

HFUS 1 BOU 1022 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 041

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 10 FEBRUARY 1979

IA. SOLAR ACTIVITY REMAINED AT MODERATE LEVELS FOR THE PAST 24 HOURS. REGION 1556 (N16W25) IS STILL THE MOST COMPLICATED REGION ON THE DISK AND PRODUCED A M/M2 FLARE AT 0822Z. THIS REGION HAS ALSO PRODUCED SEVERAL OPTICAL SUBFLARES AND C-CLASS X-RAY EVENTS. THE AREA SURROUNDING REGION 1560 (S18E23) HAS SHOWN CONSIDERABLE DEVELOPMENT SINCE YESTERDAY. MAGNETIC DATA INDICATE REVERSED POLARITY FOR THE LEADER SPOT OF THIS REGION AND THE EMERGENCE OF A NEW BIPOLAR GROUP DIRECTLY TO THE NORTH OF THIS SPOT. A POSSIBLE DELTA CONFIGURATION IS ALSO PRESENT IN THE CENTRAL PORTION OF THIS REGION. NEW REGIONS 1563 (S22E43) AND 1564 (N17E02) ARE SMALL B AND A TYPE GROUPS RESPECTIVELY.

IB. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT MODERATE LEVELS FOR THE NEXT 24 HOURS. REGION 1556 REMAINS THE MOST LIKELY CANDIDATE FOR ENERGETIC EVENTS. ALTHOUGH REGION 1560 IS UNIMPRESSIVE IN WHITE LIGHT, CONTINUED MAGNETIC DEVELOPEMENT MAY INDICATE FUTURE ACTIVITY IN THIS AREA.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. QUIET CONDITIONS ARE EXPECTED FOR MOST OF THIS FORECAST PERIOD. UNSETTLED PERIODS ARE POSSIBLE IF THE GEOMAGNETIC FIELD RESPONDS TO A PASSING SOLAR SECTOR BOUNDARY. ISOLATED FLARE-INDUCED ACTIVITY IS POSSIBLE.

III. EVENT PROBABILITIES 11-13 FEBRUARY 1979

CLASS M 90/90/90

CLASS X 15/15/15

PROTON 15/15/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 FEB 204

PREDICTED 11-13 FEB 204/204/204

90-DAY MEAN 10 FEB 182

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 FEB 06

ESTIMATED AFR/AP 10 FEB 05/05

PREDICTED AFR/AP 11-13 FEB 07/08 - 10/12 - 07/10

SOLTERWARN

BT