

HFUS 1 B O U 3 1 2 2 0 0

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 031

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 31 JANUARY 1980

IA. AN M<sub>1</sub>/SN EVENT EARLY ON THIS ZULU DAY HAS BEEN THE MOST  
SIGNIFICANT ACTIVITY SO FAR TODAY. REGION 2266 (S15E52) PRODUCED  
THIS M1 AT 0441 U.T. AND IS APPARENTLY THE MOST DYNAMIC REGION  
AT THE PRESENT TIME. WHITE LIGHT CHANGES IN REGION 2266 INCLUDE  
SPOT GROWTH AND A CLASS CHANGE FROM TYPE "E" YESTERDAY TO TYPE "D"  
TODAY. THE FLARE IS SOMEWHAT MOTTLED IN APPEARANCE BUT HAS  
BEEN QUITE BRIGHT ON OCCASION. DEVELOPMENT IN THE SATELLITE AREAS  
OF BOTH REGIONS 2262 AND 2267 COULD GENERATE SOME INTERACTION  
BETWEEN THE TWO AND MAKE THIS A PLAUSIBLE LOCALE FOR FLARE ACTIVITY  
DURING THE NEXT 24 HOURS. MOST OTHER SPOT GROUPS HAVE SHOWN  
LITTLE CHANGE DURING THE PAST 24 HOURS OR THEY ARE DECLINING. A  
SMALL SPOT AND FAINT FLARE COMING OVER THE EAST LIMB HAS BEEN  
NUMBERED REGION 2269.

IB. SOLAR ACTIVITY SHOULD BE AT MODERATE LEVELS DURING THE COM-  
ING 24 HOURS. REGION 2266 AS WELL AS REGIONS 2262 AND 2267 POSSESS  
THE POTENTIAL FOR ENERGETIC ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET. LITTLE CHANGE  
IS EXPECTED.

III. EVENT PROBABILITIES 01 - 03 FEB

CLASS M 90/90/90

CLASS X 10/15/20

PROTON 10/15/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 JAN 228

PREDICTED 01-03 FEB 232/235/239

90-DAY MEAN 31 JAN 215

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 30 JAN 10

ESTIMATED AFR/AP 31 JAN 05/05

PREDICTED AFR/AP 01-03 FEB 05/07 07/08 06/07

SOLTERWARN

BT