

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 03/24/87 00:00:00

End : 03/24/87 23:59:00

03/24 22:00

2201

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 083

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 MAR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. A BRIGHT SURGE LOCATED NEAR S30 AT WEST LIMB PRODUCED A C-4 X-RAY EVENT WHICH REACHED MAXIMUM AT 0306Z. SMALL DISCRETE FREQUENCY RADIO BURSTS AND TYPE III SWEEP ACTIVITY WERE RECORDED AS WELL. THERE WAS NO ACTIVE REGION LOCATED IN THIS VICINITY DURING THIS PAST ROTATION, SO THE ACTIVE CENTER RESPONSIBLE MUST HAVE GROWN VERY QUICKLY OVER THE LAST 24-36 HOURS. LESSER SURGES CONTINUED UNTIL APPROXIMATELY 1800Z. ALL REGIONS ON THE VISIBLE DISK HAVE BEEN QUIET AND DECAYING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. OLD REGION 4778 IS DUE AT EAST LIMB NEAR N07 LATE ON 25 MARCH.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AT ALL LATITUDES.

IIIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MAINLY UNSETTLED TO ACTIVE UNTIL LATE ON 26 MARCH. A DISTURBANCE IS THEN EXPECTED TO BRING ACTIVE TO MINOR STORM CONDITIONS TO ALL LATITUDES. THE DISAPPEARING FILAMENT/LONG-DURATION X-RAY EVENT OF 23 MARCH SHOULD GENERATE THIS ACTIVITY.

III. EVENT PROBABILITIES 25 MAR-27 MAR

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAR 076

PREDICTED 25 MAR-27 MAR 075/075/074

90 DAY MEAN 24 MAR 072

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAR 006/010

ESTIMATED AFR/AP 24 MAR 005/010

PREDICTED AFR/AP 25 MAR-27 MAR 010/015-010/015-020/025

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