

SESC Solar Summary and Forecast - For Joe Hirman

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

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

12/12 22:00

2201

HFUS3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 346

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 12 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100Z TO 12/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4901 (S21W87) IS DEPARTING THE DISK QUIETLY. NEW REGION 4905 (N26W57) EMERGED AS A SMALL BIPOLAR SPOT GROUP. NEW REGION 4906 (S34E80) ROTATED AROUND THE EAST LIMB NEAR THE VICINITY OF OLD REGION 4896. THIS REGION IS BELIEVED TO BE THE SOURCE OF YESTERDAY'S LONG DURATION X RAY EVENTS WHICH WERE NOT CORRELATED WITH OPTICAL ACTIVITY. FOUR SIMILAR C-CLASS X-RAY EVENTS OCCURRED OVER THE PAST 24 HOURS. ONE SPOT IS VISIBLE BUT IS DIFFICULT TO ANALYZE DUE TO LIMB FORESHORTENING. ADDITIONAL ACTIVITY FROM BEHIND THE LIMB SUGGESTS MORE OF THIS REGION (OR POSSIBLY ANOTHER REGION) SHOULD ROTATE INTO VIEW DURING THE NEXT 24 HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO MODERATE. ACTIVITY LEVELS SHOULD INCREASE AS REGION 4906 ROTATES ONTO THE DISK.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO UNSETTLED LEVELS FOR THE PAST 24 HOURS, WITH THE HIGH LATITUDE FIELD EXPERIENCING ISOLATED PERIODS AT ACTIVE LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED.

III. EVENT PROBABILITIES 13 DEC-15 DEC

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 DEC 098

PREDICTED 13 DEC-15 DEC 098/100/102

90 DAY MEAN 12 DEC 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 DEC 011/016

ESTIMATED AFR/AP 12 DEC 010/015

PREDICTED AFR/AP 13 DEC-15 DEC 010/015-010/012-007/012

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