

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/16/87 00:00:00

End : 04/16/87 23:59:00

04/16 22:00

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HFUS3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 106

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 16 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100Z  
TO 16/2100Z: SOLAR ACTIVITY WAS MODERATE. THE REGION 4790  
(S31W48) AND 4787 (S33W49) COMPLEX FLARED TO M1/1B (16/1616Z)  
WITH MINOR RADIO EVENTS. IT HAD CONTINUALLY FLUXUATED WITH  
SUB-FLARES THROUGHOUT THE PERIOD. ALTHOUGH ROTATION AND FORE-  
SHORTENING PREVENT DESIRED SEEING, THE COMPLEX APPARENTLY STILL  
IS SHEARING BETWEEN THE SOUTHERN PORTION OF THE REGION

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04/16 22:00

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HFUS3 BOU 162200 RTD

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SDF NUMBER 106

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SUB-FLARES THROUGHOUT THE PERIOD. ALTHOUGH ROTATION AND FORE-  
SHORTENING PREVENT DESIRED SEEING, THE COMPLEX APPARENTLY STILL  
IS SHEARING BETWEEN THE SOUTHERN PORTION OF THE REGION 4790  
MAIN SPOT AND REGION 4787 IMMEDIATELY SOUTH AND WEST. THE  
MAGNETIC CONFIGURATION IS STILL DOMINATED BY REGION 4790. MOST  
OF THE CHARACTERISTICS IN H-ALPHA AND OTHER WAVELENGTHS DEPICT  
A LARGE COMPLEX WITH REGION 4790'S LARGE, MAIN SPOT 'MOVING'  
AHEAD AND THROUGH THE NORTHERN PORTIONS OF REGION 4787'S  
TRAILING SPOTS. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
LOW. THE REGION 4790 AND REGION 4787 COMPLEX CONTINUES TO  
PROVIDE A FAIR CHANCE OF MODERATE ACTIVITY. THEY BOTH STILL  
HAVE A VERY SLIGHT CHANCE OF MAJOR FLARING WITH ASSOCIATED  
PROTON ENHANCEMENT.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z:  
THE GEOMAGNETIC FIELD WAS UNSETTLED TO QUIET.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE ACTIVE THE FIRST ONE-HALF OF THE PERIOD. THE  
LAST ONE-HALF IS EXPECTED TO BE AT ACTIVE TO MINOR STORM

CONDITIONS DUE TO THE MAJOR M1/1B FLARE OF 16/1616Z. MAJOR  
STORM CONDITIONS ARE POSSIBLE AT HIGH LATITUDES DURING LOCAL

MIDNIGHT PERIODS.

III. EVENT PROBABILITIES 17 APR-19 APR

CLASS M 20/20/20

CLASS X 02/02/02

PROTON 05/05/05

PCAF YELLOW

OTTAWA 10.7 CM FLUX

OBSERVED 16 APR 105

PREDICTED 17 APR-19 APR 093/091/088

90 DAY MEAN 16 APR 076

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 APR 008/008

ESTIMATED AFR/AP 16 APR 007/010

PREDICTED AFR/AP 17 APR-19 APR 015/016-019/024-024/030

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