

HFUS-1 BOU 1422 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 369

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 10 MARCH 1979

I A. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE LARGEST EVENT WAS A C2/IB FLARE FROM NEW REGION 1624 (S21E53). OTHER C-CLASS X-RAY SUBFLARES WERE REPORTED FOR REGIONS 1605 (S13W34) AND NEW REGION 1625 (N20E89). THREE MORE NEW REGIONS WERE NUMBERED. THEY ARE 1621 (N39E74), A D-TYPE GROUP, AND REGIONS 1622 (N18E06) AND 1623 (S17E23) WHICH ARE BOTH SMALL A-TYPE GROUPS. REGION 1620 (N17E56) IS VERY COMPLEX MAGNETICALLY (GAMMA CONFIGURATION).

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE, WITH INCREASED PROBABILITY OF ACTIVITY TOWARD THE END OF THE FORECAST PERIOD Owing TO THE ACTIVE LONGITUDES NOW ON THE EAST LIMB. REGIONS 1620, 1612 (S13E07), AND 1605 NOW CARRY THE GREATEST PROBABILITIES OF ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST 24 HOURS. THE MAGNETIC FIELD AT SYNCHRONOUS ALTITUDE IS SHOWING SIGNIFICANT COMPRESSION, LEADING TO A FORECAST OF MINOR STORM GEOMAGNETIC ACTIVITY FOR TOMORROW. THE ORIGIN OF THIS ACTIVITY IS UNKNOWN, BUT MAY BE THE M9 CLASS FLARE REPORTED MARCH 29/1032 UT.

III. EVENT PROBABILITIES 11 MARCH - 13 MARCH

CLASS M 5/0/60/70

CLASS X 10/10/15

PROTON 25/05/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 MARCH 183

PREDICTED 11-13 MARCH 187/191/195

90-DAY MEAN 10 MARCH 195

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 29 MARCH 15

ESTIMATED AFR/AP 10 MARCH 23/25

PREDICTED AFR/AP 11-13 MARCH 35/35 = 15/10 = 10/07

SOLAR WARNT

BT