

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/18/86 00:00:00

End : 10/18/86 23:59:00

10/18 22:00

2207

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 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z

TO 18/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW TO LOW.

REGION 4750 (N23E61), AN FK1/BETA SPOT GROUP, HAS CONTINUED

TO PRODUCE OPTICAL, B AND C CLASS X-RAYS, AND MULTIPLE

RADIO EVENTS. THE MOST SIGNIFICANT OF THE RADIO EVENTS

HAS BEEN A 245 MHZ BURST OF 4000 SOLAR FLUX UNITS. A TOTALLY

ACCURATE ANALYSIS OF THIS REGION HAS NOT BEEN AVAILABLE

YET BECAUSE OF LOCATION AND SIZE. AS IT ROTATES FURTHER

ONTO CENTER DISK ANALYSIS SHOULD PROVIDE BETTER INFORMATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE

LOW. REGION 4750 IS EXPECTED TO CONTINUE TO GROW AND

PRODUCE MORE EVENTS. CURRENT ANALYSIS AND INFORMATION

INDICATES THE POSSIBILITY OF CONSIDERABLY MORE ENERGETIC

EVENTS THAN THE REGION HAS PRODUCED THUS FAR.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED AT MID

LATITUDES. HIGH LATITUDE STATIONS BEGAN THE PERIOD AT QUIET

TO UNSETTLED CONDITIONS, THEN ROSE TO ACTIVE TO MINOR STORM

LEVELS DURING THE LAST HALF OF THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS

EXPECTED TO BE GENERALLY ACTIVE ON 19 AND 20 OCT AND

ACTIVE AT MID LATITUDES WITH MINOR STORM CONDITIONS

OCCURRING AT HIGH LATITUDE STATIONS ON 21 OCT.

III. EVENT PROBABILITIES 19 OCT-21 OCT

CLASS M 50/50/50

CLASS X 10/10/10

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 OCT 087

PREDICTED 19 OCT-21 OCT 088/089/088

90 DAY MEAN 18 OCT 070

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 OCT 005/008

ESTIMATED AFR/AP 18 OCT 012/020

PREDICTED AFR/AP 19 OCT-21 OCT 015/020-015/020-025/035

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