

HFUS 1 B O U 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 343

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 12 FEBRUARY 1980

IA. SOLAR ACTIVITY HAS BEEN ERUPTIVE BUT LOW OVER THE PAST 24 HOURS. REGIONS 2276 (S12W32), 2277 (N10W49), 2281 (N09E50) AND 2283 (S18E66) HAVE ALL HAD SEVERAL C-CLASS X-RAY FLARES. THE MOST ACTIVE OF THESE WAS RGN 2281 WITH A C6/SB AT 0607Z (MAX) AND RGN 2276 WITH A C5/SN AT 1727Z (MAX). REGION 2281 APPEARS THE MOST COMPLEX REGION AS AN E-TYPE BETA-GAMMA WITH THE LARGEST AREA VISIBLE ON THE DISK. THE REGION APPEARS SCRAMBLED MAGNETICALLY WITH FREQUENT FLARE FLUCTUATIONS AND BRIGHT POINTS. REGIONS 2276 AND 2277 APPEAR LESS COMPLEX MAGNETICALLY; HOWEVER 2277 APPEARS TO BE GROWING IN AREA AND WITH MAGNETIC FLUX EMERGENCE. ACTIVITY ON THE SE LIMB MAY INDICATE THE PRESENCE OF A NEW REGION BEHIND 2283.

IB. SOLAR ACTIVITY SHOULD BE MODERATE DURING THE NEXT 24 HOURS. REGION 2281 LEADS THE PACK WITH REGIONS 2276, 2277, AND 2283 HAVING OUTSIDE CHANCES OF PRODUCING AN M-CLASS EVENT. THESE REGIONS SHOULD REMAIN ERUPTIVE PRODUCING SEVERAL C-CLASS EVENTS DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST PERIOD AND IS FORECAST TO REMAIN AT PREDOMINATELY QUIET TO UNSETTLED LEVELS OVER THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 13 - 15 FEBRUARY

CLASS M 9 0/90/90

CLASS X 10/10/10

PROTON 10/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 FEB 219

PREDICTED 13-15 FEB 218/216/214

90-DAY MEAN 12 FEB 207

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 FEB 05

ESTIMATED AFR/AP 12 FEB 04/06

PREDICTED AFR/AP 13-15 FEB 06/08 12/14 13/15

SOLTERWARN

BT