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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

I. 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

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E.6F..&JV:

FJ

5F.-FM 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.

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24 22:00