

SESC Solar Summary and Forecast - For Joe Hirman

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

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

08/08 22:00

2215

HFUS3 BOU 082200 CDR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 220

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 08 AUG 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 07/2100Z TO 08/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4835 (S24W33) PRODUCED THREE LOW LEVEL M-CLASS FLARES OVER THE PAST 24 HOURS. ALL THREE REACHED A MAXIMUM OF M1.3, PEAKING AT 08/0134UT, 08/0338UT, AND 08/1358UT. THIS REGION ALSO CONTINUED TO PRODUCE C-CLASS X-RAYS AND OPTICAL SUBFLARES. THE REGION CONTINUED TO GROW, BUT AT A SLOWER RATE THAN THE PREVIOUS 24 HOURS. TWO NEW REGIONS WERE NUMBERED TODAY, 4837 (N05W45) AND 4838 (N58E12), A SMALL B-TYPE AND A-TYPE GROUP, RESPECTIVELY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 4835 IS EXPECTED TO CONTINUE PRODUCING C-CLASS FLARES AND ISOLATED M-CLASS FLARES. THERE IS A VERY SLIGHT CHANCE OF ENERGETIC ACTIVITY BEYOND MODERATE LEVELS. OLD REGIONS 4824 (S32, L-240) AND 4826 (S28, L-253) ARE DUE TO RETURN DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 07/2100Z TO 08/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET AT MIDDLE LATITUDES OVER THE PAST 24 HOURS. THE HIGH LATITUDE FIELD HAS BEEN UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED AT MIDDLE LATITUDES AND ACTIVE AT HIGH LATITUDES.

III. EVENT PROBABILITIES 09 AUG-11 AUG

CLASS M 30/30/30

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 AUG 091

PREDICTED 09 AUG-11 AUG 094/096/096

90 DAY MEAN 08 AUG 084

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 07 AUG 004/012

ESTIMATED AFR/AP 08 AUG 005/018

PREDICTED AFR/AP 09 AUG-11 AUG 005/016-005/016-015/018

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