

HFUS 1 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 057

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

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS.  
THE LARGEST EVENT WAS AN M1 X-RAY BURST STARTING AT 1745 UT AND  
REACHING MAXIMUM AT 1757 UT. THIS BURST IS SUSPECTED TO HAVE  
ORIGINATED FROM BEHIND THE NORTHEAST LIMB. MATERIAL AND POSSIBLE  
LOOPS WERE OBSERVED IMPACTING THE DISK AT N18E88, CAUSING A  
SMALL SUBFLARE IN THIS AREA. SINCE THE OCCURRENCE OF THIS FLARE,  
A NEW H-TYPE SPOT HAS BECOME VISIBLE IN THIS AREA AND IS NUMBERED  
REGION 2302. IT IS PROBABLE THAT THERE IS MORE TO THIS REGION  
STILL BEHIND THE NE LIMB. SHORT WAVE FADES (IMPORTANCE 2) AND  
MINOR DISCRETE RADIO BURSTS WERE OBSERVED WITH THIS EVENT.  
SEVERAL NEW REGIONS HAVE BEEN REPORTED, REGION 2299 (N05E21)  
A C-TYPE, 2300 (N03E74) A D-TYPE, AND 2301 (S33W30) A B-TYPE  
GROUP.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS  
WITH A GENERAL INCREASE IN THE OCCURRENCE OF M-CLASS EVENTS  
THROUGH THE PERIOD. THE NE LIMB IS THE MOST PROBABLE SOURCE;  
HOWEVER, REPORTS OF SURGING AT SE10 COULD INDICATE A SIGNIFI-  
CANT REGION IN THIS AREA.

II. THE GEOMAGNETIC FIELD WAS GENERALLY UNSETTLED DURING THE  
PAST 24 HOURS WITH PERIODS OF ACTIVE CONDITIONS BETWEEN 00-03  
UT. AND 15-18 UT. UNSETTLED TO OCCASSIONLY ACTIVE LEVELS ARE  
EXPECTED THROUGH THE NEXT 24 HOURS, THEN BECOMING UNSETTLED THE  
REMAINING TWO DAYS.

III. EVENT PROBABILITIES 27 FEB - 29 FEB

CLASS M 60/70/80

CLASS X 10/20/30

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 FEB 172

PREDICTED 27-29 FEB 185/195/200

90-DAY MEAN 26 FEB 205

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 FEB 10

ESTIMATED AFR/AP 26 FEB 13/15

PREDICTED AFR/AP 27-29 FEB 10/12 08/08 08/08

SOLTERWARN

BT