

HFUS 1 BOU 092200  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO  
SDF NUMBER 040

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 09 FEBRUARY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 24 HOURS. REGION  
1556 (N16W09) HAS SHOWN CONTINUED GROWTH IN SUNSPOT NUMBER AND  
MAGNETIC COMPLEXITY AND PRODUCED A IN/M3 FLARE AT 0757Z. THIS  
REGION HAS ALSO PRODUCED SEVERAL OPTICAL SUBFLARES AND C-CLASS  
XRAY EVENTS. REGION 1445 (N08W85) IS CROSSING THE WEST LIMB AT  
THIS TIME AND PRODUCED AN M1 X-RAY EVENT AT 1901Z (NO OPTICAL  
FLARE OBSERVED). REGION 1555 (S20W12) HAS SIMPLIFIED SOMEWHAT  
IN MAGNETIC COMPLEXITY AND HAS ONLY PRODUCED OPTICAL SUBFLARES  
AND SMALL C-CLASS X-RAY EVENTS. REMAINING REGIONS ARE MAGNET-  
ICALLY SIMPLE AND HAVE PRODUCED LITTLE ACTIVITY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS FOR  
THE NEXT 24 HOURS. INCREASING COMPLEXITY IN REGION 1556 MAKE  
IT THE MOST LIKELY CANDIDATE FOR ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24  
HOURS. QUIET CONDITIONS ARE EXPECTED TO CONTINUE FOR MOST OF  
THE FORECAST PERIOD. UNSETTLED CONDITIONS ARE EXPECTED TOWARDS  
THE END OF THE FORECAST PERIOD AS THE GEOMAGNETIC FIELD RESPONDS  
TO A SOLAR SECTOR BOUNDARY.

III. EVENT PROBABILITIES 10 - 12 FEBRUARY

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 FEBRUARY 204

PREDICTED 10-12 FEBRUARY 204/210/212

90-DAY MEAN 09 FEBRUARY 182

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 08 FEBRUARY 06

ESTIMATED AFR/AP 09 FEBRUARY 06/09

PREDICTED AFR/AP 10-12 FEBRUARY 06/08 - 06/09 - 10/15

SOLTERWARN

BT

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