

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 11/05/87 00:00:00

End : 11/05/87 23:59:00

11/05 22:00

2204

HFUS3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 309

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 NOV 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100Z TO 05/2100Z: SOLAR ACTIVITY WAS MODERATE. REGION 4875 (N28W85) PRODUCED TWO SIGNIFICANT FLARES: AN M1/OF AT 04/2331Z, AND AN M3/OF AT 05/0503Z. BOTH EVENTS INCLUDED TYPE II SWEEP AND MODEST RADIO BURSTS AT DISCRETE FREQUENCIES. A LOOP PROMINENCE SYSTEM IS NOW VISIBLE AT WEST LIMB IN THE SAME VICINITY. LIMB PROXIMITY MAKES ACCURATE ANALYSIS OF THE REGIO

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IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY VERY LOW. THE LIKELIHOOD OF M-CLASS ACTIVITY WILL DECREASE AS REGION 4875 DEPARTS THE DISK. C-CLASS FLARES ARE EXPECTED TO CONTINUE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY QUIET TO UNSETTLED, ALTHOUGH HIGH LATITUDES EXPERIENCED A STRETCH OF MILDLY ACTIVE CONDITIONS LATE IN THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME DISTURBED ON 07 NOV. AS A RESULT OF THE FLARE ACTIVITY MENTIONED IN PART IA. MID-LATITUDES SHOULD BE GENERALLY ACTIVE WHILE HIGH LATITUDES MAY OBSERVE PERIODS OF MAJOR STORM CONDITIONS. THE DISTURBANCE SHOULD BECOME LESS INTENSE BY 08 NOV.

III. EVENT PROBABILITIES 06 NOV-08 NOV

CLASS M 20/15/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 NOV 101

PREDICTED 06 NOV-08 NOV 100/101/101

5 DAY MEAN 05 NOV 093

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 NOV 006/010

ESTIMATED AFR/AP 05 NOV 007/013

PREDICTED AFR/AP 06 NOV-08 NOV 010/020-020/050-015/040

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HFUSS BOU 052200 RTD

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