

HFUS/41 BOU 3122.00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 031

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 31 JANUARY 1979

I A. SOLAR ACTIVITY HAS BEEN LOW. REGION 1533 (S25W55) PRODUCED A C5/1B FLARE AT 1444Z WHICH WAS LONG LIVED. REACHING HALF POWER IN X-RAYS AT 1606Z. REGION 1533 HAS EXPERIENCED SOME SPOT DECAY. REGION 1545 (N06E36) HAS INCREASED IN SPOT COUNT YET HAS SHOWN NO ACTIVITY IN SPITE OF ITS GROWTH. TWO NEW REGIONS HAVE BEEN OBSERVED AND NUMBERED 1551 (N18W14) AND 1552 (S21E69).

I B. SOLAR ACTIVITY SHOULD BE MODERATE FOR THE FORECAST PERIOD. REGION 1533 AND THE REGIONS IN THE NORTHEAST QUADRANT HAVE THE GREATEST POTENTIAL FOR PRODUCING SIGNIFICANT ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TODAY AND IS EXPECTED TO REMAIN UNSETTLED THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 01 FEBRUARY - 03 FEBRUARY

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 JANUARY 200

PREDICTED 01-03 FEBRUARY 1979/193/188

90-DAY MEAN 31 JANUARY 179

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 30 JANUARY 09

ESTIMATED AFR/AP 31 JANUARY 28/11

PREDICTED AFR/AP 01-03 FEBRUARY 28/15 - 08/12 - 07/10

SOLTERWARN

BT