

HFUS 1 BON 1222 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 243

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 FEBRUARY 1979

I A. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGION 1556 (N15W52) WAS MOST ACTIVE WITH THE OCCURRENCE OF AN M4/SN CLASS FLARE ON 12/0018UT. AND AN OPTICAL 1B FLARE REPORTED AT 12/0012Z. THESE FLARES WERE ACCCOMPANIED BY SHORT WAVE FADES AND MINOR RADIO NOISE BURSTS. AN M2/1B FLARE OCCURRED FROM REGION 1561 (S35E 16) AT 12/1945UT. THERE WERE MODERATE RADIO BURSTS AND AN IMPORTANCE 3 SHORT WAVE FADE ASSOCIATED. SEVERAL OTHER MINOR M-CLASS X-RAY FLARES WERE OBSERVED DURING THE DAY WITH NO ASSOCIATED OPTICAL FLARES REPORTED. REGION 1556 IS A COMPLEX GAMMA, E-TYPE MAGNETIC GROUP WITH POINT BRIGHTENINGS AND AN ARCH FILAMENT SYSTEM OBSERVED. REGION 1561 (S36E 12) IS A MODERATELY COMPLEX E-TYPE BETA GAMMA.

I B. SOLAR ACTIVITY SHOULD REMAIN AT MODERATE LEVELS FOR THE NEXT 24 HOURS. REGION 1556 APPEARS CAPABLE OF PRODUCING SIGNIFICANT ENERGETIC EVENTS AND REGIONS 1561 AND 1559 (S20E 38) COULD PRODUCE MODERATELY ENERGETIC EVENTS DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS AT UNSETTLED TO MINOR STORM LEVELS DURING THE PAST 24 HOURS, WITH MINOR STORM LEVELS OCCURRING FROM 06 TO 12 UT. THE FIELD SHOULD REMAIN AT PREDOMINATELY UNSETTLED LEVELS WITH OCCASIONAL ACTIVE PERIODS DURING LOCAL NIGHTIME OVER THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 13-15 FEB

CLASS M 9 0/9 0/9 0

CLASS X 15 / 15 15 / 15

PROTON 15 / 15 / 15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 FEB 199

PREDICTED 13-15 FEB 200/200/205

90-DAY MEAN 12 FEB 184

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 11 FEB 98

ESTIMATED AFR/AP 12 FEB 18/23

PREDICTED AFR/AP 13-15 FEB 10/15 - 08/13 - 15/20

SOLIER, WAR N

BT