

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

053 BDU 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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