

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 PENUMBRA 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 BEGUN 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.

DIA. 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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