A AT	A A*	A AT	A A	A A	T TA	A A*	A A
1916	SEP 1	T TA*	T T	T T	A AT	A A	A TA*	A A	A *	T T	T T	T T	T A	A A	A A	T T	T T	T T	T A	T T	T A	A A*	T A	A T*	A A	A A	TA A*	A A
1917	SEP 28	A A*	TA A	T AT	T T	A A	A A	A A	T A	AT A*	AT T*	AT AT	T T	T T	T T*	T T	T T*	T T*	AT T	TA A	A T	- A*	A A	A A	A T	AT A	AT T	T T
1918	OCT 25	T T	T T	A TA	A A	A T	A T*	T A	T A	A A	A A	T A	TA T	T T	AT T	T T	T T	T T	TA T	T T	T T	* A	A A	AT A	AT TA	A T	A -	A A
1919	NOV 21	A *	T T	T -	A A	A A	AT T	A T	A T*	A TA	A A	A A	A A	A T	TA T	T T	T T	T T	* T	T T	TA TA	A A	T T	T -	T A	A TA	A A	T T
1920	DEC 18	T T	AT A	A T	A T	A TA	A T	A *	A A	A *	AT T	T T	T T	T T	T *	T T	T T	T T	A T	AT T	T A	T T	T T	AT TA	T T	T A	A T	AT T
1921	1974 JAN 14	T A	A T	- T	T A	A T	A A	A A	A A	- A	A -	AT -	T T	T TA	T *	T A	T T	T T	T A*	AT T	AT T	TA A	T -	T T	T T	T T	T T	TA A
1922	FEB 10	A -	A -	A *	A A	A A	A A	A A	TA T	A A	A A	T *	T T	T T	T T	T A	T -	T T	T T	T T	T TA	T T	T T	T T	T T	T T	A A	A A
1923	MAR 9	A A	A A	A A	A A	A A	A A	T T	TA TA	A AT	A A	A A	T A	T TA	T A	T T	A T	A A	T A	T T	T T	T T	T TA	T T	TA T	TA A	TA -	A TA
1924	APR 5	A A	A A	A -	TA A	A A	A A	A A	A *	A A	A A	A A	A T	T TA	TA T	T T	T T	T T	T T	T T	T T	T T	T A	TA A	AT T	A A	A -	- -
1925	MAY 2	- -	A A	A A*	AT T	A AT	AT T	A T*	TA A	A A	TA T*	A A*	AT AT	T T	T T	T T	T T	TA T*	T T	T T	T T	T T	TA -	T T	TA T*	T T	A -	- -
1926	MAY 29	T T	A A	A *	- A	A A	A *	A A	* -	TA *	A A	A A	T T	T T	TA TA	T T	T T	T T	T T	T T	T T	T T	T T	T T	T T	T T	AT *	- T
1927	JUN 25	TA TA	A A	- A	- A	A T	A A	A A	A A	A A	A A	- TA	TA -	T T	T T	T T	T -	T T	- T	T T	T T	T T	T A	AT AT	T T	T T	T T	T T
1928	JUL 22	T T	A A	A A	AT A	A A	A A	A A	A A	A A	A A	A -	T -	T -	T -	T -	T -	T -	AT -	AT -	T -	TA -	T -	T -	T -	T -	T -	T -
1929	AUG 18	AT -	A -	A -	A -	A -	A -	A -	A -	AT -	TA T	T T	T T	T T	T T	T T	TA AT	T T	T T	AT T	T T	TA A	AT -	T T	T T	T T	T T	- A -
1930	SEP 14	AT T	T TA	AT A*	A A	A A	A A	A A	TA A	AT A	A A	AT T	T TA	A T	TA T	T T	T T	T T	T -	T T	T AT	T T	T T	T T	TA T	T A	A T	T T
1931	OCT 11	T T	TA T	A A	A A	A A	A A	A A	A A	AT A	A A	TA A	A A	T T	AT -	T T	AT T	T T	T T	T T	T T	T T	T T	T T	T T	T T	TA T	T T
1932	NOV 7	TA -	T -	A -	A -	A A	A A	A A	A A	A A	- A	- AT	- TA	A T	T T	T T	T A	T *	T A	T T*	T AT	T T	T T	T T	T T	TA T	A T	T T
1933	DEC 4	T T	TA T	T A	TA A	A T	A T	A *	AT T*	A T	A *	A T	A A	A A	A T	T T	T T	T T	T T	T T*	T T	T T	T T*	A *	A T	A A	A A	AT TA
1934	DEC 31	T A	T T	T T	A TA	A T	A T	A -	A -	TA T	A A	AT -	A A*	A *	T T	T T	T T	T T	T T	T* T	T* T	T T	T T	T T	* A	A A	A AT	A* A A
1935	1975 JAN 27	T T	T T	A T	AT T	A A*	A T-	TA A	A T	A T	A T	A T	A T -	T T	T T	T T	AT T	T T	T T	T T*	T -	TA A	T A*	AT T	A TA	TA T	A A	A A
1936	FEB 23	TA A	A A	A A*	TA A	A AT	A A	A A	A A	A A	A AT	T A	A A	A A	T T	T T	T T	A T	A* T	T T	T T	TA T	A* T	T T	A T	* T	T T	T A A
1937	MAR 22	A A	A A	TA A	T T	A A*	A A	A A	A A	AT A*	T A																	

T = towards the sun
A = away from the sun
* = effect doubtful or not discernable
- = missing data

The table shows daily inferences of the polarity of the interplanetary magnetic field. The first half of the day is based principally on magnetograms produced by the magnetometer at the Vostok Anarctic Station of the USSR. The magnetometer of the U.S. Air Weather Service operated by the Air Force Cambridge Research Laboratories at the Thule Geopole Station is used for the second half of the day.

Note: Computer problems are responsible for the considerable amount of missing data in August 1974.

SGD 368 Part I (Prompt)

FEBRUARY 1975 DATA

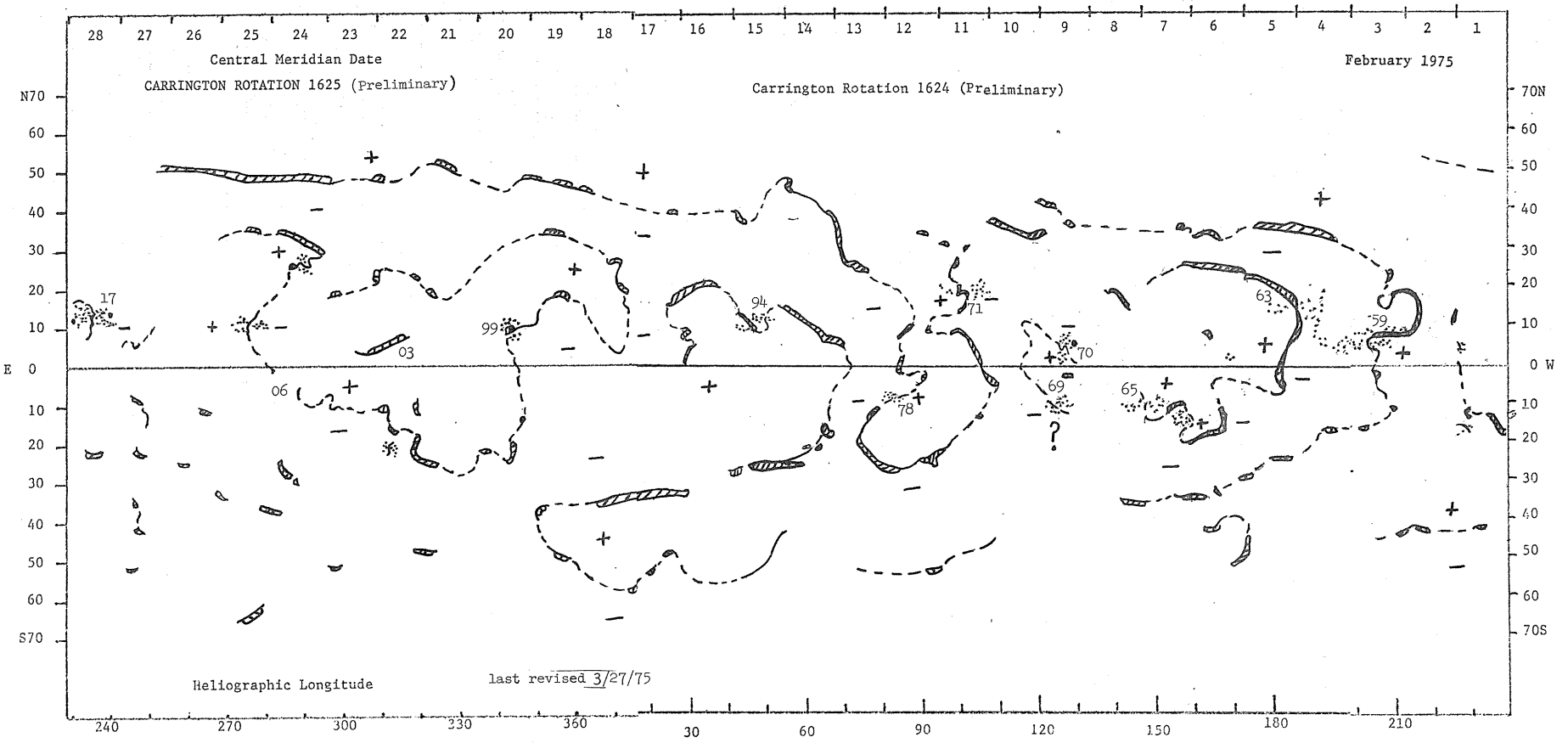
Contents

	Page
Daily Solar Activity Centers	
Hα Synoptic Chart	25
X-ray, Magnetograms, Calcium Plages, Hα Spectroheliograms Sunspots, Corona and 2 cm and 8.6 mm Spectroheliograms	26-81
Individual Regions of Solar Activity	82-89
Daily Calcium Indices	89
Sudden Ionospheric Disturbances	
Table of Events and Number of Events in each Plage Region	90
Solar Radio Waves	
Spectral Observations	91-94
Selected Events by Radioheliograph	95
Cosmic Rays	
Neutron Monitors Daily Values	96
Chart of Variations	97
Geomagnetic Indices	
Table of Indices Kp, Ci, Cp, Ap, aa	98
Chart of Kp by Solar Rotations and 12-Month Table of Daily Averages Ap	99
Equatorial Indices Dst	100
Principal Magnetic Storms	101
Sudden Commencements and Solar Flare Effects	102
Radio Propagation Indices	
North Atlantic Quality Figures and Forecasts	103
Transmission Frequency Ranges - North Atlantic Path	104-105
Quality Indices on Paths to Germany	106

Erratum: See page 102.

Hα SYNOPTIC CHART

FEBRUARY 1975



25
Feb 75

FEBRUARY 1, 1975 (P = -11.97, B_o = -6.01, L_o = 237.98)

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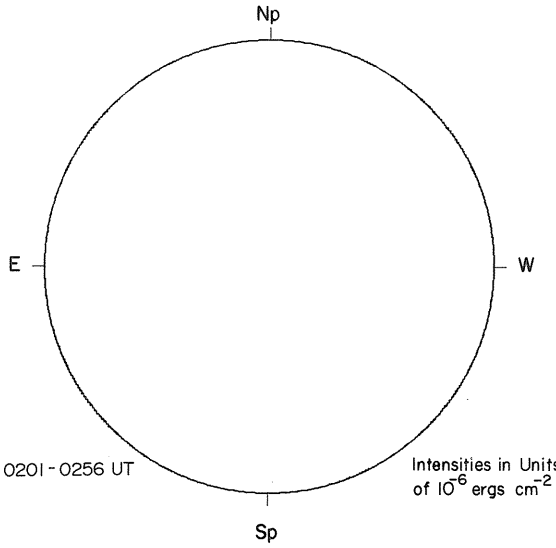
X-RAY
OSO-5

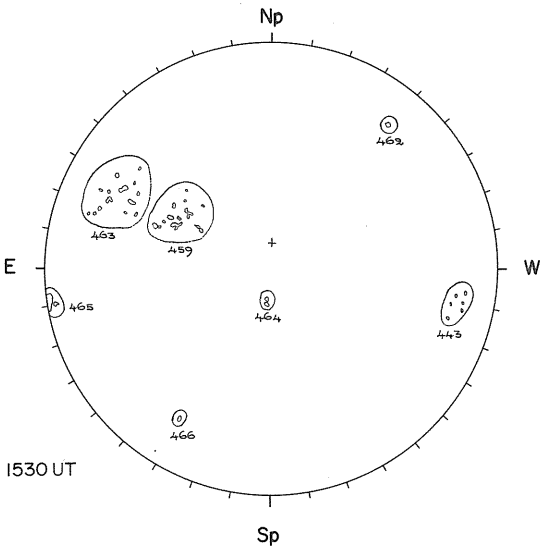


0201 - 0256 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

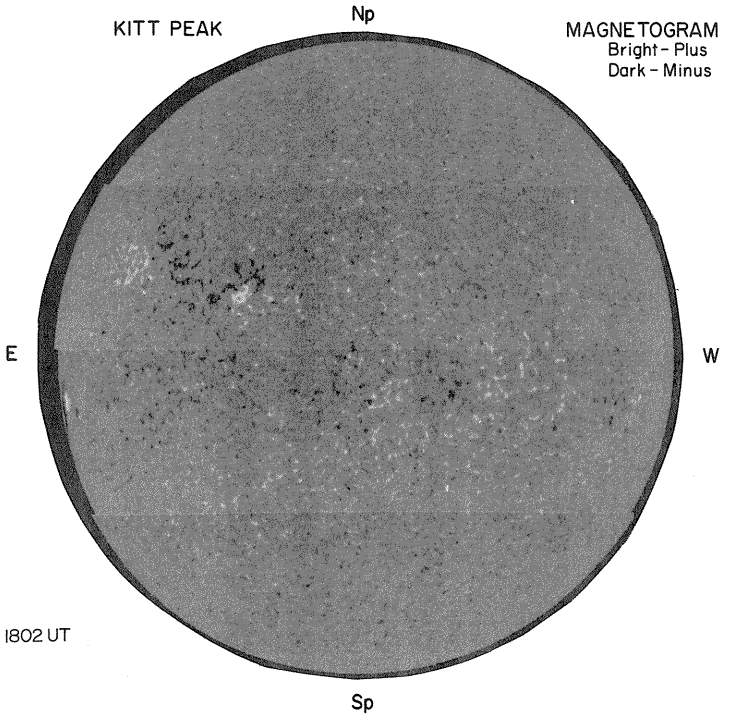


1530 UT

FAIR	S
59 - 0900	- 2.5
65 - 0900	- 2.5

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

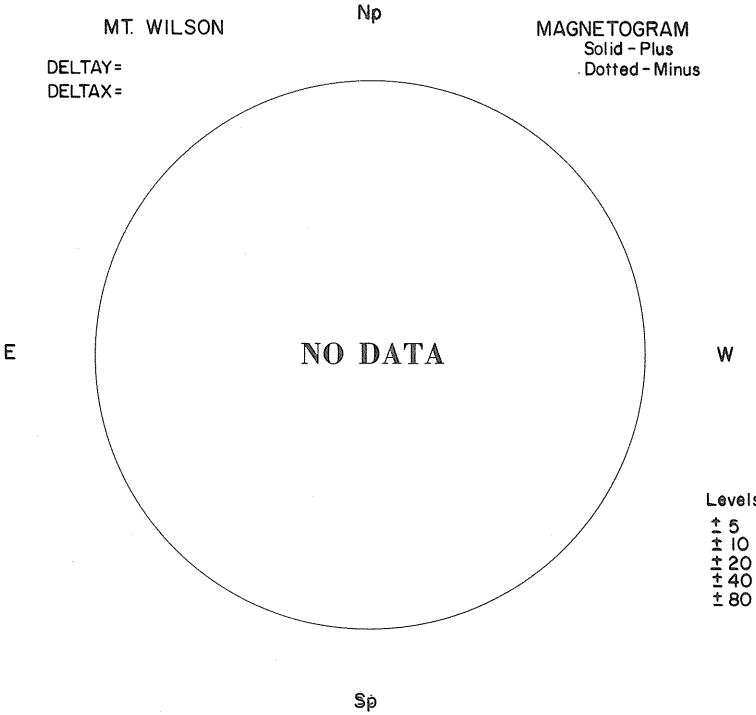


1802 UT

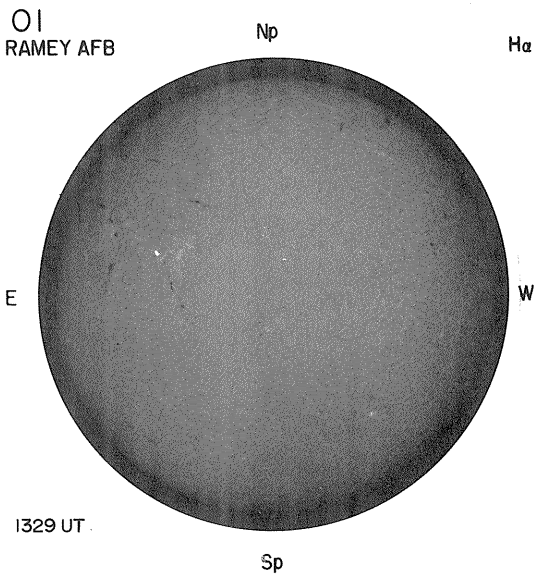
MT. WILSON

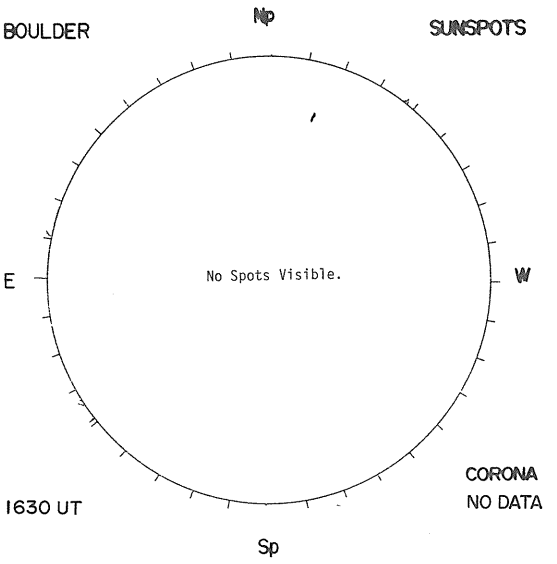
DELTAY =
DELTAX =

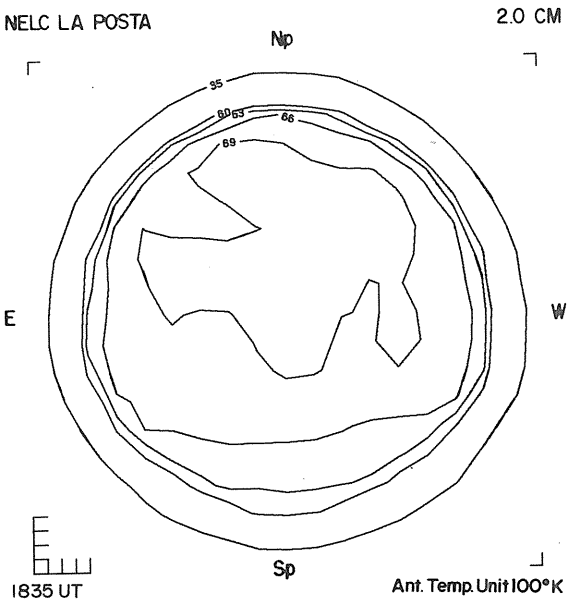
MAGNETOGRAM
Solid - Plus
Dotted - Minus

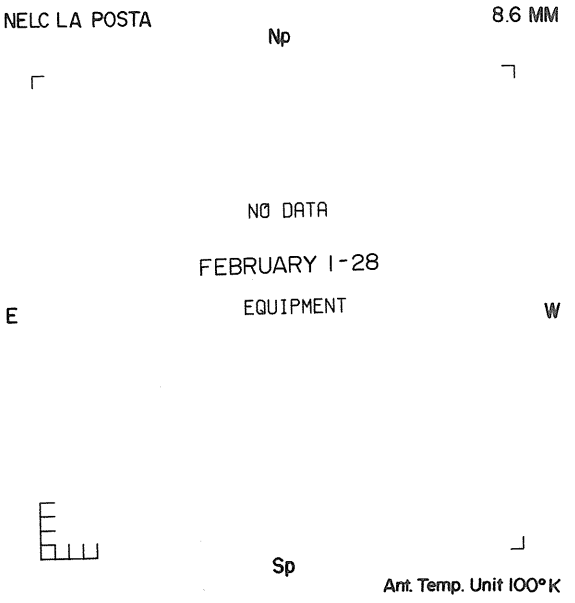


Levels
± 5
± 10
± 20
± 40
± 80


01
RAMEY AFB
Np
Hα
E
W
1329 UT
Sp


BOULDER
Np
SUNSPOTS
E
No Spots Visible.
W
CORONA
NO DATA
1630 UT
Sp

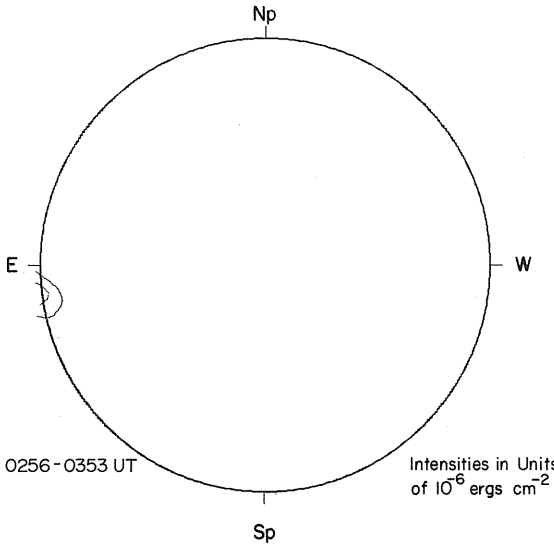

NELC LA POSTA
Np
2.0 CM
95
80
63
66
69
E
W
1835 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
NO DATA
FEBRUARY 1-28
EQUIPMENT
E
W
Sp
Ant. Temp. Unit 100°K

FEBRUARY 2, 1975 (P = -12.38, B_o = -6.08, L_o = 224.82)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

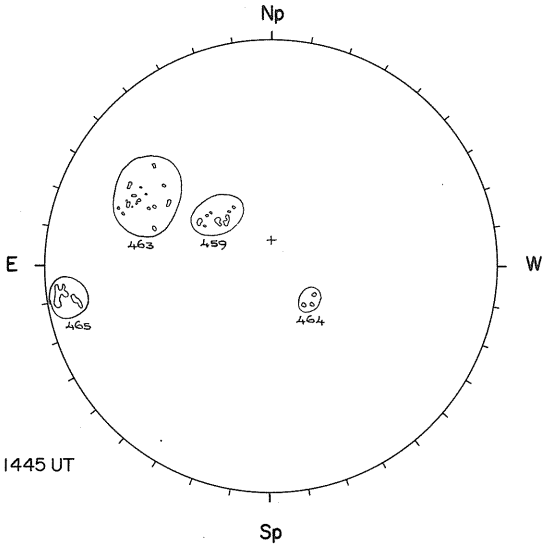


0256-0353 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

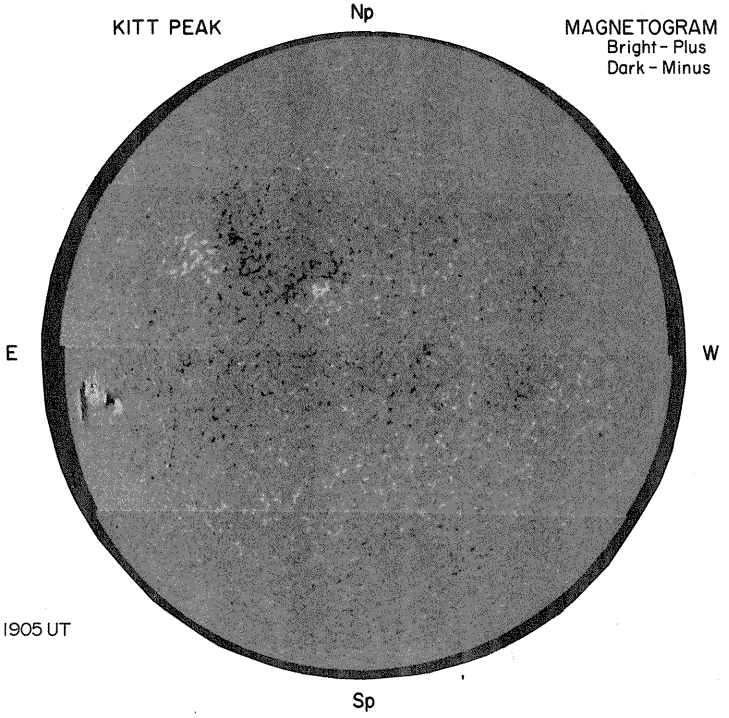


1445 UT

FAIR	D
59 - 0700 - 2.5	
65 - 1600 - 3.5	

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

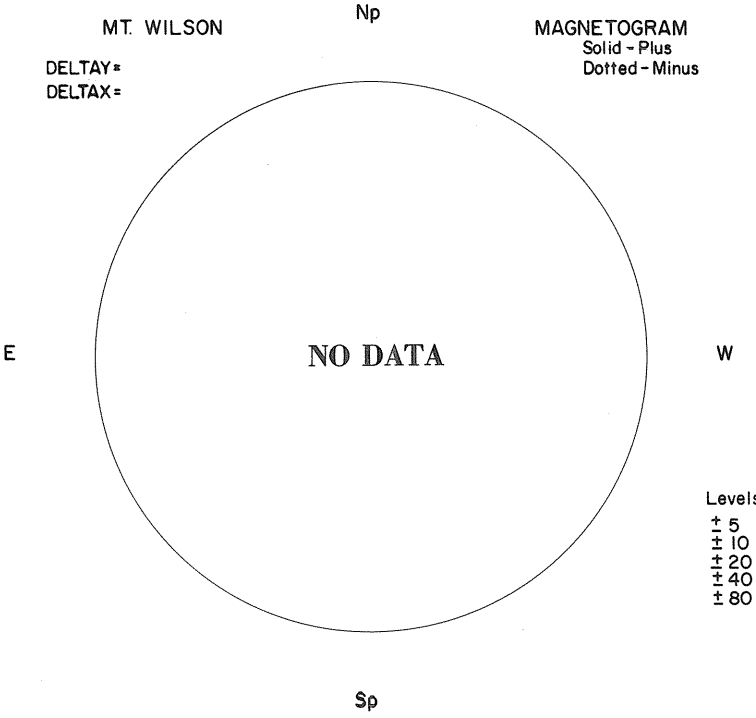


1905 UT

MT. WILSON

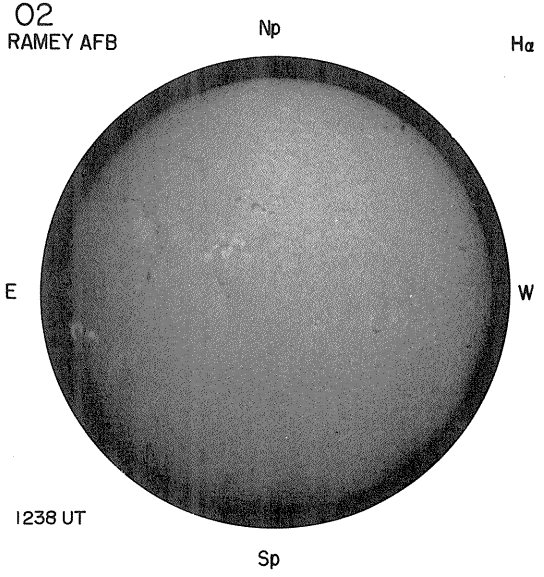
DELTAY=
DELTAX=

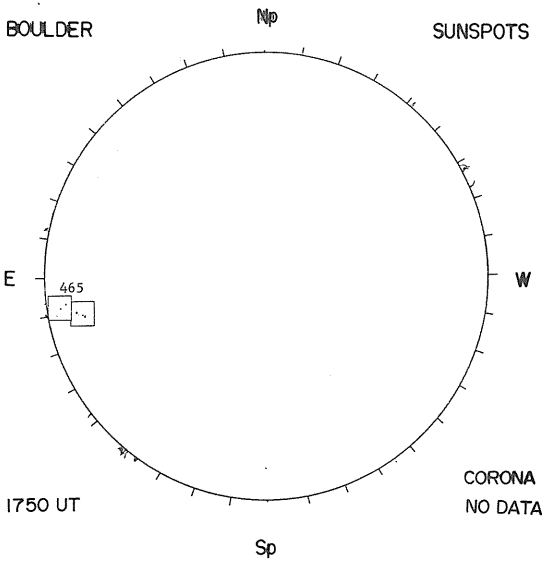
MAGNETOGRAM
Solid - Plus
Dotted - Minus

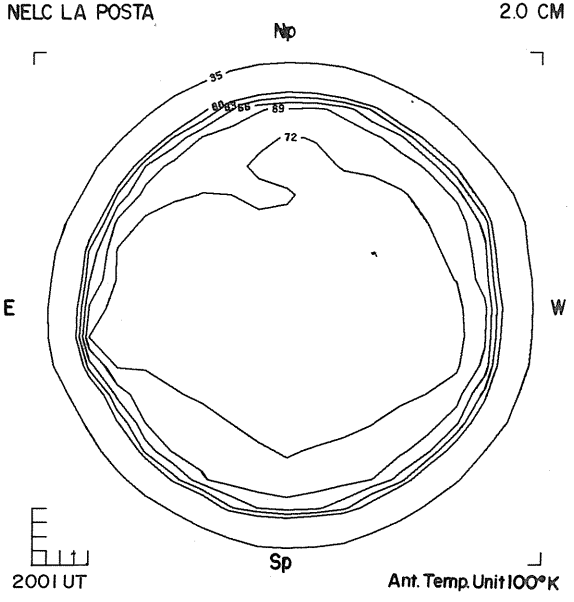


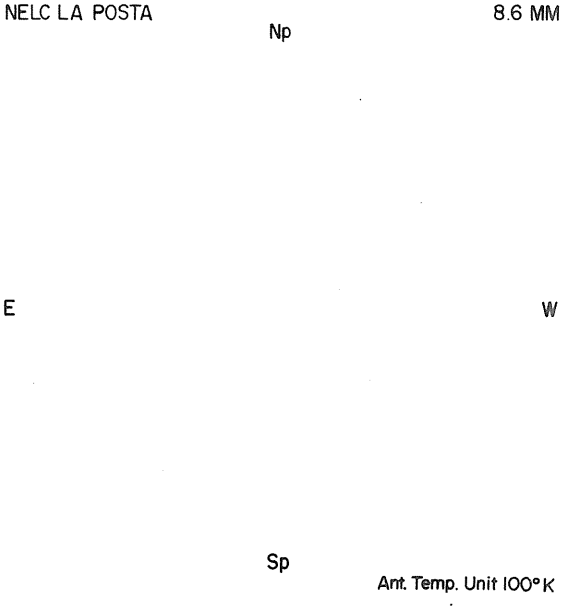
Levels
± 5
± 10
± 20
± 40
± 80

02
RAMEY AFB


Np
Hα
E
W
1238 UT
Sp


BOULDER
Np
SUNSPOTS
E
465
W
CORONA
NO DATA
1750 UT
Sp


NELC LA POSTA
2.0 CM
Np
55
60
65
66
69
72
E
W
2001 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
E
W
Sp
Ant. Temp. Unit 100°K

FEBRUARY 3, 1975 (P = -12.78, B_o = -6.15, L_o = 211.65)

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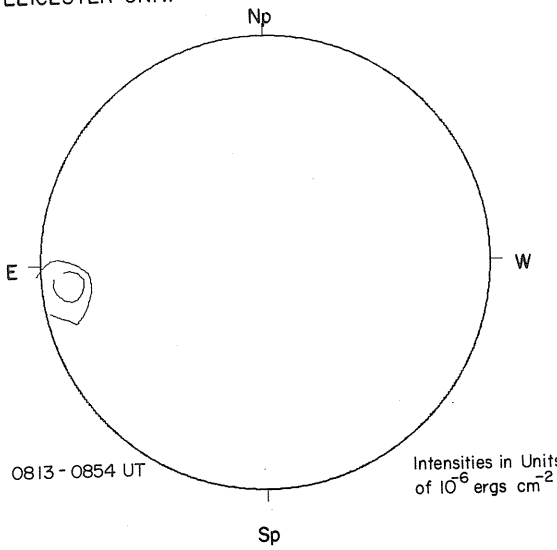
LEICESTER UNIV.

X-RAY
OSO-5

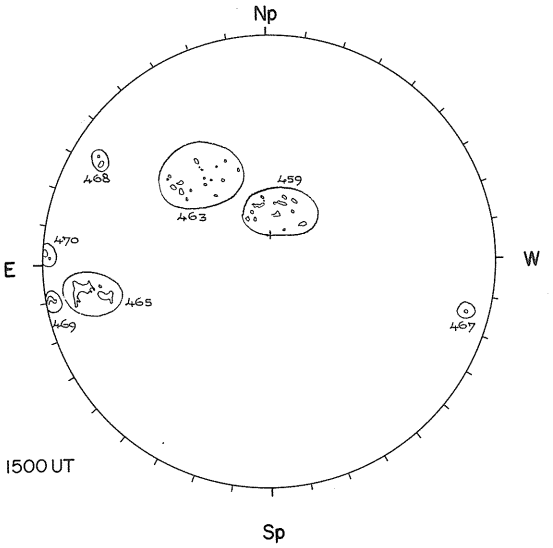


0813 - 0854 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

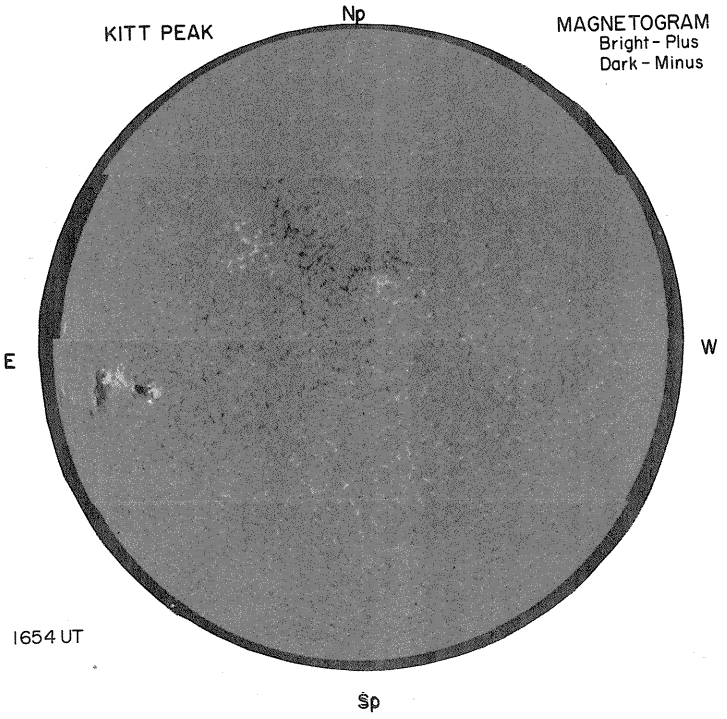


1500 UT

FAIR	S
65 - 2000	- 3.5

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

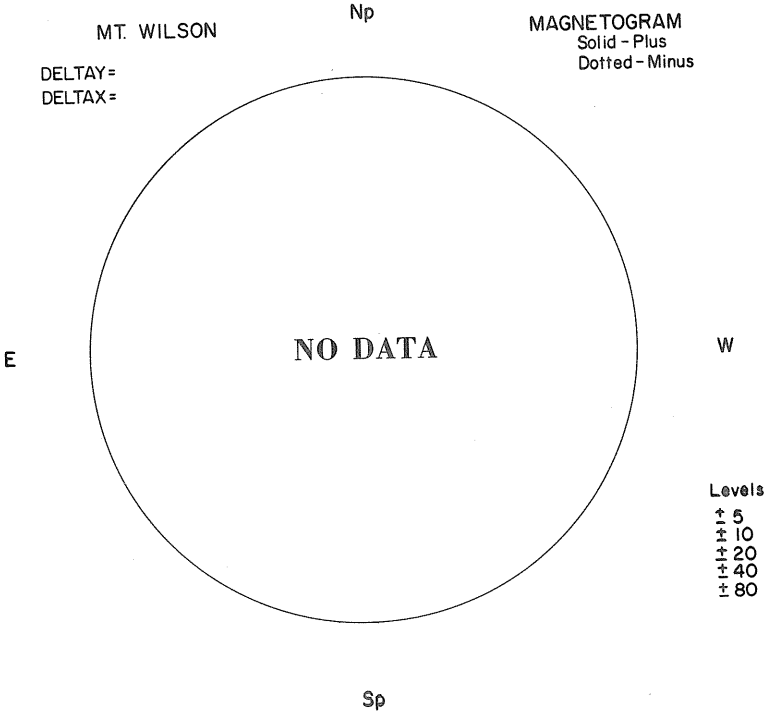


1654 UT

MT. WILSON

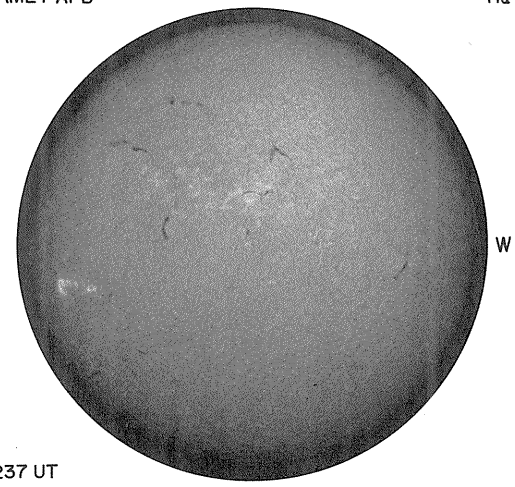
DELTAY =
DELTAX =

MAGNETOGRAM
Solid - Plus
Dotted - Minus

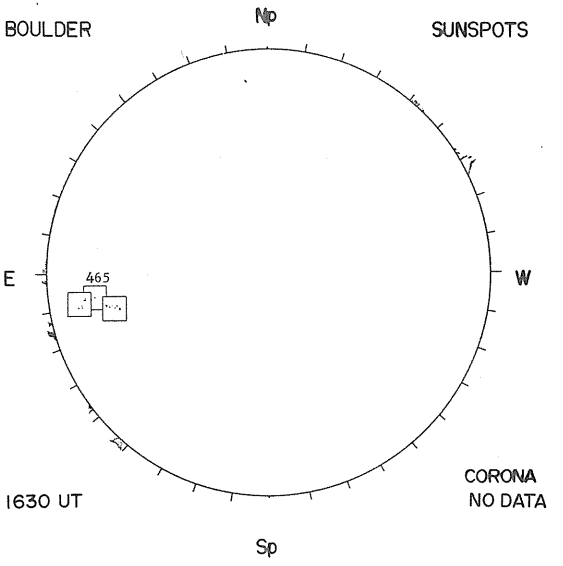


Levels
± 5
± 10
± 20
± 40
± 80

03
RAMEY AFB



BOULDER



NELC LA POSTA

Np

2.0 CM

NO DATA

E

CLOUDY

W

2243 UT

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

Sp

Ant. Temp. Unit 100°K

FEBRUARY 4, 1975 (P = -13.18, B_o = -6.22, L_o = 198.48)

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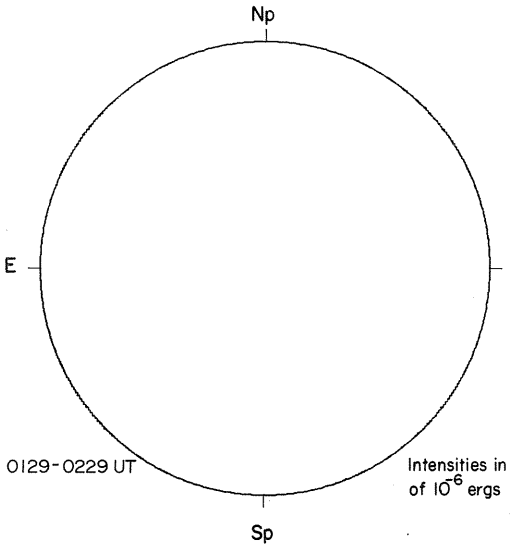
LEICESTER UNIV.

