

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/26/87 00:00:00

End : 09/26/87 23:59:00

09/26 22:00

2201

HFUSS BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 269

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. ALL NUMBERED REGIONS HAVE BEEN QUIET. NO FLARES HAVE BEEN OBSERVED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. OLD REGION 4849 (S22, L-240, CLASS AREA EKI/390 ON 08 SEPTEMBER) IS DUE TO RETURN LATE ON 27 SEPTEMBER. SATELLITE OBSERVATIONS DETECTED A CORONAL MASS EJECTION EVENT ORIGINATING FROM BEHIND THE SOUTH EAST LIMB AT 25/1400UT. IF THIS EVENT WAS FLARE RELATED, SOLAR ACTIVITY MAY INCREASE BY THE THIRD DAY OF THE FORECAST AS THE RESPONSIBLE ACTIVE REGION NEARS THE EAST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED TO MINOR STORM LEVELS AT MIDDLE LATITUDES FOR THE PAST 24 HOURS. PRELIMINARY ANALYSIS SUGGESTS THAT THE MINOR GEOMAGNETIC STORM AT BOULDER ENDED WITH THE 25/21-24UT PERIOD. THE HIGH LATITUDE FIELD HAS BEEN AT ACTIVE TO MAJOR STORM LEVELS FOR MOST OF THE PAST 24 HOURS, WITH SEVERE STORM CONDITIONS EXPERIENCED DURING THE NINETY MINUTE PERIOD ENDING 26/0900UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE MOSTLY ACTIVE TO UNSETTLED FOR THE NEXT THREE DAYS. MINOR STORM LEVELS ARE POSSIBLE AT HIGH LATITUDES ON 27 SEPTEMBER.

III. EVENT PROBABILITIES 27 SEP-29 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 SEP 076

PREDICTED 27 SEP-29 SEP 076/078/080

90 DAY MEAN 26 SEP 087

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 SEP 035/058

ESTIMATED AFR/AP 26 SEP 020/045

PREDICTED AFR/AP 27 SEP-29 SEP 020/030-020/026-010/015

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