

HFUS 1 BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 078

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 19 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE OVER THE LAST 24 HOURS. REGION 1638 (N07E 12) HAS BEEN THE MOST ACTIVE ON THE DISK WITH THE OCCURRENCE OF AN M7/1B FLARE AT N07E 15 ON 19/1654Z AND A C6/1N FLARE AT N06E26 ON 19/0052Z. THE M-CLASS FLARE HAD PARALLEL RIBBONS AND PRODUCED IMPORTANCE THREE SHORT WAVE FADES AND MODERATE RADIO BURSTS. REGIONS 1634 (S12E01), 1637 (S16E01), AND 1645 (S27W62) PRODUCED MINOR SUBFLARES DURING THE PERIOD. THIS REGION APPEARS TO BE GROWING AND IS A MODERATELY MAGNETICALLY COMPLEX BETA-GAMMA GROUP OF 45 SPOTS. REGION 1640 (N40W32) HAS HAD COMPACT, ENHANCED FLARE BUT APPEARS TO BE DECAYING MAGNETICALLY.

IB. SOLAR ACTIVITY SHOULD CONTINUE TO BE MODERATE DURING THE NEXT 24 HOUR PERIOD. FROM THOSE REGIONS CURRENTLY ON THE DISK, REGION 1638 HAS THE HIGHEST POTENTIAL FOR PRODUCING MODERATELY ENERGETIC FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN AT UNSETTLED LEVELS BUT IS EXPECTED TO INCREASE TO PREDOMINATELY ACTIVE LEVELS DURING THE NEXT PERIOD DUE TO THE RECCURRENCE OF A CORONAL HOLE TRANSITTING THE VISIBLE SOLAR DISK.

III. EVENT PROBABILITIES 20 MARCH - 22 MARCH

CLASS M 6/65/70

CLASS X 15/15/15

PROTON 10/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 MARCH 282 (BURST IN PROGRESS)

PREDICTED 20-22 MARCH 182/180/180

90-DAY MEAN 19 MARCH 195

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 18 MARCH 06

ESTIMATED AFR/AP 19 MARCH 10/15

PREDICTED AFR/AP 20-22 MARCH 15/20 - 20/25 - 15/20

SOLTERWARM

BT