

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 192

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 11 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/2100 TO 11/2100Z: SOLAR ACTIVITY WAS LOW FOR THE PERIOD. REGION 4235 (S20W55) ENTERED A STRONG GROWTH PHASE LATE YESTERDAY AND DOUBLED IN AREA DURING THE PAST 24 HOURS. THIS REGION PRODUCED A C6/1B AT 11/1317Z WITH MINOR RADIO BURSTS. REGION 4235 RETAINS ITS BETA GAMMA MAGNETIC CLASSIFICATION AND GRADIENTS HAVE INCREASED GREATLY, ESPECIALLY IN THE TRAILER. REGION 4236 (S11W40) ALSO EXHIBITED SIGNS OF GROWTH AND HAS PRODUCED SEVERAL SUBFLARES. THREE SMALL REGIONS EMERGED ON THE DISK AND WERE NUMBERED 4241 (S11E36), 4242 (N08W01), AND 4243 (N14E14).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD RESUME MODERATE LEVELS FOR THE NEXT THREE DAYS WITH OCCASIONAL CLASS M FLARES EXPECTED FROM 4235. AT THIS POINT THE REGION DOES NOT APPEAR TO BE A THREAT FOR MAJOR FLARES BUT COULD PRIOR TO WEST LIMB TRANSIT SHOULD CURRENT TRENDS CONTINUE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 10/2100Z TO 11/2100Z: THE GEOMAGNETIC FIELD WAS QUIET AT MID LATITUDES AND QUIET TO UNSETTLED AT HIGH LATITUDES DURING THE PAST 24 HOURS.

IIB. GEORPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD CONTINUE AT NEAR QUIET LEVELS FOR MID LATITUDE SITES UNTIL 14 JULY WHEN UNSETTLED CONDITIONS ARE EXPECTED TO BEGIN. HIGH LATITUDE CONDITIONS SHOULD BE GENERALLY UNSETTLED THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 12 JUL-14 JUL

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 11 JUL 122

PREDICTED 12 JUL-14 JUL 125/127/125

90 DAY MEAN 11 JUL 135

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 10 JUL 006/009

ESTIMATED AFR/AP 11 JUL 005/010

PREDICTED AFR/AP 12 JUL-14 JUL 008/015-008/015-012/015

SOLTERWARN

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