

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/27/87 00:00:00

End : 10/27/87 23:59:00

10/27 22:00

2201

HFUS3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 300

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 OCT 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100Z TO 27/2100Z: SOLAR ACTIVITY WAS VERY LOW. REGION 4875 (N31E38) DECREASED IN AREA WHILE INCREASING IN NUMBER OF SMALL SPOTS. MAGNETIC GRADIENTS ALSO INCREASED SLIGHTLY. A FILAMENT LOCATED AT N34-48E07-12 AT 26/1600UT FADED BETWEEN THAT TIME AND 27/0730UT. SMALL GROWING REGION 4881 (S22W09) EMERGED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE VERY LOW. REGION 4875 APPEARS CAPABLE OF SMALL FLARES ONLY. NO SIGNIFICANT REGIONS ARE EXPECTED TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD WAS AT HIGHLY ACTIVE TO MINOR STORM LEVELS FOR MOST OF THE DAY. HIGH LATITUDES EXPERIENCED MAJOR STORM CONDITIONS NEAR 27/1030UT AND 27/1930UT. FOR THE FIRST TIME IN THE PAST SEVERAL DAYS, THE DISTURBANCE INTRuded HEAVILY UPON DAYTIME SECTORS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE FOR THE MAJORITY OF THE NEXT THREE DAYS. AN INCREASE NEAR THE END OF THE PERIOD IS POSSIBLE DUE TO THE DISAPPEARING FILAMENT MENTIONED ABOVE.

III. EVENT PROBABILITIES 28 OCT-30 OCT

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 OCT 107

PREDICTED 28 OCT-30 OCT 109/110/112

90 DAY MEAN 27 OCT 091

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 OCT 008/018

ESTIMATED AFR/AP 27 OCT 020/042

PREDICTED AFR/AP 28 OCT-30 OCT 015/030-012/022-015/028

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