

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 (N05W3) HAS GROWN RAPIDLY, SHOWING SIGNS OF BECOMING ERUPTIVE. REGIONS 2266 AND 2262 (N16W53) STILL RETAIN DELTA CONFIGURATIONS. ONE NEW REGION, 2277 (N08E36), 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/CM2/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 90/90/90

CLASS X 25/25/25

PROTON 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 A INDICES

OBSERVED FREDERICKSBURG 05 FEBRUARY 03

ESTIMATED AFR/AP 06 FEBRUARY 28/35

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

SOLTERWARN

BT