

HFUS 1 BOUL 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO  
SDF NUMBER 748

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 17 FEBRUARY 1979

IA. SOLAR ACTIVITY WAS MODERATE TODAY. REGION 1568 (N18W02) PRODUCED AN M1/SM FLARE AT 0003Z AND TWO 1B FLARES AT 0224Z AND 1431Z. REGIONS 1568 AND 1574 (N17E24) HAVE PRODUCED NUMEROUS SUBFLARES THROUGHOUT THE DAY. REGIONS 1574 AND 1577 HAVE COMBINED INTO ONE F-TYPE GROUP. TWO NEW REGIONS 1579 (N09W03) AND 1580 (N22E58) WERE CONFIRMED WITH A THIRD UNCONFIRMED REGION ON THE SOUTH EAST LIMB. REGION 1579 HAS GROWN RAPIDLY INTO A D-TYPE SPOT GROUP AND HAS ALREADY PRODUCED TWO SUBFLARES TODAY.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH A FAIR PROBABILITY FOR HIGH ACTIVITY. REGIONS 1568, 1574, AND, TO A LESSER EXTENT, 1579 ALL HAVE STRONG POTENTIAL FOR LARGE FLARES.

II. THE GEOMAGNETIC FIELD WAS QUIET TODAY, BRIEFLY UNSETLED DURING THE 1500Z - 1800Z PERIOD. A MINOR MAGNETIC STORM IS EXPECTED TO COMMENCE WITHIN THE NEXT FEW HOURS, PROBABLY EARLY 18 FEB, CAUSED BY YESTERDAY'S X2/2B FLARE IN REGION 1574.

III. EVENT PROBABILITIES 18-20 FEB

CLASS M 95/9 9/93

CLASS X 30/25/25

PROTON 30/25/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 FEB 215

PREDICTED 18-20 FEB 216/210/210

90-DAY MEAN 17 FEB 189

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 16 FEB 94

ESTIMATED AFR/AP 17 FEB 08/09

PREDICTED AFR/AP 18-20 FEB 35/40 27/30 27/25

SOLTERWARN

BT