

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/18/87 00:00:00

End : 10/18/87 23:59:00

10/18 22:00

2201

HFUS3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 291

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 OCT 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z TO 18/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4870 (S24W55) PRODUCED NUMEROUS SMALL FLARES, THE LARGEST BEING A C7.7/1N AT 17/2243Z. REGION 4869 (S27W86) PRODUCED A FEW SUBFLARES AND DISPLAYED VISIBLE SURGE ACTIVITY ON THE WEST LIMB. REGION 4866 (N23W40) CONTINUED TO DECAY SLOWLY AND PRODUCED ONLY ONE FLARE, A C1.1/SN AT 0531Z. THREE NEW REGIONS WERE NUMBERED TODAY: REGION 4872 (S42E38), REGION 4873 (S33E62), AND REGION 4874 (N17W01). 4872 AND 4874 WERE SIMPLE AXB TYPE REGIONS AND 4873 WAS A BXO TYPE REGION. THE REMAINDER OF THE SOLAR DISK WAS QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED CONTINUE LOW FOR THE NEXT THREE DAYS. ISOLATED M-FLARE ACTIVITY MAY BE PRODUCED BY REGIONS 4866 AND 4870.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY QUIET AT MID-LATITUDES AND WAS GENERALLY QUIET TO UNSETTLED AT HIGH-LATITUDES.

II. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED AT MID-LATITUDES AND UNSETTLED TO ACTIVE AT HIGH LATITUDES FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 19 OCT-21 OCT

CLASS M 20/20/20

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 OCT 107

PREDICTED 19 OCT-21 OCT 104/100/097

90 DAY MEAN 18 OCT 092

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 OCT 014/021

ESTIMATED AFR/AP 18 OCT 007/013

PREDICTED AFR/AP 19 OCT-21 OCT 010/018-012/020-012/025

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