

HFUS 1 BOU 1622 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 247

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 16 FEBRUARY 1979

I A. SOLAR ACTIVITY WAS HIGH TODAY. REGION 1574 (N16E34) PRODUCED AN X2/2B FLARE AT 0145Z FOLLOWED BY TWO M-CLASS X-RAY FLARES WITHOUT OPTICAL REPORTS. THE X-CLASS FLARE WAS ACCCOMPANIED BY A STRONG TYPE II AND A MOVING TYPE IV RADIO BURST. NUMEROUS C-CLASS X-RAY EVENTS WERE OBSERVED WITHOUT OPTICAL REPORTS. NO PROTONS WERE OBSERVED. NO NEW REGIONS WERE REPORTED.

B. SOLAR ACTIVITY IS EXPECTED TO BECOME MODERATE. REGION 1574 REMAINS THE MOST LIKELY TO PRODUCE SIGNIFICANT FLARING. A PROTON EVENT IS NOT EXPECTED DUE TO THE EASTERLY POSITION OF REGION 1574.

II. THE GEOMAGNETIC FIELD WAS QUIET TODAY. A MINOR MAGNETIC STORM IS EXPECTED LATE IN THE ZULU DAY OF 17 FEBRUARY OR EARLY ON 18 FEBRUARY CAUSED BY THE FLARE FROM REGION 1574.

III. EVENT PROBABILITIES 17 FEB - 19 FEB

CLASS M 9.0/9.0/85

CLASS X 4.0/3.0/25

PROTON 3.0/2.0/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 FEB 214

PREDICTED 17 FEB - 19 FEB 215/216/210

90-DAY MEAN 16 FEB 188

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 15 FEB 00

ESTIMATED AFR/AP 16 FEB 05/08

PREDICTED AFR/AP 17 - 19 FEB 07/10 35/40 27/30

SOLTERWARN

BT