

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

2205

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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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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