

HFUS 1 BDU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 026

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 26 JANUARY 1980

IA. SOLAR ACTIVITY HAS BEEN LOW WITH SMALL CLASS C EVENTS PRIMARILY FROM REGION 2245 (N09W85). THIS REGION CONTINUES TO GROW AND NOW NEARLY EQUALS THE SIZE OF REGION 2247 (S16W65). FREQUENT SURGES AND LOOP-LIKE PROMINENCES MARK THE COMMENCEMENT OF WEST LIMB PASSAGE FOR REGION 2245. REGION 2247 HAS BECOME DOCILE FOLLOWING ITS M7 EVENT YESTERDAY. ITS LARGE TRAILING SPOT REMAINS EXCEPTIONALLY DARK AND THE MAGNETIC GRADIENT IS STILL STRONG. REGION 2259 (N06E71) IS BRIGHT, COMPACT AND HAS A MODEST CLASS D SPOT GROUP. NO PROTONS HAVE BEEN DETECTED TODAY.

IB. SOLAR ACTIVITY WILL BE MODERATE UNTIL REGION 2247 TRANSITS WEST LIMB ON THE SECOND DAY. THE RETURN OF ACTIVE LONGITUDES TO EAST LIMB IS EXPECTED TO OFFSET THE LOSS OF RADIO FLUX FROM REGIONS 2245 AND 2247.

FLARE ACTIVITY WILL DROP TO A LOW LEVEL BY THIRD DAY. REGION 2247 RETAINS POTENTIAL FOR A PROTON FLARE.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. UNSETTLED CONDITIONS MAY OCCUR TOMORROW AS PLASMA FROM FRIDAY'S FLARE REACHES EARTH. A RETURN TO QUIET CONDITIONS IS EXPECTED EARLY ON THE 28TH.

III. EVENT PROBABILITIES 27 - 29 JAN

CLASS M 90/80/60

CLASS X 30/20/10

PROTON 30/20/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 JAN 190

PREDICTED 27 - 29 JAN 194/200/207

90-DAY MEAN 26 JAN 216

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 25 JAN 08

ESTIMATED AFR/AP 26 JAN 06/08

PREDICTED AFR/AP 27 - 29 JAN 16/20 10/15 08/12

SOLTERWARN

BT