X-RAY
OSO-5

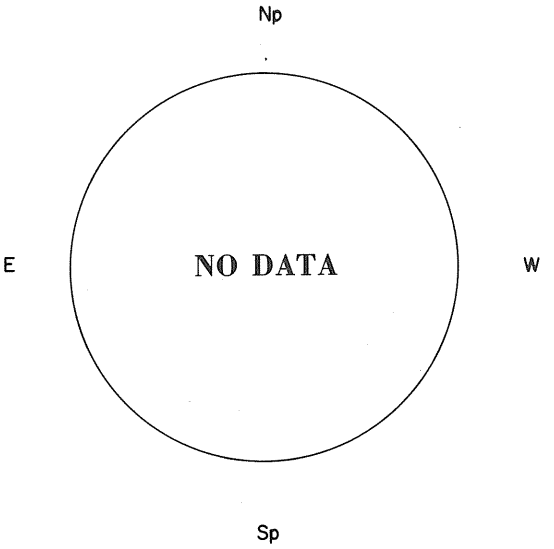


0129-0229 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

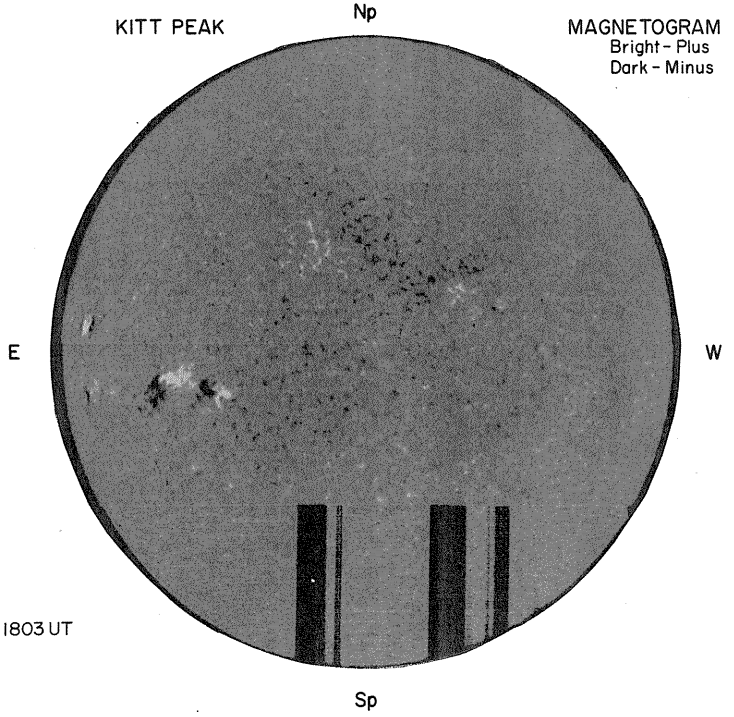
McMATH-HULBERT

CALCIUM REPORT



KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

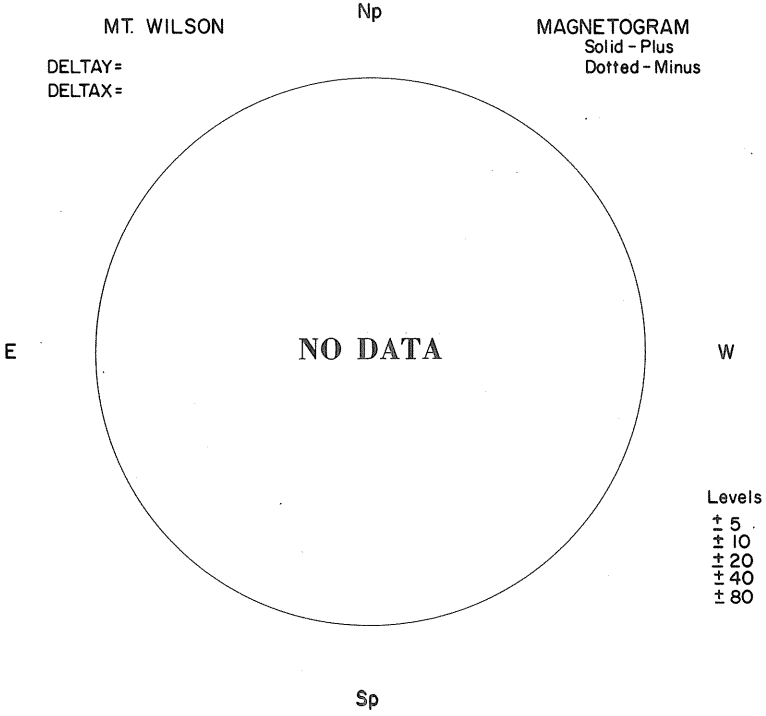


1803 UT

MT. WILSON

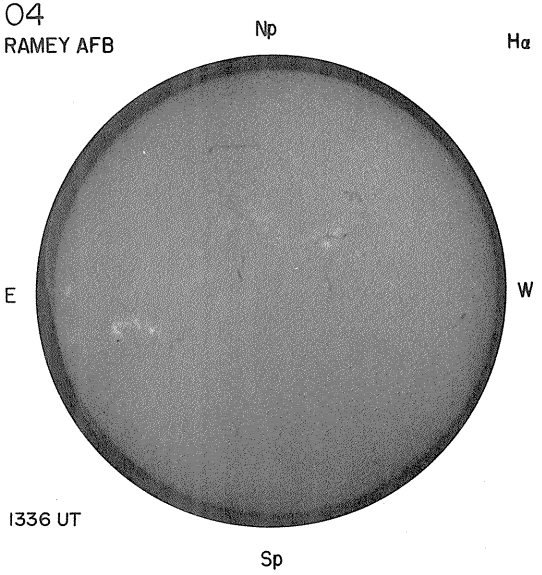
DELTAY=
DELTAX=

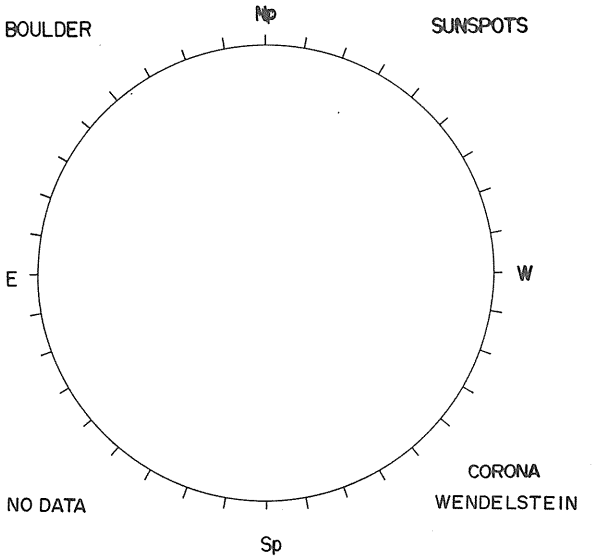
MAGNETOGRAM
Solid - Plus
Dotted - Minus

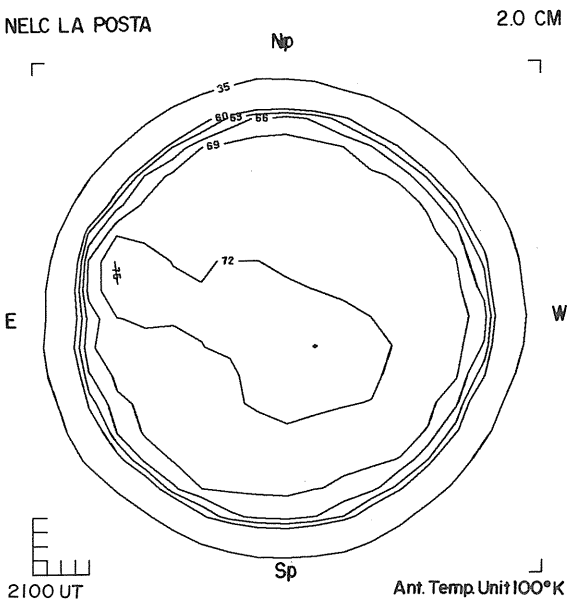


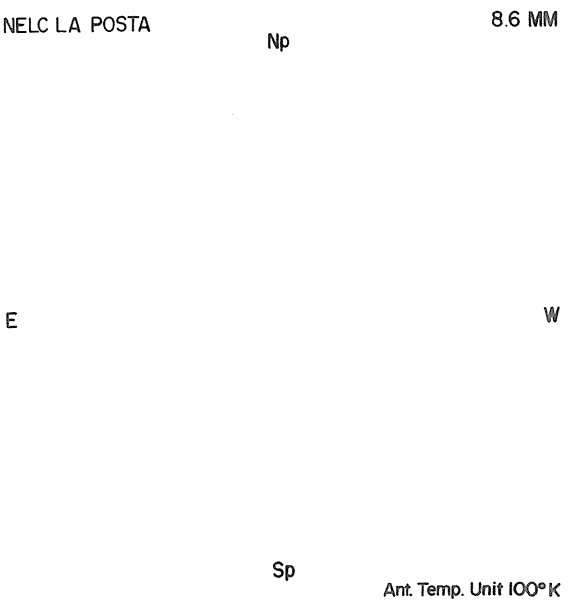
Levels
± 5
± 10
± 20
± 40
± 80

04
RAMEY AFB


Np
Hα
E
W
1336 UT
Sp


BOULDER
Np
SUNSPOTS
E
W
CORONA
WENDELSTEIN
NO DATA
Sp


NELC LA POSTA
2.0 CM
Np
35
60
63
66
69
72
E
W
Sp
2100 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
E
W
Sp
Ant. Temp. Unit 100°K

FEBRUARY 5, 1975 (P = -13.57, B_o = -6.28, L_o = 185.32)

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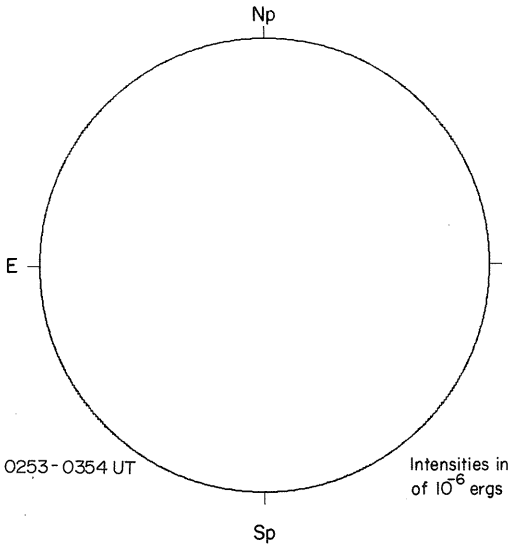
X-RAY
OSO-5

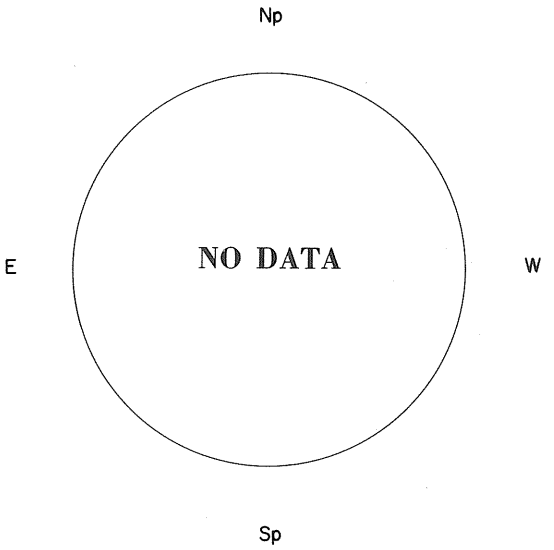


0253 - 0354 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

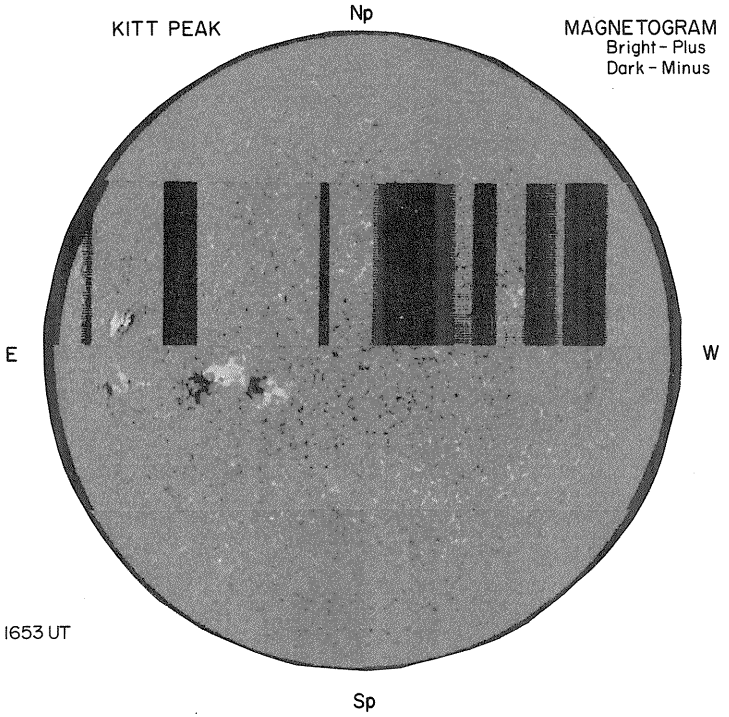
McMATH-HULBERT

CALCIUM REPORT



KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

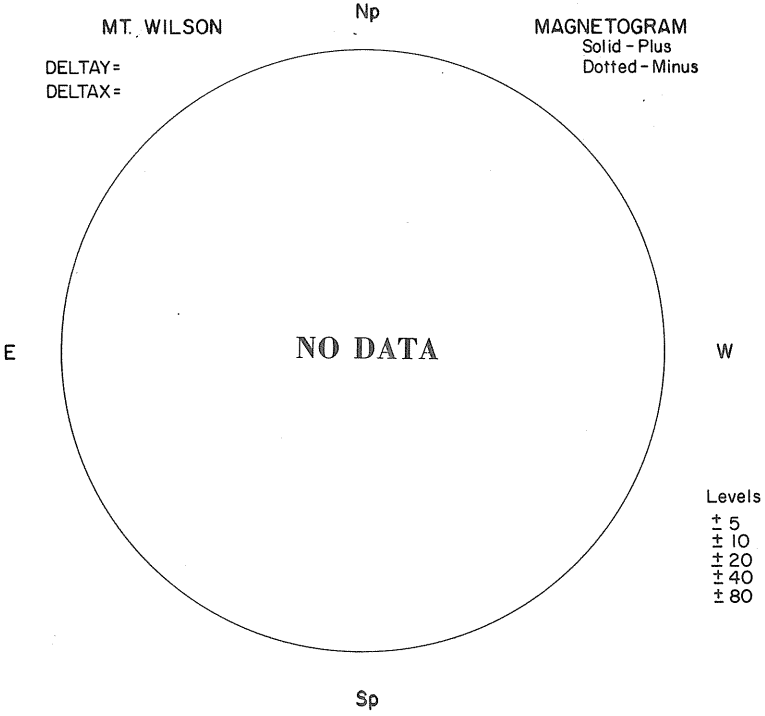


1653 UT

MT. WILSON

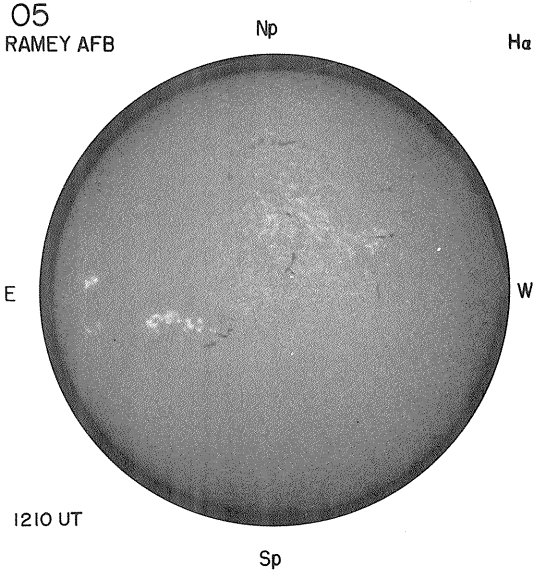
DELTAY =
DELTAX =

MAGNETOGRAM
Solid - Plus
Dotted - Minus

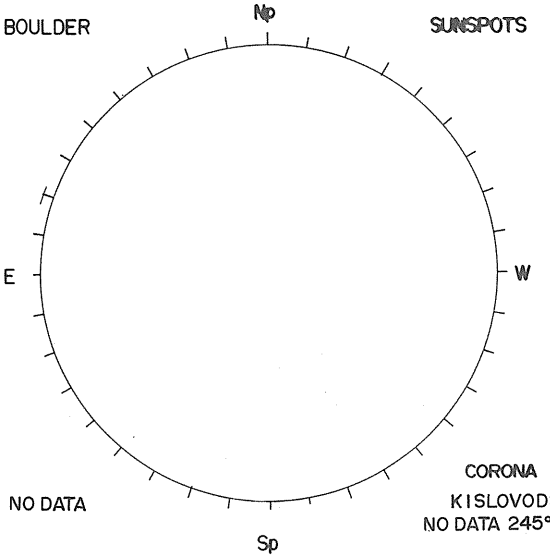


Levels
± 5
± 10
± 20
± 40
± 80

05
RAMEY AFB



BOULDER

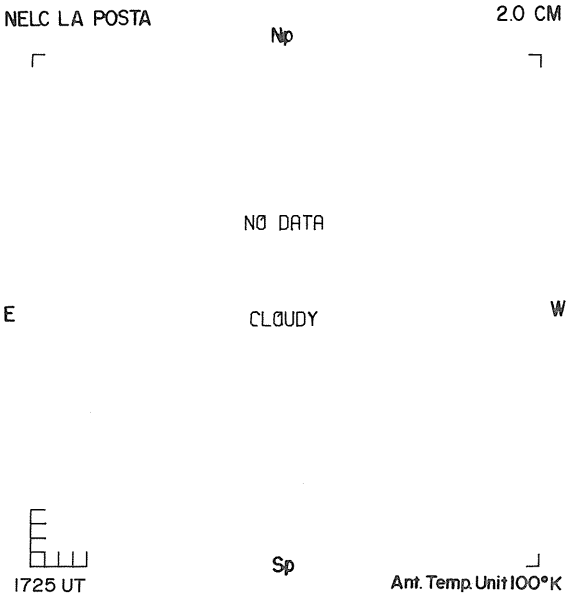


SUNSPOTS

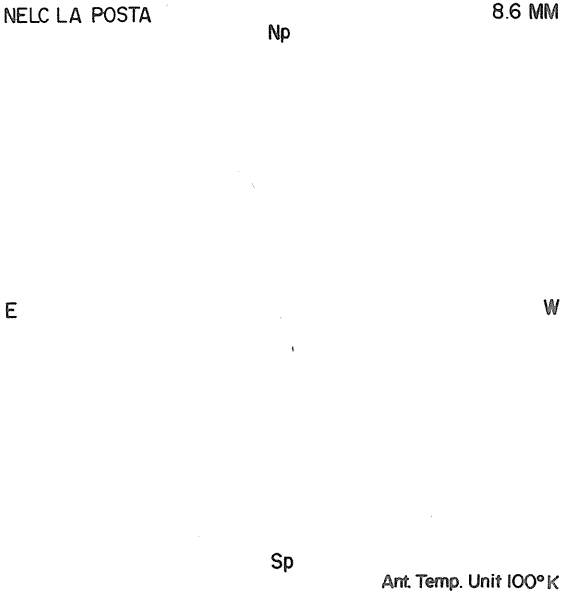
CORONA
KISLOVODSK
NO DATA 245°- 255°

NO DATA

NELC LA POSTA



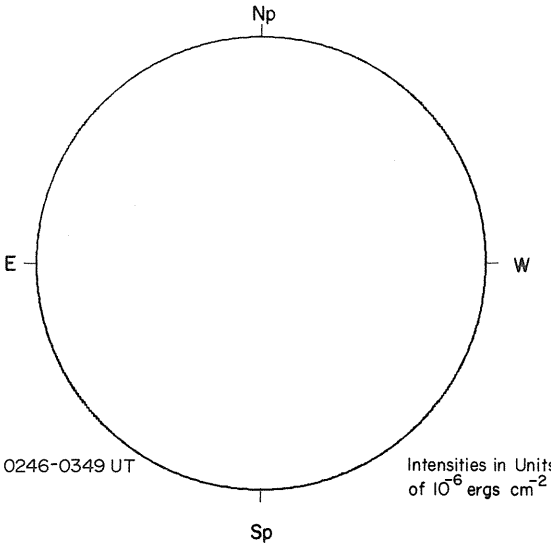
NELC LA POSTA



FEBRUARY 6, 1975 (P=-13.96, B_o=-6.35, L_o=172.15)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

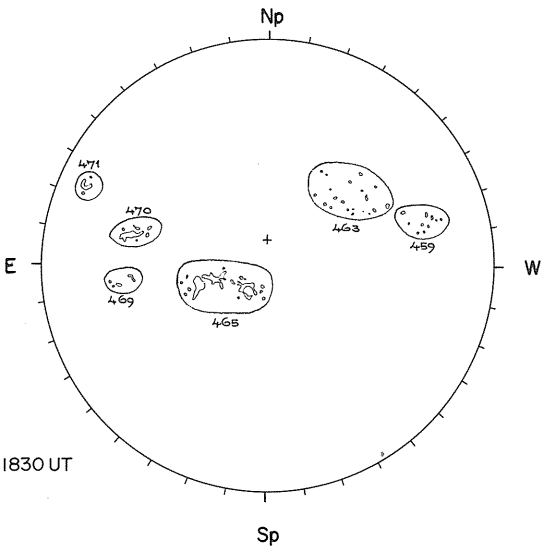


0246-0349 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

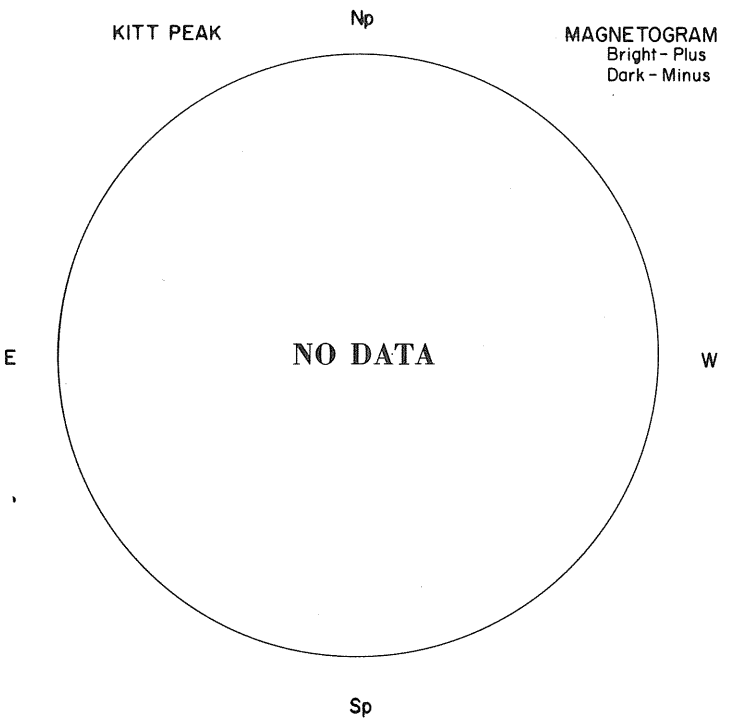


1830 UT

POOR	S
65 - 1700	-2.5
70 - 0600	-3.0

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

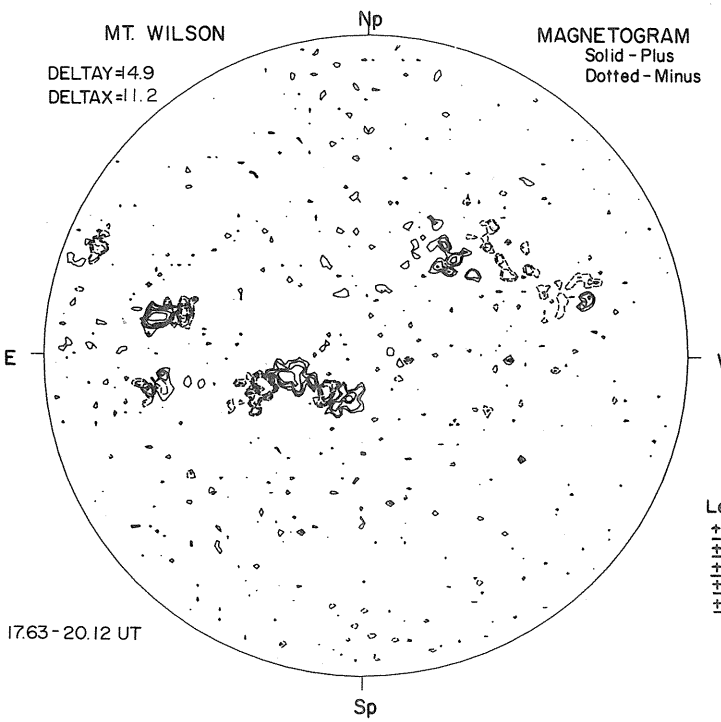


NO DATA

MT. WILSON

DELTAY=14.9
DELTAX=11.2

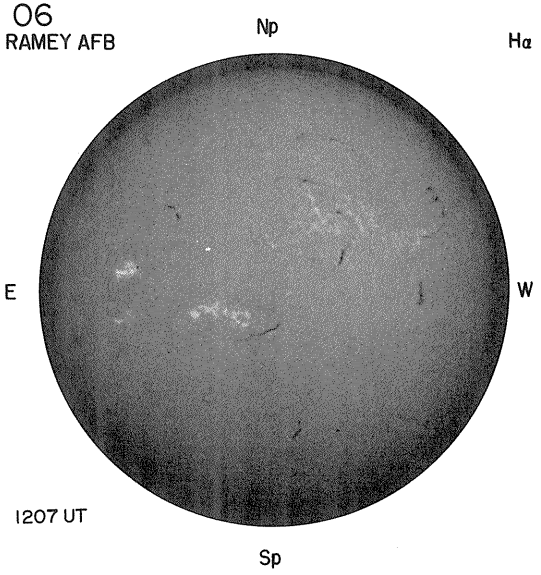
MAGNETOGRAM
Solid - Plus
Dotted - Minus

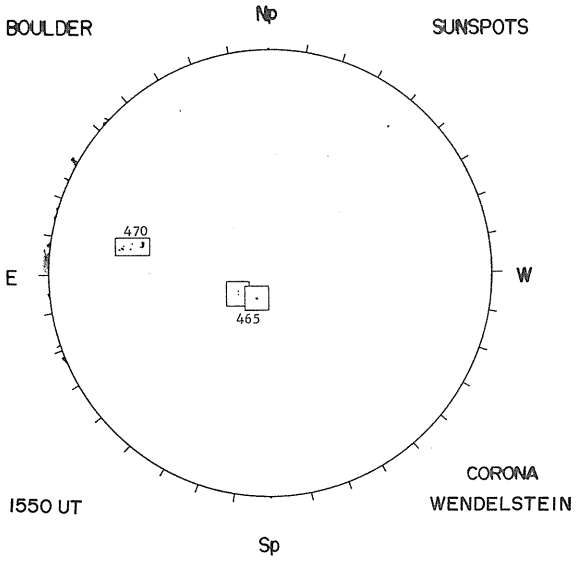


17.63 - 20.12 UT

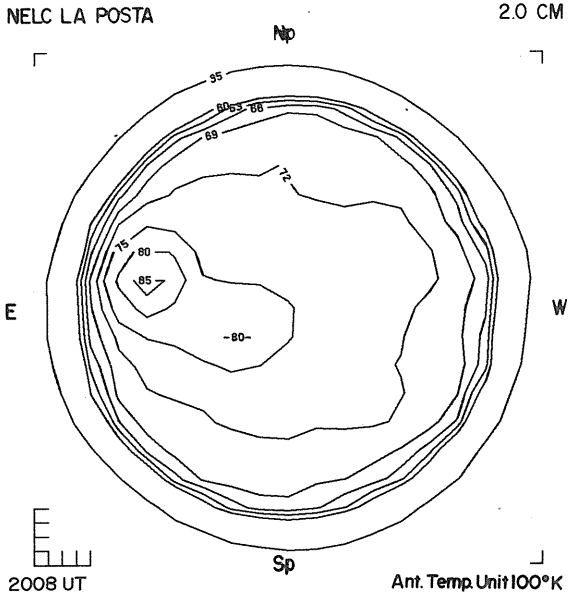
Levels
± 5
± 10
± 20
± 40
± 80

06
RAMEY AFB

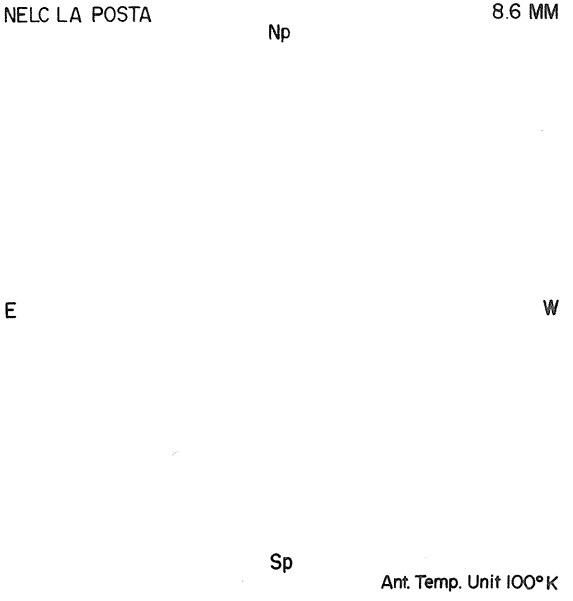




NELC LA POSTA



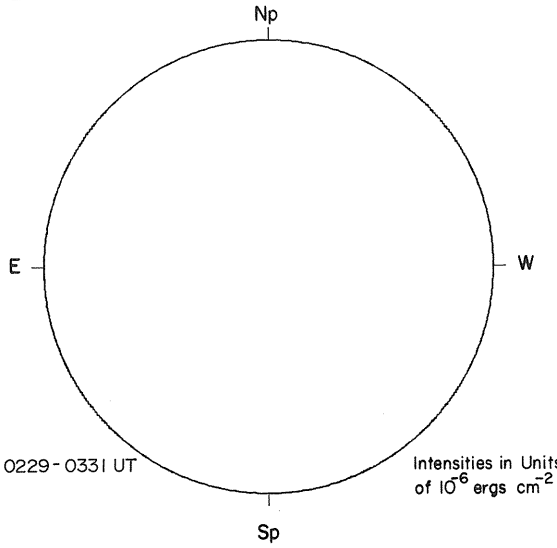
NELC LA POSTA



FEBRUARY 7, 1975 (P = -14.35, B_o = -6.41, L_o = 158.98)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

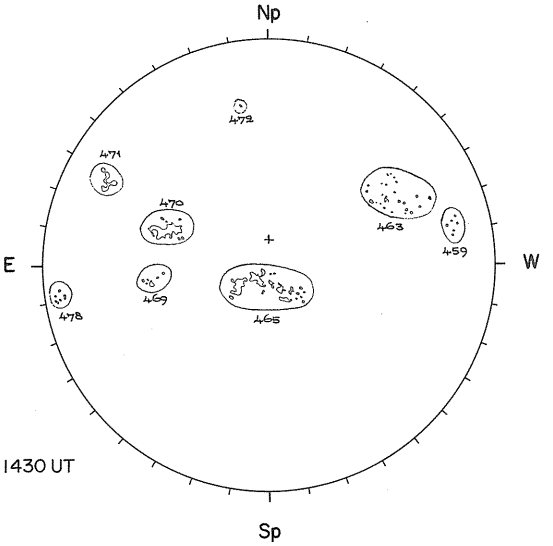


0229 - 0331 UT

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

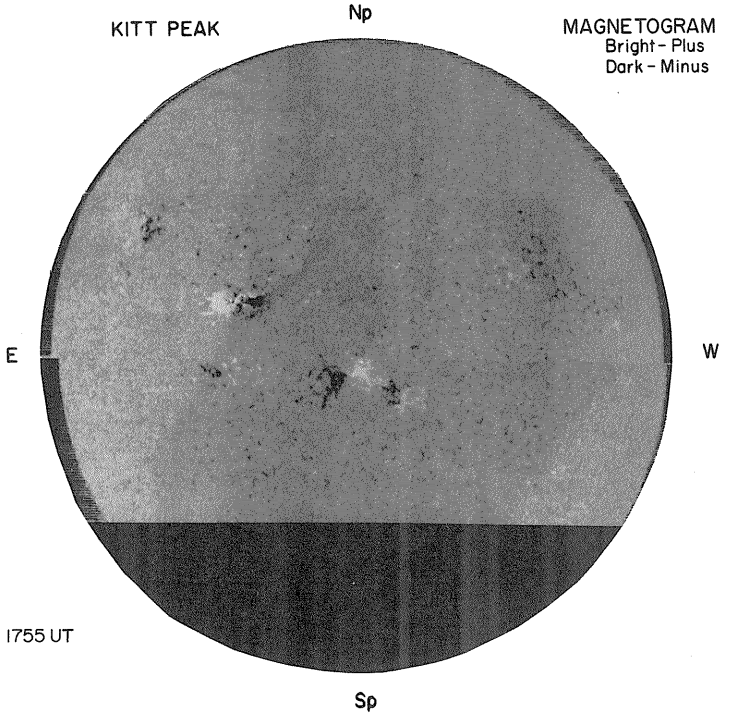


1430 UT

POOR	M
65 - 1300 - 2.5	
70 - 1100 - 3.5	

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

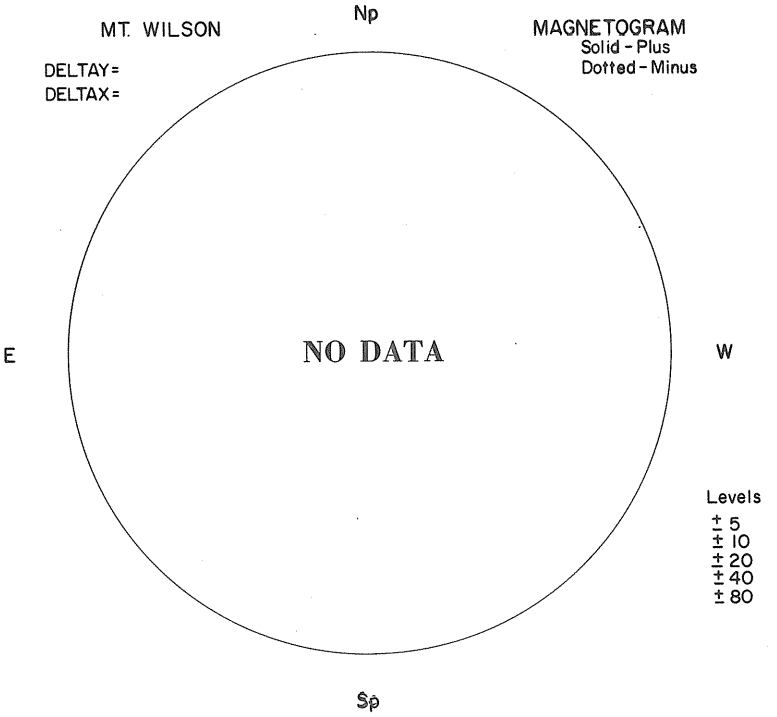


1755 UT

MT. WILSON

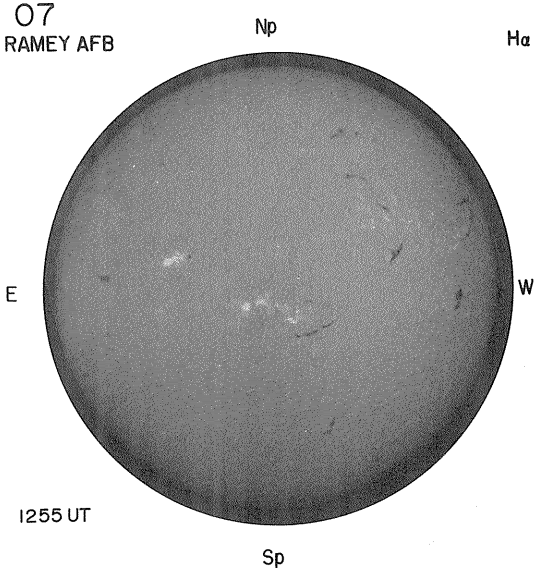
DELTAY=
DELTAX=

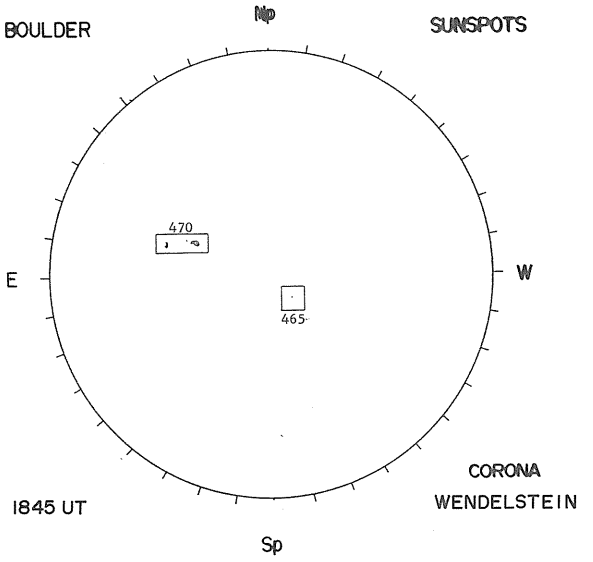
MAGNETOGRAM
Solid - Plus
Dotted - Minus

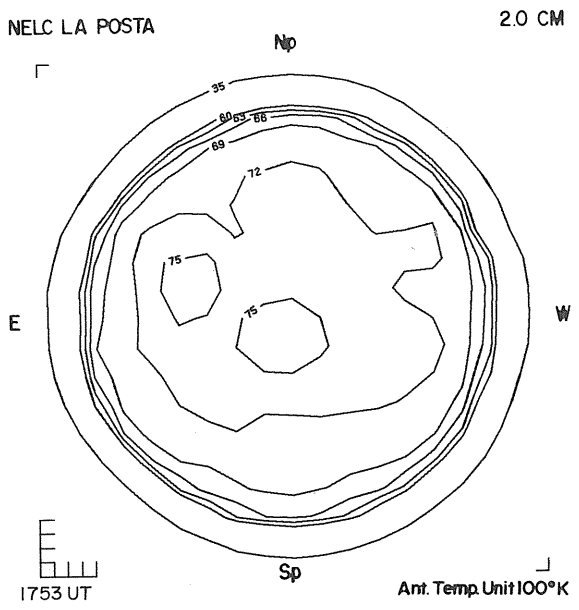


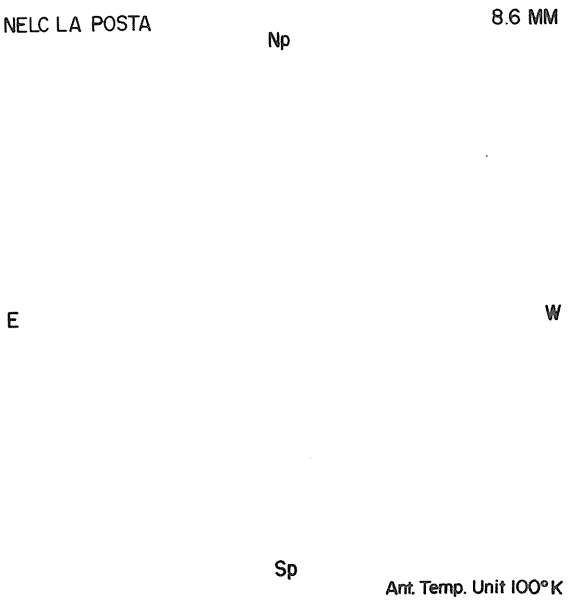
Levels
± 5
± 10
± 20
± 40
± 80

07
RAMEY AFB


Np
Hα
E
W
1255 UT
Sp


BOULDER
Np
SUNSPOTS
470
E
W
465
CORONA
WENDELSTEIN
1845 UT
Sp


NELC LA POSTA
2.0 CM
Np
35
60
63
66
69
72
75
75
E
W
1753 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
E
W
Sp
Ant. Temp. Unit 100°K

FEBRUARY 8, 1975 (P = -14.73, B_o = -6.47, L_o = 145.82)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT

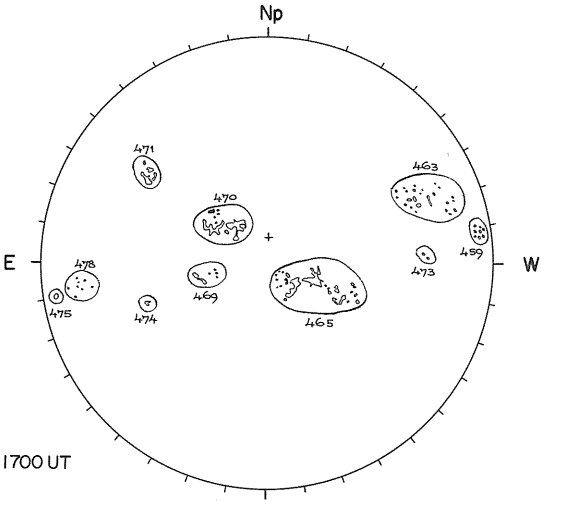
Np

E

Note: Computer down. Data not available for February 8 - 28, 1975.
See Miscellaneous Section of this issue for January 1975 maps.

