

HFUS . BDU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 025

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

IA. 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.

IB. 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.

II. 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 A INDICES

OBSERVED FREDERICKSBURG 24 JAN 04

ESTIMATED AFR/AP 25 JANUARY 06/07

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

SOLTERWARN

BT