

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/04/86 00:00:00

End : 05/04/86 23:59:00

05/04 22:00

2137

OS3 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 124

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 04 MAY 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 03/2100  
TO 04/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 4727, NOW A  
DAY BEHIND WEST LIMB, PRODUCED AN M-1 LIMB FLARE WHICH ATTAINED  
MAXIMUM AT 1007Z. LOOPS WERE SEEN NEAR N06 EXTENDING TO .06  
SOLAR RADII FOR HOURS AFTER THE FLARE. RADIO OUTPUT OF THE  
EVENT WAS MINIMAL, AND THE REGION HAS BEEN QUIET SINCE. REGION  
4728 (N08W84) CONTINUED TO DECAY. A SINGLE SPOT WAS VISIBLE  
THERE EARLY IN THE INTERVAL, BUT IT MAY NOW BE GONE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
VERY LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 03/2100Z TO 04/2100Z:  
THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED TO ACTIVE. A  
PERIOD OF MAJOR STORM CONDITIONS WAS OBSERVED AT HIGH-LATITUDES  
NEAR MIDDAY. A GREATER THAN 10 MEV PROTON EVENT WAS DETECTED  
AT SATELLITE ALTITUDES. SPECIFICALLY, IT BEGAN AT 1255Z,  
REACHED A MAXIMUM FLUX OF 16 P./SQ. CM.-SEC.-STER. AT 1320Z,  
AND ENDED AT 1705Z. THE EVENT MAY BE RELATED TO A COMBINATION  
OF THE PREVIOUSLY DESCRIBED M-1 FLARE AND MAGNETOSPHERIC  
EFFECTS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD  
SHOULD FLUCTUATE BETWEEN UNSETTLED AND ACTIVE LEVELS FOR THE  
NEXT 72 HOURS.

III. EVENT PROBABILITIES 05 MAY-07 MAY

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 04 MAY 070

PREDICTED 05 MAY-07 MAY 070/069/069

90 DAY MEAN 04 MAY 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 MAY 040/058

ESTIMATED AFR/AP 04 MAY 015/026

PREDICTED AFR/AP 05 MAY-07 MAY 010/025-015/015-010/020

SOLTERWARN

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