

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/11/87 00:00:00

End : 12/11/87 23:59:00

12/11 22:00

2202

HFUS3 BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 345

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 DEC 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100Z TO 11/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. NO OPTICAL FLARES WERE OBSERVED DURING THE PAST 24 HOURS; HOWEVER, THERE WERE TWO LONG DURATION C-LEVEL X-RAY EVENTS WITHOUT OPTICAL CORRELATION. REGION 4901 (S19W77) REMAINS THE LARGEST GROUP PRESENTLY ON THE DISK AND IS A SMALL C-TYPE SUNSPOT GROUP. THIS REGION IS DECAYING AND ITS LEVEL OF OBSERVED ACTIVITY HAS DIMINISHED OVER THE PAST DAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. THE ACTIVITY LEVEL MAY INCREASE OVER THE NEXT 48 HOURS AS ACTIVE LONGITUDES ASSOCIATED WITH OLD REGIONS 4896 (S33,L-071) AND 4891 (S21,L-057) RETURN AT THE EAST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: THE GEOMAGNETIC FIELD AT MIDDLE LATITUDES WAS MOSTLY ACTIVE AT THE BEGINNING OF THE REPORTING PERIOD, BECOMING QUIET BY 11/0600UT. THE HIGH LATITUDES FIELD WAS AT MINOR TO MAJOR STORM LEVELS UNTIL 11/0430UT, BECOMING MOSTLY UNSETTLED FOR THE REMAINDER OF THE 24 HOUR PERIOD.

II. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS. THE DISTURBANCE EXPECTED AS THE RESULT OF CORONAL HOLE EFFECTS IS BELIEVED TO HAVE ARRIVED EARLIER AND HAVE BEEN MORE SHORT LIVED THAN FORECAST.

III. EVENT PROBABILITIES 12 DEC-14 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 DEC 094

PREDICTED 12 DEC-14 DEC 094/094/094

90 DAY MEAN 11 DEC 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 DEC 022/031

ESTIMATED AFR/AP 11 DEC 012/020

PREDICTED AFR/AP 12 DEC-14 DEC 015/018-015/018-010/015

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