

HFUS 1 BQU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 080

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 24 HOURS. TWO
LOW M CLASS X-RAY EVENTS OCCURRED (MAXING AT 20/2312 UT AND 21/1305
UT) BUT NEITHER WAS REPORTED OPTICALLY. A C3 EVENT AT 21/0247
UT ASSOCIATED WITH WEAK RADIO ACTIVITY (BUT INCLUDING TYPE II) AND
A BRIGHT SURGE ON THE LIMB IS ATTRIBUTED TO NEW REGION 1649 (N05E72)
WHICH IS PRESENTLY A D-TYPE GROUP. OTHER C CLASS FLARE ACTIVITY
OCCURRED IN REGIONS 1638 (N07W16) AND 1628 (N28W69). ONE OTHER NEW
REGION, A SIMPLE GROUP EAST OF 1644 (S29E17), WAS NUMBERED 1650
(S28E26).

IB. SOLAR ACTIVITY SHOULD REMAIN MODERATE THROUGHOUT THE FORECAST
PERIOD. REGION 1638 IS MODERATELY COMPLEX MAGNETICALLY (BETA GAMMA)
AND CARRIES THE HIGHEST PROBABILITY OF ENERGETIC EVENTS FOR
TOMORROW. NEW REGION 1649 LOOKS VERY INTERESTING, HOWEVER, AND
WILL BEAR WATCHING AS IT ROTATES FURTHER ONTO THE VISIBLE DISK.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS.
ACTIVITY MAY BECOME UNSETTLED TOMORROW OWING TO A SOLAR SECTOR
PASSAGE, BUT SHOULD THEN RETURN TO BASICALLY QUIET CONDITIONS.
SOLAR FLARE GENERATED GEOMAGNETIC ACTIVITY IS POSSIBLE BUT UN-
LIKELY IN THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 22 MARCH - 24 MARCH

CLASS M 75/75/75

CLASS X 10/10/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 MARCH 194

PREDICTED 22-24 MARCH 195/195/195

90-DAY MEAN 21 MARCH 196

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 MARCH 06

ESTIMATED AFR/AP 21 MARCH 02/07

PREDICTED AFR/AP 22-24 MARCH 08/09 - 07/08 - 07/08

SOLTERWARW

BT