

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/24/87 00:00:00

End : 04/24/87 23:59:00

04/24 22:00

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HFUSS BOU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 114

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100Z TO 24/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4798 (N27W57) HAS GROWN IN SIZE AND INTENSITY AND PRODUCED A C3.7 SUB-NORMAL FLARE WHICH REACHED MAXIMUM AT 0738UT. THE REGION HAS AN ARCH FILAMENT SYSTEM AND PRODUCED ADDITIONAL SUBFLARES DURING THE PERIOD. REGION 4797 (N04E37) HAS BEEN QUIET AND IS GRADUALLY DECREASING IN AREA. A NEW SIMPLE UNIPOLAR REGION 4800 (N12E33) WAS NUMBERED TODAY. ALL OF THE OTHER NUMBERED REGIONS WERE QUIET AND STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4798 IS LIKELY TO CONTINUE PRODUCING SUBFLARE ACTIVITY DURING THE PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED TO ACTIVE DURING THE PERIOD. A BRIEF PERIOD OF MINOR STORM CONDITIONS WAS REPORTED AT HIGH LATITUDES FROM 1200-1500UT.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT THREE DAYS, WITH THE EXCEPTION OF A QUIET PERIOD EXPECTED AT MID-LATITUDES ON 26 APRIL.

III. EVENT PROBABILITIES 25 APR-27 APR

CLASS M 03/03/03

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 APR 078

PREDICTED 25 APR-27 APR 078/078/078

90 DAY MEAN 24 APR 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 APR 005/007

ESTIMATED AFR/AP 24 APR 010/016

PREDICTED AFR/AP 25 APR-27 APR 010/012-005/010-010/012

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