

HFUS 1 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 037

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 06 FEBRUARY 1980

IA. SOLAR ACTIVITY WAS MODERATE TODAY. THERE WERE THREE M-CLASS  
X-RAY EVENTS, AN M1 AT 0014Z AND AN M2 AT 1325Z, THEY DID NOT  
HAVE OPTICAL REPORTS. AN M2/1B OCCURRED IN REGION 2276 (S3E52)  
AT 1753Z. REGION 2266 (S14W27) HAS SHOWN SOME DECAY AND REGION  
2276 HAS GROWN. REGION 2274 (N05W8) HAS GROWN RAPIDLY, SHOWING  
SIGNS OF BECOMING ERUPTIVE. REGIONS 2266 AND 2262 (N16W53)  
STILL RETAIN DELTA CONFIGURATIONS. ONE NEW REGION, 2277  
(N-8E36), A B-TYPE GROUP, WAS CONFIRMED.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS  
DUE PRIMARILY TO CONTINUING POTENTIAL OF REGION 2266 AND GROWTH  
IN REGION 2276. FURTHER GROWTH IN REGION 2276 COULD EASILY  
INCREASE ACTIVITY TO HIGH BY THE END OF THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS AT MINOR STORM LEVEL TODAY STARTING  
WITH A SMALL SUDDEN COMMENCEMENT AT 0320Z, BUILDING GRADUALLY  
TO STORM LEVEL BY 0700Z. THE FIELD IS EXPECTED TO DECREASE TO  
ACTIVE LEVELS 07 FEBRUARY, BECOMING UNSETTLED FOR THE FOLLOWING  
TWO DAYS. A MINOR PROTON EVENT BEGAN AT 1345Z, REACHING A  
MAXIMUM AT 1500Z OF 16 PROTONS/CM<sup>2</sup>/SEC/STER AT GREATER THAN 10  
MEV. THIS EVENT HAS DECLINED BELOW EVENT THRESHOLD AND  
SHOULD END EARLY 07 FEBRUARY.

III. EVENT PROBABILITIES 07 FEBRUARY - 09 FEBRUARY

CLASS M 9/9/9/9/0

CLASS X 25/25/25

PREDICTED 25/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 FEBRUARY 228

PREDICTED 07-09 FEBRUARY 226/220/218

90-DAY MEAN 06 FEBRUARY 213

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 06 FEBRUARY 03

ESTIMATED AFR/AP 06 FEBRUARY 28/35

PREDICTED AFR/AP 07-09 FEBRUARY 18/25 - 10/18 - 09/12

SOLIERWARN

BT