

FUS 3 BOU 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

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