

HFUS3 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 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/2100 TO 06/2100Z: SOLAR ACTIVITY CONTINUES VERY LOW. FREQUENT B-LEVEL XRAY ENHANCEMENTS HAVE BEEN DETECTED DURING THE PERIOD AS THE XRAY BACKGROUND LEVEL HAS INCREASED. IN ADDITION, A C1/0F FLARE WAS OBSERVED IN REGION 4671 (S14E03), WITH MAXIMUM AT 0244Z. THIS REGION HAS GROWN IN WHITE LIGHT AND ALONG WITH REGION 4672 (S18E05) FORMS A COMPLEX NOW NEAR DISK CENTER. REGION 4672 HAS ALSO EXHIBITED SIGNIFICANT WHITE LIGHT GROWTH WHILE YIELDING SUBFLARES AT A RATE OF ROUGHLY 1 EVERY 2 HOURS OVER THE LATTER PART OF THE PERIOD. EARLIER A SMALL BIPOLAR SPOT GROUP WAS OBSERVED NEAR N05E34, BUT SUBSEQUENT OBSERVATIONS FAILED TO DETECT IT. CONSEQUENTLY, NO NEW REGION WAS ASSIGNED. REGION 4670 (S09W26) HAS QUIETLY DECAYED AND THE LIMBS HAVE BEEN QUIET AS WELL.

IB. SOLAR ACTIVITY FORECAST: AN ISOLATED M-CLASS EVENT IS POSSIBLE FROM THE 4671/4672 COMPLEX, BUT THE MOST PROBABLE OCCURRENCE WOULD BE CONTINUED SUBFLARE ACTIVITY FOR THE NEXT 72 HOURS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 05/2100Z TO 06/2100Z: THE GEOMAGNETIC FIELD WAS AT UNSETTLED TO MILDLY ACTIVE LEVELS THE PAST 24 HOURS. THE DISTURBANCE ASSOCIATED WITH M-4 FLARE OF JULY 2 HAS APPARENTLY ENDED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED TO MILDLY ACTIVE LEVELS ARE EXPECTED THROUGH JULY 8. THE ACTIVITY LEVEL WILL THEN SUBSIDE TO STRICTLY UNSETTLED CONDITIONS ON JULY 9.

III. EVENT PROBABILITIES 07 JUL-09 JUL

CLASS M 15/15/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 JUL 085

PREDICTED 07 JUL-09 JUL 087/087/086

90 DAY MEAN 06 JUL 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 JUL 016/024

ESTIMATED AFR/AP 06 JUL 017/020

PREDICTED AFR/AP 07 JUL-09 JUL 015/020-015/020-010/015

SOLTERWARN

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