W

Sp



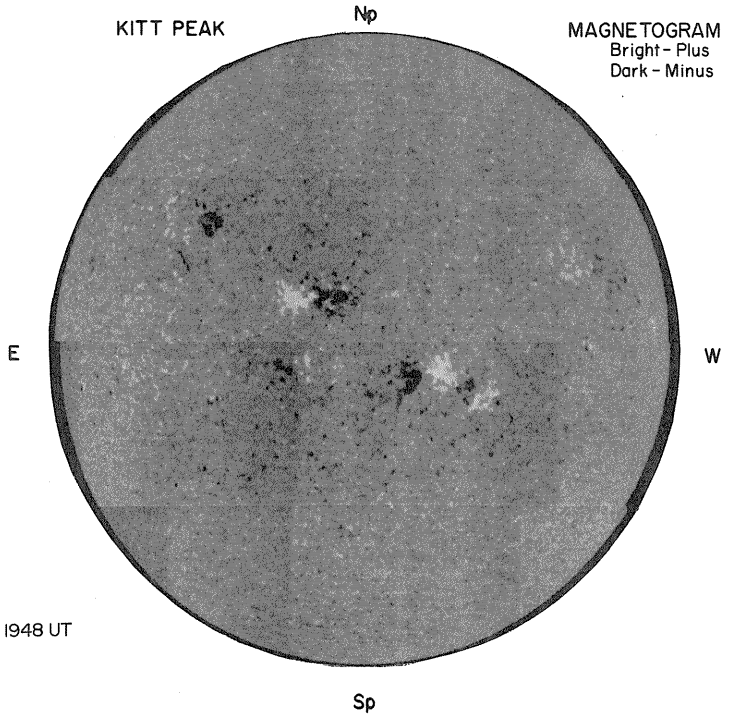
FAIR	M
65 - 1200 - 2.5	
70 - 0900 - 3.0	
75 - 0200 - 2.5	

1700 UT

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

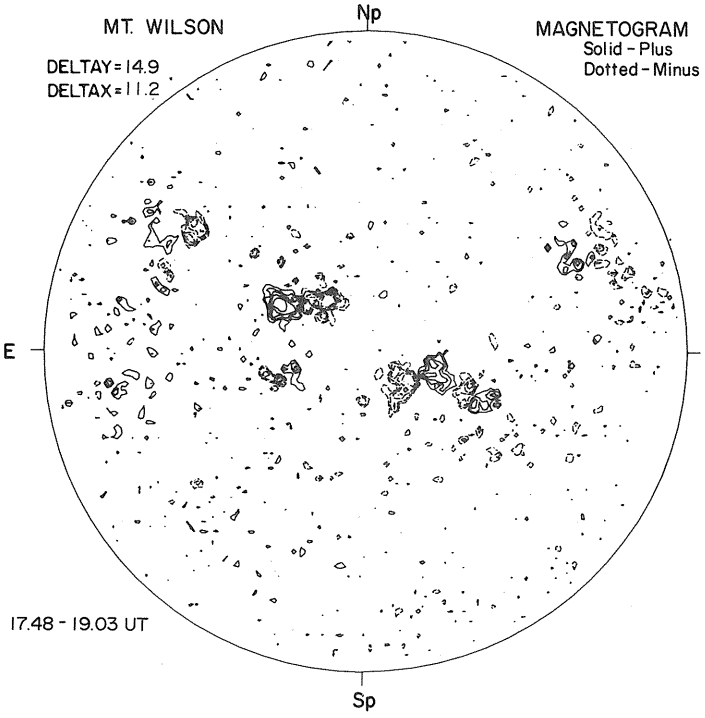


1948 UT

MT. WILSON

DELTAY = 14.9
DELTAX = 11.2

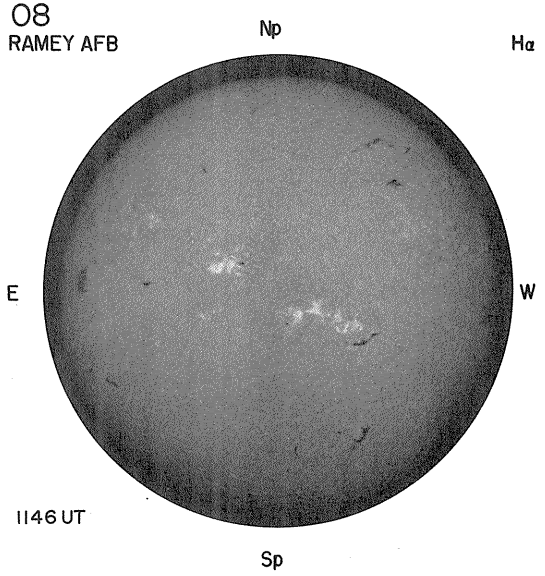
MAGNETOGRAM
Solid - Plus
Dotted - Minus

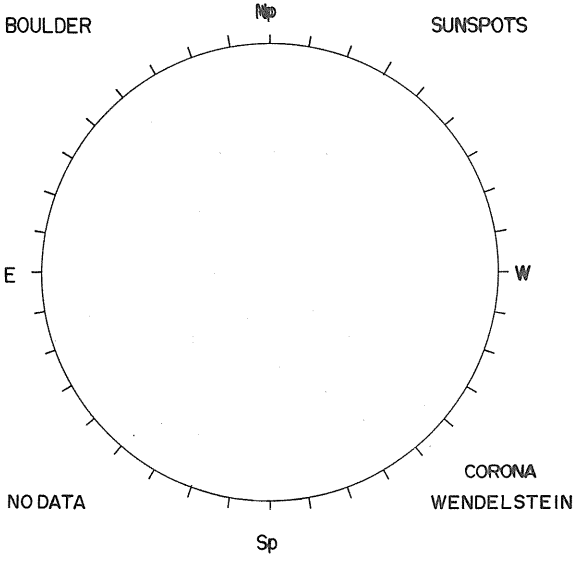


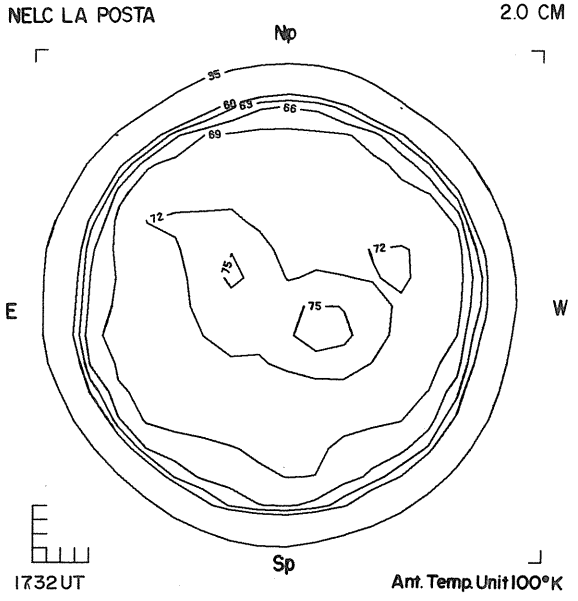
Levels
± 5
± 10
± 20
± 40
± 80

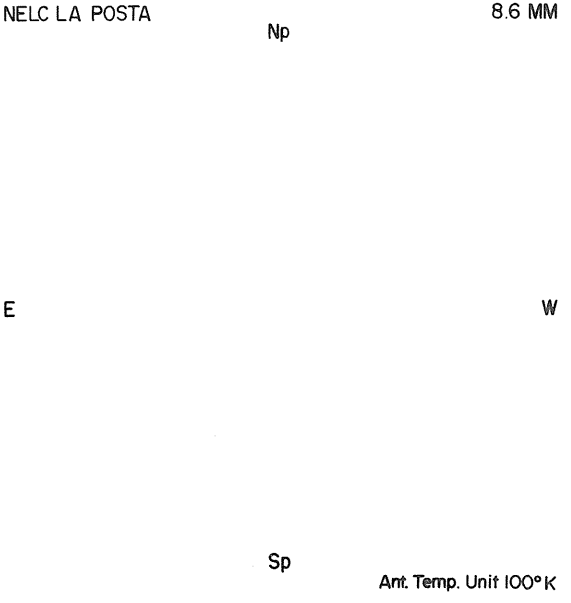
17.48 - 19.03 UT

08
RAMEY AFB


Np
Hα
E
W
1146 UT
Sp


BOULDER
Np
SUNSPOTS
E
W
CORONA
NO DATA
WENDELSTEIN
Sp


NELC LA POSTA
2.0 CM
Np
95
90
89
66
72
75
E
W
Sp
1732 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
E
W
Sp
Ant. Temp. Unit 100°K

FEBRUARY 9, 1975 (P = -15.10, B_o = -6.52, L_o = 132.65)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

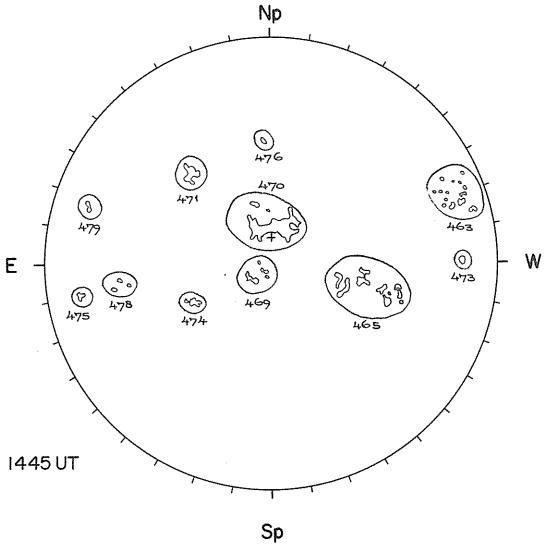
E W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

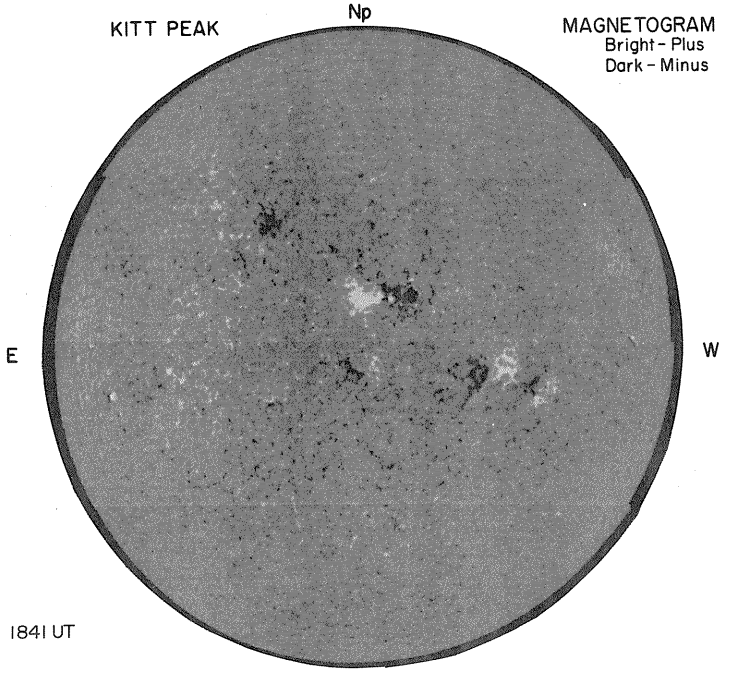


FAIR	D
65 - 1200	- 2.5
70 - 1500	- 3.0
71 - 0500	- 2.5
75 - 0200	- 2.5

1445 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

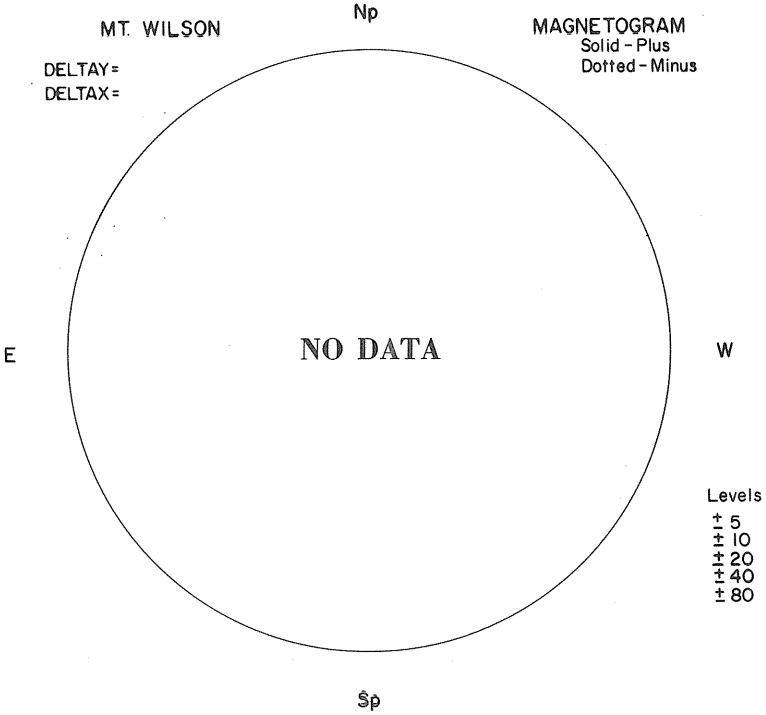


1841 UT

MT. WILSON

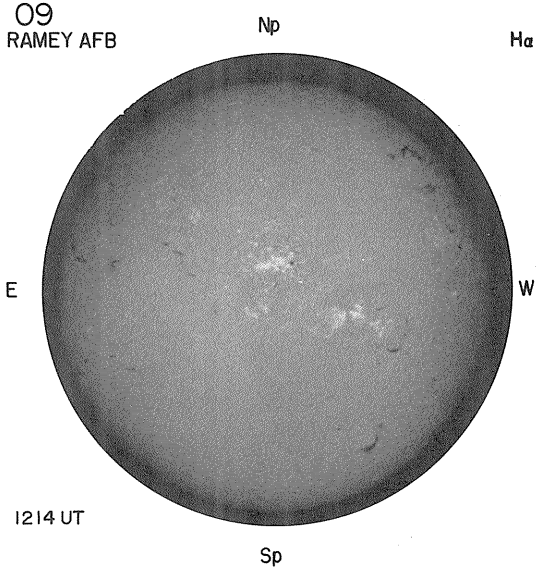
DELTAY =
DELTAX =

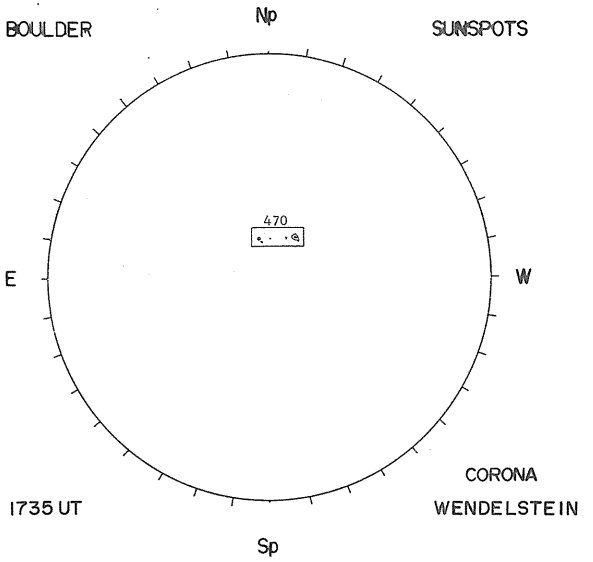
MAGNETOGRAM
Solid - Plus
Dotted - Minus



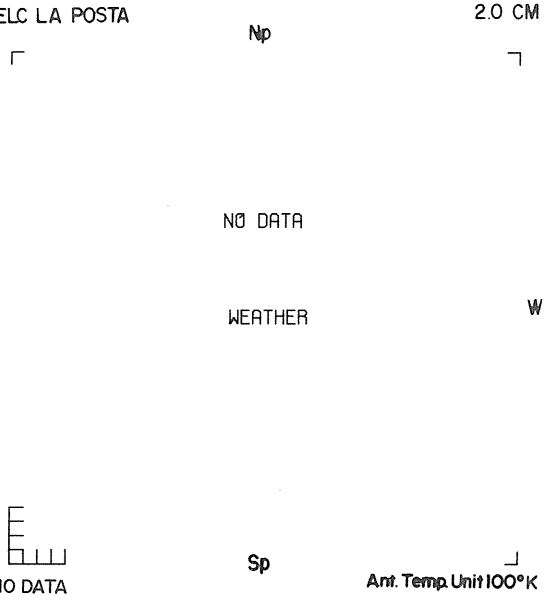
Levels
± 5
± 10
± 20
± 40
± 80

09
RAMEY AFB

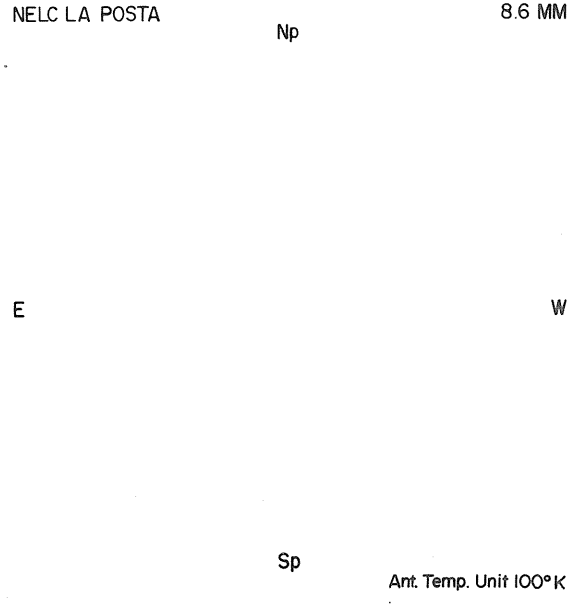




NELC LA POSTA



NELC LA POSTA



FEBRUARY 10, 1975 (P = -15.47, B_o = -6.58, L_o = 119.48)

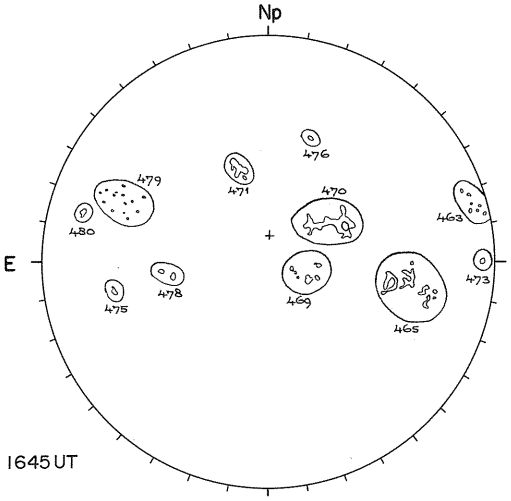
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

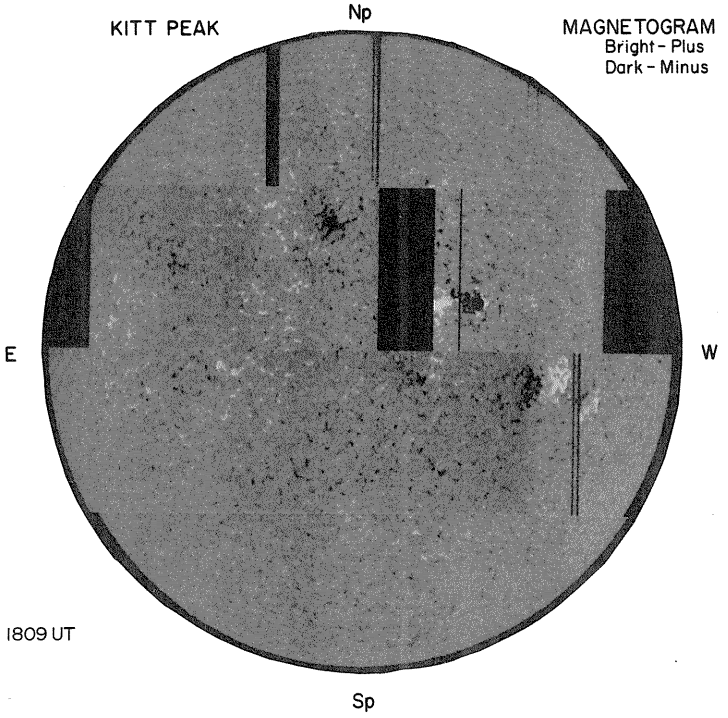


1645 UT

CALCIUM REPORT

FAIR	S
65 - 1300	- 2.5
70 - 1600	- 3.0
71 - 0500	- 2.5

KITT PEAK

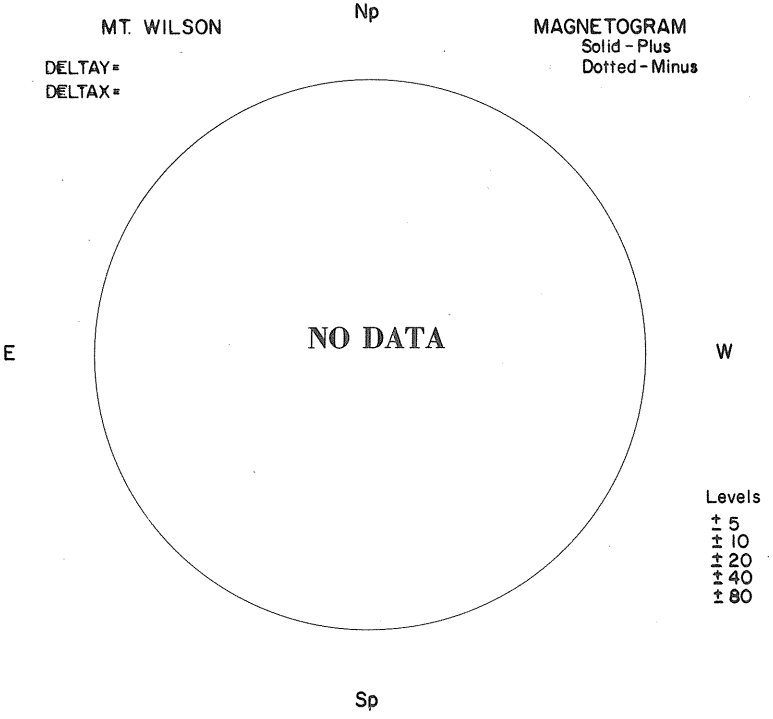


MAGNETOGRAM
Bright - Plus
Dark - Minus

1809 UT

MT. WILSON

DELTAY =
DELTAX =

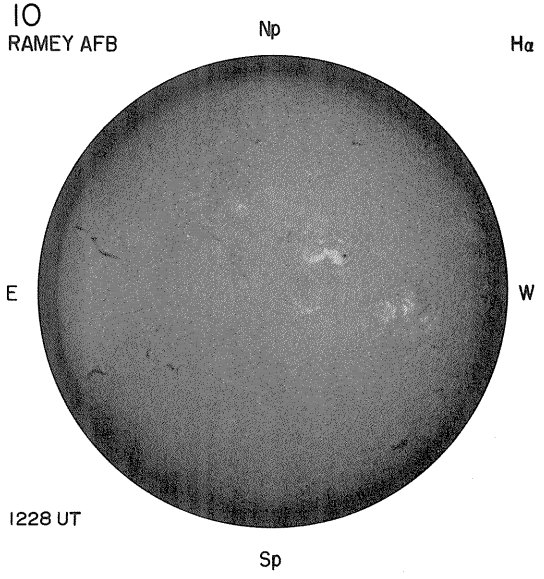


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

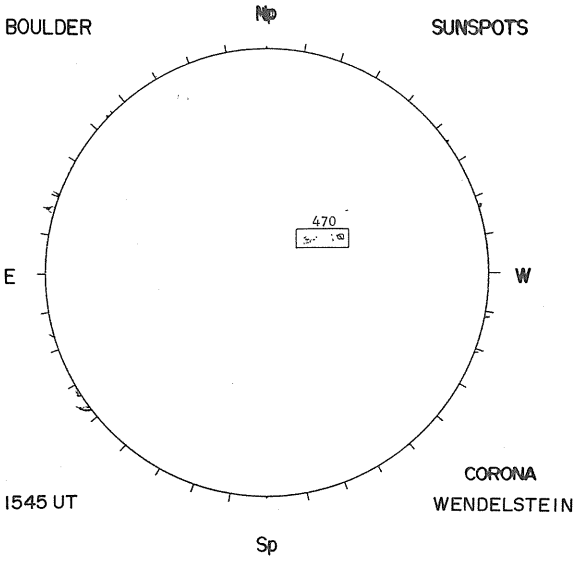
10

RAMEY AFB



1228 UT

BOULDER

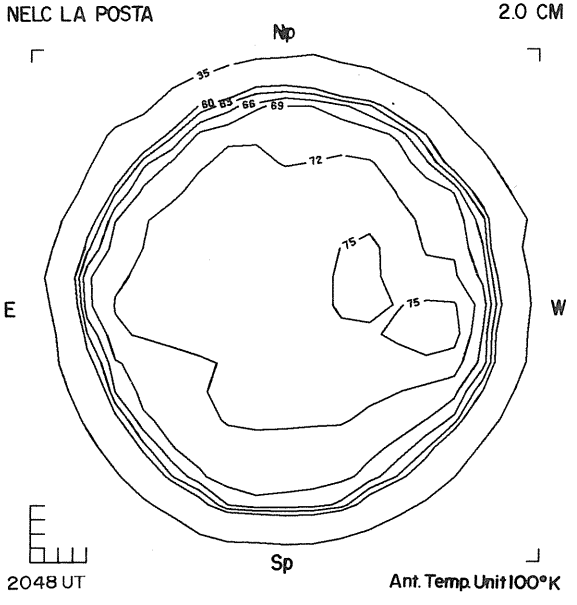


CORONA
WENDELSTEIN

1545 UT

NELC LA POSTA

2.0 CM

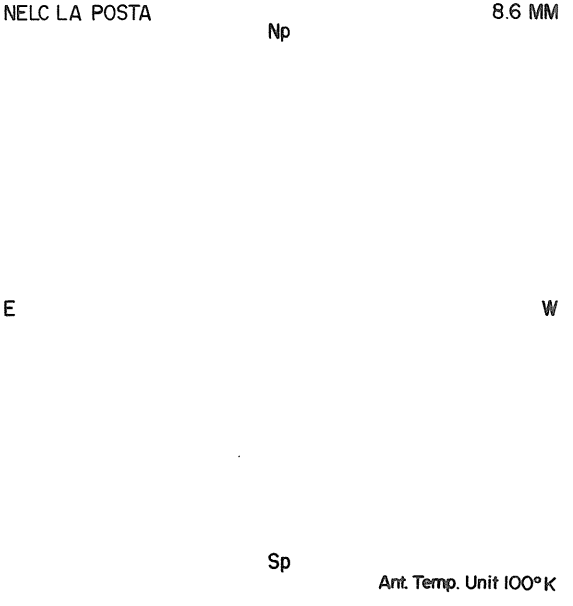


2048 UT

Ant. Temp. Unit 100°K

NELC LA POSTA

8.6 MM



Ant. Temp. Unit 100°K

FEBRUARY 11, 1975 (P=- 15.84, B_o=-6.63, L_o = 106.32)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

E

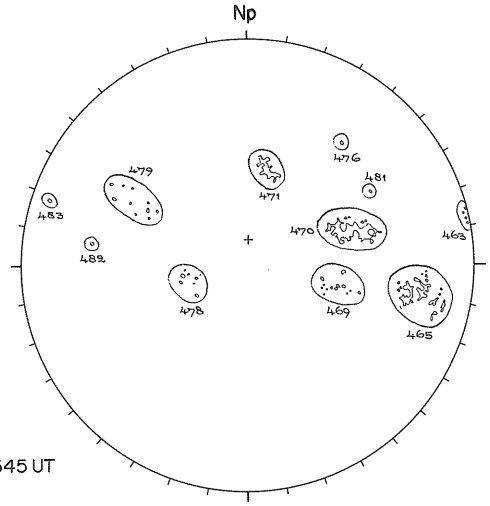
W

Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

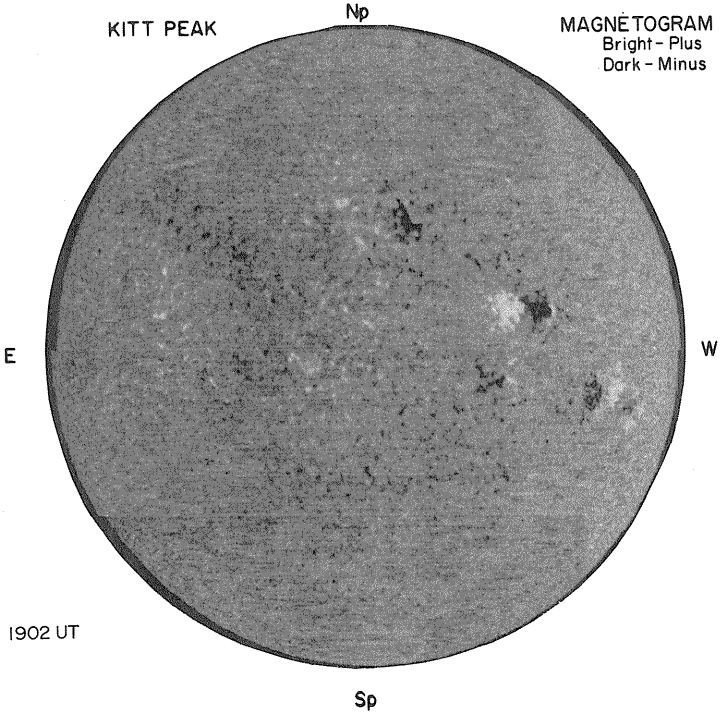
CALCIUM REPORT



FAIR | M
70 - 1600 - 2.5

1545 UT

KITT PEAK

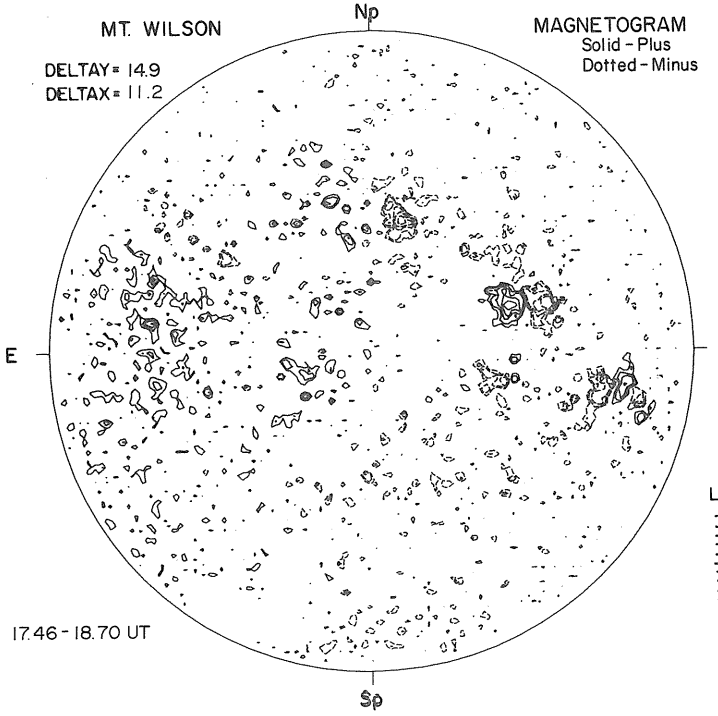


MAGNETOGRAM
Bright - Plus
Dark - Minus

1902 UT

MT. WILSON

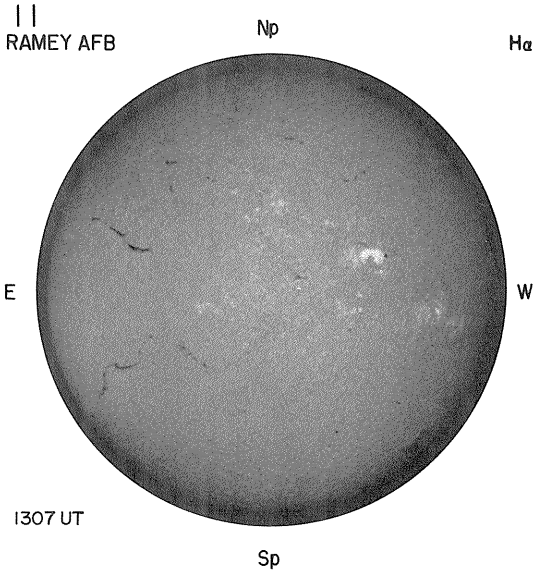
DELTAY = 14.9
DELTAX = 11.2

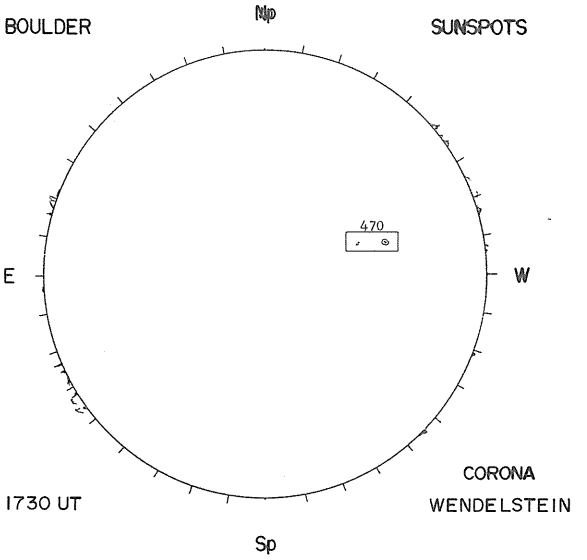


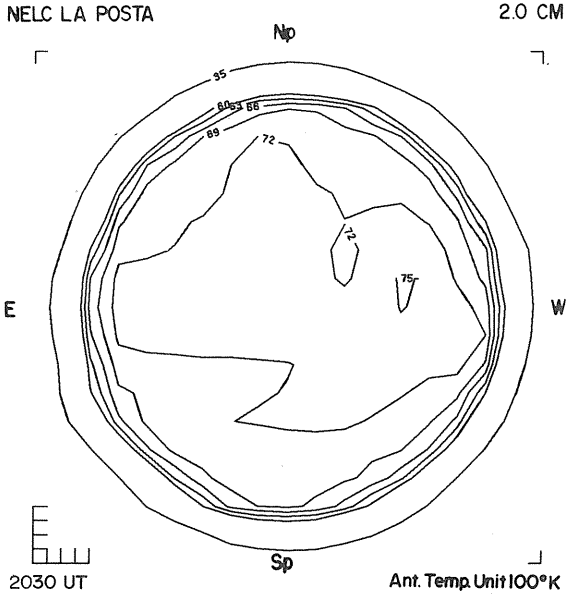
MAGNETOGRAM
Solid - Plus
Dotted - Minus

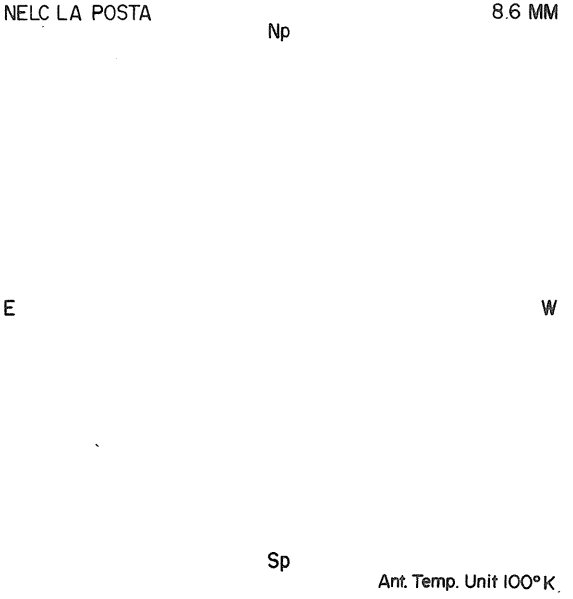
Levels
± 5
± 10
± 20
± 40
± 80

17.46 - 18.70 UT


RAMEY AFB
Np
Hα
E
W
1307 UT
Sp


BOULDER
Np
SUNSPOTS
470
E
W
CORONA
WENDELSTEIN
1730 UT
Sp


NELC LA POSTA
2.0 CM
Np
95
60
63
66
69
72
72
75
E
W
2030 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
8.6 MM
Np
E
W
Sp
Ant. Temp. Unit 100°K

FEBRUARY 12, 1975 (P=- 16.20, B_o=-6.68, L_o=93.15)

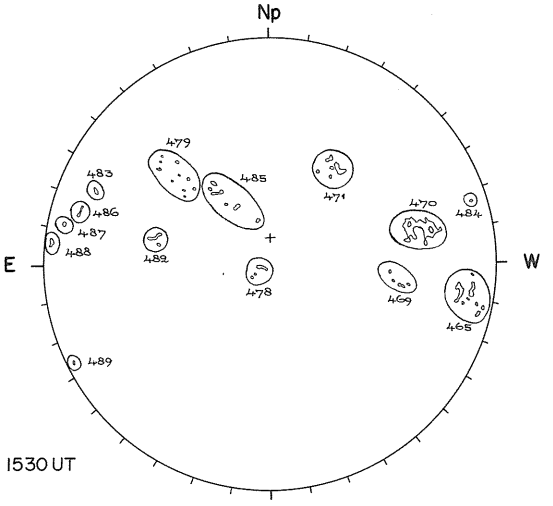
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

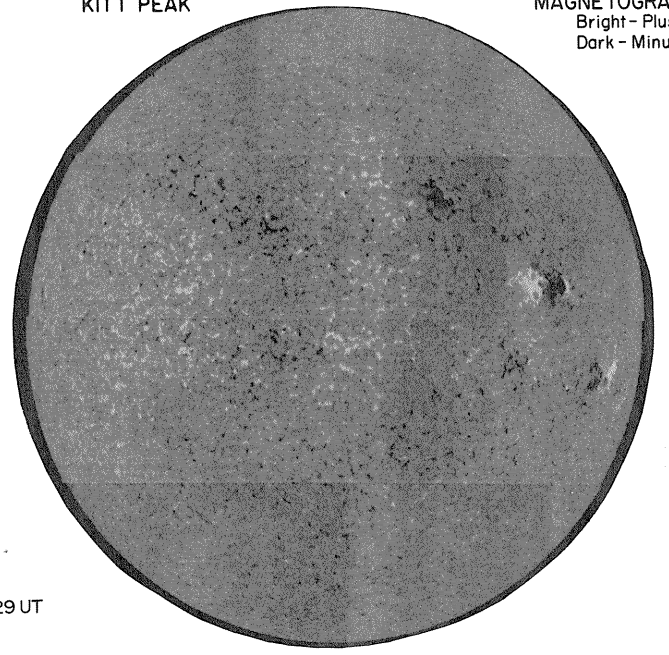


1530 UT

CALCIUM REPORT

GOOD | S
70 - 1600 - 3.0

KITT PEAK

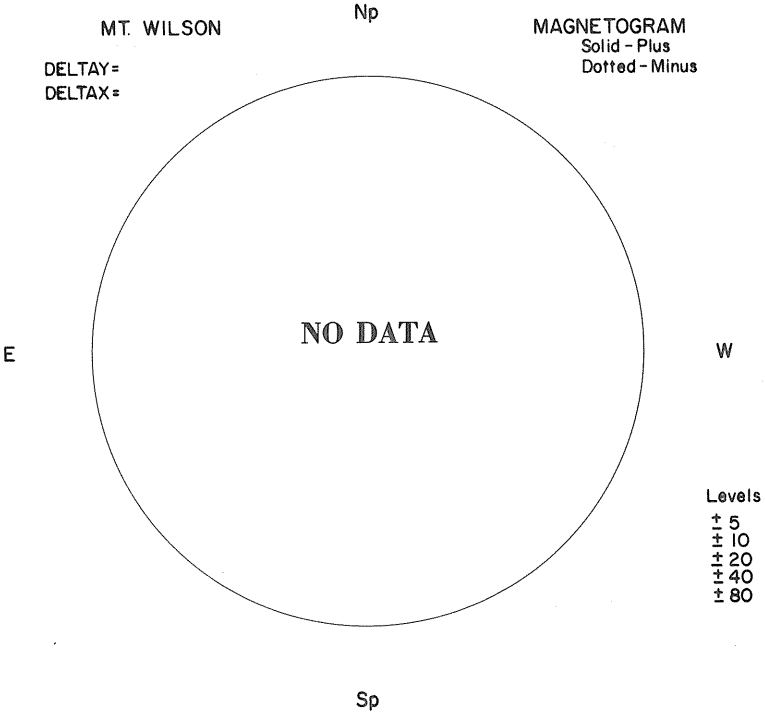


1729 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

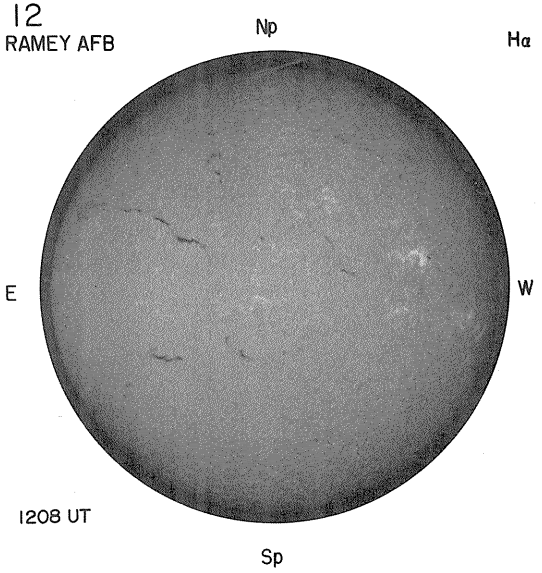
DELTAY=
DELTAX=



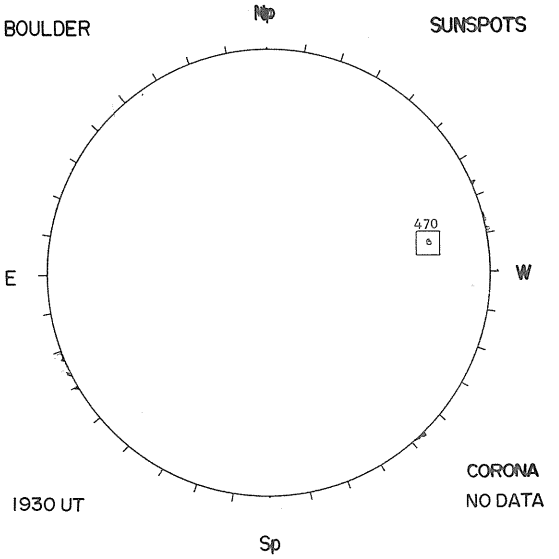
MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

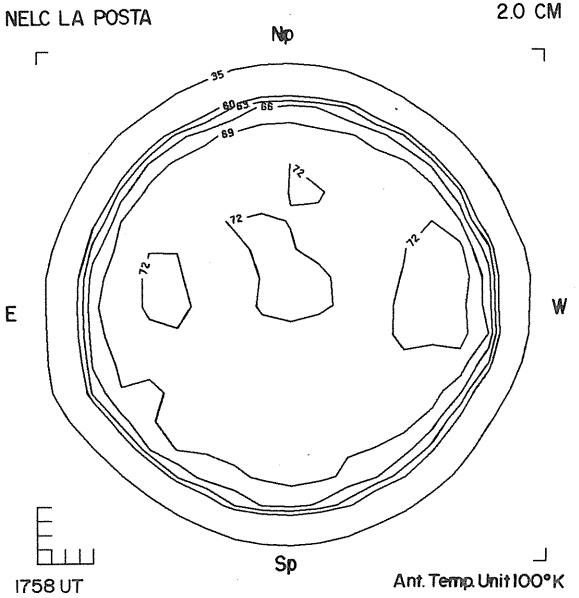
12
RAMEY AFB



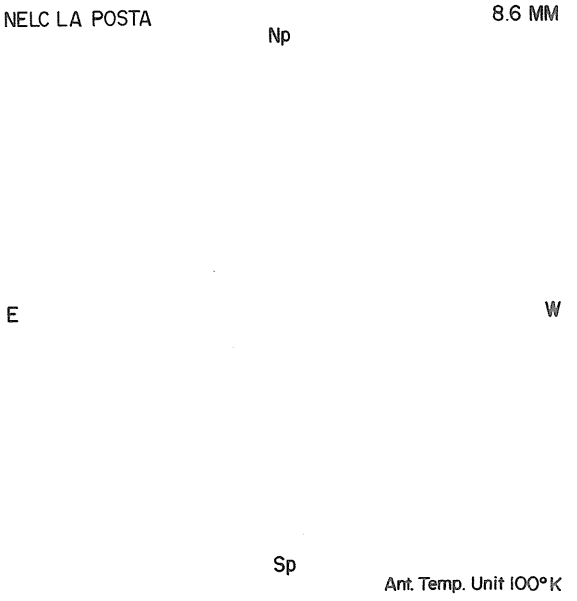
BOULDER



NELC LA POSTA



NELC LA POSTA



FEBRUARY 13, 1975 (P=-16.55, B_o=-6.73, L_o=79.98)

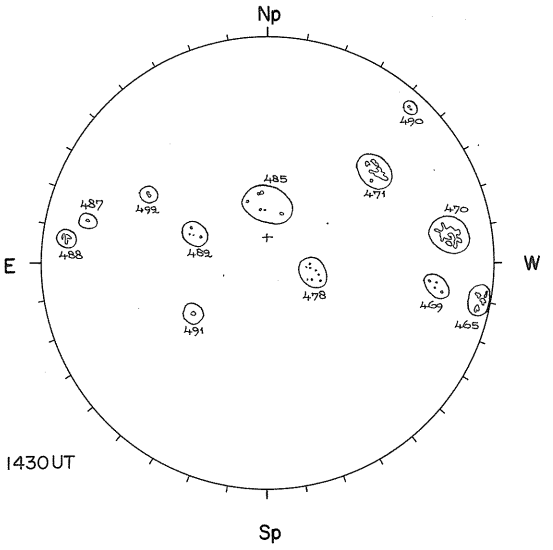
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

