

HFUS 1 BQU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 044

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 13 FEBRUARY 1979

IA. SOLAR ACTIVITY HAS CONTINUED AT MODERATE LEVELS OVER THE  
PAST 24 HOUR PERIOD. REGION 1556 (N15W52) REMAINS THE MAJOR  
CONTRIBUTOR WITH SMALL M-CLASS X-RAY FLARES. THIS E-TYPE,  
GAMMA-DELTA REGION APPEARS COMPLEX MAGNETICALLY WITH FLUCTUATING  
BROKEN FLARE DURING THE PERIOD. REGION 1568 (N19E51) PRODUCED  
AN M1/SR FLARE AT N17E54 ON 13/1942 U.T. WITH ASSOCIATED SHORT  
WAVE FADES AND MINOR RADIO NOISE BURSTS. REGION 1568 HAS BROKEN  
MODERATE INTENSITY FLARE WITH STRONG FLUCTUATIONS. OTHER REGIONS  
HAVING PRODUCED MINOR C-CLASS X-RAY AND SMALL OPTICAL FLARES ARE  
RGN 1561 (S37E20) WITH A C5/SN AT 0034 U.T. AND RGN 1560 (S17W16)  
WITH SEVERAL SUBFAINT FLARES.

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE TO HIGH. RGN 1568 IS  
ROTATING FURTHER ON TO THE VISIBLE DISK AS RGN 1556 APPROACHES THE  
WEST LIMB; THESE REGIONS COLLECTIVELY KEEP THE POTENTIAL FOR A  
SIGNIFICANT ENERGETIC EVENT HIGH. RGNS 1560 AND 1561 ARE ALSO  
CAPABLE OF MODERATELY ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN PREDOMINATELY QUIET OVER THE  
LAST 24 HOURS. THE FIELD SHOULD REMAIN AT QUIET TO UNSETTLED  
LEVELS DURING THE NEXT PERIOD.

III. EVENT PROBABILITIES 14 FEB - 16 FEB 1979

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 17.7 CM FLUX

OBSERVED 13 FEB 202

PREDICTED 14 FEB - 16 FEB 204/206/204

90-DAY MEAN 13 FEB 185

V. GEOMAGNETIC 4 INDICES

OBSERVED FREDERICKSBURG 12 FEB 15

ESTIMATED AFR/AP 13 FEB 05/05

PREDICTED AFR/AP 14 FEB - 16 FEB 08/08 12/14 12/15

SOLIERWARN

BT