

*VATCHA*

HFUS-1 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 038

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 07 FEBRUARY 1980

IA. SOLAR ACTIVITY CONTINUED AT MODERATE LEVELS DURING THE PAST 24 HOURS. A M2, NO OPTICAL, OCCURRED AT 0437 UT. A C6/1B FROM REGION 2266 (S15W40) AT 0719 UT. A C9/2B FROM REGION 2262 (N13W62) AT 1708 UT. NO RADIO WAS REPORTED WITH THIS EVENT. SEVERAL SMALL C-CLASS X-RAY EVENTS WERE RECORDED FROM REGIONS 2276 (S13E40), 2277 (N09E24), 2274 (N03W28) AND 2279 (S19E60). TWO NEW REGIONS TODAY ARE 2278 (S14E55) AND 2279 BOTH SIMPLE BT TYPE. REGION 2274 HAS SHOWN VERY RAPID GROWTH DURING THE PAST 24 HOURS. REGION 2266 HAS EXHIBITED SOME STRUCTURAL CHANGE IN THE TRAILER PORTION.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS DURING THE FORECAST PERIOD. REGION 2266 AND 2276 CONTINUE TO BE THE MAJOR CANDIDATES FOR M-CLASS ACTIVITY WITH REGION 2266 HAVING THE POTENTIAL FOR A X-CLASS EVENT. WITH CONTINUED GROWTH REGION 2274 COULD BE A THREAT FOR M-CLASS ACTIVITY.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED DURING THE PAST 24 HOURS. THE MINOR STORM ENDED 06 FEB AT 2300 UT. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE FORECAST PERIOD, HOWEVER THE FIELD MAY APPROACH ACTIVE LEVELS LATE ON 09 FEB THEN RETURN TO LOW UNSETTLED LEVELS ON 10 FEB.

III. EVENT PROBABILITIES 08 - 10 FEBRUARY

CLASS M 9 0/9 0/9

CLASS X 25/25/25

PROTON 20/20/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 FEB 232

PREDICTED 08-10 FEB 232/228/220

90-DAY MEAN 07 FEB 212

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 06 FEB 31

ESTIMATED AFR/AP 07 FEB 11/10

PREDICTED AFR/AP 08-10 FEB 10/12 14/15 10/12

SOLTERWARN

BT