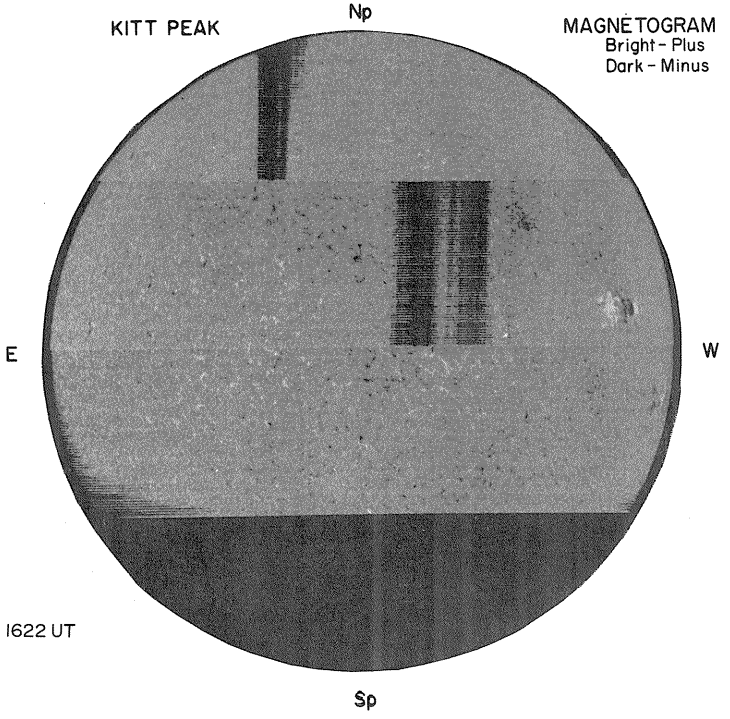


1430UT

CALCIUM REPORT

FAIR | S
70 - 1200 - 2.5

KITT PEAK

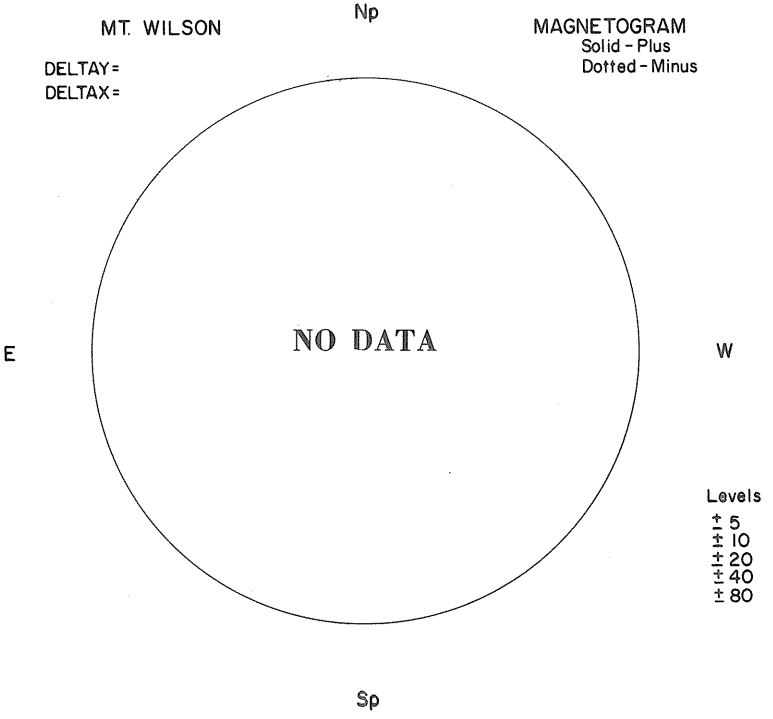


1622 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

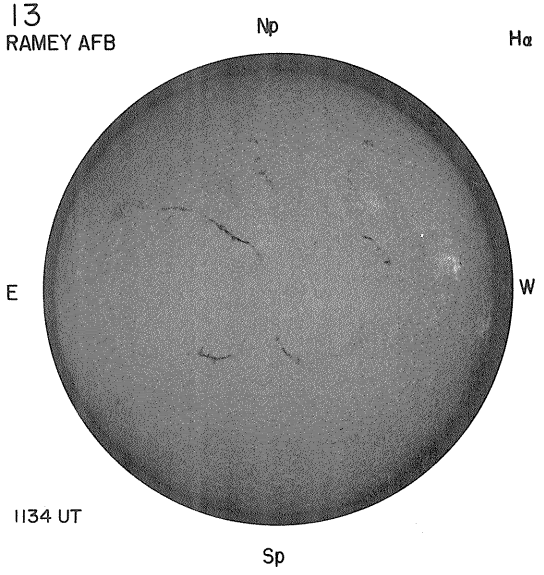
DELTAY=
DELTAX=

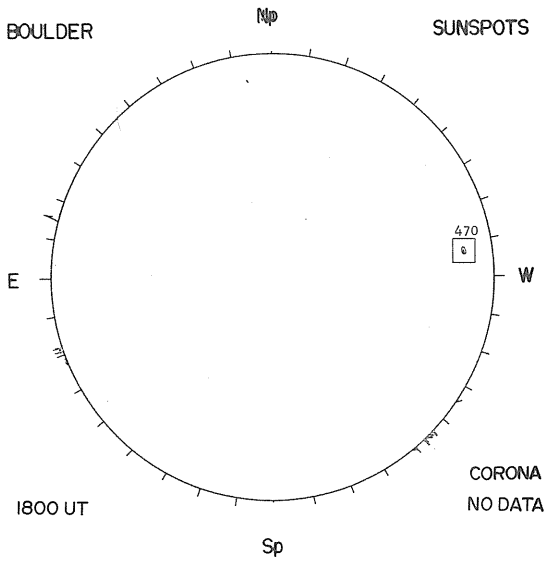


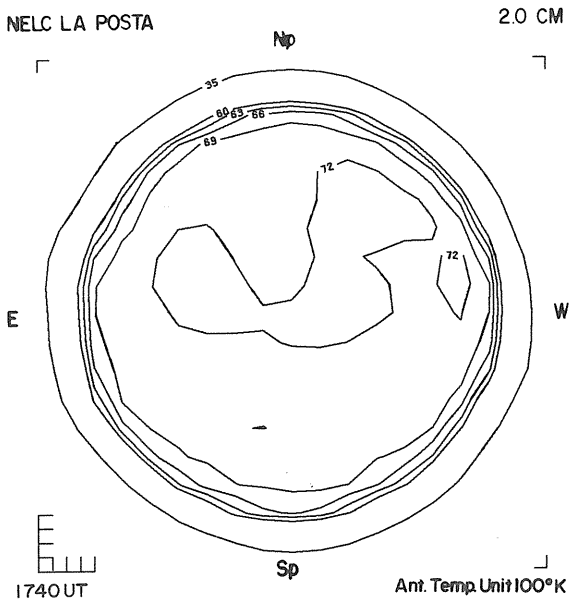
MAGNETOGRAM
Solid - Plus
Dotted - Minus

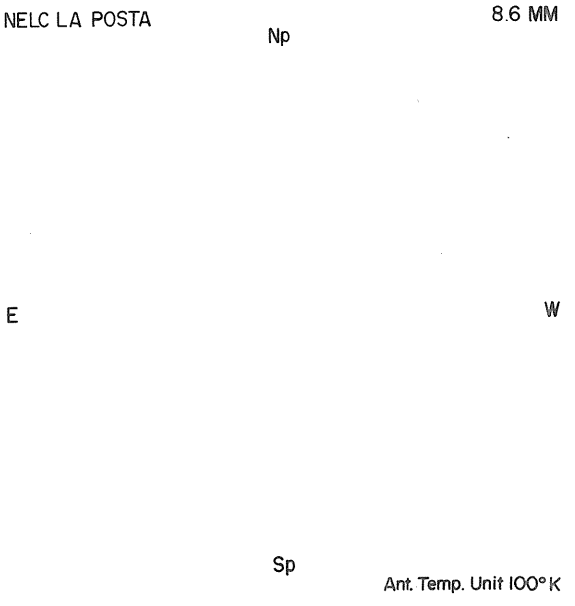
Levels
± 5
± 10
± 20
± 40
± 80

13
RAMEY AFB


Np
Hα
E
W
1134 UT
Sp


BOULDER
Np
SUNSPOTS
470
E
W
CORONA
NO DATA
1800 UT
Sp


NELC LA POSTA
2.0 CM
Np
35
60
63
66
69
72
72
E
W
Sp
1740 UT
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
E
W
Sp
Ant. Temp. Unit 100°K

FEBRUARY 14, 1975 (P = - 16.90, B_o = -6.78, L_o = 66.82)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

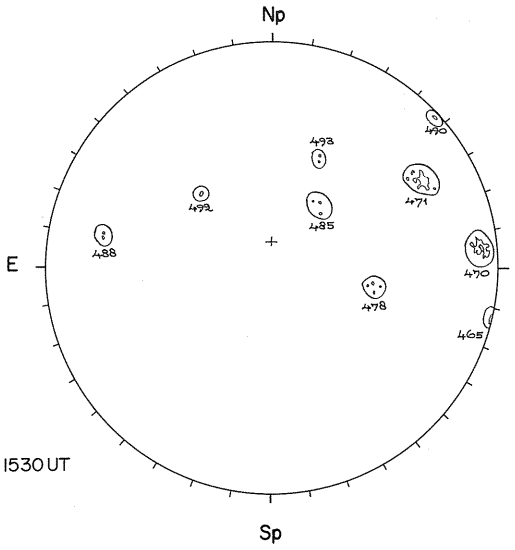
X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

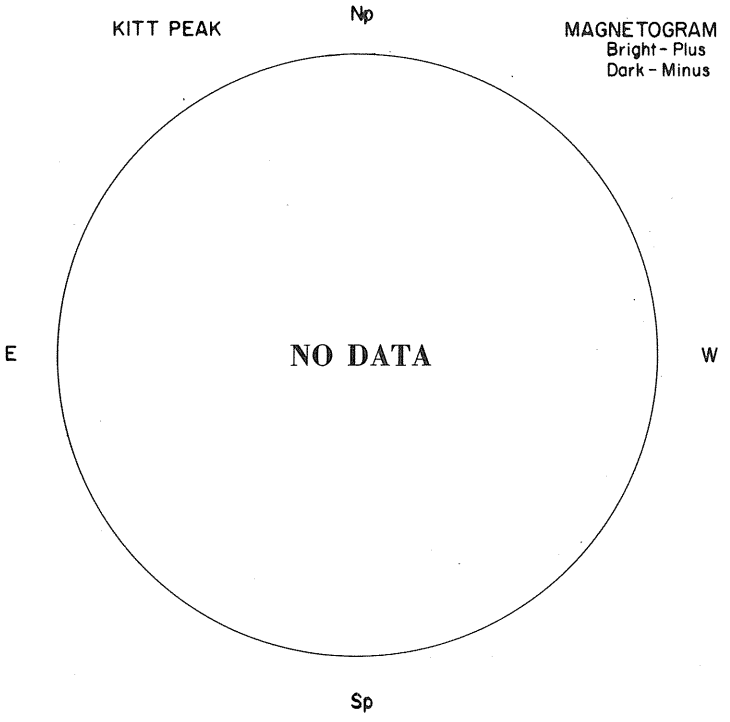


FAIR | M

1530 UT

KITT PEAK

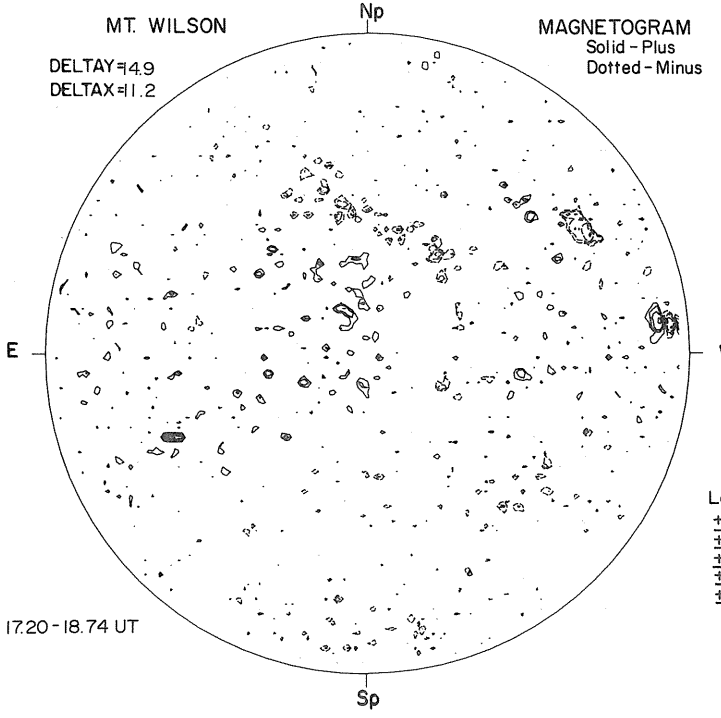
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

DELTAY = 14.9
DELTAX = 11.2

MAGNETOGRAM
Solid - Plus
Dotted - Minus

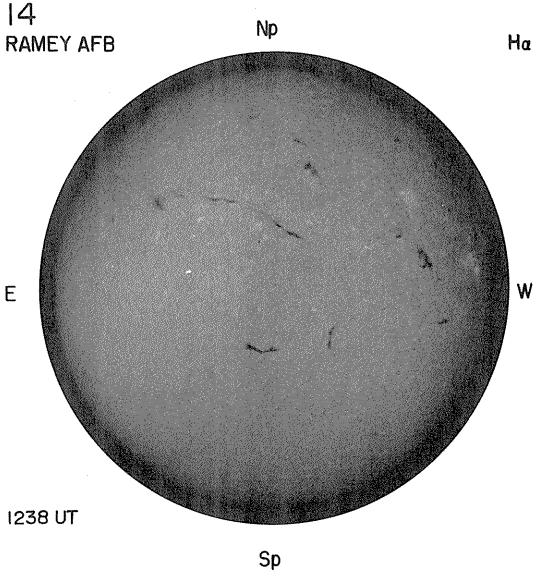


Levels
± 5
± 10
± 20
± 40
± 80

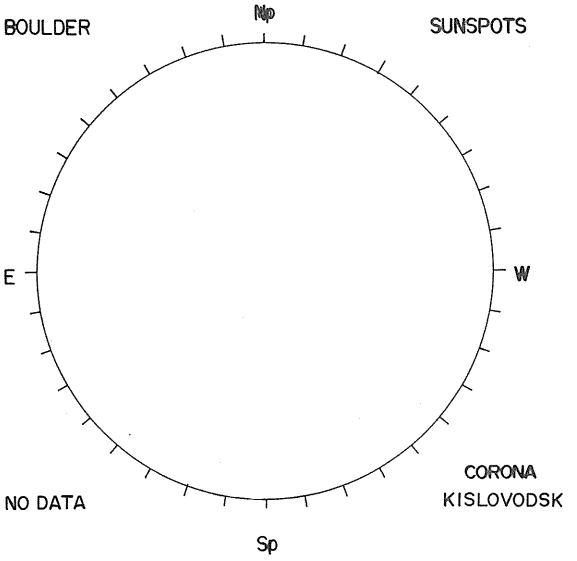
17.20 - 18.74 UT

14

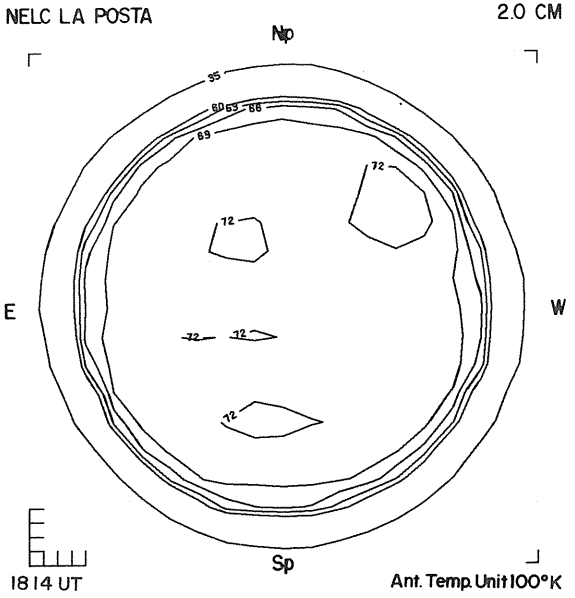
RAMEY AFB



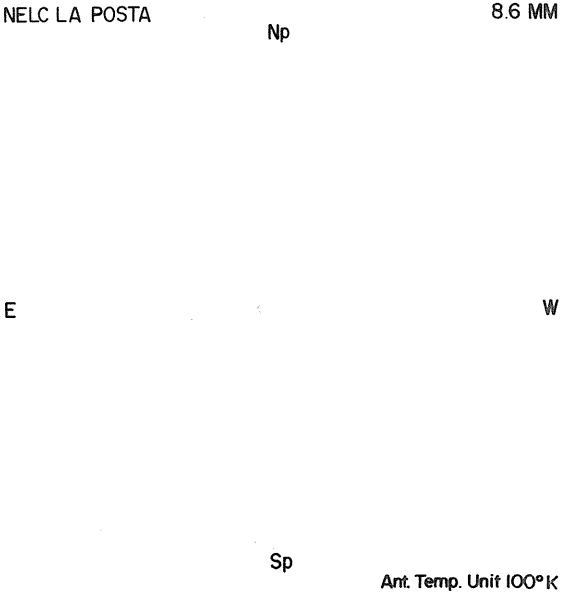
BOULDER



NELC LA POSTA



NELC LA POSTA



FEBRUARY 15, 1975 (P=-17.24, B_o=-6.82, L_o=53.65)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

Np
E W
Sp

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

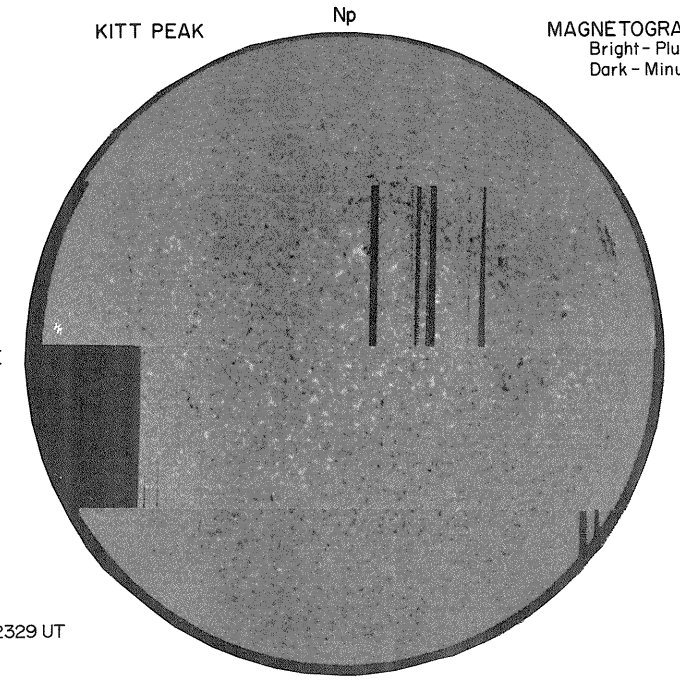
McMATH-HULBERT

Np
E W
Sp

NO DATA

CALCIUM REPORT

KITT PEAK

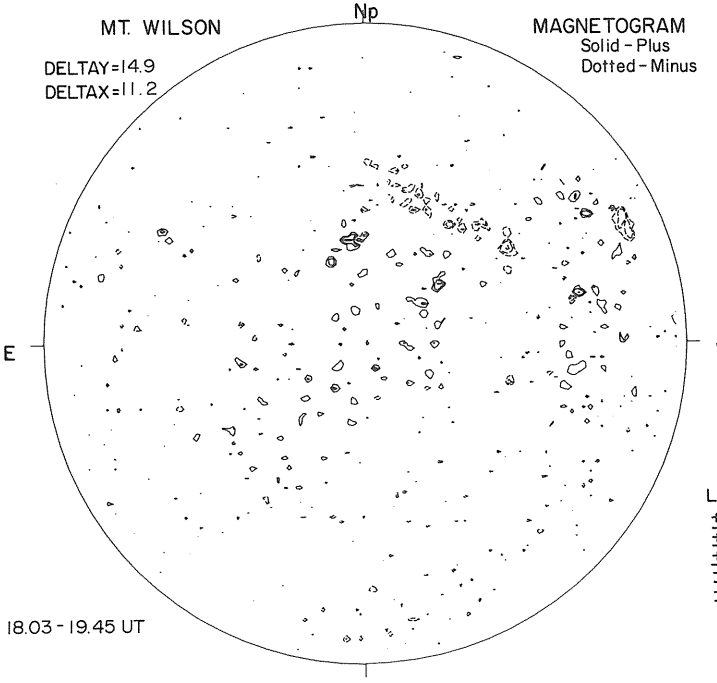


MAGNETOGRAM
Bright - Plus
Dark - Minus

2329 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2

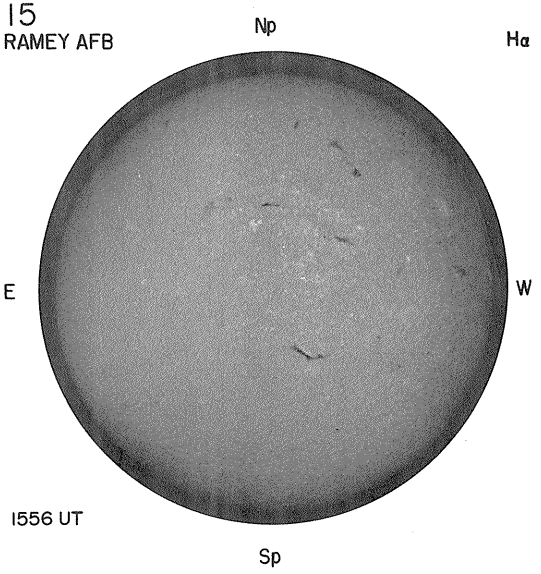


MAGNETOGRAM
Solid - Plus
Dotted - Minus

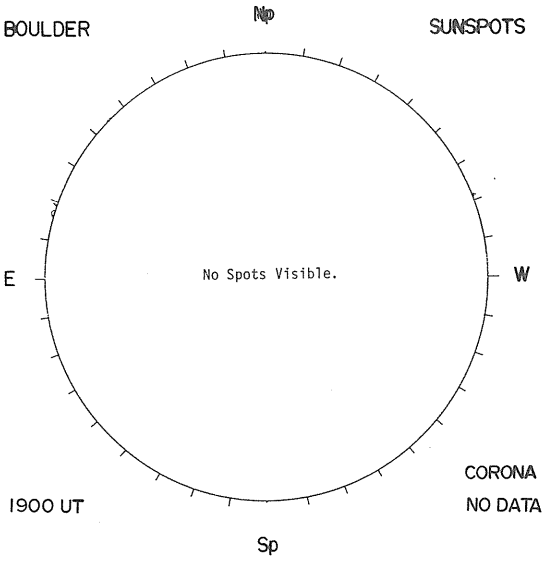
Levels
± 5
± 10
± 20
± 40
± 80

18.03 - 19.45 UT

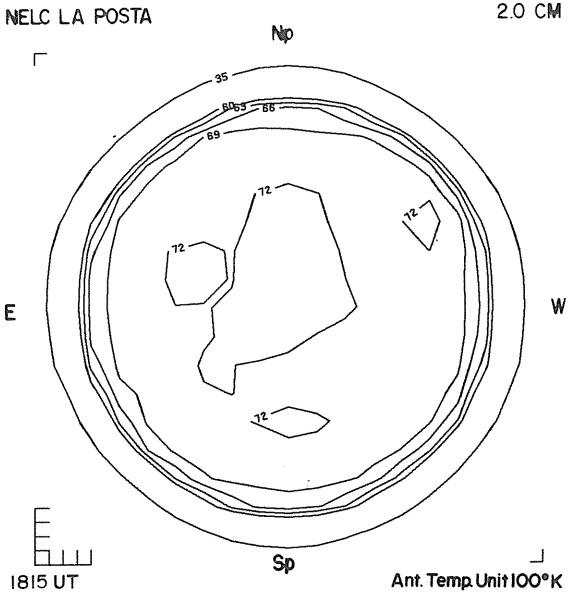
15
RAMEY AFB



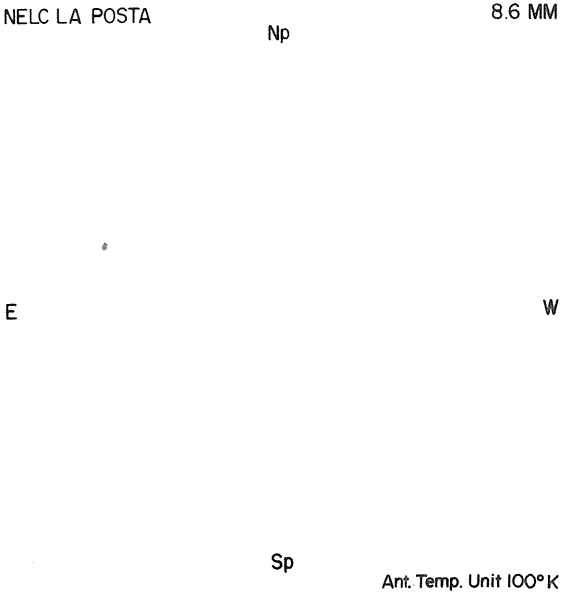
BOULDER



NELC LA POSTA 2.0 CM



NELC LA POSTA 8.6 MM



FEBRUARY 16, 1975 (P = -17.58, B_o = -6.86, L_o = 40.48)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

Np

E W

Sp

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

Np

E W

NO DATA

Sp

CALCIUM REPORT

KITT PEAK

Np

MAGNETOGRAM
Bright - Plus
Dark - Minus

E W

1545 UT

Sp

MT. WILSON

Np

MAGNETOGRAM
Solid - Plus
Dotted - Minus

DELTAY=4.9
DELTAX=1.2

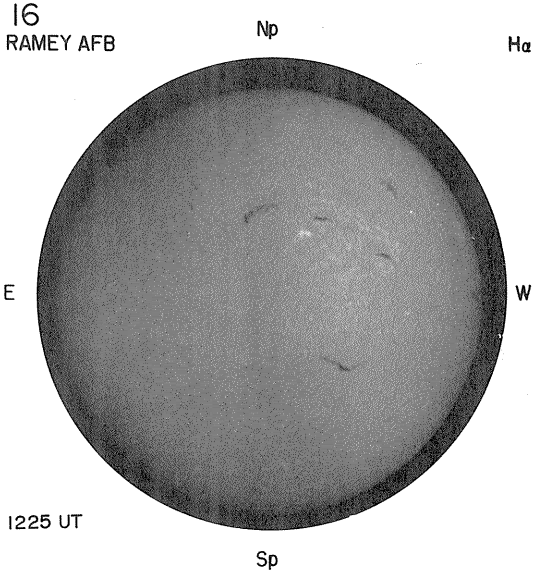
E W

Levels
± 5
± 10
± 20
± 40
± 80

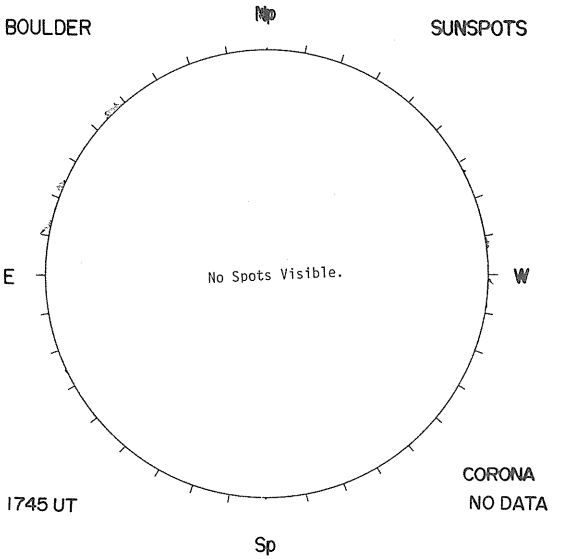
17.35 - 18.61 UT

Sp

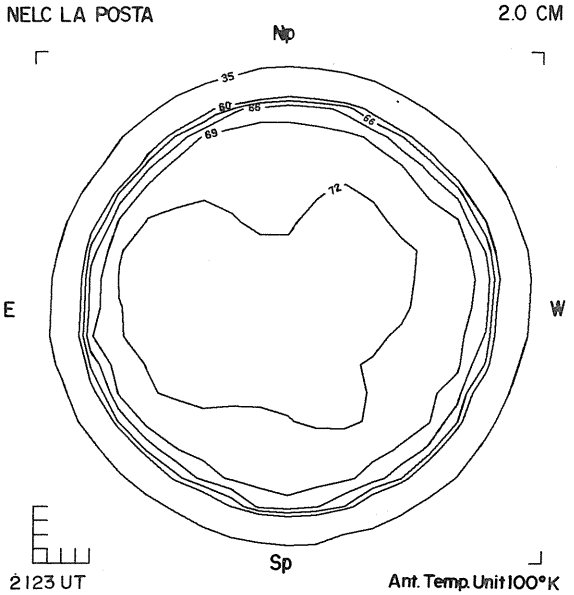
16
RAMEY AFB



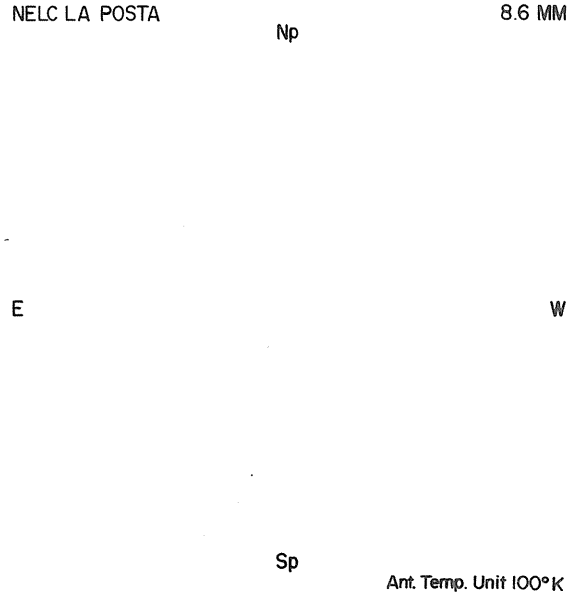
BOULDER



NELC LA POSTA



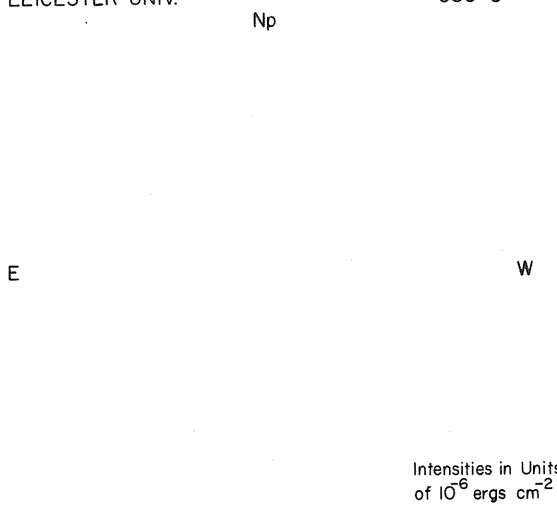
NELC LA POSTA



FEBRUARY 17, 1975 (P=-17.91, B_o=-6.90, L_o=27.31)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

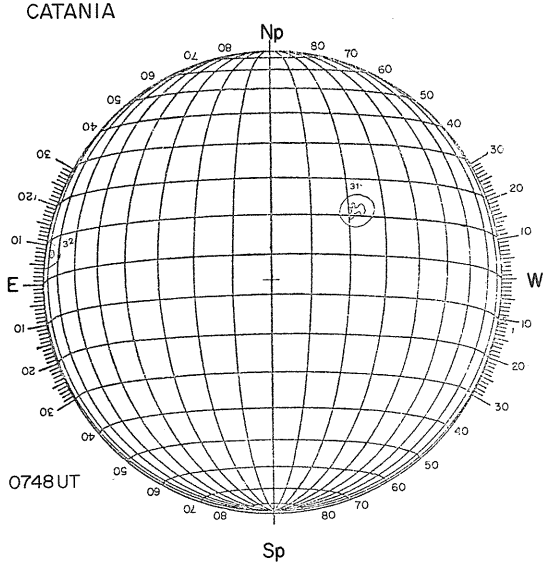
X-RAY
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

CATANIA

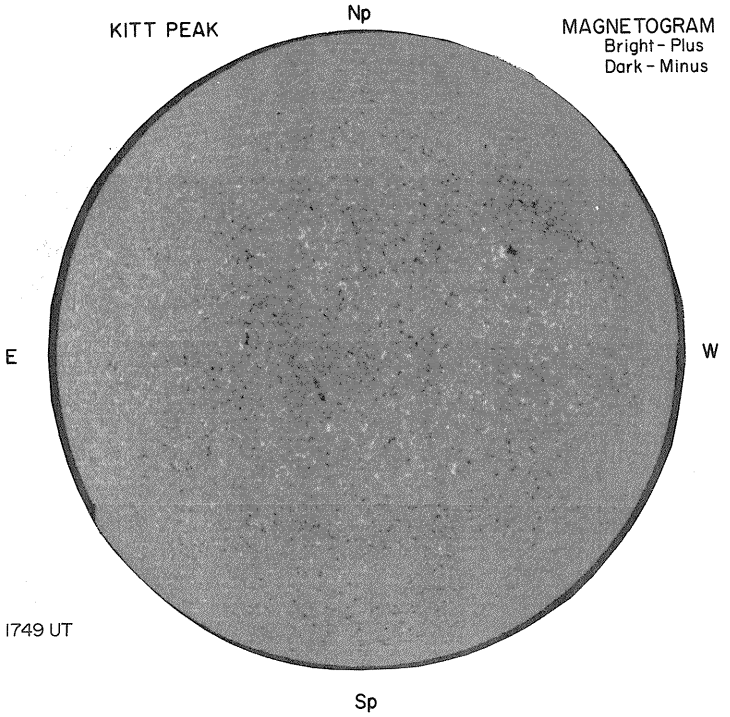
CALCIUM REPORT



POOR GD

KITT PEAK

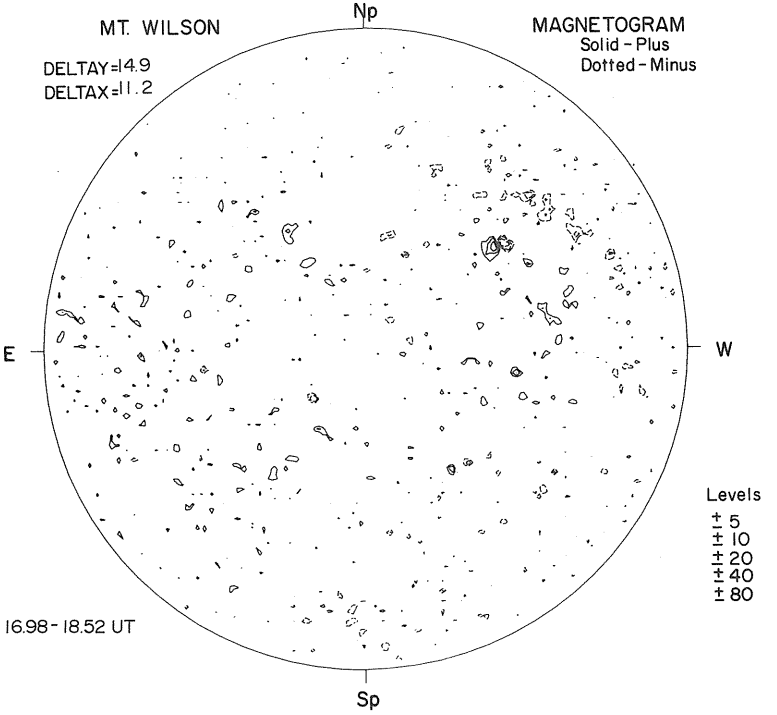
MAGNETOGRAM
Bright - Plus
Dark - Minus



MT. WILSON

DELTAY=14.9
DELTAX=11.2

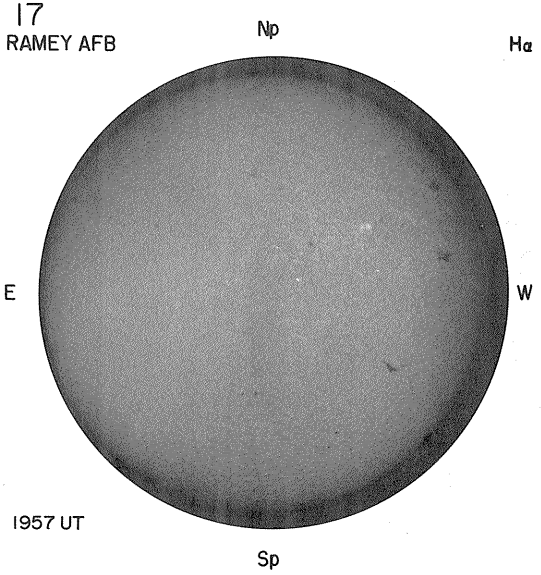
MAGNETOGRAM
Solid - Plus
Dotted - Minus



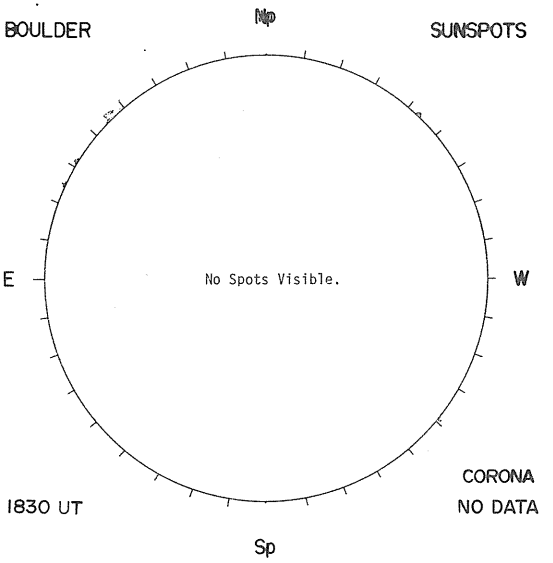
Levels
± 5
± 10
± 20
± 40
± 80

17

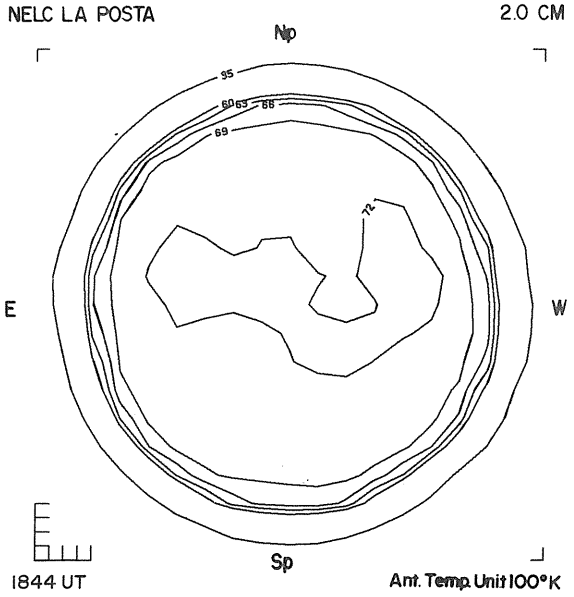
RAMEY AFB



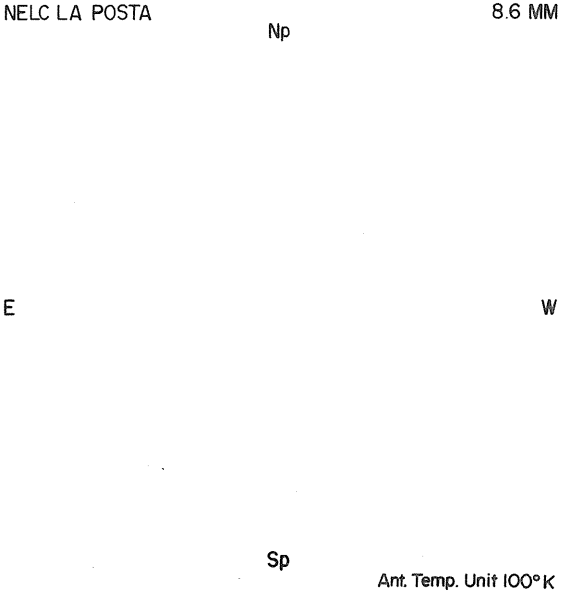
BOULDER



NELC LA POSTA



NELC LA POSTA



FEBRUARY 18, 1975 (P = - 18.23, B_o = -6.94, L_o = 14.14)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

Np

E W

Sp

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

Np

E W

Sp

NO DATA

CALCIUM REPORT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

Np

E W

Sp

1553 UT

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4

MAGNETOGRAM
Solid - Plus
Dotted - Minus

Np

E W

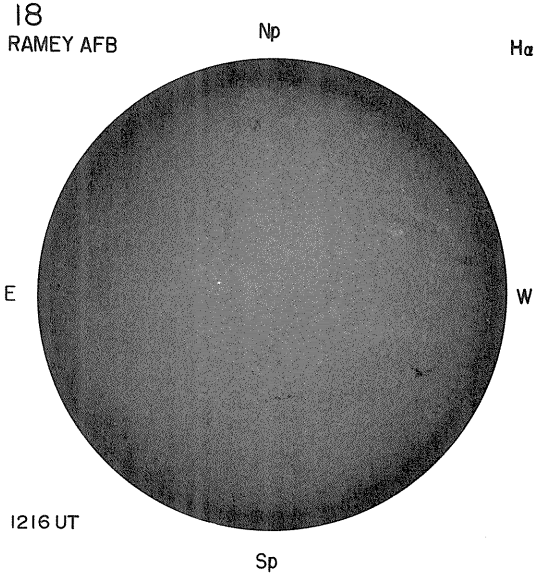
Sp

19.11 - 20.55 UT

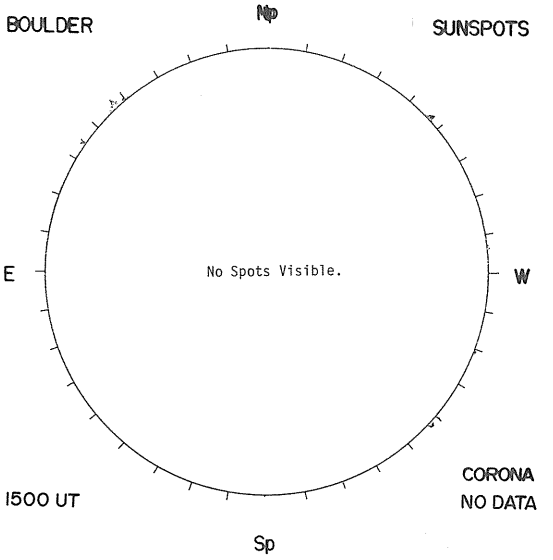
Levels
± 5
± 10
± 20
± 40
± 80

18

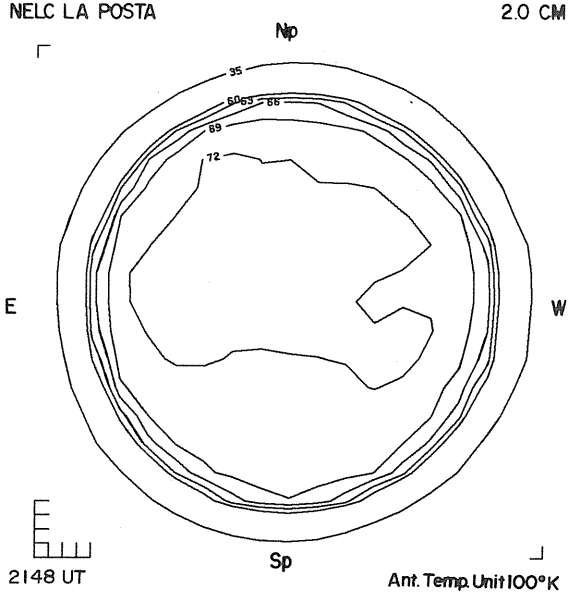
RAMEY AFB



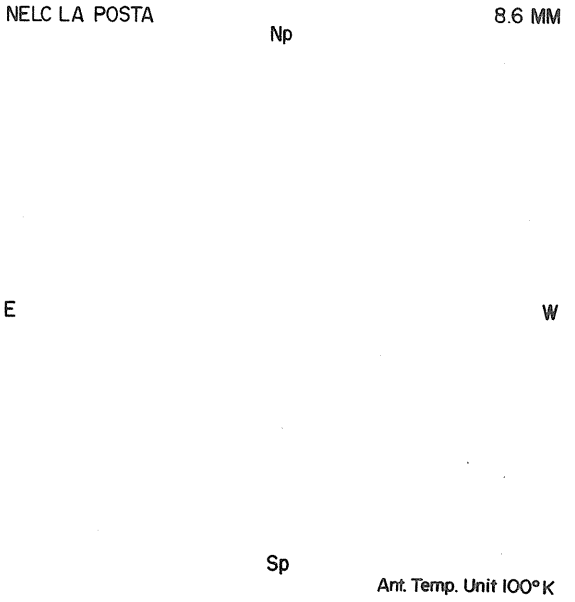
BOULDER



NELC LA POSTA



NELC LA POSTA



FEBRUARY 19, 1975 (P = - 18.55, B_o = -6.98, L_o = 0.98)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

