

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 09/24/87 00:00:00

End : 09/24/87 23:59:00

09/24 22:00

2218

HFUS3 BOU 242200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 267

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 SEP 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. ALL NUMBERED REGIONS HAVE BEEN QUIET WITH NO FLARES OBSERVED DURING THE PAST 24 HOURS. NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. OLD REGION 4849 (S22,L-340, CLASS/AREA EKI/390 ON 08 SEPTEMBER), WHICH PRODUCED SEVERAL C-CLASS FLARES LAST ROTATION, IS EXPECTED TO RETURN ON 27 SEPTEMBER.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD AT MIDDLE LATITUDES HAS BEEN AT QUIET TO UNSETLED LEVELS WITH ACTIVE CONDITIONS EXPERIENCED DURING THE 03-06UT PERIOD. A SUDDEN IMPULSE WAS OBSERVED AT MIDDLE LATITUDE STATIONS (30 GAMMA AT BOULDER) AT 24/0200UT; HOWEVER, THE MIDDLE LATITUDE FIELD FOLLOWING THE IMPULSE HAS BEEN RELATIVELY STABLE. THE HIGH LATITUDE FIELD HAS BEEN MOSTLY UNSETLED TO ACTIVE WITH STORM CONDITIONS EXPERIENCED FROM 0300-0730UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT MINOR STORM LEVELS ON 25 SEPTEMBER AS A RESULT OF THE DISAPPEARANCE OF SEVERAL FILAMENTS BETWEEN 20-21 SEPTEMBER. THIS DISTURBANCE IS EXPECTED TO SUBSIDE BY 26 SEPTEMBER. ACTIVE CONDITIONS ARE EXPECTED ON 27 SEPTEMBER DUE TO RECURRENT EFFECTS.

III. EVENT PROBABILITIES 25 SEP-27 SEP

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 SEP 080

PREDICTED 25 SEP-27 SEP 080/078/078

90 DAY MEAN 24 SEP 087

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 SEP 015/025

ESTIMATED AFR/AP 24 SEP 015/020

PREDICTED AFR/AP 25 SEP-27 SEP 035/040-015/020-020/025

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