

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 08/09/87 00:00:00

End : 08/09/87 23:59:00

08/09 22:00

2209

HFUS3 BOU 092200 CDR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 221

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/2100Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. NEW REGION 4839 (S27E76) PRODUCED AN M1/SN AT 09/1357UT. SO FAR, A SINGLE, LARGE ASYMMETRIC SPOT IS ALL THAT IS VISIBLE OF THIS REGION AS IT ROTATES AROUND THE EAST LIMB. THIS REGION IS LOCATED TO THE WEST OF OLD REGION COMPLEX 4824/4826. REGION 4835 (S25W47) HAS PRODUCED ONLY MINOR SUBFLARE ACTIVITY DURING THE PAST 24 HOURS. GROWTH IN THIS REGION HAS APPARENTLY SLOWED AND RESTRUCTURING OF THE SPOTS SUGGESTS A MATURE REGION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. NEW REGION 4839 HAS PROVEN ITSELF CAPABLE OF MODERATE ACTIVITY. ITS FULL POTENTIAL WILL BECOME APPARENT AFTER IT ROTATES COMPLETELY INTO VIEW. REGION 4835 RETAINS POTENTIAL FOR ISOLATED M-CLASS ACTIVITY. OLD REGIONS 4824/4826 ARE DUE TO RETURN DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 08/2100Z TO 09/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT QUIET TO UNSETTLED LEVELS FOR THE PAST 24 HOURS AT MIDDLE LATITUDES. THE HIGH LATITUDE FIELD HAS BEEN MOSTLY ACTIVE WITH MINOR STORM CONDITIONS EXPERIENCED DURING THE 00-03UT AND 15-18UT PERIODS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE.

III. EVENT PROBABILITIES 10 AUG-12 AUG

CLASS M 30/30/30

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 AUG 092

PREDICTED 10 AUG-12 AUG 094/094/094

90 DAY MEAN 09 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 AUG 009/018

ESTIMATED AFR/AP 09 AUG 013/020

PREDICTED AFR/AP 10 AUG-12 AUG 010/016-015/018-015/016

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