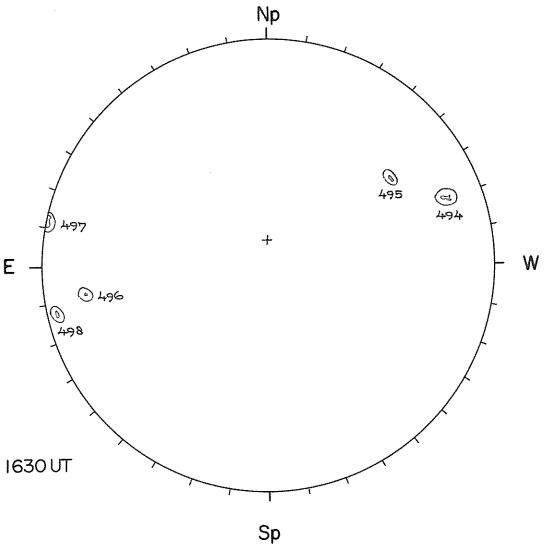
X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

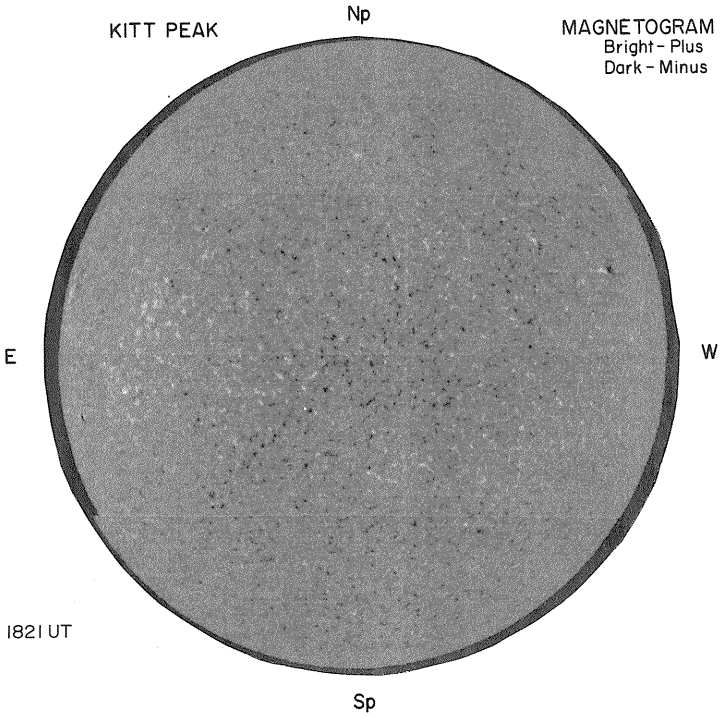


FAIR | M

1630 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

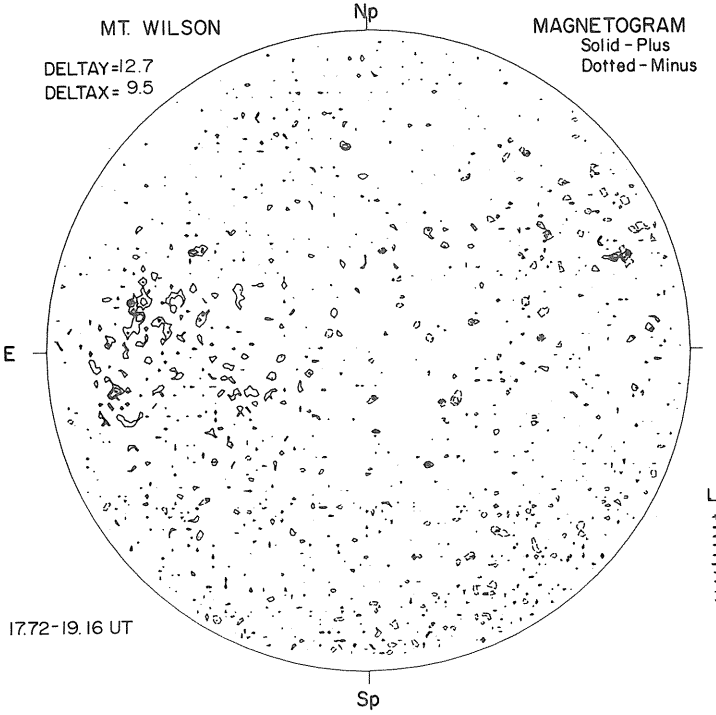


1821 UT

MT. WILSON

DELTAY=12.7
DELTAX= 9.5

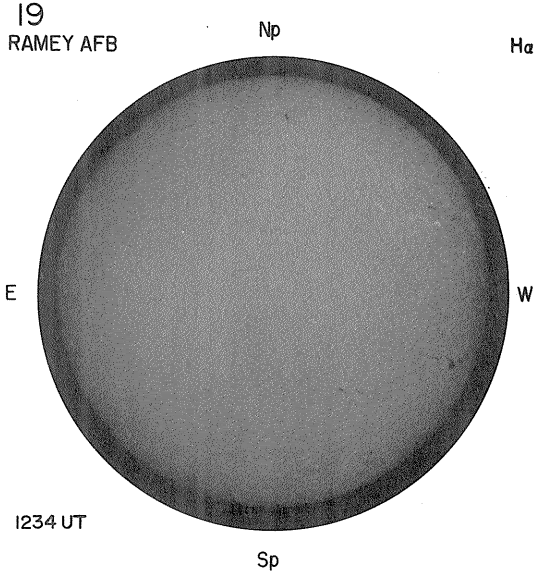
MAGNETOGRAM
Solid - Plus
Dotted - Minus



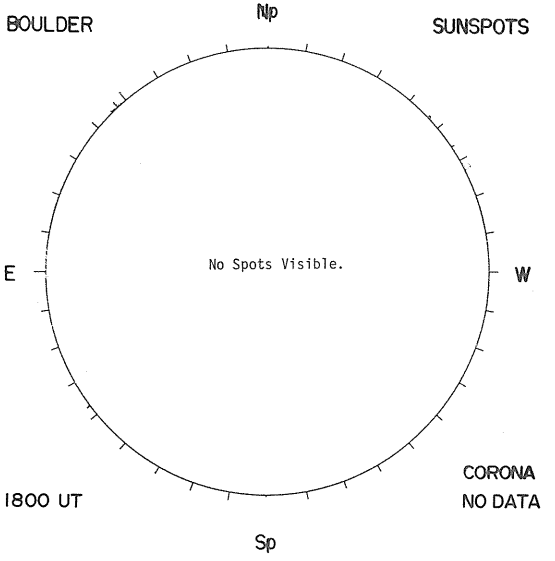
Levels
± 5
± 10
± 20
± 40
± 80

17.72-19.16 UT

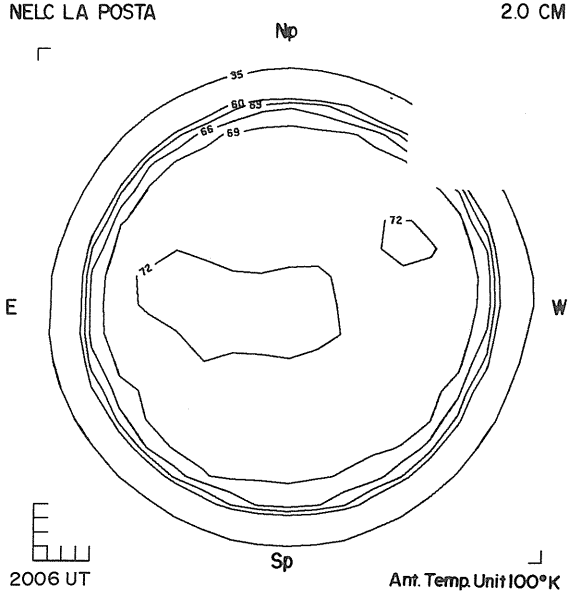
19
RAMEY AFB



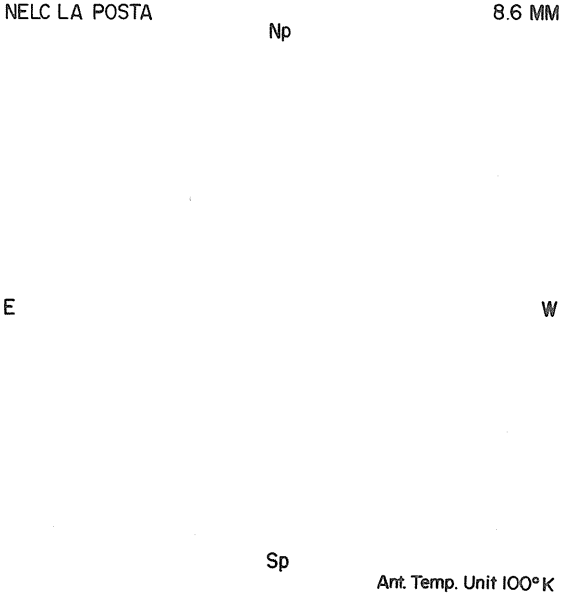
BOULDER



NELC LA POSTA 2.0 CM



NELC LA POSTA 8.6 MM



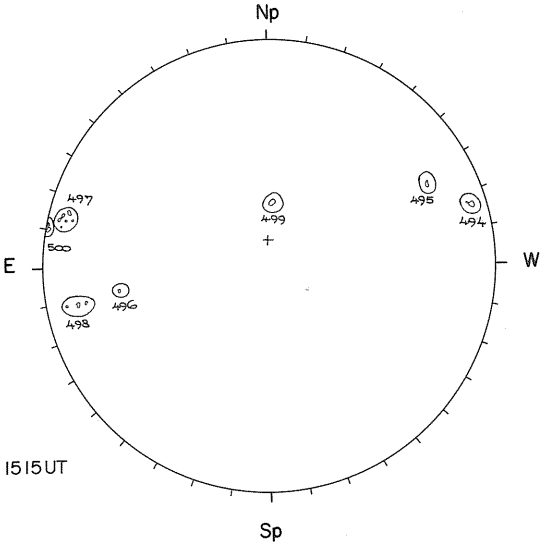
FEBRUARY 20, 1975 (P=-18.87, B_o=-7.01, L_o=347.81)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

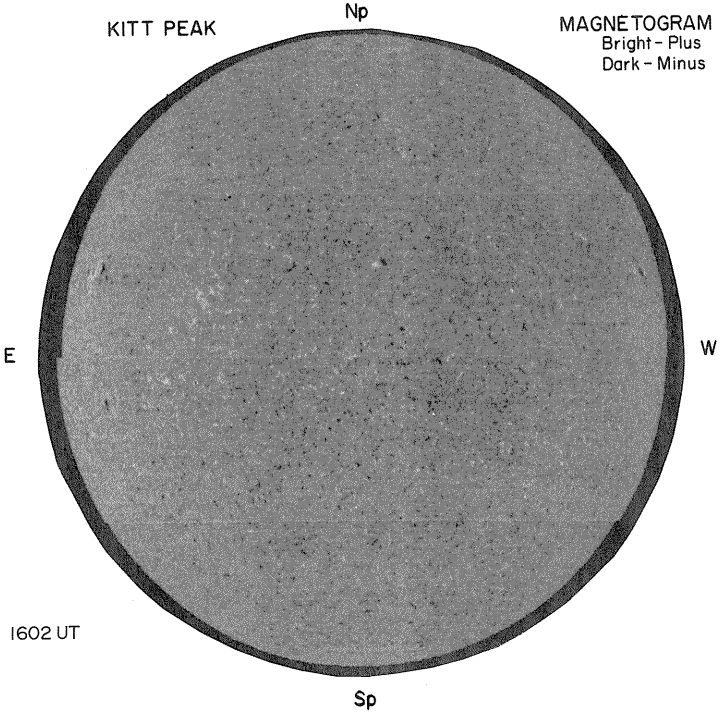


1515 UT

CALCIUM REPORT

FAIR	S
94 - 0300 - 2.5	

KITT PEAK

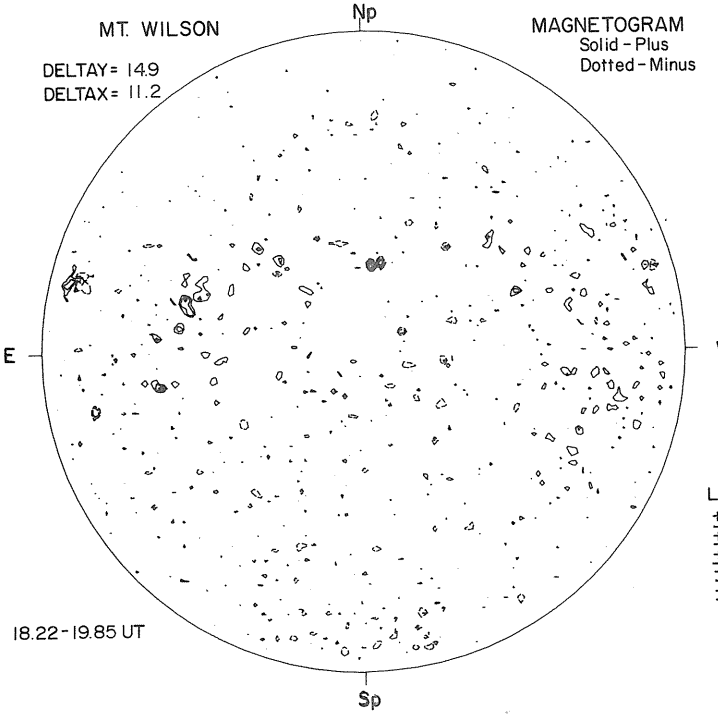


1602 UT

MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY= 14.9
DELTAX= 11.2

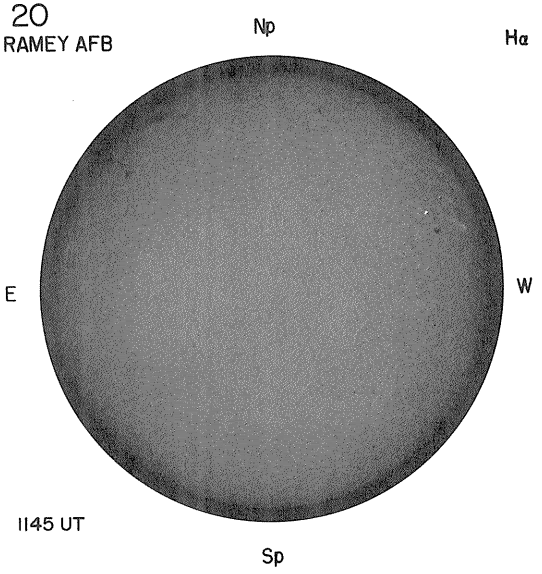


18.22-19.85 UT

MAGNETOGRAM
Solid - Plus
Dotted - Minus

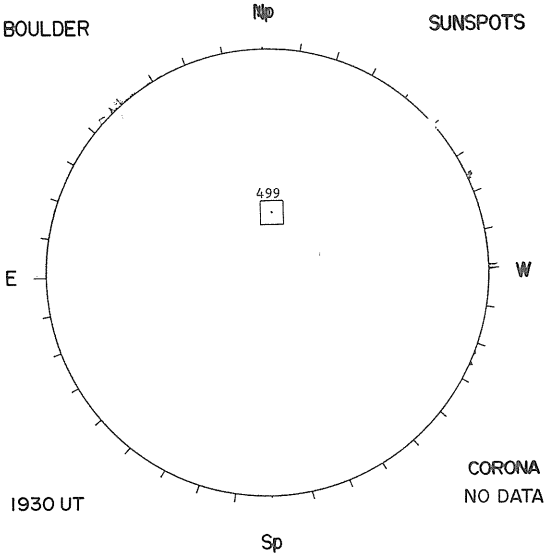
Levels
± 5
± 10
± 20
± 40
± 80

20
RAMEY AFB



1145 UT

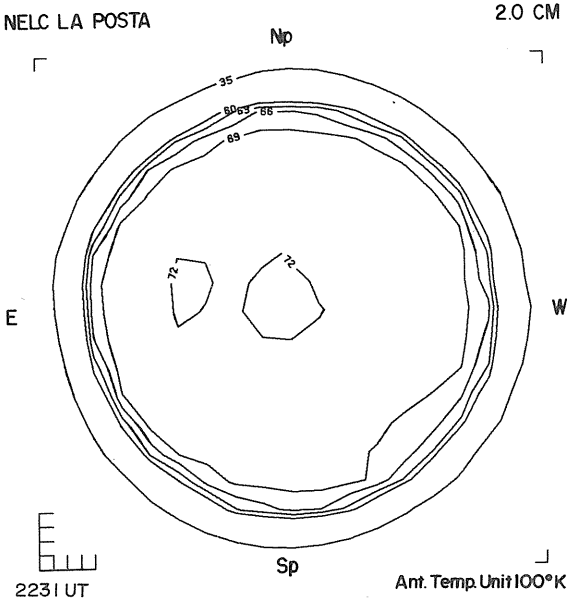
BOULDER



CORONA
NO DATA

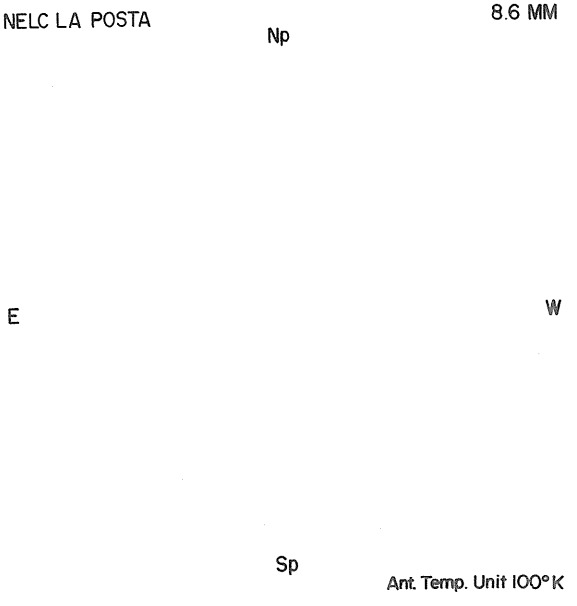
1930 UT

NELC LA POSTA



2231 UT

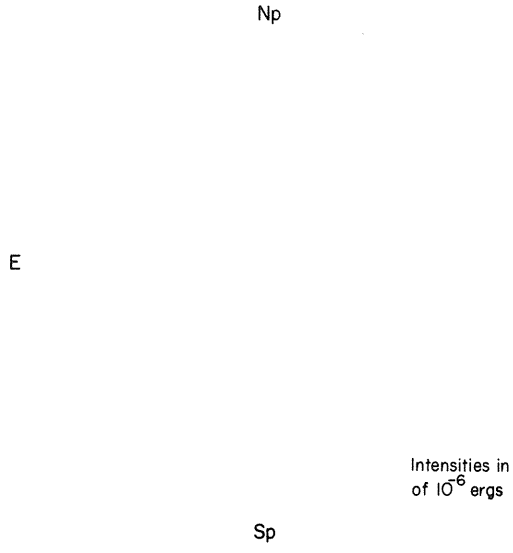
NELC LA POSTA



FEBRUARY 21, 1975 (P = -19.18, B_o = -7.04, L_o = 334.64)

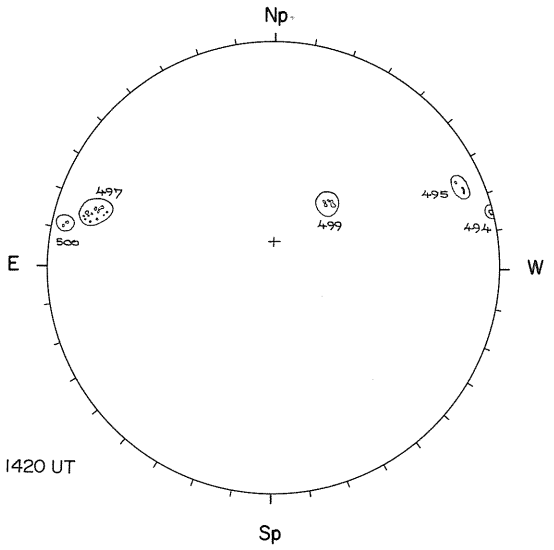
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5



Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

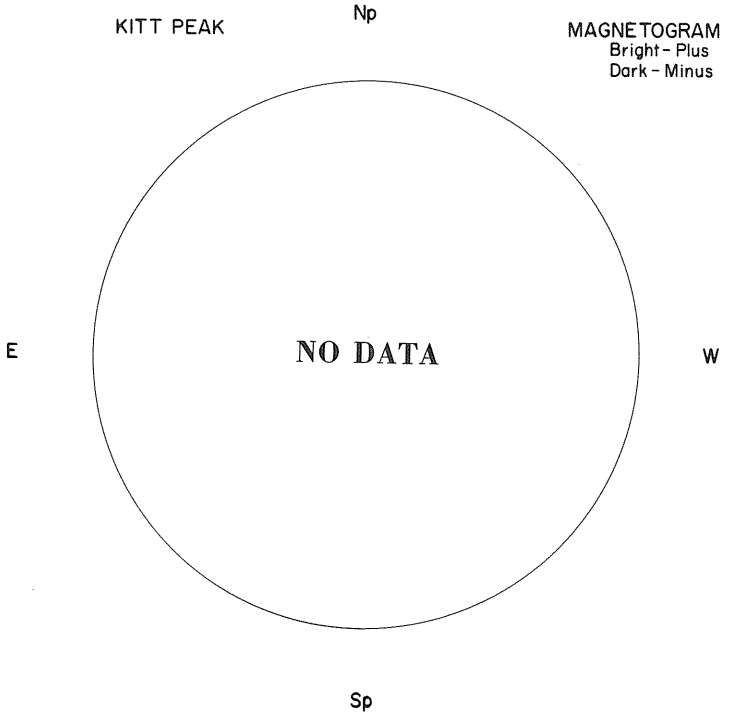


1420 UT

CALCIUM REPORT

GOOD | M

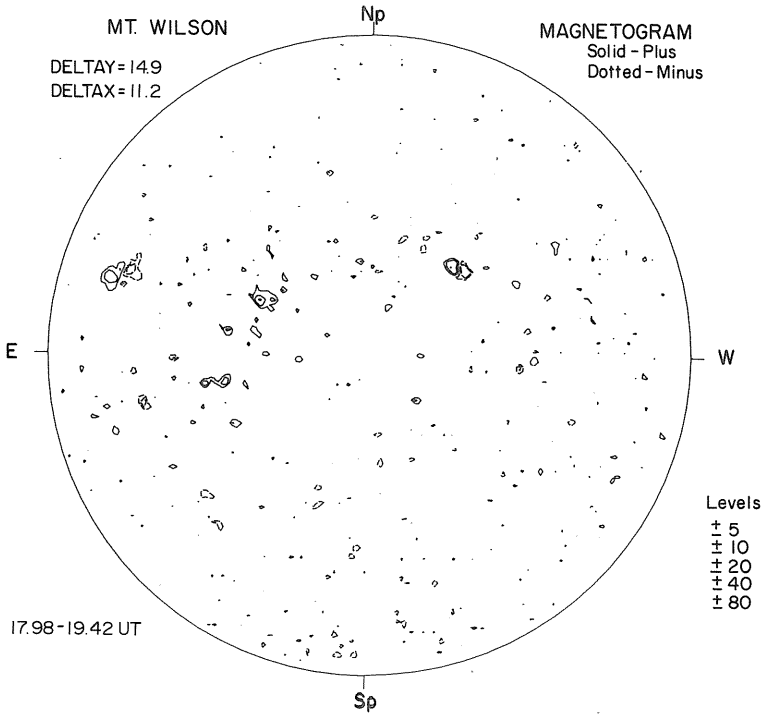
KITT PEAK



MAGNETOGRAM
Bright - Plus
Dark - Minus

MT. WILSON

DELTAY = 14.9
DELTAX = 11.2

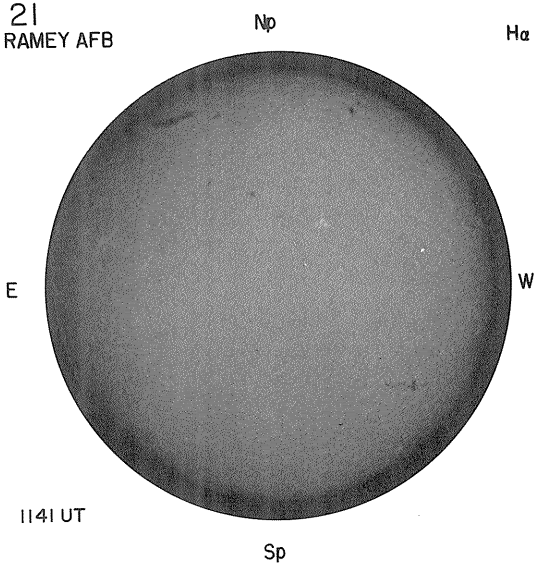


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

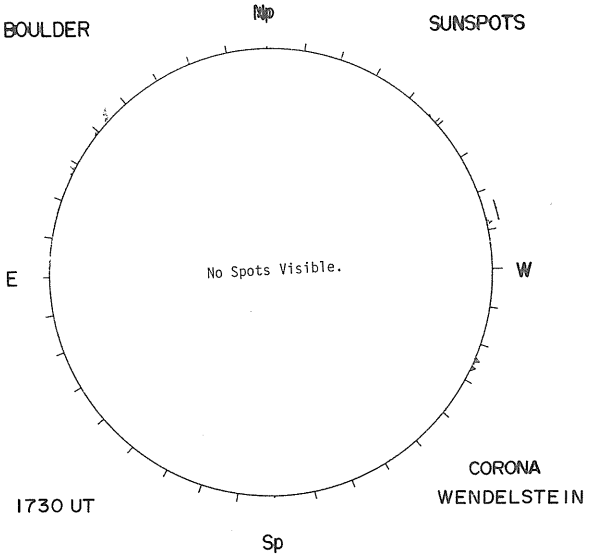
17.98 - 19.42 UT

21
RAMEY AFB



1141 UT

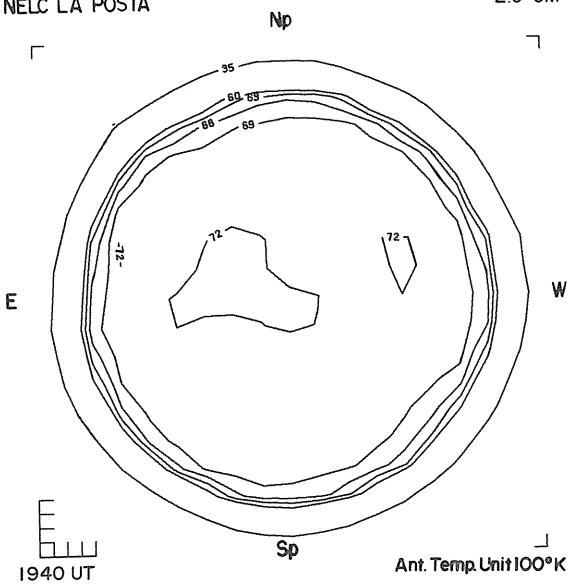
BOULDER



1730 UT

NELC LA POSTA

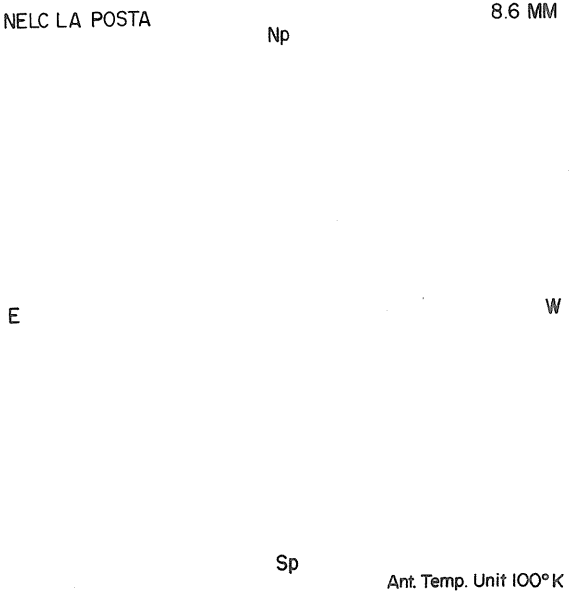
2.0 CM



1940 UT

NELC LA POSTA

8.6 MM

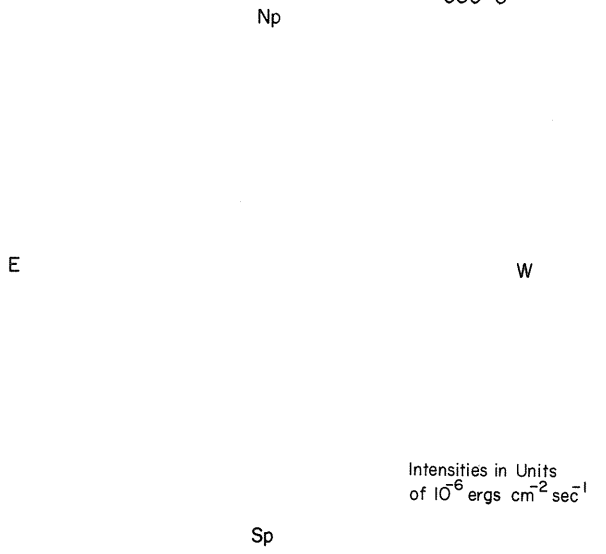


67
Feb 75

FEBRUARY 22, 1975 (P = -19.48, B_o = -7.07, L_o = 321.47)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

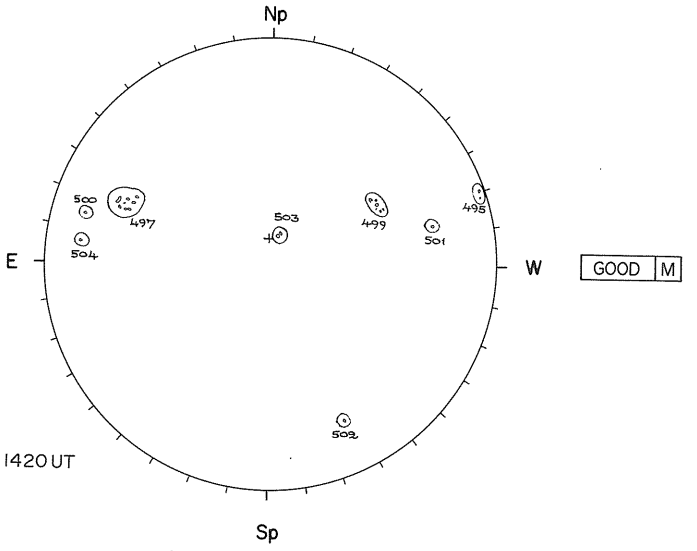
X-RAY
OSO-5



Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

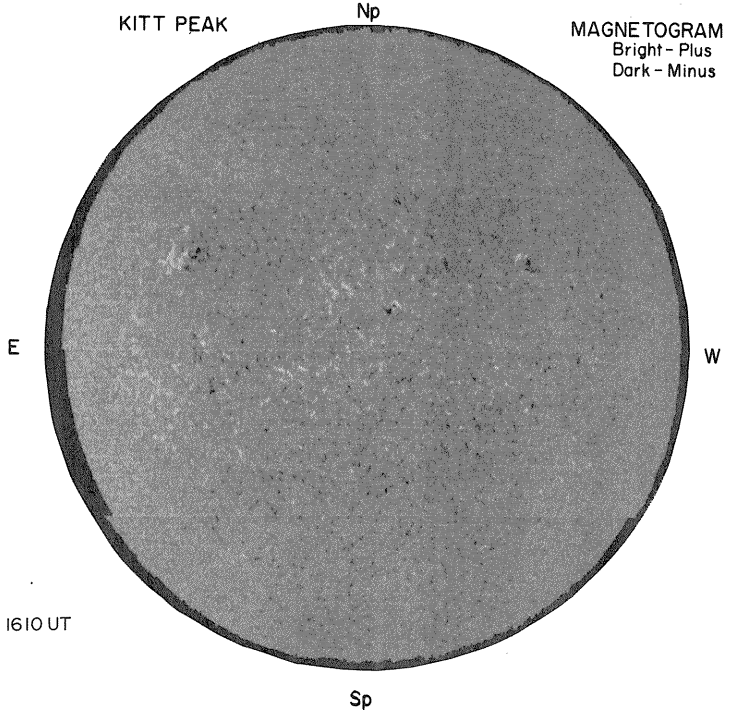
CALCIUM REPORT



1420 UT

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

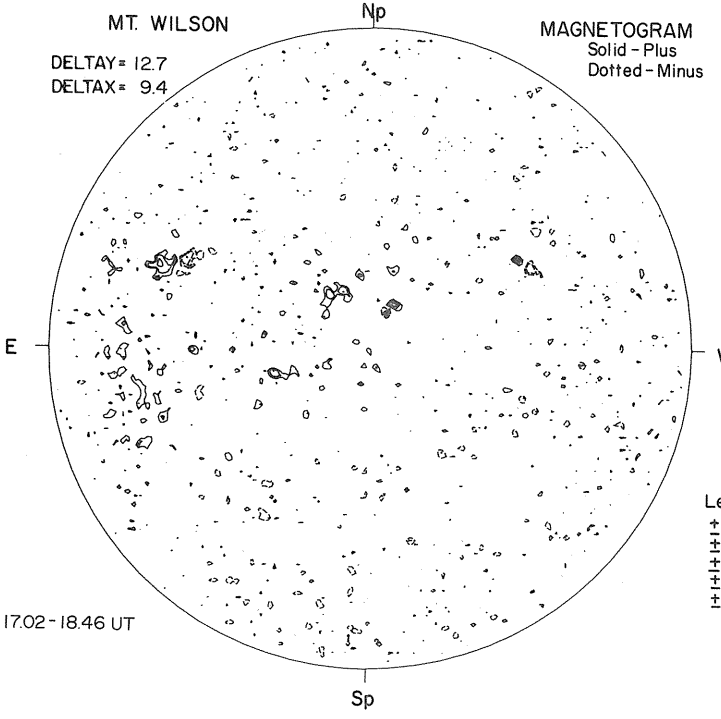


1610 UT

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4

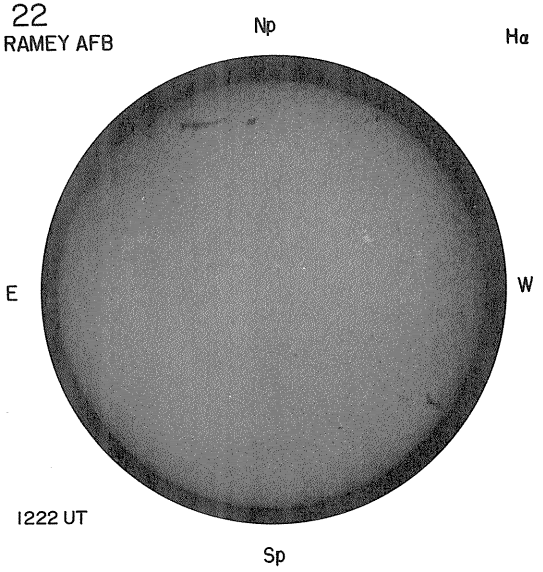
MAGNETOGRAM
Solid - Plus
Dotted - Minus

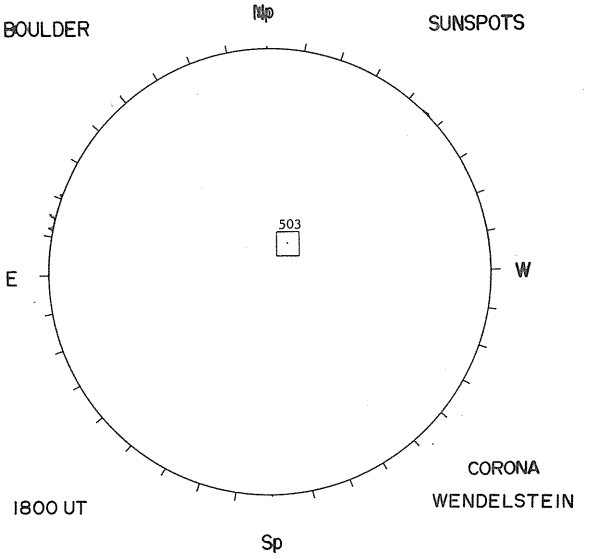


Levels
± 5
± 10
± 20
± 40
± 80

17.02 - 18.46 UT

22
RAMEY AFB





NELC LA POSTA

Np

2.0 CM

NO DATA

E

EQUIPMENT

W

NO DATA

Sp

Ant. Temp. Unit 100°K

NELC LA POSTA

Np

8.6 MM

E

W

Sp

Ant. Temp. Unit 100°K

FEBRUARY 23, 1975 (P = - 19.77, B_o = - 7.10, L_o = 308.30)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np

