

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 12/09/87 00:00:00

End : 12/09/87 23:59:00

12/09 22:00

2329

HFUS3 BOU 092200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 343

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 DEC 1987

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4901 (S21W51) CONTINUES TO PRODUCE SMALL SUBFLARES. THE LARGEST DURING THE PAST 24 HOURS WAS A C1/SF MAXING AT 09/0114UT. NEW REGION 4904 (S19W36) EMERGED AS A SMALL BIPOLAR SPOT GROUP.

II. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4901 SHOULD PRODUCE ADDITIONAL SUBFLARES. OLD REGION 4890 RETURNED AT THE EAST LIMB AS SPOTLESS PLACE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z: THE GEOMAGNETIC FIELD AT MIDDLE LATITUDES HAS BEEN AT QUIET LEVELS FOR THE PAST 24 HOURS. THE HIGH LATITUDE FIELD HAS BEEN QUIET TO UNSETTLED. A SUDDEN IMPULSE OF APPROXIMATELY 12 NANOTESLAS WAS RECORDED AT BOULDER AT 09/1945UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED AT MIDDLE LATITUDES FOR THE FIRST TWO DAYS OF THE FORECAST PERIOD. ACTIVE CONDITIONS ARE POSSIBLE AT MIDDLE LATITUDES ON THE THIRD DAY DUE TO THE EFFECTS OF AN EQUATORWARD EXTENSION OF A NORTHERN CORONAL HOLE. THE HIGH LATITUDE FIELD SHOULD BE MOSTLY UNSETTLED.

III. EVENT PROBABILITIES 10 DEC-12 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 DEC 094

PREDICTED 10 DEC-12 DEC 096/098/098

90 DAY MEAN 09 DEC 095

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 DEC 001/005

ESTIMATED AFR/AP 09 DEC 002/008

PREDICTED AFR/AP 10 DEC-12 DEC 012/015-012/015-018/011

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