

HFUS - BOU 252200
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDE NUMBER 025

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 JANUARY 1980

I.A. SOLAR ACTIVITY CONTINUES MODERATE. AN M7/1B EVENT IN PROGRESS AT 2151Z WITH MAJOR RADIO BURST AT 10CM (APPROX 1000 F.U.) OCCURRED IN REGION 2247 (S16W52). A TYPE II BURST ACCOMPANIED THE M7 EVENT. THIS REGION HAS A LARGE CLASS D SPOT GROUP WITH LARGE FOLLOWER SPOT WHICH HAS ROTATED CLOCKWISE THROUGH 90 DEGREES DURING THE PAST 48 HOURS. AN M1/SN FLARE OCCURRED HERE AT 1603Z. NUMEROUS CLASS C EVENTS HAVE OCCURRED IN REGION 2245 (N07W72) WHICH HAS GROWN SIGNIFICANTLY TO A SMALL CLASS D SPOT GROUP.

I.B. ADDITIONAL MAJOR EVENTS ARE EXPECTED FROM REGION 2247 AND MAY ALSO OCCUR IN REGION 2245 IF GROWTH CONTINUES. SIGNIFICANT REGIONS ARE EXPECTED TO RETURN TO EAST LIMB DURING THE NEXT THREE DAYS.

I.I. PROTONS ARE EXPECTED BY 26/0200Z. THE GEOMAGNETIC FIELD HAS BEEN QUIET. A MINOR SUDDEN COMMENCEMENT AT 1040Z HAS BEEN FOLLOWED BY QUIET CONDITIONS WITH MORE FREQUENT SMALL SCALE VARIATIONS. UNSETTLED CONDITIONS TOMORROW WILL BE FOLLOWED BY A MINOR MAGNETIC STORM FROM THE M7/1B FLARE.

III. EVENT PROBABILITIES 26-28 JANUARY

CLASS M 90/90/90

CLASS X 20/30/30

PROTON 70/30/30

PCAF RED

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JAN 184

PREDICTED 26-28 JAN 190/194/202

90-DAY MEAN 25 JAN 216

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 24 JAN 04

PREDICTED AFR/AP 25 JANUARY 06/07

PREDICTED AFR/AP 26-28 JAN 14/15 26/30 14/20

SOLTERWARN

BT