E

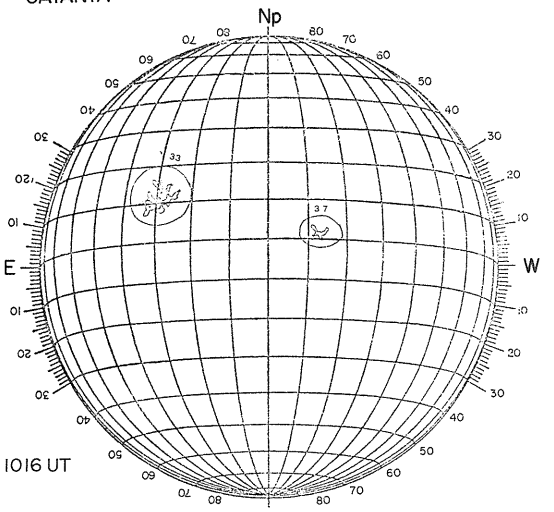
W

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

Sp

CATANIA

CALCIUM REPORT

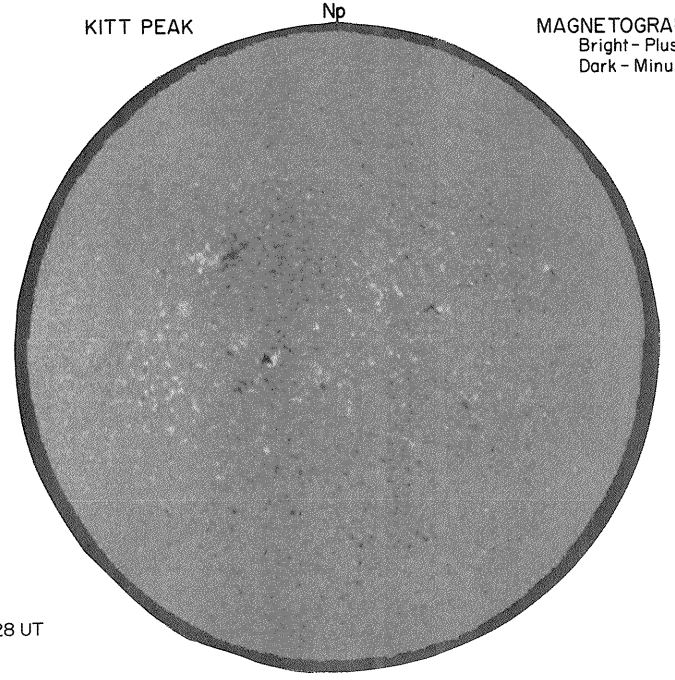


1016 UT

POOR | SS
33 - 1230 ---

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

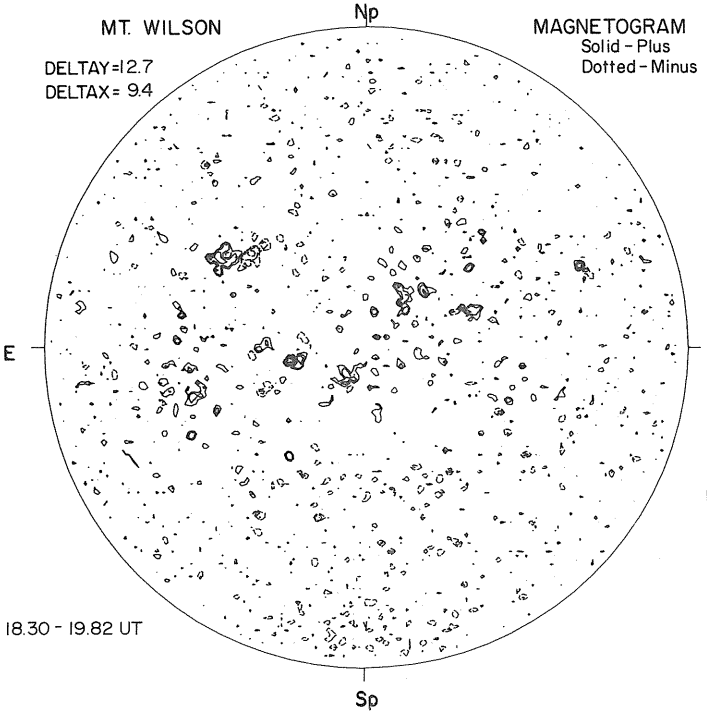


1828 UT

MT. WILSON

DELTAY=12.7
DELTAX= 9.4

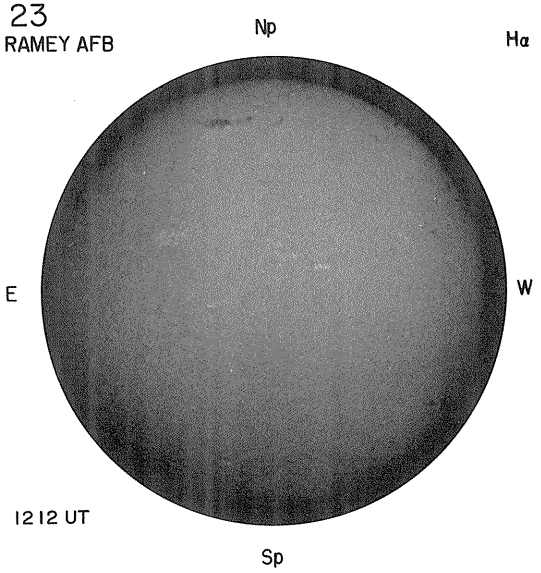
MAGNETOGRAM
Solid - Plus
Dotted - Minus

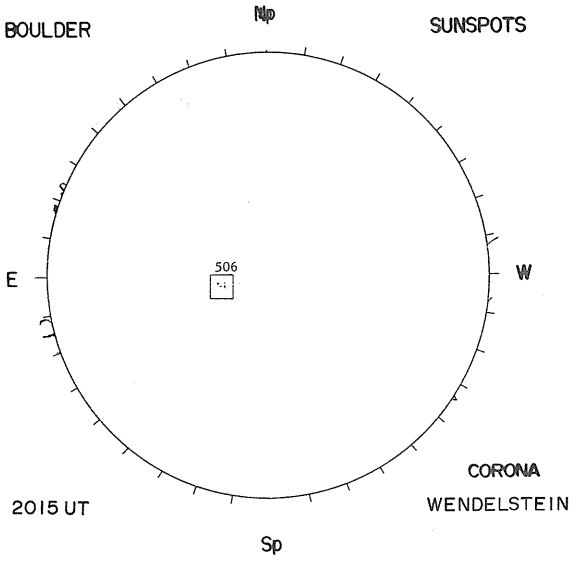


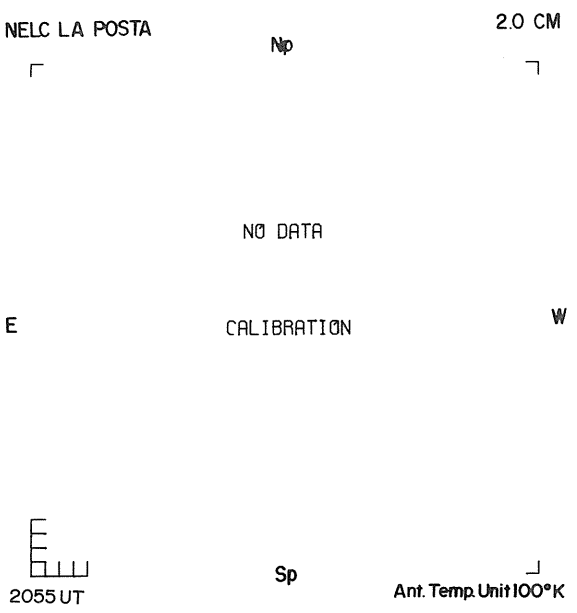
Levels
± 5
± 10
± 20
± 40
± 80

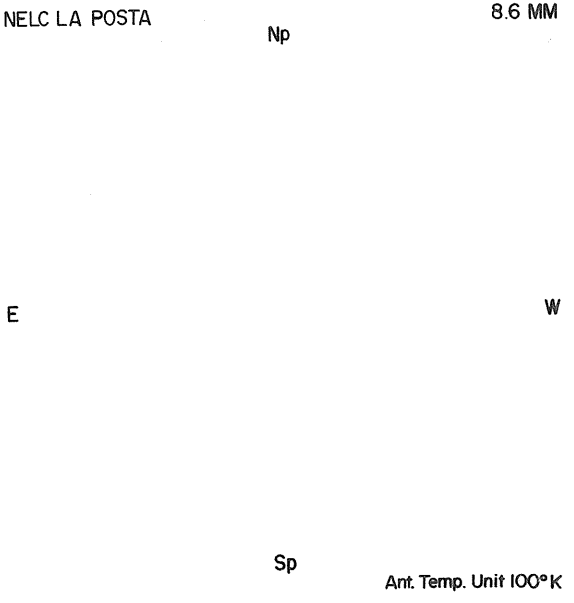
18.30 - 19.82 UT

23
RAMEY AFB


Np
Hα
E
W
1212 UT
Sp


BOULDER
Np
SUNSPOTS
E
506
W
CORONA
WENDELSTEIN
2015 UT
Sp


NELC LA POSTA
Np
2.0 CM
NO DATA
E
CALIBRATION
W
2055 UT
Sp
Ant. Temp. Unit 100°K


NELC LA POSTA
Np
8.6 MM
E
W
Sp
Ant. Temp. Unit 100°K

FEBRUARY 24, 1975 (P = -20.06, B_o = -7.12, L_o = 295.13)

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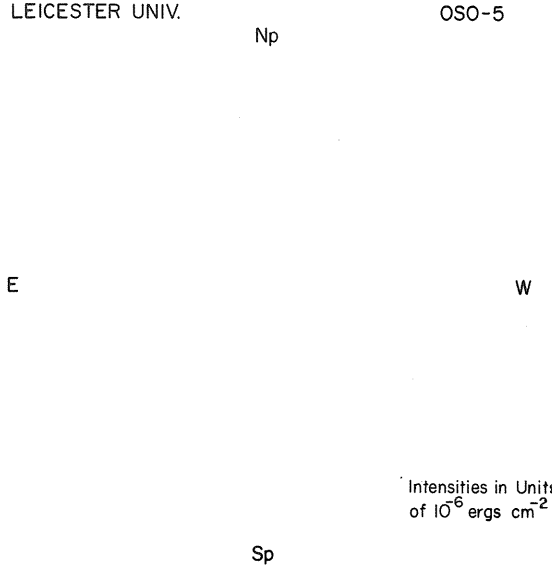
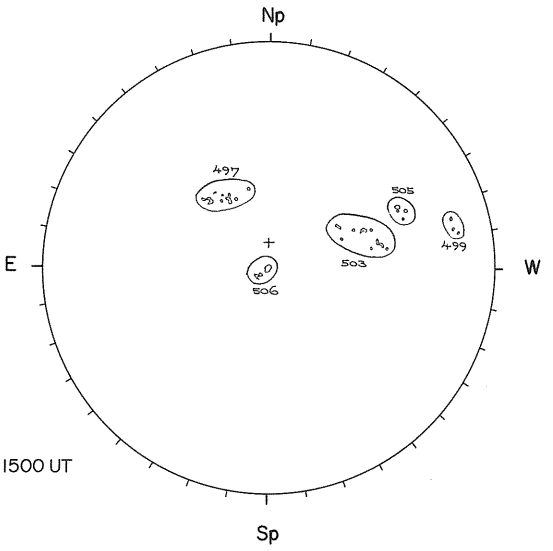
LEICESTER UNIV.

X-RAY
OSO-5



Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT



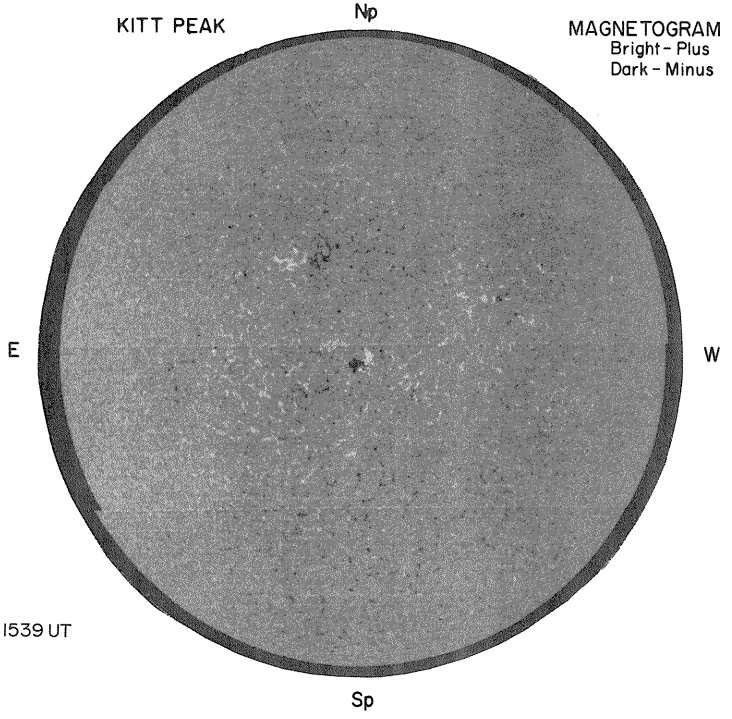
1500 UT

CALCIUM REPORT

GOOD	S

06 - 0200 - 2.5

KITT PEAK

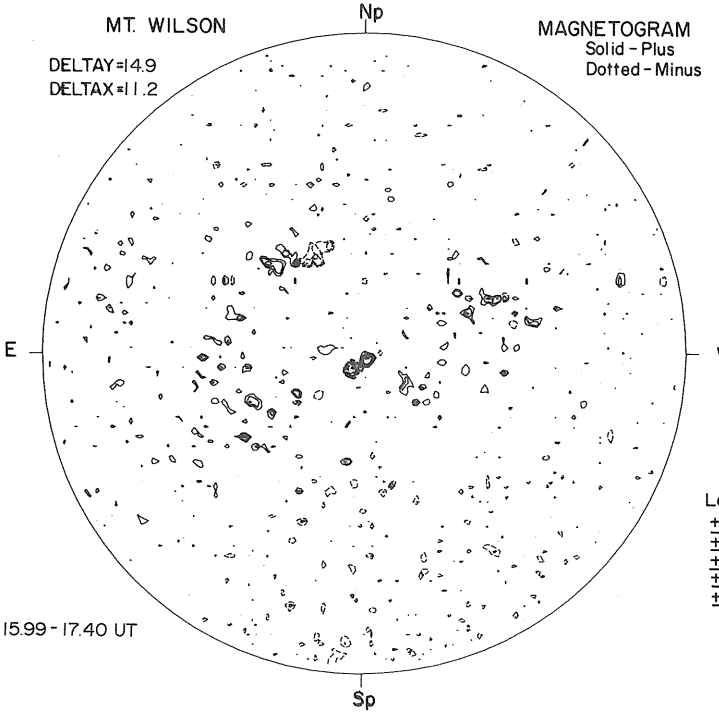


MAGNETOGRAM
Bright - Plus
Dark - Minus

1539 UT

MT. WILSON

DELTAY=14.9
DELTAX=11.2



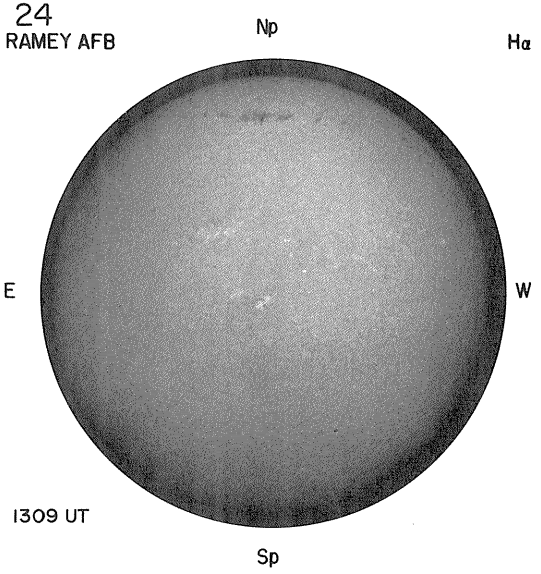
MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

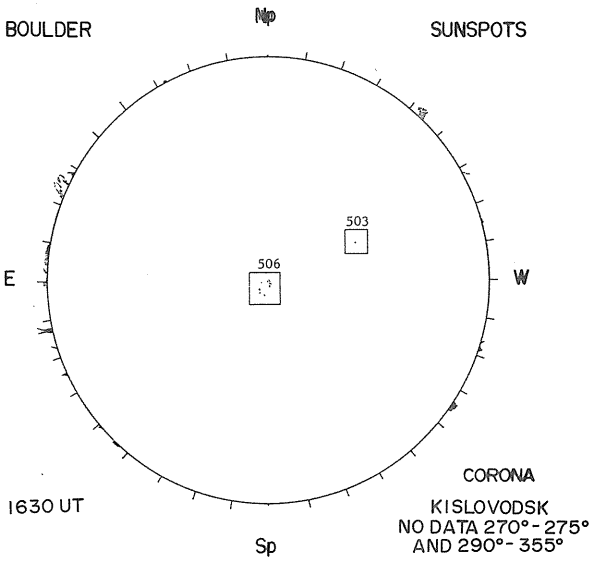
15.99 - 17.40 UT

24

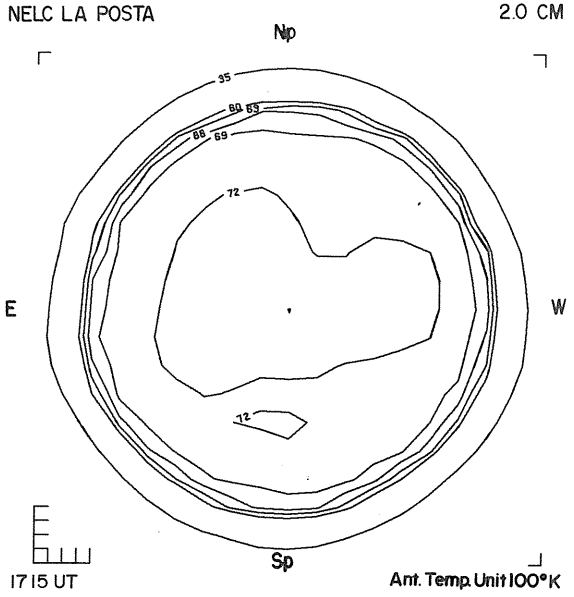
RAMEY AFB



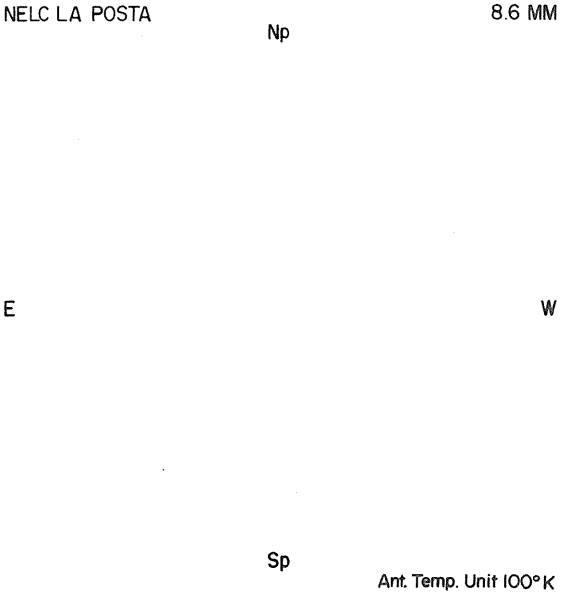
BOULDER



NELC LA POSTA



NELC LA POSTA

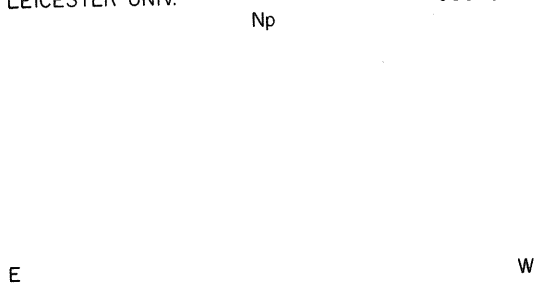


73
Feb 75

FEBRUARY 25, 1975 (P = -20.35, B_o = -7.15, L_o = 281.96)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

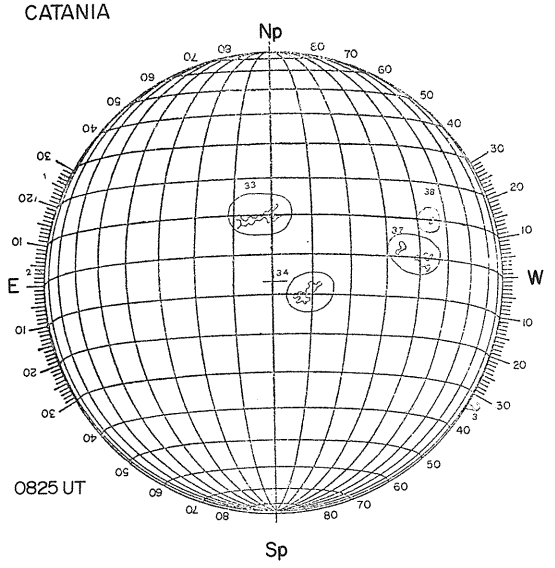
X-RAY
OSO-5



Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

CATANIA

CALCIUM REPORT

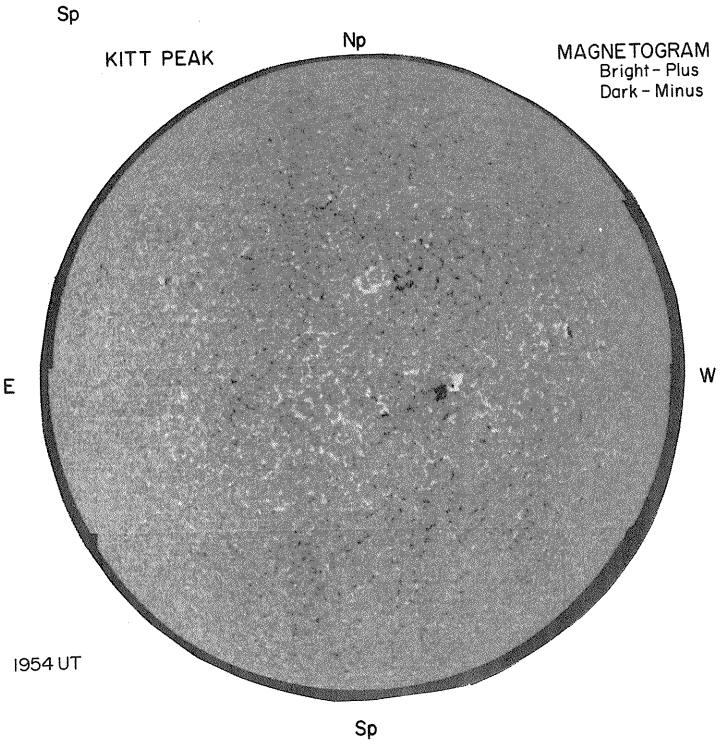


0825 UT

GOOD	EC
34 - 0630 ---	
33 - 0708 ---	

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

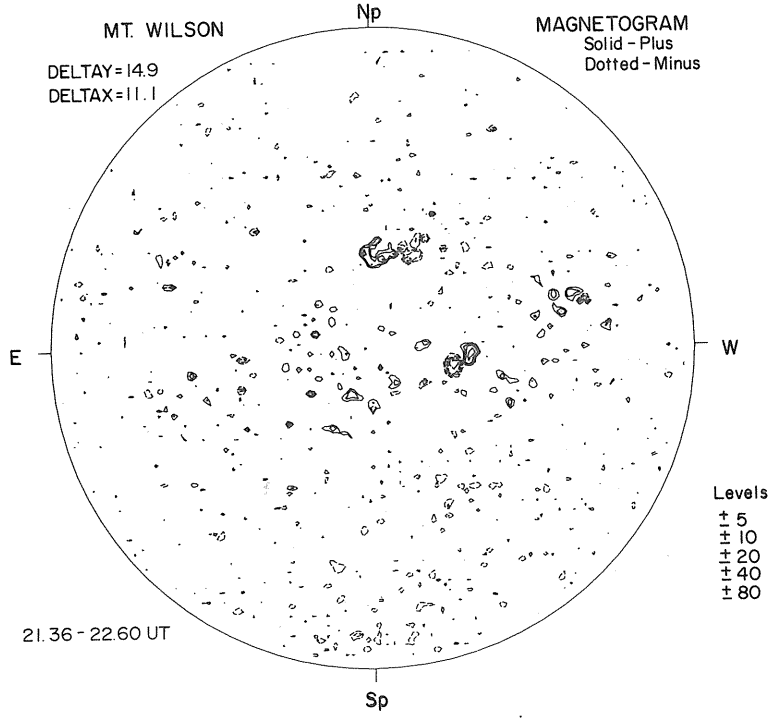


1954 UT

MT. WILSON

DELTAY = 14.9
DELTAX = 11.1

MAGNETOGRAM
Solid - Plus
Dotted - Minus

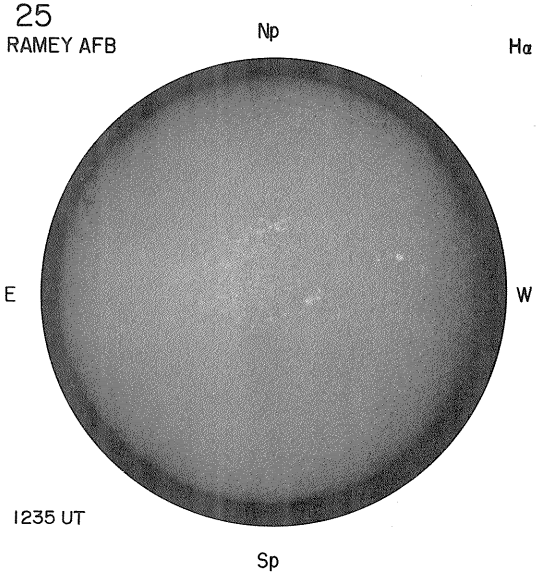


Levels
± 5
± 10
± 20
± 40
± 80

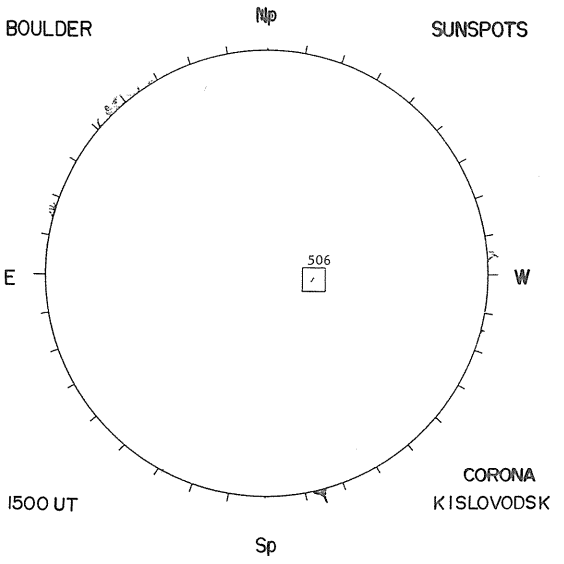
21.36 - 22.60 UT

25

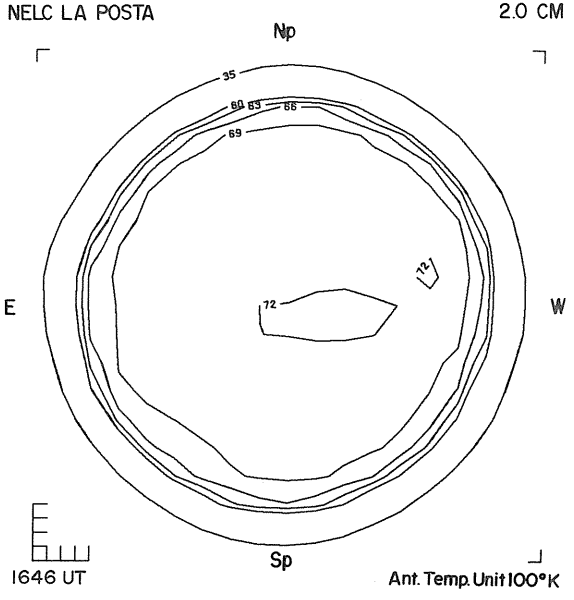
RAMEY AFB



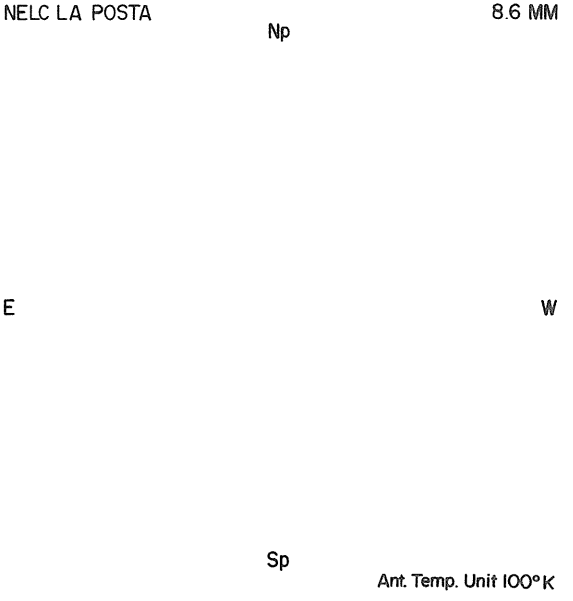
BOULDER



NELC LA POSTA



NELC LA POSTA



75
Feb 75

FEBRUARY 26, 1975 (P = -20.63, B_o = -7.17, L_o = 268.78)

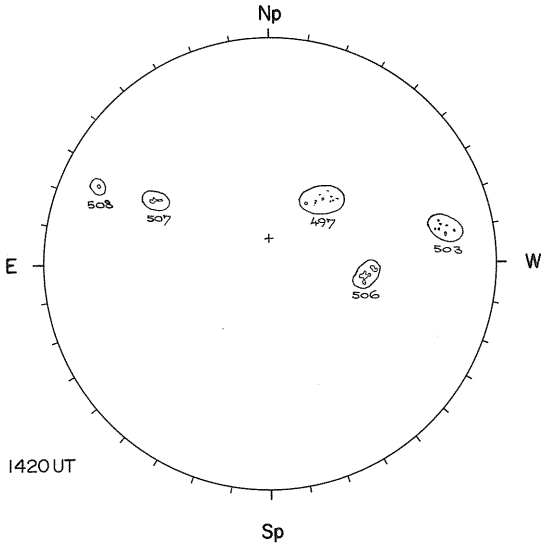
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Intensities in Units of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

CALCIUM REPORT

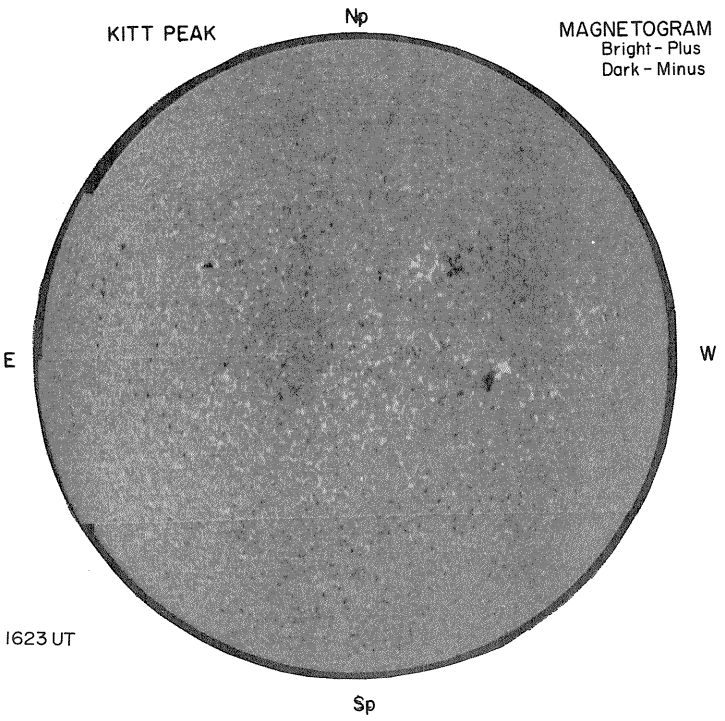


1420 UT

FAIR | M

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

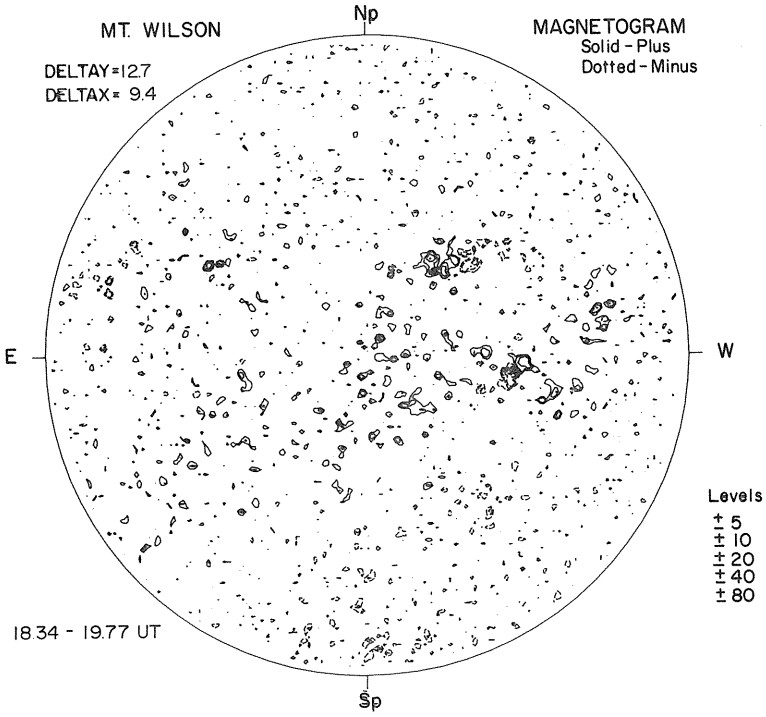


1623 UT

MT. WILSON

DELTAY = 12.7
DELTAX = 9.4

MAGNETOGRAM
Solid - Plus
Dotted - Minus

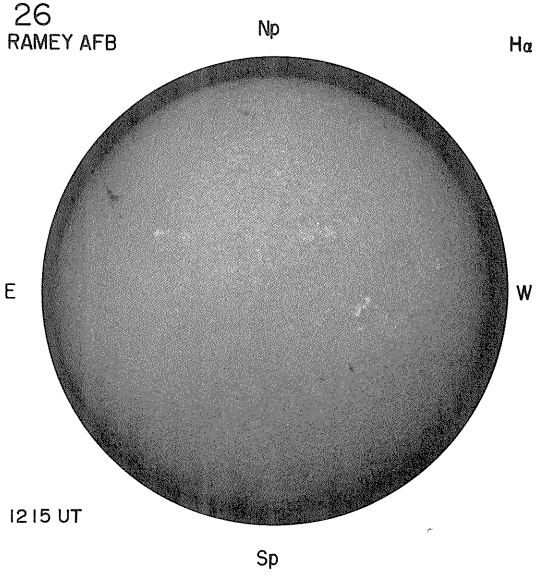


Levels
± 5
± 10
± 20
± 40
± 80

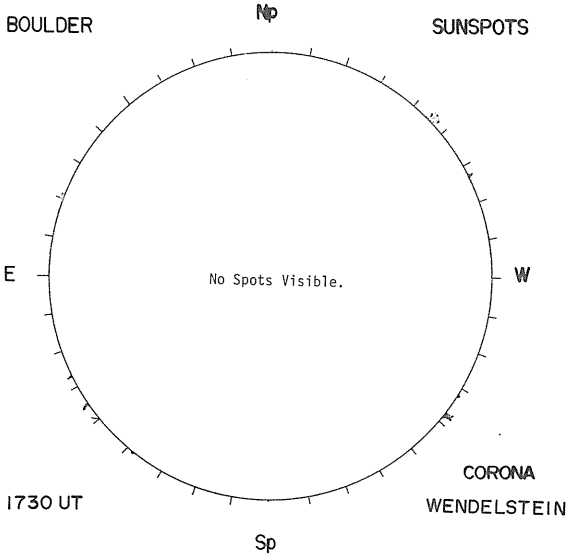
18.34 - 19.77 UT

26

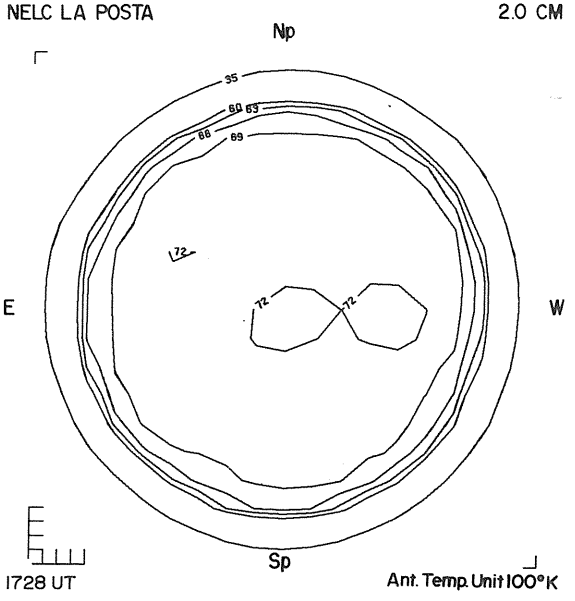
RAMEY AFB



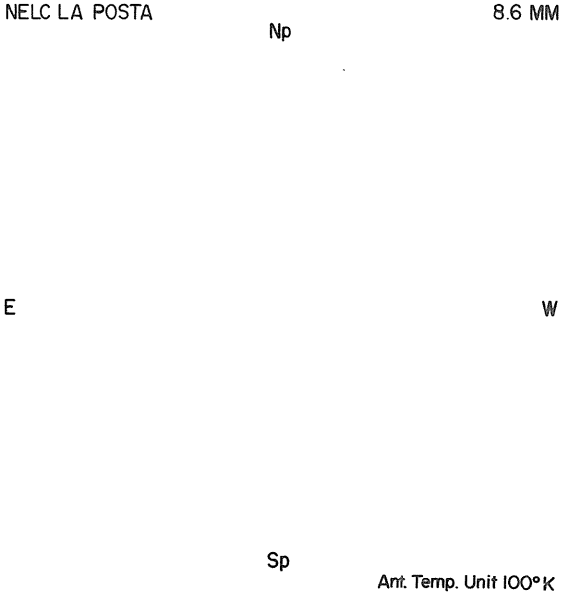
BOULDER



NELC LA POSTA



NELC LA POSTA



77
Feb 75

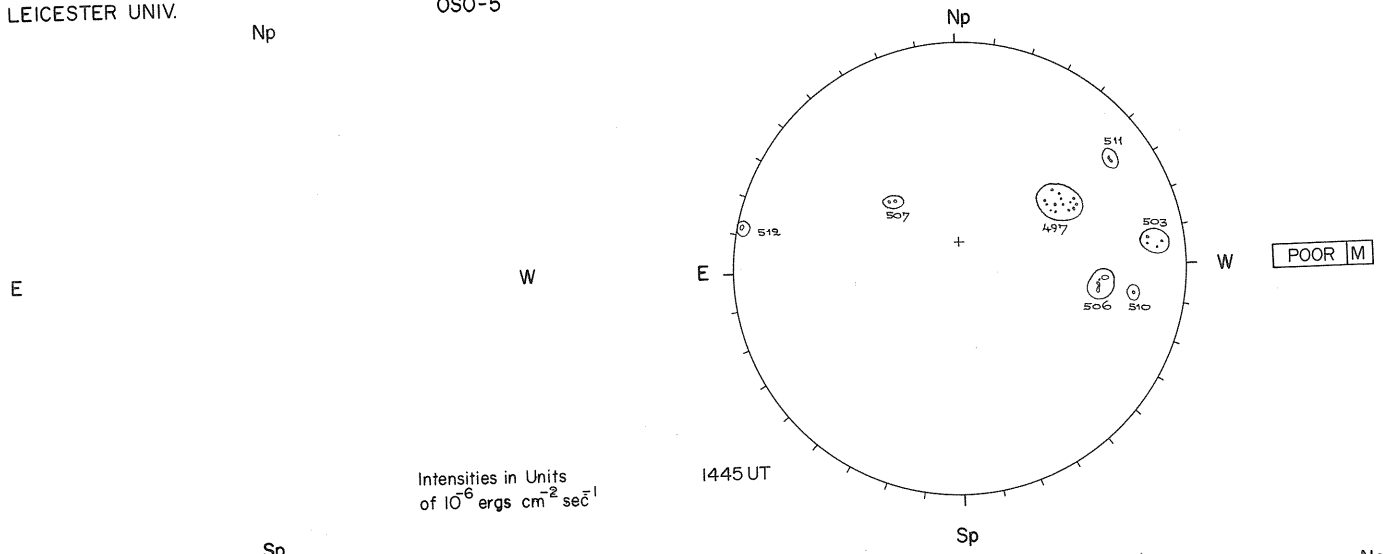
FEBRUARY 27, 1975 (P=-20.90, B_o=-7.19, L_o=255.61)

UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

McMATH-HULBERT

CALCIUM REPORT



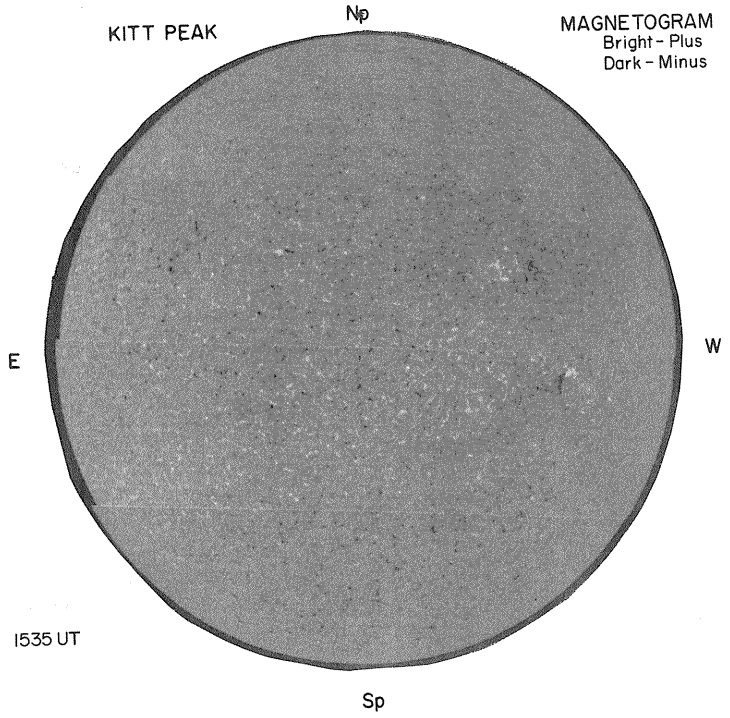
POOR M

1445 UT

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

KITT PEAK

MAGNETOGRAM
Bright - Plus
Dark - Minus

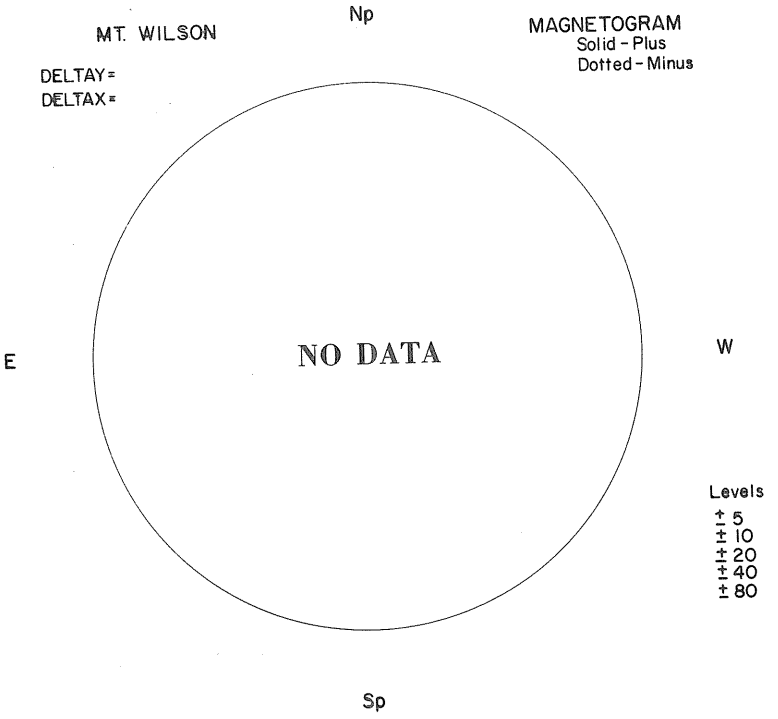


1535 UT

MT. WILSON

DELTAY=
DELTAX=

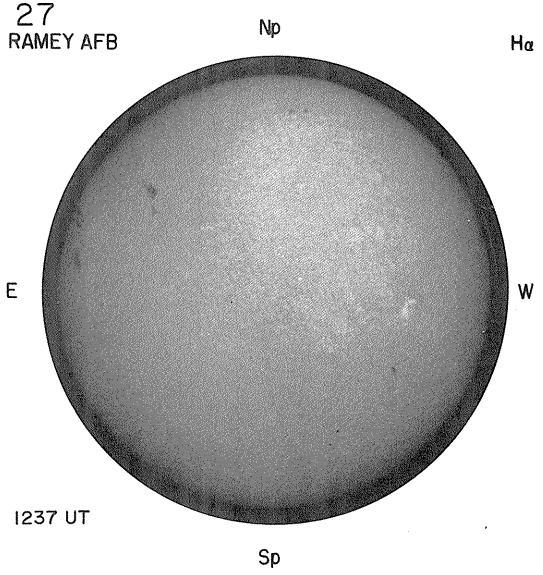
MAGNETOGRAM
Solid - Plus
Dotted - Minus



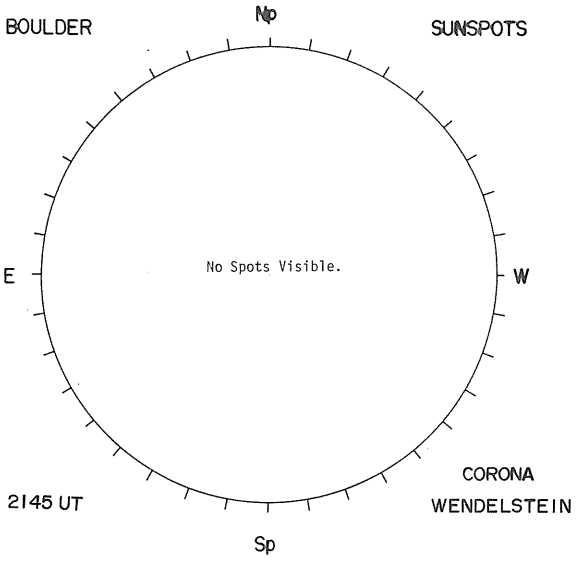
Levels
± 5
± 10
± 20
± 40
± 80

27

RAMEY AFB

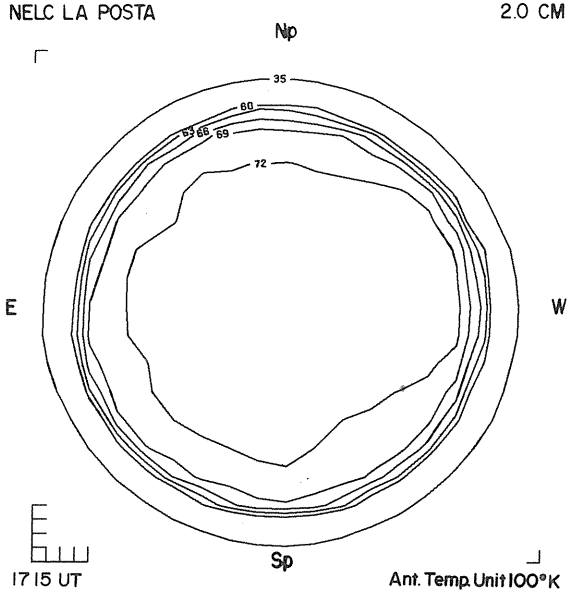


BOULDER



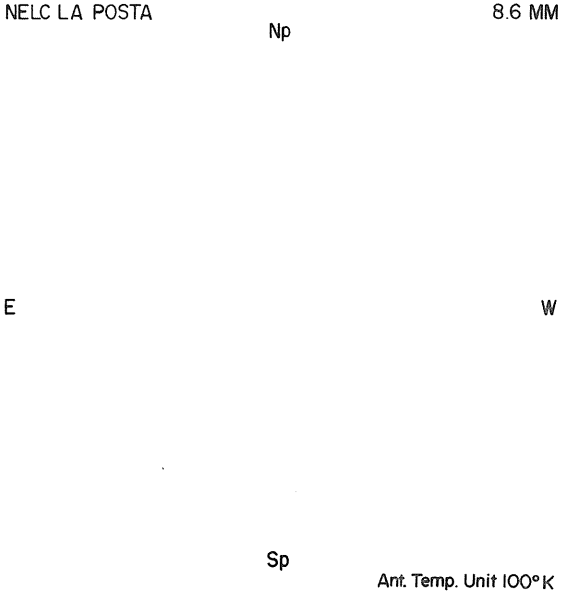
NELC LA POSTA

2.0 CM



NELC LA POSTA

8.6 MM



79

Feb 75

FEBRUARY 28, 1975 (P=-21.16, B_o=-7.20, L_o=242.44)

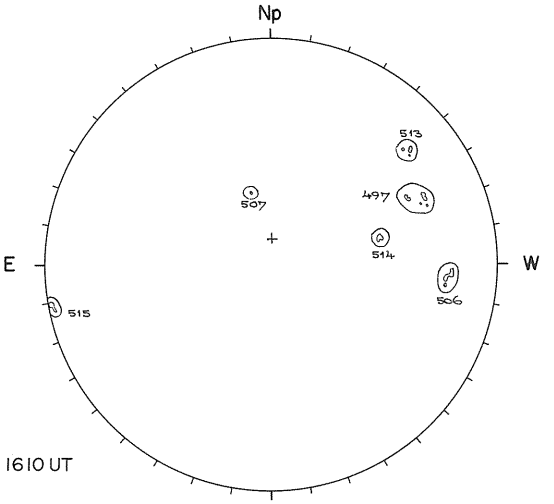
UNIV. COLLEGE LONDON
LEICESTER UNIV.

