

HFUS 17BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 071

ISSUED 2300Z 12 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. THE NORTHEAST QUADRANT NOW CONSISTS OF AT LEAST EIGHT IDENTIFIABLE REGIONS. IN SPITE OF AN IMPRESSIVE AMOUNT OF MAGNETIC FLUX AND STRUCTURAL COMPLEXITY IN THIS AREA, GRADIENTS ARE LOW AND INDIVIDUAL REGIONS ARE COMPARATIVELY SIMPLE. REGION 1625 (N18E53) IS THE POSSIBLE EXCEPTION WITH A MODERATELY COMPLEX STRUCTURE BUT THIS REGION HAS PRODUCED NO SIGNIFICANT ACTIVITY TODAY. REGION 1612 (S13W22) HAS PRODUCED SEVERAL SMALL EVENTS TODAY BUT THIS REGION HAS SHOWN NO SIGNIFICANT MORPHOLOGICAL TRENDS.

IB. SOLAR ACTIVITY IS EXPECTED TO BE AT MODERATE LEVELS FOR THE NEXT 72 HOURS. SHOULD ANY SIGNIFICANT DEVELOPMENTS OCCUR IN THE NORTHEAST QUADRANT THIS AREA COULD RAPIDLY BECOME A MAJOR FLARE PRODUCER. NO REGIONS OF NOTE ARE DUE TO RETURN DURING THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY UNSETTLED FOR THE PAST 24 HOURS AND SHOULD REMAIN GENERALLY UNSETTLED FOR THE FORECAST PERIOD. AGAIN, IF SIGNIFICANT DEVELOPMENTS OCCUR IN THE NORTHEAST QUADRANT, BY THE END OF THE FORECAST PERIOD WHEN THESE REGIONS ARE APPROACHING CENTRAL MERIDIAN A SIGNIFICANT FLARE WOULD LIKELY PRODUCE A GEOMAGNETIC DISTURBANCE.

III. EVENT PROBABILITIES 13 MARCH - 15 MARCH

CLASS M 60/60/60

CLASS X 10/10/10

PROTON 75/75/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 MARCH 191

PREDICTED 13 - 15 MARCH 194/195/197

90-DAY MEAN 12 MARCH 194

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 11 MARCH 13

ESTIMATED AFR/AP 12 MARCH 06/08

PREDICTED AFR/AP 13 - 15 MARCH 06/10 07/12 06/07

SOLTERWAR N

BT