

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/18/87 00:00:00

End : 04/18/87 23:59:00

04/18 22:00

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HFUS3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 108

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z

TO 18/2100Z: SOLAR ACTIVITY HAS BEEN LOW. REGION COMPLEX

4787/4790 (S32W76) CONTINUED TO PRODUCE SEVERAL SMALL OPTICAL

SUBFLARES AND C-CLASS X-RAY EVENTS DURING THE PAST 24 HOURS.

THE LARGEST WAS A C5/SF AT 17/2350 UT. THESE REGIONS HAVE

BEEN COMBINED INTO REGION 4790 TO EASE ANALYSIS AS THEY

APPROACH THE WEST LIMB. NEW REGION 4794 (N31E72) ROTATED

AROUND THE LIMB AS A SINGLE SMALL SPOT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. A CHANCE OF MODERATE ACTIVITY EXISTS FROM REGION 4790 BEFORE WEST LIMB PASSAGE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z:

THE GEOMAGNETIC FIELD HAS BEEN QUIET AT MIDDLE LATITUDES.

THE HIGH LATITUDE FIELD HAS BEEN QUIET TO UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED THE FIRST DAY OF THE PERIOD. MINOR STORM CONDITIONS ARE EXPECTED THE NEXT TWO DAYS AS A RESULT OF THE M1/1B FLARE (16/1616Z) AND ASSOCIATED FILAMENT DISRUPTION FROM REGIONS 4787/4790.

III. EVENT PROBABILITIES 19 APR-21 APR

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 APR 093

PREDICTED 19 APR-21 APR 090/086/082

90 DAY MEAN 18 APR 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 APR 005/007

ESTIMATED AFR/AP 18 APR 003/008

PREDICTED AFR/AP 19 APR-21 APR 010/015-030/035-030/040

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