X-RAY
OSO-5

Np
E
W
Sp

Intensities in Units
of 10^{-6} ergs cm^{-2} sec^{-1}

McMATH-HULBERT

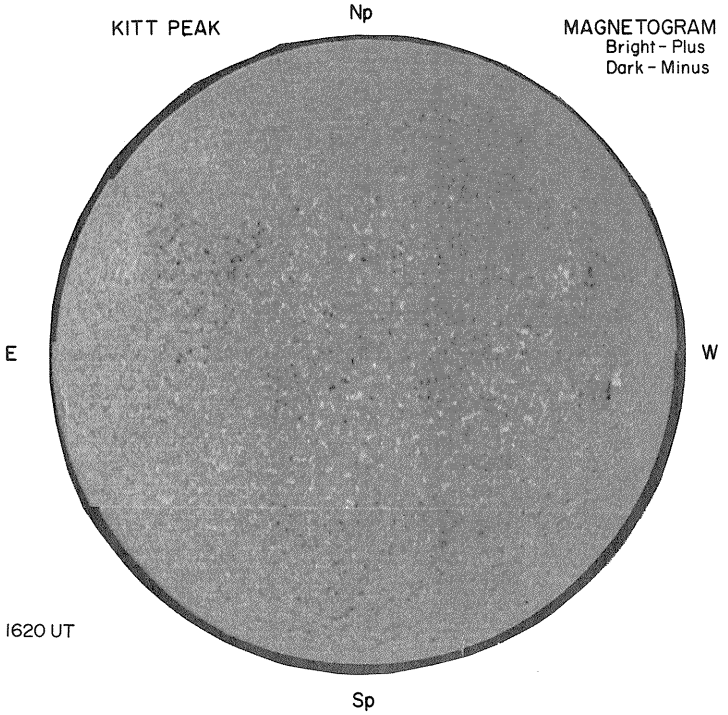


1610 UT

CALCIUM REPORT

FAIR | D

KITT PEAK

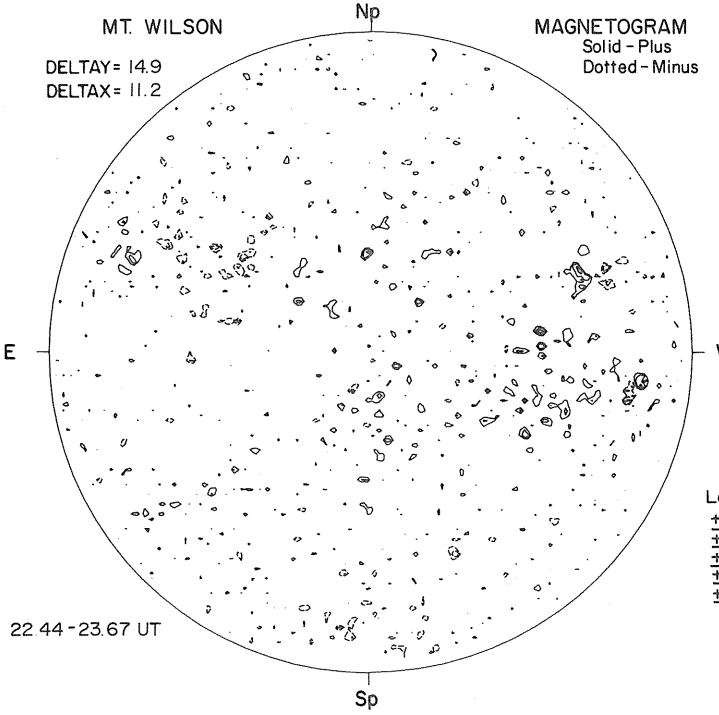


MAGNETOGRAM
Bright - Plus
Dark - Minus

1620 UT

MT. WILSON

DELTAY= 14.9
DELTAX= 11.2

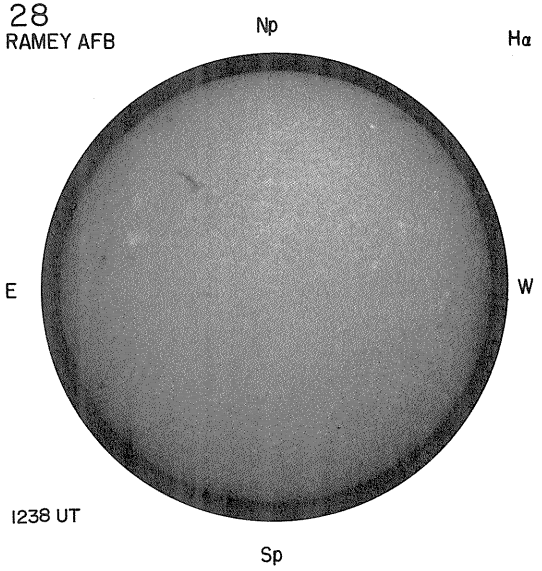


MAGNETOGRAM
Solid - Plus
Dotted - Minus

Levels
± 5
± 10
± 20
± 40
± 80

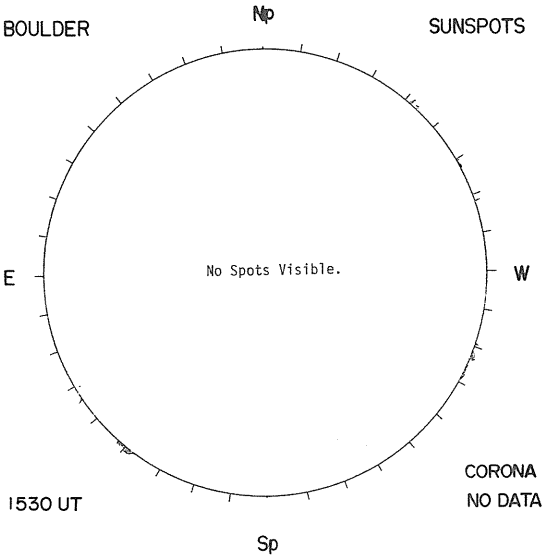
22.44 - 23.67 UT

28
RAMEY AFB



1238 UT

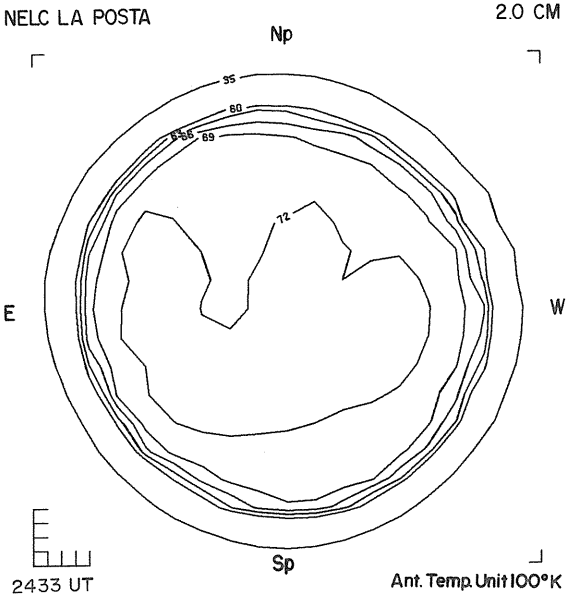
BOULDER



1530 UT

CORONA
NO DATA

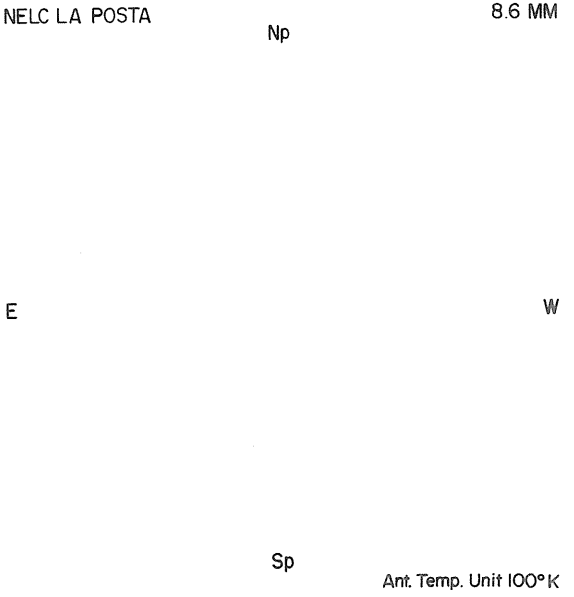
NELC LA POSTA



2433 UT

Ant. Temp. Unit 100°K

NELC LA POSTA



Ant. Temp. Unit 100°K

REGIONS OF SOLAR ACTIVITY

FEBRUARY 1975

MCMATH REGION 13453 CMP DATE 1.7

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	26	13453	S08 E82	224	300	1.5									
75	1	27	13453	S08 E67	226	300	1.5									
75	1	28	13453	S09 E53	228	100	1.0									

MCMATH REGION 13464 CMP DATE 1.8

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	1	13464	S15 E02	227	100	1.0									
75	2	2	13464	S14 W10	225	200	1.0									

MCMATH REGION 13459 CMP DATE 3.5 RETURN OF REGION 13409 ROTATION 2

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	28	13459	N07 E82	199	800	2.0									
75	1	30	13459	N07 E55	200	800	2.0									
75	1	31	13459	N07 E42	199	700	2.0		N07 E48			M	0	1	AXX	
75	2	1	13459	N06 E27	202	900	2.5									
75	2	2	13459	N06 E14	201	700	2.5									
75	2	3	13459	N06 W02	204	800	2.0									
75	2	6	13459	N06 W45	206	300	1.0									
75	2	7	13459	N07 W56	206	300	1.0									
75	2	8	13459	N07 W72	207	200	1.0									

MCMATH REGION 13466 CMP DATE 4.5

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	1	13466	S48 E38	191	100	1.0									

MCMATH REGION 13463 CMP DATE 5.2 RETURN OF REGION 13411 ROTATION 3

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	1	30	13463	N15 E73	182	600	1.0									
75	1	31	13463	N15 E60	181	500	1.0									
75	2	1	13463	N15 E46	183	800	1.5									
75	2	2	13463	N14 E36	179	700	1.5									
75	2	3	13463	N15 E20	182	800	1.5									
75	2	6	13463	N15 W21	182	700	1.0									
75	2	7	13463	N15 W32	182	700	1.0									
75	2	8	13463	N15 W47	182	600	1.0									
75	2	9	13463	N15 W58	181	800	1.0									
75	2	10	13463	N14 W72	181	600	1.0									
75	2	11	13463	N13 W85	182	300	1.0									

MCMATH REGION 13473 CMP DATE 5.3

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	8	13473	S02 W45	180	100	1.5									
75	2	9	13473	S02 W58	181	200	2.0									
75	2	10	13473	S02 W72	181	200	1.5									

MCMATH REGION 13484 CMP DATE 7.5

				CALCIUM PLAGE DATA				SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	12	13484	N13 W68	151	100	1.0									

REGIONS OF SOLAR ACTIVITY

FEBRUARY 1975

MCMATH REGION 13465 CMP DATE 7.7

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	1	13465	S10 E87	142	900	2.5									
75	2	2	13465	S10 E68	147	1600	3.5	19545	S13 E58	156	BF		B	30	9	BXO
75	2								S10 E71				B	10	4	BXO
75	2	3	13465	S10 E56	146	2000	3.5		S10 E53				B	10	2	AXX
75	2								S11 E60				B	10	8	BXX
75	2								S13 E47				B	40	13	CRI
75	2	4							S11 E38				R	10	3	AXX
75	2								S12 E32				R	30	2	HSX
75	2	5						19545	S13 E19	157	(BP)	4	R	20	1	HSX
75	2								S11 E23				R	0	1	AXX
75	2	6	13465	S10 E12	149	1700	2.5	19545	S13 E02	156	BP		B	10	1	AXX
75	2								S10 E09				B	10	2	BXO
75	2	7	13465	S11 E01	149	1300	2.5	19545	S12 W06	153	(AF)	1	B	10	1	AXX
75	2	8	13465	S11 W13	148	1200	2.5	19545	S13 W23	158	(AP)	1				
75	2							19548	S10 W13	148	(AP)	2				
75	2							19549	S08 W12	147	(AP)	1				
75	2	9	13465	S11 W25	148	1200	2.5									
75	2	10	13465	S11 W40	149	1300	2.5									
75	2	11	13465	S12 W53	150	1300	2.0									
75	2	12	13465	S12 W65	148	1300	2.0	19549	S08 W70	149	A					
75	2	13	13465	S12 W77	148	1000	1.5									
75	2	14	13465	S12 W90	147	300	1.0									

MCMATH REGION 13468 CMP DATE 7.9

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	3	13468	N23 E56	146	200	1.0									

MCMATH REGION 13472 CMP DATE 8.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	7	13472	N39 E10	140	100	1.0									

MCMATH REGION 13481 CMP DATE 9.1

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	11	13481	N13 W34	131	100	1.0									

MCMATH REGION 13490 CMP DATE 9.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	13	13490	N39 W55	126	100	1.0									
75	2	14	13490	N39 W68	125	100	1.0									

MCMATH REGION 13470 CMP DATE 9.5

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	3	13470	N03 E88	114	400	1.5									
75	2	5						19546	N02 E53	123	(BP)	3	R	30	2	CSO
75	2	6	13470	N03 E38	123	600	3.0	19546	N02 E33	125	BP		B	50	9	DSO
75	2	7	13470	N03 E27	123	1100	3.5	19546	N02 E23	124	(BP)	5	B	190	6	DAO
75	2	8	13470	N03 E12	123	900	3.0	19546	N03 E11	124	(BP)	5	R	130	7	DAO
75	2	9	13470	N04 E00	123	1500	3.0		N04 W02				B	180	9	ESO
75	2	10	13470	N03 W16	125	1600	3.0	19546	N02 W16	122	BP		B	140	28	CSO
75	2	11	13470	N03 W28	125	1600	2.5	19546	N02 W30	126	(BP)	5	B	90	9	CSO
75	2	12	13470	N03 W42	125	1600	3.0	19546	N03 W48	127	(BP		B	100	1	HSX
75	2	13	13470	N03 W55	126	1200	2.5		N03 W61				B	90	1	HSX
75	2	14	13470	N03 W68	125	1300	2.0	19546	N03 W70	127	(BP	3	R	70	1	HSX

REGIONS OF SOLAR ACTIVITY

FEBRUARY 1975

MCMATH REGION 13476 CMP DATE 9.8

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	9	13476	N26 E02	121	100	1.5									
75	2	10	13476	N26 W12	121	100	1.0									
75	2	11	13476	N27 W26	123	100	1.0									

MCMATH REGION 13469 CMP DATE 10.0

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	3	13469	S10 E85	117	400	1.5									
75	2	6	13469	S09 E41	120	300	2.0									
75	2	7	13469	S09 E31	119	300	2.0									
75	2	8	13469	S09 E17	118	300	2.0									
75	2	9	13469	S10 E05	118	400	2.0									
75	2	10	13469	S10 W10	119	400	2.0									
75	2	11	13469	S10 W24	121	300	1.5									
75	2	12	13469	S10 W37	120	300	1.5									
75	2	13	13469	S11 W50	121	200	1.0									

MCMATH REGION 13471 CMP DATE 11.3 RETURN OF REGION 13423* ROTATION 4

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	6	13471	N18 E60	101	300	1.5	19547	N18 E59	99	AF					
75	2	7	13471	N18 E49	101	600	1.5									
75	2	8	13471	N18 E36	99	500	2.0									
75	2	9	13471	N18 E22	101	500	2.5									
75	2	10	13471	N18 E08	101	500	2.5									
75	2	11	13471	N18 W05	102	500	2.0									
75	2	12	13471	N18 W19	102	500	2.0									
75	2	13	13471	N18 W32	103	500	2.0									
75	2	14	13471	N18 W45	102	700	2.0									

MCMATH REGION 13474 CMP DATE 11.3

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	8	13474	S15 E34	101	100	1.0									
75	2	9	13474	S17 E22	101	200	1.5									

MCMATH REGION 13478 CMP DATE 12.8 RETURN OF REGION 13421 ROTATION 2

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	7	13478	S10 E72	78	200	1.0									
75	2	8	13478	S10 E58	77	200	1.0									
75	2	9	13478	S11 E43	80	200	1.5									
75	2	10	13478	S10 E28	81	200	1.5									
75	2	11	13478	S10 E15	82	200	1.5									
75	2	12	13478	S09 E02	81	200	1.0									
75	2	13	13478	S09 W11	82	200	1.0									
75	2	14	13478	S10 W25	82	100	1.0									

MCMATH REGION 13485 CMP DATE 13.4

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	12	13485	N10 E10	73	400	1.0									
75	2	13	13485	N10 E02	69	300	1.0									
75	2	14	13485	N10 W12	69	200	1.0									

*An asterisk beside the "Return of Region" number indicates that the new region is only part of the area of the old region.

REGIONS OF SOLAR ACTIVITY

FEBRUARY 1975

MCMATH REGION 13493 CMP DATE 13.7

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	14	13493	N22 W13	70	100	1.0									

MCMATH REGION 13475 CMP DATE 14.1

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	8	13475	S11 E75	60	200	2.5									
75	2	9	13475	S11 E61	62	200	2.5									
75	2	10	13475	S12 E45	64	100	1.0									

MCMATH REGION 13479 CMP DATE 14.3

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	9	13479	N11 E56	67	200	1.5									
75	2	10	13479	N12 E42	67	500	1.0									
75	2	11	13479	N13 E35	62	600	1.0									
75	2	12	13479	N14 E22	61	400	1.0									

MCMATH REGION 13482 CMP DATE 15.0

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	11	13482	N01 E45	52	100	1.0									
75	2	12	13482	N01 E31	52	300	1.0									
75	2	13	13482	N01 E19	52	100	1.0									

MCMATH REGION 13480 CMP DATE 15.1

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	10	13480	N09 E58	51	200	1.0									

MCMATH REGION 13491 CMP DATE 15.1

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	13	13491	S20 E20	51	200	2.0									

MCMATH REGION 13494 CMP DATE 15.5

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	16						19550	N12 W12	43	(B)	1	R	10	6	BXO
75	2	19	13494	N13 W55	45	200	2.0									
75	2	20	13494	N13 W68	47	300	2.5									
75	2	21	13494	N13 W84	50	100	1.0									

MCMATH REGION 13492 CMP DATE 16.2

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	13	13492	N11 E34	37	100	1.0									
75	2	14	13492	N11 E20	37	100	1.0									

REGIONS OF SOLAR ACTIVITY

FEBRUARY 1975

MCMATH REGION 13483 CMP DATE 16.7

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT CLASS
75	2	11	13483	N15 E66	31	100	1.0								
75	2	12	13483	N15 E54	29	200	1.0								

MCMATH REGION 13495 CMP DATE 17.0

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT CLASS
75	2	19	13495	N17 W35	25	100	1.5								
75	2	20	13495	N17 W47	26	100	1.0								
75	2	21	13495	N17 W60	26	100	1.0								
75	2	22	13495	N17 W75	28	100	1.0								

MCMATH REGION 13486 CMP DATE 17.2

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT CLASS
75	2	12	13486	N10 E60	23	200	1.5								

MCMATH REGION 13487 CMP DATE 17.8

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT CLASS
75	2	12	13487	N08 E69	14	100	2.5								
75	2	13	13487	N08 E55	16	100	1.0								

MCMATH REGION 13488 CMP DATE 18.4

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT CLASS
75	2	12	13488	N05 E70	13	500	2.0								
75	2	13	13488	N04 E63	8	200	1.0								
75	2	14	13488	N03 E49	8	100	1.0								

MCMATH REGION 13489 CMP DATE 18.7

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT CLASS
75	2	12	13489	S26 E80	3	300	1.0								

MCMATH REGION 13501 CMP DATE 19.1

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT CLASS
75	2	22	13501	N06 W46	359	100	1.5								

MCMATH REGION 13502 CMP DATE 20.2

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT CLASS
75	2	22	13502	S50 W32	345	100	1.0								

REGIONS OF SOLAR ACTIVITY

FEBRUARY 1975

MCMATH REGION 13499 CMP DATE 20.6

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	20	13499	N09 W01	340	100	2.0	19551	N10 W01	340	BF)	2	B	10	1	AXX
75	2	21	13499	N10 W14	340	200	1.5									
75	2	22	13499	N10 W27	340	200	1.5									
75	2	24	13499	N08 W55	341	200	1.0									

MCMATH REGION 13505 CMP DATE 21.8

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	24	13505	N10 W37	323	200	2.0									

MCMATH REGION 13503 CMP DATE 22.4

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	21							N00 E00				R	10	1	HRX
75	2	22	13503	N01 W02	315	100	1.5	19552	N01 W08	317	BF)	2	B	10	1	AXX
75	2	24	13503	N02 W27	313	400	1.5	19554	N04 W25	311	BF)	2	B	0	1	AXX
75	2	26	13503	N03 W52	312	300	1.0									
75	2	27	13503	N03 W63	309	200	1.0									

MCMATH REGION 13510 CMP DATE 23.7

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	27	13510	S11 W52	298	100	1.0									

MCMATH REGION 13496 CMP DATE 24.0

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	19	13496	S11 E56	294	100	1.0									
75	2	20	13496	S12 E44	295	100	1.5									

MCMATH REGION 13511 CMP DATE 24.0

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	27	13511	N24 W48	294	200	1.0									

MCMATH REGION 13506 CMP DATE 24.7

CALCIUM FLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	23						19553	S09 E09	285	(BF)	2	B	20	7	BXO
75	2	24	13506	S08 E01	285	200	2.5	19553	S09 E01	285	(BF)	3	B	20	21	BXO
75	2	25						19553	S09 W12	285	(BP	3	B	10	4	AXX
75	2	26	13506	S09 W26	286	400	2.0									
75	2	27	13506	S10 W40	286	300	1.5									
75	2	28	13506	S09 W54	287	300	1.5									
75	3	1	13506	S08 W67	288	400	1.5									

MCMATH REGION 13498 CMP DATE 25.3

CALCIUM PLAGE DATA								SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	19	13498	S12 E76	274	200	1.5									
75	2	20	13498	S13 E62	277	200	1.0									

REGIONS OF SOLAR ACTIVITY

FEBRUARY 1975

MCMATH REGION 13513 CMP DATE 25.4

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	28	13513	N24 W43	276	200	1.0									

MCMATH REGION 13516 CMP DATE 25.5

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	3	1	13516	S02 W57	278	200	1.5									
75	3	2	13516	S05 W70	274	200	1.0									

MCMATH REGION 13497 CMP DATE 25.5

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	19	13497	N12 E84	266	300	1.0									
75	2	20	13497	N12 E68	271	400	2.0									
75	2	21	13497	N11 E55	271	400	1.5									
75	2	22	13497	N10 E42	271	400	1.5									
75	2	24	13497	N10 E12	274	400	1.5									
75	2	26	13497	N10 W14	274	200	1.0									
75	2	27	13497	N10 W27	273	200	1.0									
75	2	28	13497	N11 W42	275	300	1.0									
75	3	1	13497	N11 W55	276	300	1.0									
75	3	2	13497	N10 W68	272	300	1.0									

MCMATH REGION 13514 CMP DATE 26.5

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	26							N00 E00				M	10	1	AXX
75	2	28	13514	N01 W29	262	200	1.5									
75	3	1	13514	S01 W42	263	200	1.0									
75	3	2	13514	S02 W56	260	200	1.0									

MCMATH REGION 13500 CMP DATE 27.0

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	20	13500	N10 E90	249	200	1.0									
75	2	21	13500	N09 E69	257	200	1.0									
75	2	22	13500	N09 E58	255	100	1.0									

MCMATH REGION 13504 CMP DATE 27.1

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	2	22	13504	N02 E59	254	100	1.0									

MCMATH REGION 13523 CMP DATE 28.6

CALCIUM PLAGE DATA								SUNSPOT DATA							
YR	MO	DA	MC NO.	LAT CMD	L	AREA	INT	MW NO.	LAT CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	3	4	13523	N03 W53	234	100	1.0									

REGIONS OF SOLAR ACTIVITY

FEBRUARY 1975

MCMATH REGION 13517 CMP DATE 28.7

				CALCIUM PLAGE DATA					SUNSPOT DATA								
YR	MO	DA	MC NO.	LAT	CMD	L	AREA	INT	MW NO.	LAT	CMD	L	MAG.	H	STA	AREA	CNT	CLASS
75	3	1	13517						19555	N11	W12	232	(BP)	2	B	20	2	BXO
75	3	2	13517	N12	W28	232	500	3.0	19555	N12	W31	233	(B)	3	B	50	12	CSO
75	3	3	13517	N12	W40	233	1000	3.0	19555	N12	W44	233	(BF)	3	B	20	18	BXI
75	3	4	13517	N13	W54	235	1100	3.0	19555	N12	W55	235	(B)	2	B	10	2	BXO
75	3	5	13517	N14	W68	236	900	2.5		N12	W75				B	0	1	AXX

Note: No calcium spectroheliograms were secured at the McMath-Hulbert Observatory on February 4, 5, 15-18, 23 and 25, 1975.
No sunspot observations were made at Mt. Wilson Observatory on February 1, 3, 4, 9 and 13, 1975.

DAILY CALCIUM PLAGE INDEX

FEBRUARY 1975

YR	MO	DAY	INDEX	YR	MO	DAY	INDEX	YR	MO	DAY	INDEX
75	2	1	3.2	75	2	11	7.4	75	2	21	0.7
75	2	2	4.6	75	2	12	7.7	75	2	22	1.1
75	2	3	6.6	75	2	13	4.1	75	2	23	*
75	2	4	*	75	2	14	2.4	75	2	24	2.0
75	2	5	*	75	2	15	*	75	2	25	*
75	2	6	7.0	75	2	16	*	75	2	26	1.5
75	2	7	8.5	75	2	17	*	75	2	27	0.9
75	2	8	7.7	75	2	18	*	75	2	28	1.0
75	2	9	10.6	75	2	19	0.5				
75	2	10	10.1	75	2	20	1.0				

* NO OBSERVATIONS

SUDDEN IONOSPHERIC DISTURBANCES

FEBRUARY 1975

DAY	UNIVERSAL TIME START	END	MAX	IMP	WIDE SPREAD INDEX	NUMBER OF STATION REPORTS BY TYPE SWF	SCNA	SEA	SPA	LF-SPA	SES	SFD	KNOWN FLARE	McMATH REGION
05	1755	1830	1800	1-	5	1			1		9		1753	13470
05	1913	1945	1919	1-	5	2		1	2	1	10		1911	13470
07	0211	0235	0218	1-	1				1				0213E	13470
07	1449	1515	1450	1-	1					1			1452	13470
07	1602	1612	1604	1-	1				1				*	
07	1744	1757	1753	1-	1	1							*	
11	2300	2330	2305	1-	1				1				*	
14	1705	1715	1710	1-	1	1							*	

PERIODS OF NO OBSERVATIONS:

DATE	TIME (UT) and STATION
01-10	0000-2400 A28
01-02	0000-2400 A30
03	0000-2400 A41, 2330-2334 TM
04	0000-2400 A41, 0000-2400 TN, 1004-1327 UM (16 kHz)
05-10	0000-2400 A36
05	1632-1640 TM
07-09	0000-2400 A41
07	1400-1737 UM (17 kHz)
09	1015-2400 A35, 1358-1440 TM
10-13	0000-2400 A29
10	0000-1545 A35, 0444-0530 TM
11	1005-1344 UM (16 kHz), 1627-1952 MC
13-28	0000-2400 A41
13	1550-1913 UM (13 kHz)
14	1410-1708 UM (17 kHz), 1420-2231 UM (13 kHz)
15	1544-2020 UM (13 kHz)
18	1002-1335 UM (16 kHz)
19	0025-0215 TM
21	1406-1546 UM (17 kHz)
24	0810-0925 UM (16 kHz)
25	1008-1250 UM (16 kHz)
27	0405-1120 UM (16 kHz)
28	1820-2400 UM (13 kHz)

STATIONS REPORTING FOR FEBRUARY 1975

AAVSO (A1, A4, A19, A21, A28, A29, A30, A31, A32, A35, A36, A37, A40, A41) (SES) (A1, A26) (SEA) (A31) (SWF)
BOULDER (BO) (SCNA, SEA)
DARMSTADT (DA) (SWF)
DEBRE ZEIT (DE) (SPA)
HERSTMONCEUX (HC) (SEA)
HIRAISO (HI) (SWF)
HOBART (TA) (SEA)
HERMANUS (HS) (SEA)
HUANCAYO (HU) (SWF)
INUBO (IN) (SPA)
JOHANNESBERG (JH) (SPA)
KULA (KL) (SPA)
MCMATH (MC) (SWF, SCNA)
PANSKA VES (PU) (SWF, SEA, SES)
POITIERS (PO) (SEA)
PRESTON (LO) (SEA)
SAO PAULO (UM) (SES, SPA)
SOFIA (SF) (SEA)
ST CLOUD (SC) (SES)
TABLE MOUNTAIN (TM) (SPA, LF-SPA)
TORINO (TN) (SPA)
TORTOSA (TS) (SEA)
UPICE (UI) (SEA)

A41 is a new observer reporting for the first time from Hamilton, New York
HS is a new observer reporting for the first time from Hermanus, South Africa

SIDS BY McMATH REGION

FEBRUARY 1975

DAY	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
REGION																															
70					2		2																								
X-RAY																															
UNKNOWN																															
NO FP							2				1			1																	

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

FEBRUARY 1975

FEB 1975	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
01	0000	0746	CULG													
	0000	0030	BOUL													
	0000	0938	MANI													
	0715	1608	DURN													
	0741	1535	WEIS													
	1202	2152	SGMR													
	1400	2400	BOUL													
	1601	2346	HARV													
	2046	2400	CULG													
	2224	2400	MANI													
02	0000	0938	MANI													
	0000	0030	BOUL													
	0000	0746	CULG													
	0740	1209	WEIS													
	1201	2153	SGMR													
	1400	2400	BOUL													
	1402	2351	HARV													
	1450	1508	DURN													
	2046	2400	CULG													
	2224	2400	MANI													
03	0000	0938	MANI													
	0000	0030	BOUL													
	0000	0747	CULG													
	0713	1608	DURN													
	0740	1540	WEIS													
	1200	2154	SGMR													
	1400	2400	BOUL													
	1402	2346	HARV													
	2047	2400	CULG													
	2224	2400	MANI													
04	0000	0939	MANI													
	0000	0030	BOUL													
	0000	0746	CULG													
	0712	1608	DURN													
	0737	1543	WEIS													
	1159	2156	SGMR													
	1400	2100	BOUL													
	1402	2346	HARV													
	2046	2400	CULG													
	2224	2400	MANI													
05	0000	0939	MANI													
	0000	0030	BOUL													
	0000	0746	CULG													
	1214	1543	WEIS													
	0738	1200	WEIS							1354.3	1354.8	2				IIIG
	0711	1604	DURN				1354.4	1354.7	3	1354.2	1354.7	3				IIIG
	1158	2157	SGMR										1354.5	1354.9	2	III
	1400	2400	BOUL							1536.4	1537.3	2	1536.4	1537.3	2	IIIG
			SGMR										1536.5	1536.8	1	III
			BOUL							1757.5	1758.1	1	1757.5	1758.1	1	IIIG
			BOUL							1910.7	1914.3	2	1910.7	1914.3	2	IIIGG
	1401	2346	HARV							1911	1914	2	1911	1914	2	IIIGG
			SGMR										1912.1	1914.2	1	V
			HARV							1917	1920	3	1918	1920	3	IIIGG
			BOUL							1917.2	1919.6	2	1917.2	1919.6	2	IIIG
			SGMR										1917.9	1918.3	2	III
			BOUL							2024.9	2025.0	1	2024.9	2025.0	1	III
	2046	2400	CULG							2046	2400					IIIN,W
	2224	2400	MANI													
06	0000	0939	MANI													
	0000	0030	BOUL													
	0000	0746	CULG							0000	0210					IIIN,W
	0709	1604	DURN													
	0734	1544	WEIS													
	1157	2158	SGMR													
	1402	2346	HARV													
	1400	2400	BOUL							2007	2323	1	2007	2323	1	CONT
	2046	2400	CULG							2046	2310					IIIS,W
			CULG							2046	2350					IS,W
	2224	2400	MANI													
			CULG							2310	2400					IIIN,W
07	0000	0939	MANI													
	0000	0030	BOUL													
	0000	0733	CULG							0000	0733					IIIN,W
			CULG							0043	0045					IIIG
	0735	1535	WEIS													
	1155	2200	SGMR													
	0707	1605	DURN							1220	1605 D	2				IN
	1402	2346	HARV							1402	2338	1				IN
			CULG							2046	2400					IIIN,W
	2046	2400	CULG							2046	2400					IS
			CULG							2047.5						IIIB
	1400	2400	BOUL							2047.8	2048.1	1	2047.8	2048.1	1	III
	2224	2400	MANI													

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

FEBRUARY 1975

FEB 1975	TIMES OF OBSERVATION		STATION	EVENTS													SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND				
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.		
07			CULG							2354	0005						IIIGG
08			CULG							0000	0746						IIIN,W
	0000	0746	CULG							0000	0746						IS
	0000	0030	BOUL														
	0706	1602	DURN							0706 E	1602 D	2					IN
			CULG							0709		2	0709		1		IIIB
	0000	0939	MANI										0709.1	0709.3	1		III
			CULG							0710.5	0711.5	2	0711	0711.5	1		IIIG
			DURN				0911.6	0911.8	2	0911.6	0911.8	2					IIIG
			DURN				0943.5	0943.6	2	0943.5	0943.6	1					III
	1154	2201	SGHR														
	1400	2400	BOUL							1533.7	1534.2	1	1533.7	1534.2	1		III
	1402	2346	HARV							1534	1535	2	1534	1535	1		IIIG
			BOUL							1714.8	1714.9	1	1714.8	1714.9	1		III
			CULG							2046	2400						IS,W
	2046	2400	CULG							2046	2400						IIIN,W
			BOUL										2100	2400	1		CONT
	2223	2331	MANI														
09			CULG							0000	0040						IS,W
	0000	0746	CULG							0000	0436	1					IIIN
			CULG							0000.5	0001	2	0000.5	0001	1		IIIG
	0000	0030	BOUL							0001.0	0001.3	1	0001.0	0001.3	1		III
			CULG							0023.5	0024.5	2	0023.5	0024	1		IIIG
			CULG							0531	0531.5	1	0531	0531.5	1		IIIG
	0045	0605	MANI										0531.3	0536.1	2		IIIG
			CULG							0535	0536	2	0535	0536	2		IIIG
	0625	0939	MANI														
	0704	1602	DURN														
	1153	2202	SGHR														
	1402	2345	HARV														
	1400	2400	BOUL										1557.4	1557.6	1		III
	2046	2400	CULG							2046	2400						IIIN,W
			CULG							2105	2400						IS,W
	2223	2400	MANI														
			BOUL							2226.9	2227.1	1	2226.9	2227.1	1		III
10	0000	0030	BOUL														
	0000	0939	MANI														
			CULG							0000	0230						IS,W
	0000	0746	CULG							0000	0430						IIIN,W
	0825	1551	WEIS														
	1152	2204	SGHR														
	0704	1602	DURN				1200	1230	2	0840	1500	2					I
	1400	2400	BOUL														
	1401	2351	HARV														
	2046	2400	CULG														
	2222	2400	MANI														
11	0000	0939	MANI														
	0000	0030	BOUL														
	0000	0746	CULG														
	0726	1553	WEIS														
	0703	1602	DURN				0740	0810	2	0759	0800	2					I
	1151	2205	SGHR														
			DURN							1330	1420	2					I
	1402	2346	HARV														
	1400	2200	BOUL							1652.0	1652.2	1	1652.0	1652.2	1		III
	2046	2400	CULG							2217	2317						IIIN,W
	2221	2400	MANI														
12	0000	0939	MANI														
	0000	0735	CULG							0321	0322						IIIG
	0725	1118	WEIS														
	0700	1530	DURN				1020	1530 D	2	0800	1530 D	2					IN
	1124	1555	WEIS														
	1149	2206	SGHR														
	1400	2400	BOUL														
	1402	2346	HARV							1402 E	1415	1					IN
	2045	2400	CULG														
	2221	2400	MANI														
13	0000	0939	MANI														
	0000	0030	BOUL														
	0000	0746	CULG														
	0658	1417	DURN														
	0721	1557	WEIS														
	1148	2208	SGHR														
	1402	2346	HARV														
	1400	2400	BOUL										1739.0	1739.1	1		III
	2046	2400	CULG														
	2221	2400	MANI														
14	0000	0940	MANI														
	0000	0030	BOUL														
	0000	0746	CULG														
	0655	1602	DURN														
	0722	1411	WEIS														
	1147	2209	SGHR														

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

FEBRUARY 1975

FEB 1975	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
14	1400	2400	BOUL													
	1402	2346	HARV													
	2046	2400	CULG													
	2220	2400	MANI													
15	0000	0941	MANI													
	0000	0030	BOUL													
	0000	0746	CULG													
	0655	1602	DURN													
	1145	2210	SGMR													
	1401	2346	HARV													
	2046	2400	CULG													
	2220	2400	MANI													
16	0000	0942	MANI													
	0000	0746	CULG													
	0653	1527	DURN													
	0716	1601	WEIS													
	1144	2212	SGMR													
	1402	2346	HARV													
	1542	1602	DURN													
	2046	2400	CULG													
	2219	2400	MANI													
17	0000	0943	MANI													
	0000	0739	CULG													
	0652	1602	DURN													
	0717	1603	WEIS							0837.6	0838.0	1				IIIB
	1142	2213	SGMR													
	1402	2346	HARV													
	2022	2400	BOUL													
	2145	2400	CULG													
	2219	2313	MANI													
	2353	2400	MANI													
18	0000	0943	MANI													
	0000	0100	BOUL													
	0000	0746	CULG													
	0650	1602	DURN													
	0715	0810	WEIS													
	0815	1608	WEIS													
	1141	2214	SGMR													
	1400	2300	BOUL													
	1402	2346	HARV													
	2000	2400	CULG													
	2219	2400	MANI													
19	0000	0943	MANI													
	0000	0741	CULG													
	0648	1053	DURN													
	0710	1508	WEIS													
	1137	1410	DURN													
	1139	2216	SGMR													
	1330	2400	BOUL													
	1402	2346	HARV													
	2046	2400	CULG													
	2218	2400	MANI													
20	0000	0943	MANI													
	0000	0100	BOUL													
	0000	0746	CULG													
	0715	1003	WEIS													
	1007	1610	WEIS													
	1138	2217	SGMR													
	1330	2400	BOUL													
	1345	2346	HARV													
	2046	2400	CULG													
	2218	2400	MANI													
21	0000	0154	MANI													
	0000	0100	BOUL													
	0000	0746	CULG													
	0300	0943	MANI													
	0709	1610	WEIS													
	1045	1634	DURN													
	1136	2218	SGMR													
	1346	2346	HARV													
	1540	2400	BOUL													
	2046	2400	CULG													
	2218	2400	MANI													
22	0000	0943	MANI													
	0000	0100	BOUL													
	0000	0746	CULG													
	0646	1635	DURN													
	0710	1120	WEIS													
	1136	2219	SGMR													
	1143	1612	WEIS													
	1346	2346	HARV													
	1900	2400	BOUL													

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

FEBRUARY 1975

FEB 1975	TIMES OF OBSERVATION		STATION	EVENTS													SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND				
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.		
22	2149	2400	CULG														
	2217	2400	MANI														
23	0000	0940	MANI														
	0000	0100	BOUL														
	0000	0745	CULG														
	0644	1443	DURN														
	0709	1612	WEIS														
	1133	2221	SGMR														
	1346	2251	HARV														
	1456	1635	DURN														
	1900	2400	BOUL														
	2045	2400	CULG														
	2216	2400	MANI														
24	0000	0940	MANI														
	0000	0100	BOUL														
	0000	0745	CULG														
	0642	1635	DURN														
	0710	1311	WEIS														
	1132	2222	SGMR														
	1314	1616	WEIS														
	1330	2400	BOUL														
	1346	2246	HARV														
	2045	2400	CULG														
	2216	2400	MANI														
25	0000	0940	MANI														
	0000	0100	BOUL														
	0000	0745	CULG														
	0640	1635	DURN														
	0701	1617	WEIS														
	1130	2223	SGMR														
	1330	2400	BOUL														
	1345	2246	HARV														
	2100	2400	CULG														
	2215	2400	MANI														
26	0000	0940	MANI														
	0000	0100	BOUL														
	0000	0745	CULG														
	0639	1636	DURN														
	0701	1425	WEIS														
	1129	2224	SGMR														
	1330	2400	BOUL														
	1346	2246	HARV														
	1430	1624	WEIS														
	2045	2400	CULG														
	2214	2400	MANI														
27	0000	0941	MANI														
	0000	0100	BOUL														
	0000	0745	CULG														
	0658	1625	WEIS							0830.6	0832.6	2					IIIG
	0637	1636	DURN							0831.2	0832.5	3					IIIGG
	1127	2226	SGMR														
	1330	2400	BOUL														
	1346	2246	HARV														
	2045	2059	CULG														
	2112	2400	CULG														
	2214	2400	MANI														
28	0000	0941	MANI														
	0000	0100	BOUL														
	0000	0745	CULG														
	0637	1636	DURN														
	0658	1053	WEIS														
	1110	1620	WEIS														
	1125	2227	SGMR														
	1330	2400	BOUL														
	1345	2246	HARV														
	2045	2400	CULG														

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

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

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

SELECTED SOLAR EVENTS

FEBRUARY 1975

Culgoora

UT Date 1975 FEBRUARY	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions		Polar-ization	Inten-sity (1-3)		
				Central Dist. ($R_\odot$)	Position Angle (Deg.)				
7/8	2300	0500	160	0.7	70	L	2)	I	
			80	0.7	60	L	1)		
9	0021	0024	160	0.3	45	0	1)	III^G	*
			80	0.5	30	0	2)		
			43.25	0.7	45	-	2)		

Days without Heliograph observations: Nil

* Other type IIIs observed at same position during day.

