

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/05/87 00:00:00

End : 04/05/87 23:59:00

04/05 22:00

02

HFUS3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 095

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100Z

TO 05/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGION 4783 (N04W70) IS A CSO TYPE SPOT GROUP. REGION 4786 (S22E45) IS A CRD TYPE SPOT GROUP. A NEW REGION 4787 (S30E90) WAS NUMBERED TODAY AS AN AXX TYPE SPOT GROUP (THOUGH OBSERVERS COULD NOT SEE IT VERY WELL AT THE LIMB). REGION 4786 PRODUCED SEVERAL MINOR FLARES. REGION 4787 PRODUCED A LARGE FLARE WHICH BEGAN AT 1931UT, REACHED A MAXIMUM INTENSITY AT 1939UT, AND ENDED BY 1944UT. THE X-RAY/OPTICAL CLASS OF THE LARGE FLARE WAS M1.1/ON.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE FOR THE NEXT THREE DAYS. THERE IS A CHANCE CHANCE FOR ADDITIONAL M-CLASS FLARES FROM REGION 4787. NO SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE AT MIDDLE LATITUDES AND BEEN GENERALLY QUIET WITH PERIODS OF MINOR STORM CONDITIONS AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED AT MIDDLE LATITUDES FOR THE NEXT THREE DAYS. ACTIVE CONDITIONS FOR 06-07 APRIL AND UNSETTLED CONDITIONS FOR 08 APRIL ARE EXPECTED FOR THE HIGHER LATITUDES.

III. EVENT PROBABILITIES 06 APR-08 APR

CLASS M 40/40/40

CLASS X 02/02/02

PROTON 02/02/02

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 APR 078

PREDICTED 06 APR-08 APR 080/082/082

90 DAY MEAN 05 APR 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 APR 016/016

ESTIMATED AFR/AP 05 APR 011/013

PREDICTED AFR/AP 06 APR-08 APR 012/015-014/018-013/013

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