

HFUS 1 BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SOF NUMBER 039

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 08 FEBRUARY 1980

IA. SOLAR ACTIVITY WAS HIGH DURING THE PAST 24 HOURS. REGION 2262 (N14W85) PRODUCED A X2, NO OPTICAL SIZE/IMPORTANCE AVAILABLE, A REPORT OF 440 FLUX UNITS WAS RECEIVED AT 2695 MHZ, STRONG SHORT WAVE FADE AND A TYPE II/IV WERE ALSO REPORTED WITH THE EVENT. ALL OTHER X-RAY REPORTS WERE SMALL C-CLASS FROM REGIONS 2266 (S15W53), 2274 (N03W42), 2269 (S11W34) AND 2278 (S12E45). REGION 2278 IS EXHIBITING RAPID GROWTH AND IS NOW A SIMPLE D-TYPE. REGION 2266 HAS SHOWN MINOR GROWTH THIS PERIOD AND HAS ARCH FILAMENT IN PROGRESS INDICATING SOME STRUCTURAL CHANGE CONTINUES IN PROGRESS. NEW REGION TODAY 2280 (N12E19) SIMPLE B-TYPE WITH ARCH FILAMENT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THE FORECAST PERIOD. REGIONS 2266, 2274 AND 2276 ARE THE MAJOR CANDIDATES FOR M-CLASS ACTIVITY WITH REGION 2266 HAVING THE POTENTIAL FOR M-CLASS ACTIVITY WITH REGION 2266 HAVING THE POTENTIAL FOR A X-CLASS EVENT.

II. THE GEOMAGNETIC FIELD WAS UNSETTLED DURING THE PAST 24 HOURS. THE FORECAST IS EXPECTED TO REMAIN UNSETTLED DURING THE FORECAST PERIOD. A PERIOD OF ACTIVE CONDITIONS MAY OCCUR LATE ON 09 FEB OR EARLY ON 10 FEB DUE TO THE COMBINED EFFECTS OF A SECTOR BOUNDARY, DISAPPEARING FILAMENT, CORONAL RESTRUCTURING AND THE X2 FLARE.

III. EVENT PROBABILITIES 09 - 11 FEBRUARY

CLASS M 90/90/90

CLASS X 20/20/15

PROTON 20/15/10

PCAF YELLOW

V. OTTAWA 10.7 CM FLUX

OBSERVED 08 FEB 225

PREDICTED 09-11 FEB 217/211/207

90-DAY MEAN 08 FEB 210

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 07 FEB 13

ESTIMATED AFR/AP 08 FEB 13/20

PREDICTED AFR/AP 09-11 FEB 14/15 08/12 08/18

SOLTERWARN

BT