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HFUS3 BOU 242200 COR  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 144  
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 24 MAY 1987

ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z  
TO 24/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. AN M1/1B  
FLARE OCCURRED IN REGION 4811 (N29W41) AT 24/1529UT. THE  
X-RAY BACKGROUND LEVEL PRECEDING THIS FLARE EXPERIENCED A SLOW  
RISE FROM B2.5 TO ABOVE C-LEVEL STARTING AT ABOUT 24/0800UT  
AND REACHING C-LEVEL AT 24/1200UT. THE BACKGROUND HAS  
REMAINED NEAR C1.0 SINCE THAT TIME. THIS REGION HAS UNDERGONE  
SOME WHITE LIGHT DECAY AND RESTRUCTURING SINCE YESTERDAY.  
MODERATE SPOT COMPLEXITY REMAINS ALTHOUGH OVERALL SUNSPOT AREA  
HAS DECREASED. H-ALPHA STRUCTURE HAS CHANGED LITTLE.  
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
VERY LOW. MODERATE ACTIVITY IS POSSIBLE IF REGION 4811  
PRODUCES ANOTHER ISOLATED M-CLASS FLARE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z:  
THE GEOMAGNETIC FIELD HAS BEEN MOSTLY UNSETTLED AT MIDDLE  
LATITUDES. THE HIGH LATITUDE FIELD HAS BEEN MOSTLY ACTIVE  
WITH PERIODS AT MINOR STORM LEVEL.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE QUIET TO UNSETTLED AT MIDDLE LATITUDES AND  
MOSTLY UNSETTLED AT HIGH LATITUDES. ACTIVE CONDITIONS ARE  
POSSIBLE AT HIGH LATITUDES ON THE SECOND DAY OF THE FORECAST.

III. EVENT PROBABILITIES 25 MAY-27 MAY

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

OTTAWA 10.7 CM FLUX

OBSERVED 24 MAY 096

PREDICTED 25 MAY-27 MAY 090/088/086

90 DAY MEAN 24 MAY 082

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAY 011/013

ESTIMATED AFR/AP 24 MAY 013/018

PREDICTED AFR/AP 25 MAY-27 MAY 007/013-005/015-005/013

NNNN

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SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/24/87 00:00:00

End : 05/24/87 23:59:00

05/24 22:00

2200

HFUS3 BOU 242200

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-M)V FV?NJ

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E. 6F. & JV:

FJ

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