

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/24/87 00:00:00

End : 12/24/87 23:59:00

12/24 22:00

2201

HFUS3 BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 358

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. A NEW REGION, AS YET UNNUMBERED, IS ROTATING ACROSS THE SOUTHEAST LIMB NEAR SE32. THE REGION SHOWS SIGNS OF ENERGETIC ACTIVITY HAVING PRODUCED A SF/C1.2 FLARE AT 24/1855Z. SIGNIFICANT CALCIUM YELLOW-LINE EMISSION HAS ALSO BEEN REPORTED FROM THIS REGION. THE REGION WILL PROBABLY BE NUMBERED 4912, BUT FOR NOW WE WILL GATHER DATA AND WATCH CLOSELY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW. THERE IS A VERY SLIGHT CHANCE OF MODERATE ACTIVITY FROM THE NEW EAST-LIMB REGION.

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

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED DURING THE FIRST TWO DAYS AT MIDDLE LATITUDES FOLLOWED BY QUIET LEVELS ON DAY THREE. THE HIGH LATITUDE FIELD WILL BE UNSETTLED THROUGH THE PERIOD.

III. EVENT PROBABILITIES 25 DEC-27 DEC

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 DEC 093

PREDICTED 25 DEC-27 DEC 095/096/097

90 DAY MEAN 24 DEC 097

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 DEC 011/014

ESTIMATED AFR/AP 24 DEC 007/012

PREDICTED AFR/AP 25 DEC-27 DEC 008/012-008/012-006/010

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