

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 05/01/87 00:00:00

End : 05/01/87 23:59:00

05/01 22:00

2201

HFUS3 BOU 012200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 121

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 MAY 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100Z TO 01/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION 4797 (N03W58) PRODUCED A C5/1B FLARE IN SEVERAL ERUPTIVE CENTERS AT 01/1905Z WHICH WAS ASSOCIATED WITH MINOR DISCRETE FREQUENCY RADIO BURSTS. ALTHOUGH THIS REGION HAS CHANGED LITTLE IN WHITE LIGHT, THERE IS ANOMALOUS NEUTRAL LINE STRUCTURE IN H-ALPHA WHICH WOULD SUGGEST MODERATE FLARE POTENTIAL. IN ADDITION TO ACTIVITY FROM 4797, REGION 4803 (S28W38) HAS PRODUCED A SMALL OPTICAL SUBFLARE AND PLAGE FLUCTUATIONS DURING THE PAST 24 HOURS. OTHER DISK REGIONS HAVE BEEN QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. MODERATE ACTIVITY IS POSSIBLE FROM REGION 4797 (N03W58) IF PRESENT TRENDS CONTINUE. REGION COMPLEX 4787/4790 (S32, L-132 CLASS/AREA DK1/240 ON 19 APRIL 87) IS EXPECTED TO RETURN BEGINNING ON 3 MAY. MODERATE ACTIVITY IS POSSIBLE AS THIS COMPLEX ROUNDS THE EAST LIMB.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 01/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED.

IB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED AT MIDDLE LATITUDES. THE HIGH LATITUDE FIELD IS EXPECTED TO BE GENERALLY ACTIVE WITH MINOR STORM LEVELS POSSIBLE FOR THE THIRD DAY OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 02 MAY-04 MAY

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 MAY 078

PREDICTED 02 MAY-04 MAY 080/082/084

90 DAY MEAN 01 MAY 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 APR 004/007

ESTIMATED AFR/AP 01 MAY 008/010

PREDICTED AFR/AP 02 MAY-04 MAY 012/015-010/020-010/030

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