

FUS 3 BCU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 144

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 24 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/2100
TO 24/2100Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY AN OCCASIONAL
LOW LEVEL CLASS C FLARE OCCURRING. EXCEPT FOR THE LARGE LEADER
SPOT, REGION 4183 (N18W15) HAS CONTINUED TO DECAY, AND
SIMPLIFY, IN ITS STRUCTURE. REGION 4187 (S18E26) IS SLOWING ITS
GROWTH PHASE AND REMAINS A PLAIN BIPOLAR GROUP. OTHER DISK
REGIONS ARE SIMPLE IN STRUCTURE. REGION 4192 (S15E08) WAS ADDED
TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 23/2100Z TO 24/2100Z:
THE GEOMAGNETIC FIELD WAS AT ACTIVE TO STORM LEVEL UNTIL 1600Z
AT WHICH TIME THE MAIN PHASE OF A MAJOR STORM BEGAN. SOURCE OF
THIS STORM IS UNCERTAIN AS NO SIGNIFICANT FLARE OR FILAMENT
DISRUPTION OCCURRED IN THE APPROPRIATE TIME FRAME.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE CURRENT STORM IS
EXPECTED TO ABATE NEAR 1200Z. HOWEVER, THE FIELD IS EXPECTED TO
BE ACTIVE WITH PERIODS AT MINOR STORM LEVEL THROUGHOUT THE
BALANCE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 25 MAY-27 MAY

CLASS M 10/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAY 137

PREDICTED 25 MAY-27 MAY 135/133/130

90 DAY MEAN 24 MAY 125

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 23 MAY 036/043

ESTIMATED AFR/AP 24 MAY 042/050

PREDICTED AFR/AP 25 MAY-27 MAY 024/030-018/030-028/035

SOLTERWARN

BT