

FUS 3 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 193

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 12 JUL 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 11/2100 TO 12/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY A FEW LOW LEVEL CLASS C X-RAY BURSTS HAVING OCCURRED DURING THE PAST 24 HOURS. SUBFLARES HAVE BEEN REPORTED FOR REGIONS 4235 (S21W68) AND 4236 (S11W52). THOUGH PENUMBRAL GROWTH OF THE TRAILER HAS CONTINUED IN REGION 4235, THE MAGNETIC COMPLEXITY HAS NOT INCREASED FOR THIS REGION. DURING THE PAST FEW HOURS, REGION 4243 (N15E04) HAS BEGIN TO GROW RAPIDLY AND SHOULD BECOME THE SITE FOR SUBFLARE ACTIVITY. REGION 4244 (S14E32), A SIMPLE A-TYPE SPOT, HAS EMERGED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW WITH A SLIGHT CHANCE FOR AN ISOLATED CLASS M FLARE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 11/2100Z TO 12/2100Z: THE GEOMAGNETIC FIELD WAS QUIET UNTIL 1200Z. SINCE THEN, THE FIELD HAS BEEN MODERATELY UNSETTLED AT MID LATITUDES AND ACTIVE AT HIGH LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED WITH SHORT PERIODS AT ACTIVE LEVEL THROUGH 14 JULY. THE REMNANTS OF AN EQUATORIAL CORONAL HOLE IS EXPECTED TO BRING THE FIELD UP TO ACTIVE LEVELS ON 15 JULY.

III. EVENT PROBABILITIES 13 JUL-15 JUL

CLASS M 25/15/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JUL 121

PREDICTED 13 JUL-15 JUL 119/116/111

90 DAY MEAN 12 JUL 135

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 11 JUL 005/008

ESTIMATED AFR/AP 12 JUL 010/015

PREDICTED AFR/AP 13 JUL-15 JUL 010/015-012/015-015/025

SOLTERWARN

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