

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/25/87 00:00:00

End : 10/25/87 23:59:00

10/25 22:00

2201

HFUS3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 298

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 OCT 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100Z TO 25/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4875 (N31E64) IS THE ONLY SIGNIFICANT REGION ON THE DISK. THIS REGION IS A SLOWLY GROWING CLASS E GROUP WHICH PRODUCED A C1/SF FLARE AT 25/1804UT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE VERY LOW. AN ISOLATED CLASS M FLARE IS POSSIBLE SHOULD GROWTH IN REGION 4875 CONTINUE. NO SIGNIFICANT ACTIVE REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z: THE MID LATITUDE GEOMAGNETIC FIELD WAS ACTIVE WITH PERIODS AT MINOR STORM. THE HIGH LATITUDE FIELD WAS MUCH MORE DISTURBED WITH MINOR TO MAJOR STORM LEVELS OBSERVED FOR MOST OF THE DAY. THIS DISTURBANCE WAS GREATLY DIMINISHED DURING THE LAST SIX HOURS OF THE REPORTING PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: MID LATITUDE GEOMAGNETIC CONDITIONS SHOULD BE UNSETTLED TO SLIGHTLY ACTIVE. ACTIVE HIGH LATITUDE CONDITIONS ARE EXPECTED FOR THE ENTIRE FORECAST PERIOD WITH MINOR STORM LEVELS POSSIBLE ON 26 OCT, ESPECIALLY AT LOCAL NIGHTTIME.

III. EVENT PROBABILITIES 26 OCT-28 OCT

CLASS M 15/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 OCT 093

PREDICTED 26 OCT-28 OCT 094/095/096

90 DAY MEAN 25 OCT 091

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 OCT 015/029

ESTIMATED AFR/AP 25 OCT 019/045

PREDICTED AFR/AP 26 OCT-28 OCT 015/024-012/016-010/015

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