

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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