

HFUS I BOU 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 (N19W 02) PRODUCED AN M1/SN FLARE AT 0003Z AND TWO B 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 (N08W 08) 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 UNSETTLED 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 95/90/90

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 A INDICES

OBSERVED FREDERICKSBURG 16 FEB 04

ESTIMATED AFR/AP 17 FEB 08/09

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

SOLTERWARN

BT