

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/06/86 00:00:00

End : 07/06/86 23:59:00

07/06 22:00

2125

US3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 187

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 JUL 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100 TO 06/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. HOWEVER, THERE ARE TWO NUMBERED REGIONS ON THE SOLAR DISK AND BOTH HAVE PRODUCED SUBFLARES WITH SMALL X-RAY ENHANCEMENTS. REGION 4734 (N27W47), A NEW CYCLE GROUP, HAS REMAINED MOSTLY STABLE IN WHITE LIGHT BUT HAS INCREASED IN MAGNETIC COMPLEXITY. THE LEADER PENUMBRAL AREA NOW CONTAINS SPOTS OF OPPOSITE POLARITIES (A DELTA CONFIGURATION). REGION 4735 (S00E66), OLD CYCLE POLARITY, IS A GROWING C-TYPE GROUP CONTAINING ACTIVE DARK FILAMENTS. A FILAMENT OF APPROXIMATELY 10 DEGREES IN LENGTH DISAPPEARED FROM S45W01 BETWEEN 0421 AND 0500 UT. IT HAD BEEN REPORTED AS ACTIVE EARLIER IN THE PERIOD. THE SOLAR LIMBS WERE QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW TO LOW FOR THE NEXT THREE DAYS. REGIONS 4734 AND 4735 COULD BOTH PRODUCE C-CLASS X-RAY EVENTS. HOWEVER, ISOLATED SIGNIFICANT (M-CLASS) FLARES ARE POSSIBLE FROM REGION 4734.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO PERSIST AT QUIET TO OCCASIONALLY UNSETTLED LEVELS FOR THE NEXT THREE DAYS. ACTIVITY MAY INCREASE DURING THE FOLLOWING THREE DAYS IN RESPONSE TO DISTURBED SOLAR WIND ASSOCIATED WITH TODAY'S FILAMENT DISAPPEARANCE.

III. EVENT PROBABILITIES 07 JUL-09 JUL

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JUL 072

PREDICTED 07 JUL-09 JUL 072/072/072

90 DAY MEAN 06 JUL 072

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 JUL 007/011

ESTIMATED AFR/AP 06 JUL 004/011

PREDICTED AFR/AP 07 JUL-09 JUL 005/013-005/014-005/015

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