

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/20/87 00:00:00

End : 05/20/87 23:59:00

05/20 22:00

2201

HFUS3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 140

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 MAY 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100Z TO 20/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4811 (N30E09) CONTINUES TO BE IMPRESSIVE IN SIZE AND COMPLEXITY. THE LARGEST FLARE IT PRODUCED WAS A C1.3/1N AT 1336UT. THERE IS SOME INDICATION OF A WEAK DELTA CONFIGURATION IN THIS REGION. REGION 4810 (S24E03) DECAYED SUBSTANTIALLY DURING THE PERIOD AND WAS QUIET. REGION 4808 (S19W90) ROTATED OFF THE DISK QUIETLY. THE RADIO SUN CONTINUES TO BE NOISY, PRODUCING FREQUENT BURSTS AND SWEEPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4811 (N30E09) CONTINUES TO BE THE PRIMARY SOURCE OF EXPECTED ACTIVITY. C-FLARES ARE LIKELY, AND THERE REMAINS A CHANCE FOR M-FLARES.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD WAS QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO SLIGHTLY ACTIVE FOR 21 MAY DUE TO FLARE EFFECTS. CONDITIONS ARE EXPECTED TO BECOME QUIET TO UNSETTLED FOR 22-23 MAY.

III. EVENT PROBABILITIES 21 MAY-23 MAY

CLASS M 15/15/15

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 MAY 098

PREDICTED 21 MAY-23 MAY 098/098/098

90 DAY MEAN 20 MAY 081

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 MAY 002/007

ESTIMATED AFR/AP 20 MAY 005/008

PREDICTED AFR/AP 21 MAY-23 MAY 012/016-005/010-005/009

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