

SFSC Solar Summary and Forecast - For Joe Hirman

Begin: 05/25/86 00:00:00

End : 05/25/86 23:59:00

05/25 00:40

0043

HFUS3 BOU 250040

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 144

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100 TO 24/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4731 (N07W01) GREW SLIGHTLY IN MOST ASPECTS WITH MANY FLUCTUATIONS AND WEAK ARCHED FILAMENTS. A FIVE DEGREE LONG FILAMENT ALSO DISAPPEARED FROM THIS REGION IN CONJUNCTION WITH POINT BRIGHTENINGS AT 24/0357Z. ANOTHER, SEPARATE, 15 DEGREE LONG FILAMENT DISAPPEARED FROM S22E50 BY 24/1219Z. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4731 CONTINUES TO PROVIDE A VERY SLIGHT CHANCE OF MODERATE (M-LEVEL X-RAY) ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY UNSETTLED. ACTIVE CONDITIONS ARE PROBABLE AT HIGH LATITUDES THE FIRST DAY (25 MAY). A SLIGHT CHANCE OF ACTIVE TO STORM LEVEL CONDITIONS ARE POSSIBLE ON THE SECOND AND THIRD DAYS (26-27 MAY) DUE TO THE DISAPPEARING FILAMENTS OF 21 MAY.

III. EVENT PROBABILITIES 25 MAY-27 MAY

CLASS M 04/05/06

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAY 078

PREDICTED 25 MAY-27 MAY 077/076/075

90 DAY MEAN 24 MAY 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAY 009/013

ESTIMATED AFR/AP 24 MAY 008/015

PREDICTED AFR/AP 25 MAY-27 MAY 008/015-008/010-009/010

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05/25 22:00

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HFUS3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 145

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100 TO 25/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4731 (N07W15)

PRODUCED MANY SMALL B- LEVEL X-RAY EVENTS AND ONE C1/ON FLARE  
A 25/1517Z. THIS REGION CONTINUES TO FLUCTUATE AND SUPPORT  
ARCHED FILAMENTS AS ITS MAGNETIC CONFIGURATION APPROACHES A  
BETA-GAMMA TYPE. IT IS STILL A BORDERLINE BETA TYPE AT THIS  
TIME, AND CONTINUES TO GROW IN MOST ASPECTS. NO NEW REGION WAS  
ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
VERY LOW. REGION 4731 PROVIDES A SLIGHT CHANCE OF MODERATE  
(M-LEVEL X-RAY) ACTIVITY AS IT CONTINUES TO DEVELOP. ITS  
POSITION OF 55 DEGREES WEST OF CENTRAL MERIDIAN ON 29 MAY  
PROVIDES AN IDEAL LOCATION FOR A VERY SLIGHT CHANCE OF PROTON  
EVENT GENERATION ON THE THIRD DAY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z:  
THE GEOMAGNETIC FIELD WAS UNSETTLED TO ACTIVE. MINOR AND MAJOR  
STORM CONDITIONS OCCURRED AT HIGH LATITUDES MIDWAY THROUGH THE  
PERIOD. THIS DISTURBANCE MAY BE THE RESULT OF DISAPPEARING  
FILAMENTS ON 21 MAY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE UNSETTLED TO ACTIVE. THIS SLIGHT INCREASE IN  
ACTIVITY IS BASED ON DISAPPEARING FILAMENTS OF 24 MAY. THERE IS  
A SLIGHT CHANCE OF STORM CONDITIONS THE LAST DAY (29 MAY).

III. EVENT PROBABILITIES 26 MAY-28 MAY

CLASS M 15/20/25

CLASS X 01/01/02

PROTON 01/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 MAY 079

PREDICTED 26 MAY-28 MAY 078/077/076

90 DAY MEAN 25 MAY 075

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 MAY 009/011

ESTIMATED AFR/AP 25 MAY 011/020

PREDICTED AFR/AP 26 MAY-28 MAY 011/015-010/020-010/020

SOLTERWARN

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