

HFUS 1 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 010

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 10 JAN 1980

IA. SOLAR ACTIVITY WAS MODERATE TODAY. REGION 2232 (S 18W 03) PRODUCED AN M6/1B FLARE AT 0448Z, ACCCOMPANIED BY A 2900 FLUX UNIT BURST AT 269.5 MHZ AND TYPES II, III, AND IV RADIO SWEEPS. REGION 2229 (N 19W 27) PRODUCED AN M1/IIN AT 1905Z. TWO NEW REGIONS WERE CONFIRMED TODAY; 2239 (N 18W 04) WAS CREATED BY SPLITTING REGION 2228 (N 14W 13), AND REGION 2240 (N 27W 00) IS NEW. ANOTHER REGION IN THE NORTH EAST COULD NOT BE CONFIRMED DUE TO POOR OBSERVING CONDITIONS EVER WHERE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE DUE TO ACTIVITY IN REGIONS 2232 AND 2229. REGION 2228 ALSO HAS THE POTENTIAL FOR SIGNIFICANT FLARING.

II. THE GEOMAGNETIC FIELD WAS QUIET WITH A MILD IMPULSE FROM 12-15Z. A SUDDEN COMMENCEMENT IS EXPECTED LATE 11 JAN FOLLOWED BY A MINOR MAGNETIC STORM ON 12 JAN. ACTIVE TO UNSETTLED CONDITIONS SHOULD RETURN 13 JAN.

III. EVENT PROBABILITIES 11 JAN - 13 JAN

CLASS M 9 0/9 0/9 0

CLASS X 25/25/25

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JAN 273

PREDICTED 11 JAN - 13 JAN 281/283/278

90-DAY MEAN 10 JAN 221

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 09 JAN 02

ESTIMATED AFR/AP 10 JAN 08/05

PREDICTED AFR/AP 11 JAN - 13 JAN 20/12 30/16 15/25

SOLIERWARN

BT