

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/25/87 00:00:00

End : 05/25/87 23:59:00

05/25 22:00

2201

HFUS3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 145

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 MAY 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4811 (N29W54) KEPT THE ACTIVITY AT MODERATE LEVELS BY PRODUCING AN M1/2B FLARE MAXING AT 25/0342UT. ONLY MINOR RADIO ACTIVITY WAS ASSOCIATED WITH THIS FLARE. THIS REGION ALSO GENERATED SEVERAL LOW LEVEL C-CLASS FLARES OVER THE PAST 24 HOURS. THE X-RAY BACKGROUND LEVEL HAS DROPPED TO NEAR B4 FOR MOST OF THE DAY, COMPARED TO YESTERDAY'S VALUE NEAR C LEVEL. REGION 4811 HAS NOT DIMINISHED SIGNIFICANTLY IN WHITE LIGHT OR H-ALPHA STRUCTURE. NEW REGION 4812 (N23E32) EMERGED AS A SMALL BIPOLAR SPOT GROUP TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO LOW. REGION 4811 HAS POTENTIAL FOR ANOTHER LOW LEVEL M-CLASS FLARE BEFORE IT ROUNDS THE WEST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z: THE GEOMAGNETIC FIELD HAS BEEN MOSTLY ACTIVE AT MIDDLE LATITUDES DURING THE LAST 24 HOURS. MINOR STORM LEVELS WERE EXPERIENCED DURING THE 03-06UT PERIOD. THE HIGH LATITUDE FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS FOR MOST OF THE DAY WITH MAJOR STORM CONDITIONS REACHED FROM 0430-1030UT.

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

III. EVENT PROBABILITIES 26 MAY-28 MAY

CLASS M 25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 MAY 094

PREDICTED 26 MAY-28 MAY 090/086/082

90 DAY MEAN 25 MAY 082

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 MAY 019/026

ESTIMATED AFR/AP 25 MAY 024/045

PREDICTED AFR/AP 26 MAY-28 MAY 010/020-007/015-010/015

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