

HFUS 1 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 36

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 FEBRUARY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. AN M2 X-RAY BURST AT 05/0635Z WAS ACCOMPANIED BY A TYPE II AND IV DEKAMETRIC BURST; A 190 F.U. BURST AT 10 CM; AND, IMPORTANCE TWO SHORT WAVE FADE. NO OPTICAL REPORT HAS YET BEEN RECEIVED FOR THIS EVENT. REGION 1555 PRODUCED A M2/1B FLARE AT 05/2115Z. THIS FLARE IS STILL IN PROGRESS AT THE TIME OF REPORT PREPARATION. OTHER FLARES HAVE BEEN CLASS C /SUBFLARES FROM REGIONS 1545 (N07W31); 1548 (S12W11); 1555 (S20E41), AND 1556 (N16E43). REGION 1548 IS LARGE IN SPOT AND H-ALPHA STRUCTURE BUT SIMPLE IN MAGNETIC STRUCTURE. REGION 1555 IS SMALL IN H-ALPHA STRUCTURE BUT THE SPOTS ARE IN A N-S ORIENTATION. THIS REGION HAS THE POTENTIAL OF GROWING INTO A DELTA CONFIGURATION. REGION 1556 HAS A NEARLY CIRCULAR NEUTRAL LINE ABOUT THE LARGE LEADER SPOT.

IB. REGIONS 1548, 1555, AND 1556 HAVE THE POTENTIAL FOR INTERMITTENT CLASS M ACTIVITY DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS ACTIVE THE FIRST HALF OF THE DAY AND HAS SINCE BECOME UNSETTLED TO QUIET. THE FIELD IS EXPECTED TO BE GENERALLY QUIET DURING DAYLIGHT AND UNSETTLED DURING LOCAL NIGHTTIME DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 06-08 FEBRUARY

CLASS M 06/70/80

CLASS X 05/05/10

PROTON 05/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 FEB 203

PREDICTED 06 - 08 FEB 204/205/205

90-DAY MEAN 05 FEB 180

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 04 FEB 16

ESTIMATED AFR/AP 05 FEB 10/14

PREDICTED AFR/AP 06 - 08 FEB 08/09 06/08 06/07

SOLTERWARN

BT