

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 04/06/87 00:00:00

End : 04/06/87 23:59:00

04/06 22:00

37

HFUS3 BOU 062200 RTD

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 096

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 APR 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100Z TO 06/2100Z: SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGION 4783 (N05W84) IS AN HSX TYPE SPOT GROUP. REGION 4786 (S22E32) HAS GROWN SUBSTANTIALLY AND IS A DSC TYPE SPOT GROUP. REGION 4786 PRODUCED A FEW MINOR FLARES. REGION 4787 (S32E70) IS A CAO TYPE SPOT GROUP WHICH WAS NUMBERED ON THE EAST LIMB LATE YESTERDAY. REGION 4787 PRODUCED A FLARE WHICH BEGAN AT 0427UT, REACHED A MAXIMUM FLUX AT 0435UT, AND ENDED AT 0440UT 06 APRIL. THE X-RAY/OPTICAL CLASS WAS C9.2/ON. THIS FLARE WAS ACCOMPANIED BY A TYPE 2 SWEEP FREQUENCY RADIO EVENT. NO NEW REGIONS WERE NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW TO MODERATE FOR THE NEXT THREE DAYS. REGIONS 4786 AND 4787 ARE CAPABLE OF PRODUCING ADDITIONAL C AND M CLASS X-RAY EVENTS. NO SIGNIFICANT REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET TO UNSETTLED AT ALL LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE AT ALL LATITUDES FOR THE NEXT THREE DAYS. ACTIVE PERIODS MAY OCCUR IN THE LOCAL NIGHTTIME SECTORS AS THE EFFECTS OF A LARGE FILAMENT DISRUPTION (03 APRIL) REACH THE EARTH.

III. EVENT PROBABILITIES 07 APR-09 APR

CLASS M 70/70/70

CLASS X 05/05/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 APR 089

PREDICTED 07 APR-09 APR 092/093/094

90 DAY MEAN 06 APR 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 APR 013/014

ESTIMATED AFR/AP 06 APR 008/012

PREDICTED AFR/AP 07 APR-09 APR 014/018-014/015-014/015

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