

HFUS 1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, CO

SDF NUMBER 056

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 25 FEBRUARY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO LOW DURING THE PAST 24 HOURS. DURING THAT TIME SEVEN SMALL C-CLASS SUBFLARES WERE OBSERVED, AS WELL AS TWO SMALL M-CLASS EVENTS. THE FIRST M-CLASS FLARE WAS A SLOW-RISING M1 BURST WITH NO ASSOCIATED OPTICAL FLARE REPORTED. TIME OF MAXIMUM WAS 25/0015Z. THE OTHER M-CLASS EVENT WAS AN M1 (IN OPTICALLY) FROM REGION 1591 (S22E47) WITH A MAXIMUM AT 0704Z THIS EVENT WAS ACCOMPANIED BY SMALL MICROWAVE RADIO BURSTS (63 F.U. AT 2695 MHZ) AND STRONG SHORTWAVE FADES (UP TO 18 MHZ). REGION 1574 (N18W86) HAS DIMINISHED GREATLY, DURING THE PAST 24 HOURS AND NOW SEEMS CAPABLE OF PRODUCING ONLY MINOR FLARING AT THE LIMB.

IB. AS REGION 1574 DECLINES AND SWINGS OUT OF SIGHT OVER THE WEST LIMB, ACTIVITY IS DECREASING RAPIDLY. REGION 1591 DID NOT APPEAR CAPABLE OF THE M1 EVENT IT PRODUCED THIS UT DAY BUT IT HAS NOW IDENTIFIED ITSELF AS AN ENERGETIC REGION. NEW REGION 1593 (S32W12) IS A D-CLASS SPOT GROUP THAT IS GROWING RAPIDLY AND MAY BECOME A FLARE PRODUCER WITHIN A DAY OR TWO.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS EXPECTED TO BECOME GRADUALLY QUIETER OVER THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 25 - 28 FEBRUARY 1979

CLASS M 30/20/15

CLASS X 05/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 FEBRUARY 170

PREDICTED 26 - 28 FEBRUARY 164/160/160

90-DAY MEAN 25 FEBRUARY 195

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 FEBRUARY 16

ESTIMATED AFR/AP 25 FEBRUARY 10/13

PREDICTED AFR/AP 26 - 28 FEBRUARY 13/14 07/08 07/08

SOLTERWARN

BT