COSMIC RAY INDICES
(Neutron Monitors)
FEBRUARY 1975

FEB 1975	THULE Average cts/hr	ALERT Average cts/hr	DEEP RIVER Average cts/hr	CALGARY Average cts/hr	SULPHUR MT Average cts/hr	KIEL Average cts/hr	CLIMAX Average cts/hr	TOKYO Average cts/hr
1	4533.3	7444.8	6955.4	11824.4	8868.4	6270.2	4223.0	3558.8
2	4524.7	7434.0	6952.3	11799.6	8832.9	6245.2	4198.3	3555.3
3	4530.2	7446.7	6968.3	11831.1	8835.4	6255.1	4206.9	3553.4
4	4501.4	7397.3	6931.7	11809.6	8809.2	6224.4	4194.4	3525.5
5	4478.2	7381.5	6908.9	11746.4	8752.9	6213.2	4180.1	3529.0
6	4502.6	7411.6	6947.9	11770.5	8785.2	6237.7	4185.8	3531.9
7	4511.5	7429.1	6981.0	11839.7	8860.2	6264.2	4211.7	3540.1
8	4515.9	7423.5	6997.8	11891.2	8874.5	6261.2	4217.4	3551.2
9	4524.0	7451.9	7017.3	11895.5	8904.4	6297.0	4237.7	3556.8
10	4496.7	7417.6	6952.3	11799.0	8843.9	6268.3	4199.5	3561.8
11	4504.2	7428.5	6929.6	11773.6	8801.2	6267.3	4190.0	3556.7
12	4460.5	7369.5	6900.2	11709.2	8750.0	6240.5	4156.5	3554.0
13	4474.4	7385.1	6935.7	11723.1	8790.7	6267.0	4166.9	3547.3
14	4495.3	7413.9	6932.6	11819.1	8809.4	6294.4	4194.8	3556.1
15	4514.7	7447.6	6929.0	11791.0	8784.9	6282.4	4203.5	3564.9
16	4516.0	7453.0	6921.3	11827.2	8816.0	6259.6	4214.4	3562.7
17	4517.0	7451.3	6918.3	11879.4	8823.0	6265.2	4223.7	3566.4
18	4526.0	7436.2	6921.9	11878.7	8847.1	6276.3	4224.3	3570.8
19	4541.5	7472.3	6960.2	11893.5	8863.8	6296.9	4230.5	3573.2
20	4533.2	7443.9	6976.6	11855.4	8908.5	6283.7	4226.1	3569.4(21)
21	4538.6	7467.7	6979.2	11902.9	8822.6	6284.6	4244.7	3544.4(17)
22	4519.4	7452.3	6943.8	11891.4	8799.6	6272.5	4216.5	3561.2
23	4498.3	7425.6	6915.1	11810.3	8782.9	6266.4	4198.8	3570.5
24	4491.9	7404.8	6906.0	11792.9	8780.0	6248.2	4185.6	3558.4
25	4511.8	7432.4	6966.1	11802.9	8837.4	6260.8	4205.7	3553.7
26	4524.2	7459.5	6994.1	11852.2	8877.2	6276.3	4216.9	3552.4
27	4521.8	7445.9	6998.0	11899.4	8905.2	6294.7	4211.2	3555.7
28	4511.2	7448.7	6988.9	11857.5	8895.9	6297.0	4201.9	3560.3
MEAN	4511.4	7431.3	6951.0	11827.4	8830.8	6266.8	4206.0	3555.1

( ) Number of hours for which data are available if less than 24.
Asterisk indicates sum of both sections at Climax is less than 40 hours.

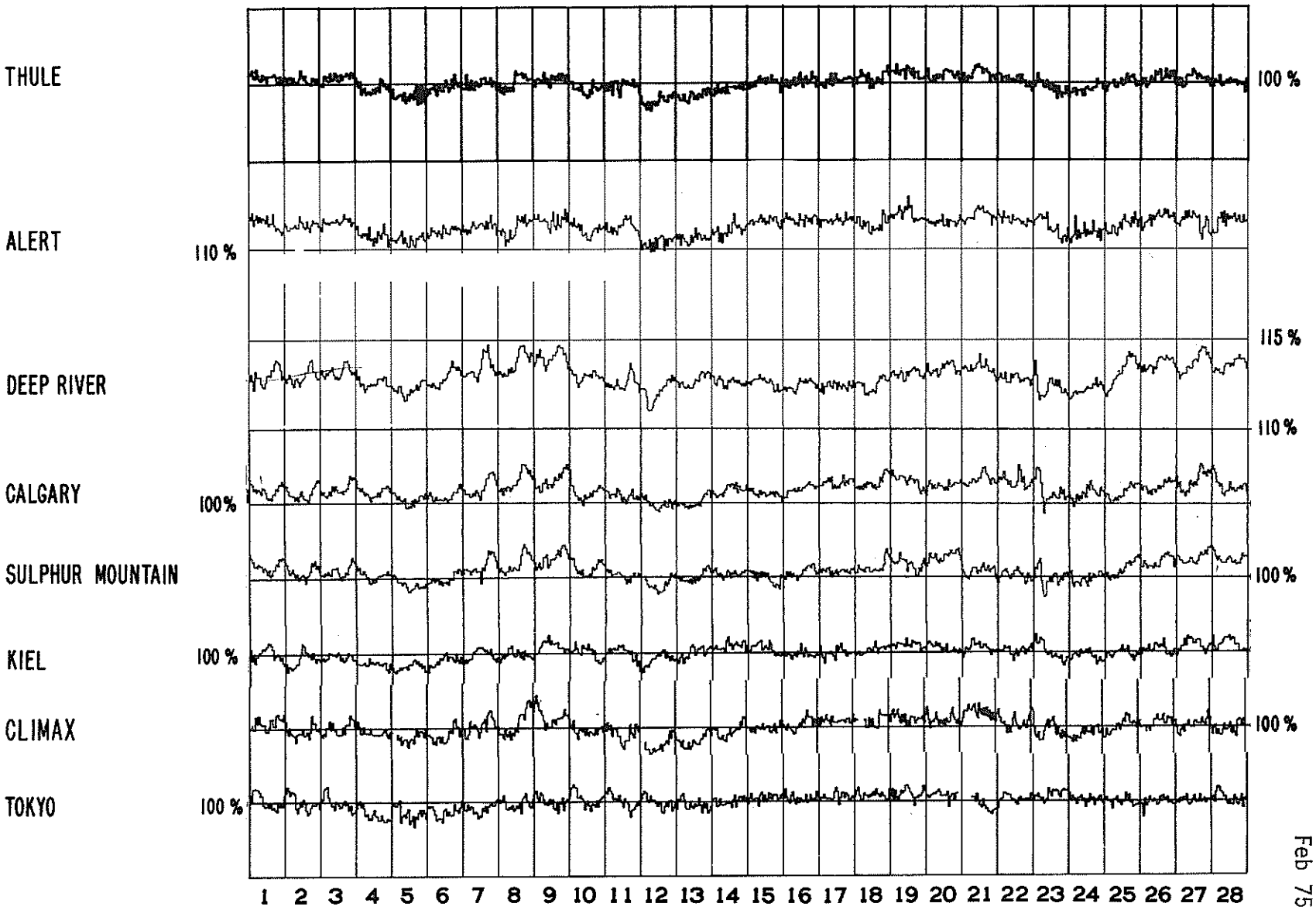
Thule, Alert, Calgary, Sulphur Mountain, Kiel and Climax Scaling Factors = 100.
Deep River Scaling Factor = 300.
Tokyo Scaling Factor = 128.

N: One section normalized by multiplicative factor.
E: One section estimated from sections ratio.

COSMIC RAY INDICES

(Neutron Monitors)

FEBRUARY 1975

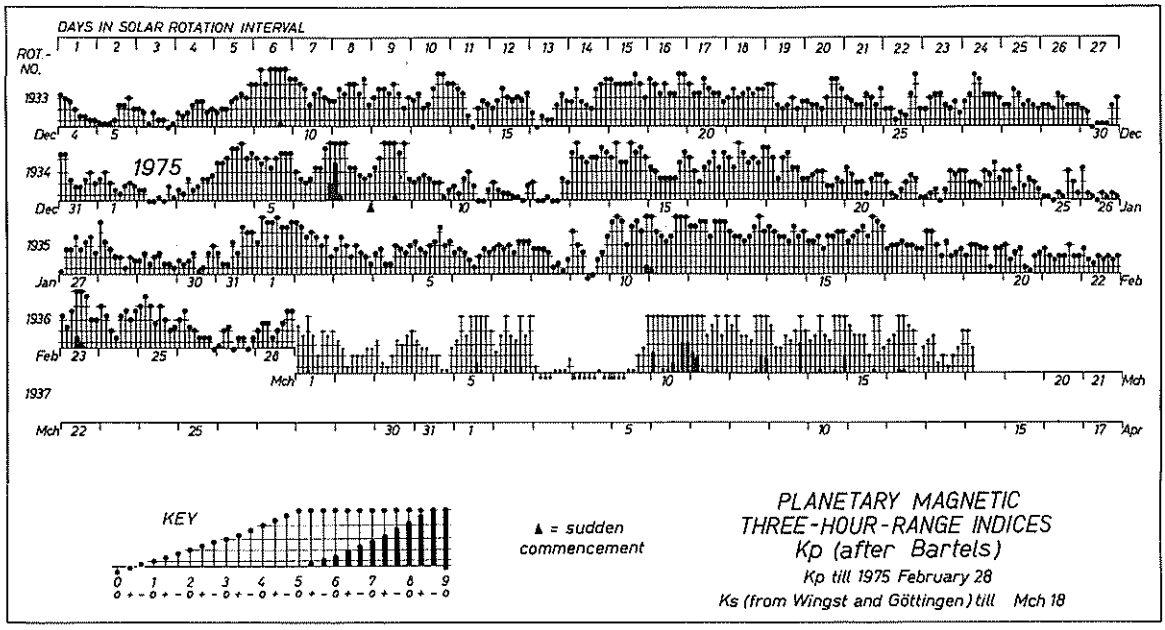


GEOMAGNETIC ACTIVITY INDICES

FEBRUARY 1975

Day	Three-Hour Range Indices Kp 1	2	3	4	5	6	7	8	Sum	Prel Ci	Cp	Ap	aa N	S	M	
1 D	3+	5	5-	5-	5	4+	4+	5-	36	1.4	1.4	37	67	49	53	63
2	5-	4+	4-	4	4-	3	4-	2	29	1.0	1.1	23	46	43	53	37
3	3-	4-	3	2	3	2+	2	1+	20	0.6	0.7	12	20	20	22	19
4 Q	2+	3-	1+	1+	3	3-	2+	3	19-	0.4	0.6	10	20	15	14	22
5	3+	3-	2+	3	3+	4+	3	3+	25+	0.9	0.9	17	35	26	22	39
6QQ	2+	3-	2+	2-	1	2	3-	2+	17	0.3	0.5	8	18	14	15	17
7	3-	3	3-	3	2+	3+	3+	3+	24-	0.8	0.8	15	27	23	21	30
8QQ	3-	3-	3-	2+	1	1+	1-	2-	15	0.3	0.4	8	17	12	19	11
9 Q	4	3	2+	0	0+	2-	2+	4-	17+	0.5	0.6	11	21	20	20	21
10 D	5-	5	5-	3	4+	5-	4	6-	36	1.4	1.4	38	58	56	40	73
11 D	5+	4	4-	3+	4-	5	5	5	35	1.5	1.4	36	69	61	39	91
12 D	4+	4+	5-	5-	4-	5-	5-	5-	36-	1.6	1.4	35	57	57	55	59
13	4	4-	4-	3+	4-	4+	5	4	32-	1.2	1.2	27	41	41	30	53
14	4+	4	4-	4-	3+	4+	4-	4	31	1.2	1.2	25	40	37	36	42
15	3+	3+	4-	3-	4-	4-	4	4	28+	1.1	1.1	21	38	29	24	43
16	3+	4-	4	4+	4-	5	5-	4+	33	1.3	1.3	30	49	39	34	54
17	3-	3	3	3+	3	3	3-	3-	23+	0.8	0.8	14	27	25	26	27
18	4	4	3	2	3+	2	2+	3-	23+	0.8	0.9	15	26	25	25	25
19 Q	2	3	3	3-	3-	1	3-	3-	20-	0.6	0.6	11	18	17	19	17
20QQ	3	2-	2+	3-	1	1-	2	2+	16-	0.5	0.4	8	15	17	19	13
21 Q	3-	2	2-	2	2	3	2	2	17+	0.5	0.5	8	16	16	14	19
22QQ	3-	2-	1+	2	2-	2	2-	2	15	0.2	0.4	7	15	13	17	12
23 D	3+	2+	4-	6	5+	5-	3	3	31+	1.4	1.3	32	49	67	65	52
24	4	3+	2	1+	3+	4-	3	4-	24+	0.9	0.9	17	30	21	20	32
25	4	5-	4	3-	4	3	2	2+	27-	1.0	1.0	20	34	33	40	28
26 Q	3	4-	2+	2	1+	1+	1+	0+	15+	0.4	0.5	9	15	16	21	11
27QQ	1-	2	2+	0+	1+	1+	0+	1+	10-	0.1	0.2	5	10	10	11	10 CC
28	2	3-	3-	1+	2	3-	4-	4-	21-	0.6	0.7	12	31	15	12	34
									MEAN	0.83	0.86	18	32.5	29.3	31.0	

GEOMAGNETIC ACTIVITY INDICES



DAILY AVERAGE INDICES Ap

DAY	1974 MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1975 JAN	FEB
1	20	17	9	28	10	6	24	28	6	6	7	37
2	18	15	18	18	12	22	32	30	5	15	4	23
3	20	39	24	19	9	35	16	12	6	15	7	12
4	10	35	34	9	31	24	20	8	3	9	32	10
5	18	18	35	6	74	21	19	10	5	7	27	17
6	20	26	6	6	130	20	14	11	10	4	26	8
7	13	18	15	3	15	22	12	6	7	8	44	15
8	17	13	13	6	36	16	7	10	21	13	36	8
9	33	16	11	7	15	16	5	39	39	42	7	11
10	30	28	3	15	20	16	6	10	10	20	6	38
11	32	19	5	32	14	10	4	6	48	21	4	36
12	15	3	5	29	23	5	6	17	70	18	4	35
13	10	7	4	21	12	6	15	86	36	22	32	27
14	16	5	10	18	23	5	9	30	38	13	33	25
15	3	4	30	37	10	4	73	50	10	14	15	21
16	42	4	26	16	10	6	88	68	16	8	21	30
17	9	6	38	15	8	6	3	47	14	18	29	14
18	3	46	24	10	6	10	19	43	8	28	22	15
19	2	39	18	13	6	40	34	29	14	27	10	11
20	23	46	18	18	11	46	35	41	22	21	10	8
21	68	35	18	7	9	39	43	10	24	19	6	8
22	39	31	22	8	8	37	24	15	18	14	8	7
23	42	29	25	7	82	36	16	5	16	17	12	32
24	34	19	39	8	51	26	26	38	26	14	10	17
25	28	20	14	10	22	13	30	22	19	12	5	20
26	20	21	11	40	20	7	38	28	17	12	5	9
27	22	19	14	54	24	18	25	25	9	21	14	5
28	18	23	10	26	18	20	14	29	6	12	12	12
29	34	19	7	19	13	31	16	18	3	11	6	
30	20	16	17	15	8	17	21	12	2	6	7	
31	24		30		6	21		8		14	16	
MEAN	23	21	18	17	24	19	23	26	18	15	16	18

HOURLY EQUATORIAL Dst VALUES (PROVISIONAL)

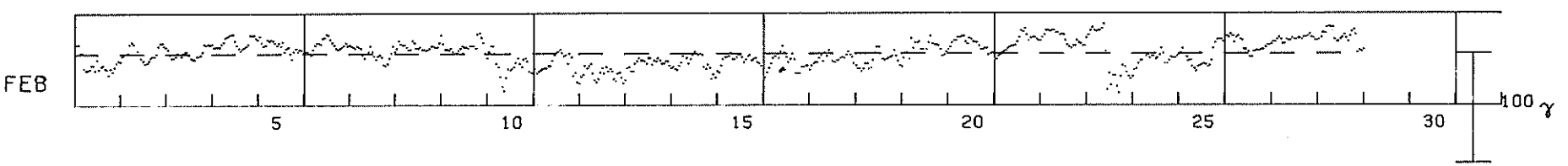
NASA/GODDARD SPACE FLIGHT CENTER

(Time-UT)

FEBRUARY 1975

(Units-Gammas)

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	9	9	1	1	-13	-15	-15	-14	-10	-10	-15	-5	-14	-11	-10	-13	-14	-19	-13	-16	-12	-8	-6	-7
2	-2	-1	0	1	9	11	9	0	3	0	-4	-6	-9	-8	-6	-3	-2	-2	0	7	10	10	7	6
3	4	-1	-4	-4	-2	1	0	-2	1	2	2	-1	-4	-5	-5	-2	-2	-1	2	9	8	9	8	9
4	6	6	6	6	9	11	15	16	17	18	18	12	8	5	3	5	6	7	9	17	17	17	14	13
5	16	10	7	8	13	12	13	12	10	8	10	7	11	2	5	6	0	-5	2	5	2	4	3	1
6	2	2	0	-1	4	8	10	10	9	14	15	18	17	13	10	8	5	4	5	6	8	10	7	8
7	7	6	5	7	6	5	-1	-4	0	2	7	2	-2	-5	-2	-1	-3	-10	-11	-9	-4	1	7	2
8	5	12	9	8	8	6	4	4	12	10	5	5	6	4	4	3	4	5	7	7	6	6	10	17
9	9	4	4	3	5	2	0	1	3	5	7	6	6	5	7	7	7	5	18	19	15	10	0	-4
10	2	7	7	0	-9	-12	-21	-30	-34	-22	-14	-15	-14	-12	-8	-4	-9	-12	-5	-4	-7	-16	-17	-18
11	-14	-18	-16	-15	-14	-13	-13	-11	-11	-6	-1	1	2	4	1	-2	-1	-9	0	-3	-20	-17	-26	-27
12	-21	-19	-11	-13	-11	-9	-18	-24	-26	-23	-17	-13	-18	-12	-16	-14	-16	-23	-25	-18	-17	-22	-27	-24
13	-13	-12	-16	-16	-9	-7	-4	-6	-6	-7	-9	-4	-4	-10	-6	-7	-4	-6	-9	-9	-7	-7	-11	-13
14	-12	-14	-15	-11	-8	-2	0	-4	-9	-5	-1	2	0	-1	0	-1	-12	-14	-10	-13	-23	-19	-22	-16
15	-17	-11	-5	-3	-3	-2	1	-5	-5	-3	-1	-1	-3	-8	-5	-2	-1	-6	-5	-4	-8	-9	-11	-18
16	-22	-17	-13	-9	-4	-2	0	-4	2	7	1	-3	-8	-5	0	-5	-18	-18	-18	-12	-12	-11	-11	-15
17	-11	-9	-8	-8	-4	-1	-7	1	-2	3	0	-7	-8	-6	-6	-4	-3	-4	-1	2	-1	-3	-9	-11
18	-14	-14	-16	-14	-9	-9	-14	-13	-6	1	6	6	0	-5	-6	-5	-4	-3	-2	3	-2	-7	-11	-12
19	-4	1	1	-5	14	5	10	10	11	4	4	0	4	10	16	9	8	8	7	4	-2	-1	2	4
20	6	10	12	12	15	15	16	16	11	9	14	13	11	10	10	7	4	4	5	5	-1	0	1	-3
21	-5	-2	-1	1	2	3	5	6	7	7	8	11	15	21	20	23	17	12	14	15	15	13	12	12
22	15	17	21	21	20	21	21	19	19	17	18	17	12	8	6	5	7	7	12	10	9	7	7	14
23	17	21	24	21	20	21	21	23	27	2	-33	-18	-29	-20	-20	-30	-36	-21	-11	-12	-17	-21	-23	-21
24	-15	-14	-9	-6	-6	0	-2	-1	-4	-2	-2	-5	-4	-1	5	0	-9	-9	-6	-3	-4	-4	-2	-1
25	1	5	0	-3	-7	-6	-12	-14	-16	-12	-11	-10	-9	-10	-12	-11	-6	5	10	13	13	13	11	14
26	16	15	18	16	10	15	16	13	12	4	4	2	-3	-3	2	3	3	3	4	4	6	8	8	9
27	11	11	13	15	13	9	9	13	12	12	14	13	13	14	14	13	15	15	16	18	15	14	12	12
28	13	15	19	19	24	25	24	24	13	11	11	13	15	17	14	11	16	20	22	17	1	3	2	4



PRINCIPAL MAGNETIC STORMS

FEBRUARY 1975

OBS. 2 letter IAGA code	GEOMAGNETIC LATITUDE	COMMENCEMENT DAY	hr min (UT)	TYPE	SC - AMPLITUDES D(')	H(γ)	Z(γ)	MAXIMUM 3 HOUR - INDEX K DAY(3 HOUR PERIOD)	K	RANGES D(')	H(γ)	Z(γ)	UT END DAY	HOUR
EB	43.9N	31	15--	..	..	..	..	31(6,7) 01(7,8) 02(1,7)	5	123	109	48	02	21
HR	33.7S	31	09--	..	..	..	..	31(6) 01(4,8)	5	26	111	69	02	15
WI	54.2N	1	01--	..	..	..	..	01(5,6,7,8) 02(1,7)	5	27	205	50	02	21
GU	4.0N	1	0006	..	..	..	..	01(1)	4	0	100	30	02	18
HU	0.6S	1	0010	..	..	..	..	01(5,6)	5	8	189	38	01	24
PM	18.7S	1	00--	..	..	..	..	01(4)	5	10	90	50	02	18
CO	64.6N	9	16--	..	..	..	..	12(3)	8	246	1930	840	16	21
SI	60.0N	9	15--	..	..	..	..	12(4)	-	--	--	500	17	16
NE	55.1N	9	1540	..	..	..	..	10(2) 12(3)	6	47	171	224	17	12
WI	54.2N	9	22--	..	..	..	..	11(6,7)	7	38	250	85	16	24
BO	48.9N	9	21--	..	..	..	..	10(2)	6	30	135	55	17	16
EB	43.9N	9	18--	..	..	..	..	11(6,7)	6	155	128	71	17	01
IR	41.0N	9	15--	..	..	..	..	10(5) 11(6,7) 12(4)	6	23	123	36	15	03
TU	40.4N	9	21--	..	..	..	..	10(1,2,3,8) 11(1) 12(4) 16(4)	5	15	110	20	17	15
HY	7.6N	9	1600	..	..	..	..	11(6,7)	6	3	87	21	13	01
GU	4.0N	9	2209	..	..	..	..	10(5)	5	0	120	10	10	19
HU	0.6S	9	1906	..	..	..	..	11(6,7)	5	10	210	40	16	21
PM	18.7S	9	1539	SC	0	+ 2	+ 1	10(5) 12(4)	5	6	110	40	20	13
HR	33.7S	9	19--	..	..	..	..	10(8) 11(6,7) 12(7) 13(7) 16(6)	5	28	100	108	17	02
GN	43.2S	9	1539	SC	- 1	+ 5	- 4	11(6,7) 16(6)	6	22	100	130	16	21
TO	47.7S	9	1539	SC*	- 1.2*	+ 8	+	10(5) 11(6,7) 12(3,4)	5	23	150	60	12	19
KG	56.5S	9	16--	..	..	..	..	11(6,7)	6	--	--	--	14	05
GU	4.0N	12	0430	..	..	..	..	12(4)	5	0	60	10	12	19
IR	41.0N	15	08--	..	..	..	..	15(5) 16(4,5,6,7)	5	10	77	28	16	20
HU	0.6S	21	1300	..	..	..	..	21(6)	6	6	200	37	21	21
HY	7.6N	22	2335	SC	- 0.3	+ 7	- 1	23(4)	7	5	196	15	23	20
CO	64.6N	23	06--	..	..	..	..	23(4)	8	307	2400	1280	23	20
SI	60.0N	23	06--	..	..	..	..	23(8)	-	--	--	920	23	22
NE	55.1N	23	0539	..	..	..	..	23(5)	6	50	436	307	24	06
WI	54.2N	23	08--	..	..	..	..	23(4,5,6) 24(8)	5	25	185	45	25	07
BO	48.9N	23	06--	..	..	..	..	23(4)	6	23	110	80	24	09
EB	43.9N	23	08--	..	..	..	..	23(4,5)	5	91	102	62	24	04
IR	41.0N	23	0830	SC*	2.0	17	2	23(4,5)	7	32	156	66	23	21
AL	9.5N	23	0825	SC	-	13	-	23(4)	7	3	194	16	23	19
HY	7.6N	23	0827	SC	+ 0.3	+12	- 1	--	-	--	--	--	--	--
GU	4.0N	23	0614	..	..	..	..	23(4)	6	0	140	20	23	20
AN	1.5N	23	0825	SC	- 0.5	22	5	--	-	3	198	74	23	19
HU	0.6S	23	0826	..	..	..	..	23(5,6)	5	6	241	29	23	22
TV	1.1S	23	0825	SC	0.0	25	28	--	-	2	175	125	23	19
PM	18.7S	23	0826	SC	0	+14	+12	23(4)	6	9	140	70	26	16
HR	33.7S	23	07--	..	..	..	..	23(4)	6	23	124	70	23	20
GN	43.2S	23	06--	..	..	..	..	23(4,5,6)	6	25	130	180	25	18
TO	47.7S	23	0828	SC	+ 0.8	+29	+ 3	23(4)	7	42	190	70	23	18
HY	7.6N	24	0900	..	..	..	..	25(2)	4	3	92	12	26	19
HY	7.6N	28	1300	..	..	..	..	28(7)	4	3	70	8	01	22

Reports were received from the following observatories:

College, Sitka, Newport, Witteveen, Fredericksburg, Boulder, Tucson, San Juan, Honolulu, Alibag, Hyderabad, Guam, Annamalainagar, Huancayo, Trivandrum, Hermanus, Gnangara, Port-aux-Francais

SUDDEN COMMENCEMENTS AND SOLAR FLARE EFFECTS

FEBRUARY 1975

PRELIMINARY REPORT ON RAPID MAGNETIC VARIATIONS (by Dr. A. Romana)

The meaning of the station symbols is given in the IAGA-Bulletins nr. 12 and 32. Times of ssc and si are mean values. If given by ten or more stations they are underlined.

Sudden commencements followed by a magnetic storm or a period of storminess (ssc)

23 0827 B: PE LM;C: KA SS PP (bp: B: KG)

Sudden impulses found in the magnetograms (si)

n o n e

Solar-flare effects (sfe)

Effects confirmed by ionospheric or solar observations are underlined.

08 1629 - 1647 CF SS PP? (ssc: B: TN - si: A: LG HU)
20 1237 - 1248 SZ
21 1624 - 1636 TN
21 1640 - 1700 LG

Erratum: In the December list of sfe's, published in Solar-Geophysical Data, 366 - Part I, page 110, February 1975, replace 28 1745 - 1755 LG with 28 1105 - 1115 LG.

RADIO PROPAGATION QUALITY FIGURES AND FORECASTS

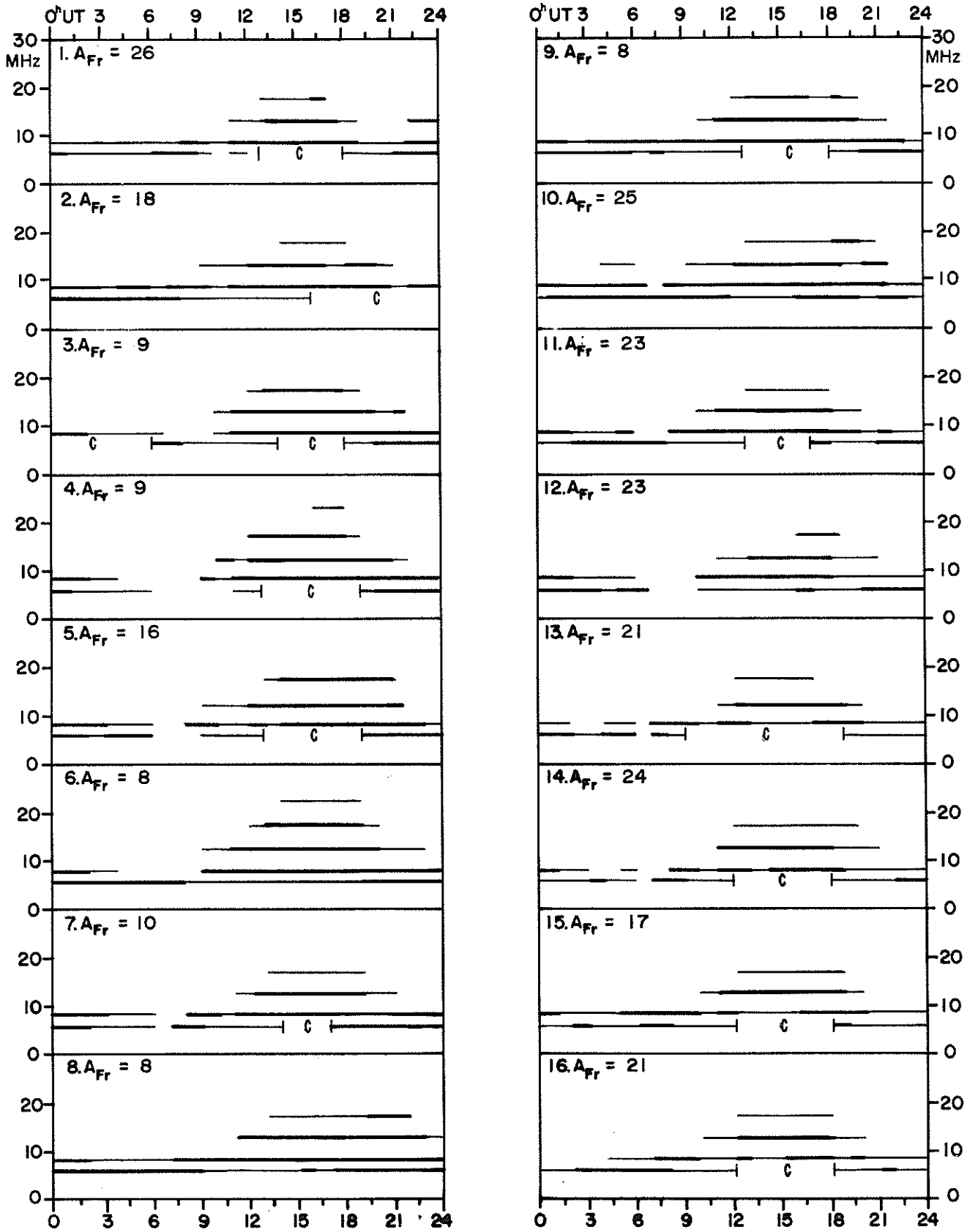
FEBRUARY 1975

North Atlantic

FEB 1975	WHOLE DAY INDICES NORTH ATLANTIC	ADVANCE FORECASTS (JC-REPORTS) FOR WHOLE DAY	NORTH ATLANTIC 6-HOURLY QUALITY FIGURES 00 TO 06	06 TO 12	12 TO 18	18 TO 24	SHORT-TERM FORECASTS ISSUED ABOUT ONE HOUR IN ADVANCE OF 02	08	14	20	GEOMAGNETIC INDICES K_{FR} HALF DAY (1)	(2)	A_{FR} OBSERVED
01	5+	5	5+	5o	5o	5+	5	5	4	5	(4)	(4)	26
02	5+	5	5+	4+	6-	6-	5	4	5	4	(4)	2	18
03	6-	4	6-	5o	6-	6-	5	5	5	5	3	2	9
04	6-	4	6-	5+	6-	6-	5	5	5	5	2	2	9
05	5+	4	5o	5o	6-	6o	5	5	5	5	3	3	16
06	6-	6	6o	5o	6-	6-	5	5	5	6	2	2	8
07	5+	6	6-	5-	5+	5+	6	5	6	6	3	2	10
08	6-	6	5-	6o	7-	6-	6	6	5	5	3	1	8
09	6o	5	5+	5-	7o	6+	6	5	6	5	2	2	8
10	5+	5	5+	5-	6-	6-	5	5	5	5	(4)	(4)	25
11	6-	5	5+	6-	6o	6-	5	5	5	5	(4)	(4)	23
12	5+	5	6-	5o	5+	5o	5	5	3	5	(4)	3	23
13	5o	5	5-	5o	5+	5-	5	5	5	5	(4)	(4)	21
14	5o	5	5-	5o	5+	5o	5	4	4	5	(4)	(4)	24
15	5+	5	5o	5o	6-	5o	5	5	4	5	3	3	17
16	5o	6	4+	5o	5o	5+	5	5	5	5	(4)	(4)	21
17	5+	6	5+	5o	6-	5+	5	5	5	5	3	2	12
18	5+	6	5+	5o	5+	6-	5	5	5	5	3	2	14
19	6-	6	5+	5o	6-	6o	5	5	5	6	3	2	9
20	5+	5	5+	4+	6o	6+	5	5	5	6	2	1	6
21	6-	6	6o	4+	6o	6+	6	5	5	6	2	2	8
22	6-	6	6+	4o	6+	7-	6	6	6	6	2	2	6
23	5+	6	7-	4o	5+	5o	6	6	4	4	(4)	3	26
24	5-	6	4+	4+	5+	5+	5	4	5	5	2	3	14
25	5o	6	5+	4o	5o	5o	5	5	5	5	3	3	16
26	5o	6	5o	4o	6-	6-	5	5	5	5	3	1	8
27	5+	5	6-	4o	6o	6o	5	5	6	6	2	1	5
28	6-	5	6-	5o	6o	6+	6	6	6	6	3	3	11

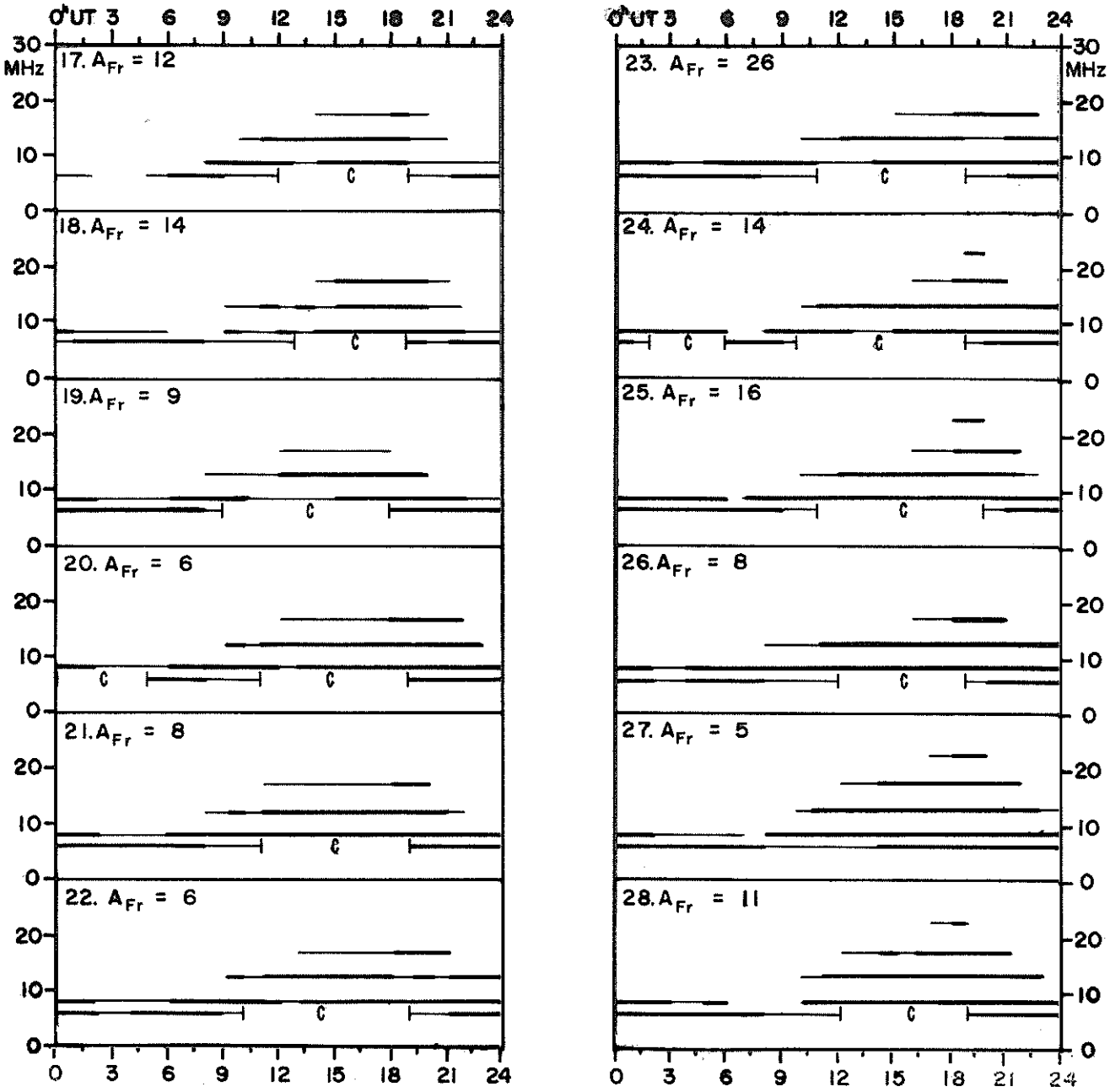
TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

FEBRUARY 1975



TRANSMISSION FREQUENCY RANGES -- NORTH ATLANTIC PATH

FEBRUARY 1975



Field strengths from five frequencies, 6.425, 8.542, 12.813, 17.084 and 22.378 MHz, observed on a Lüchow - Halifax circuit are represented above. Heavy solid lines represent field strengths ≥-12 dB above 1 μv/m (transmitter power reduced to 1 kW). Observed field strengths between -12 dB above 1 μv/m and -40 dB above 1 μv/m are represented by the fine line.

Adapted from Observations by Deutsche Bundespost

RADIO PROPAGATION QUALITY INDICES

FEBRUARY 1975

Quality Indices calculated for reception at Lüchow

DATE	TOKYO	HALIFAX	MAURITIUS	CANBERRA	BRACKNEL
1	4.6	5.0	5.6	2.8	10.1
2	3.8	5.4	6.3	3.2	10.9
3	4.9	5.6	5.8	3.4	11.0
4	5.8	5.1	5.8	3.9	11.6
5	6.1	6.2	5.4	3.8	12.1
6	5.4	6.4	5.7	3.5	11.5
7	5.4	5.4	5.0	3.6	11.0
8	5.9	6.8	4.5	3.9	11.3
9	6.0	6.8	3.9	4.2	11.4
10	6.6	6.2	5.1	3.4	10.7
11	5.2	5.9	4.7	3.5	10.8
12	4.8	4.1	4.4	3.8	10.8
13	4.3	3.8	5.0	3.2	10.1
14	3.3	4.1	4.3	3.2	9.8
15	3.1	4.4	3.7	3.2	9.0
16	4.1	3.3	4.6	3.0	8.1
17	4.5	5.0	4.9	3.2	9.3
18	4.9	5.0	5.3	3.3	10.6
19	4.5	5.6	5.6	2.8	9.6
20	4.7	6.3	4.9	3.7	10.2
21	5.2	5.8	5.2	3.9	10.9
22	7.4	6.0	5.7	3.6	10.5
23	6.9	5.7	5.7	3.7	10.8
24	6.9	6.5	6.0	3.4	10.7
25	5.1	5.5	6.0	3.9	11.9
26	6.6	6.1	5.2	3.9	11.3
27	5.4	7.4	5.0	3.7	11.2
28	5.9	7.8	5.7	4.5	12.6

The method of calculation of the radio propagation indices changed in July 1974. An absolute quality figure is calculated for a 24-hour period from Tokyo, Halifax, Mauritius (Africa) and Canberra. The figure 0.0 corresponds to a median field strength of -30 dB above 1μV/m (converted into 1 kW and referred to an omnidirectional antenna). The figures 1 to 10 are in steps of 5 dB with the figure 10.0 corresponding to a median field strength of +20 dB above 1μV/m. The field strength of the frequency with the highest value for each hour is used in place of a mean of all recorded frequencies. This is done on the assumption that the optimum frequency would be used for communication.

USCOMM-NOAA-ASHEVILLE--4-30-75--950

WORLD DATA CENTER A
FOR
SOLAR-TERRESTRIAL PHYSICS

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

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