

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 02/12/87 00:00:00

End : 02/12/87 23:59:00

02/12 22:00

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HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 043

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 FEB 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z TO 12/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4770 (NO3E17) LOST ITS SPOTS EARLY IN THE DAY. THE REST OF THE DISK AND LIMBS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. NO SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS RANGED FROM QUIET TO ACTIVE AT ALL LATITUDES WITH PERIODS OF MINOR STORM CONDITIONS AT THE HIGHER LATITUDES. ACTIVITY LEVELS INCREASED SUBSTANTIALLY AFTER 0600 UT. THE SOURCE OF THE DISTURBANCE IS UNKNOWN, BUT IT FOLLOWS A WEAK RECURRENT PATTERN OF SEVERAL PAST SOLAR ROTATIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO QUIET AT MIDDLE LATITUDES AND UNSETTLED WITH PERIODS OF ACTIVE CONDITIONS AT HIGH LATITUDES FOR THE NEXT THREE DAYS. SOME PERIODS OF ACTIVE CONDITIONS AT MIDDLE LATITUDES AND MINOR STORM CONDITIONS AT HIGH LATITUDES ARE POSSIBLE DURING THE NEXT 36 HOURS.

III. EVENT PROBABILITIES 13 FEB-15 FEB

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 FEB 070

PREDICTED 13 FEB-15 FEB 070/070/071

90 DAY MEAN 12 FEB 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 FEB 005/007

ESTIMATED AFR/AP 12 FEB 014/017

PREDICTED AFR/AP 13 FEB-15 FEB 012/014-010/012-007/012

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