

HFUS 1 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 044

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 13 FEBRUARY 1980

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS.
AN M1 X-RAY EVENT OCCURRED AT 1108Z (MAX) FOLLOWED BY AN M2
X-RAY EVENT WHICH OCCURRED AT 1207Z (MAX). NO ASSOCIATED EVENTS
WERE SEEN; HOWEVER, THEY PROBABLY OCCURRED IN REGION 2276
(S11W43) WHICH WAS QUITE ACTIVE WITH BRIGHT PLAGE WHEN PATROL
BEGAN AT SESC. A C8/2F FLARE WAS OBSERVED IN REGION 2283
(S17E56) ON 13/0309Z (MAX). REGIONS 2276 AND 2281 (N09E36)
HAVE APPEARED SUBDUED IN H-ALPHA DURING THE LATER PART OF THE
PERIOD AND BOTH APPEAR TO HAVE SOMEWHAT SIMPLIFIED; HOWEVER,
MAGNETIC DATA DOES SHOW A DELTA CONFIGURATION IN THE LEADER
OF 2281. REGION 2283 NOW APPEARS TO BE TWO SEPARATE REGIONS.
AFTER FURTHER ANALYSIS, TOMORROW'S REGION REPORT SHOULD SHOW
THIS DIVISION.

IB. SOLAR ACTIVITY WILL REMAIN AT SLIGHTLY MODERATE LEVELS
DURING THE NEXT 24 HOURS. THE GREATEST POTENTIAL FOR MODERATE
FLARES REMAINS WITH REGION 2281. REGIONS 2276, 2277 (N10W64),
AND 2283 SHOULD STILL BE ERUPTIVE, PRODUCING SEVERAL C-CLASS
X-RAY EVENTS DURING THE NEXT PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. IT IS EXPECTED TO BE-
COME UNSETTLED DURING THE NEXT 24 HOURS. THE NEXT 24 TO 48 HOURS
MAY SHOW THE GEOMAGNETIC EFFECTS OF A LARGE DISAPPEARING
FILAMENT COMBINED WITH THE POSSIBLE EFFECTS OF A SOLAR SECTOR
BOUNDARY PASSAGE.

III. EVENT PROBABILITIES 14-16 FEBRUARY

CLASS M 70/60/50

CLASS X 10/10/05

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 FEB 223

PREDICTED 14-16 FEB 223/220/215

90-DAY MEAN 13 FEB 207

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 12 FEB 02

ESTIMATED AFR/AP 13 FEB 04/06

PREDICTED AFR/AP 14-16 FEB 10/12 12/15 12/15

SOLTERWARN

BT