

FUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 191

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/2100 TO 10/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 4235 (S20W43) PRODUCED AN M1/1B AT 10/1852Z WITH MINOR CENTIMETRIC RADIO BURSTS. THIS REGION ALSO PRODUCED A C2/SN AT 10/0832Z WITH A WEAK TYPE II BURST. VERY LITTLE WHITE LIGHT CHANGE HAS BEEN OBSERVED IN THIS REGION AND ITS MAGNETIC COMPLEXITY HAS DECREASED. REGIONS 4236 (S11W27) AND 4237 (S17E21) PRODUCED LOW LEVEL CLASS C SUBFLARES. REGION 4234 (S09W38) HAS EXHIBITED LEADER DECAY. A SMALL CLASS H SPOT ROTATED ONTO THE DISK AND WAS NUMBERED REGION 4240 (S13E77).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY LOW FOR THE FORECAST PERIOD. AT THIS TIME, REGION 4235 IS NOT EXPECTED TO BE A FREQUENT CLASS M FLARE PRODUCER. REGIONS 4236 AND 4237 SHOULD CONTINUE TO PRODUCE SUBFLARES. SEVERAL SMALL REGIONS ARE DUE TO RETURN TO THE EAST LIMB DURING THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 09/2100Z TO 10/2100Z: THE GEOMAGNETIC FIELD QUIETED SLIGHTLY TO BECOME PREDOMINANTLY UNSETTLED DURING THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: UNSETTLED GEOMAGNETIC CONDITIONS SHOULD CONTINUE FOR THE FORECAST PERIOD WITH SLIGHTLY ACTIVE LEVELS FORECAST FOR HIGH LATITUDES.

III. EVENT PROBABILITIES 11 JUL-13 JUL

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JUL 119

PREDICTED 11 JUL-13 JUL 119/119/121

90 DAY MEAN 10 JUL 135

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 JUL 014/018

ESTIMATED AFR/AP 10 JUL 008/015

PREDICTED AFR/AP 11 JUL-13 JUL 010/015-010/020-010/015

SOLTERWARN

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