

HFUS 1 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 064

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 05 MARCH 1979

I A. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. THE NORTHWEST COMPLEX CONSISTING OF REGIONS 1601 (N13E23), 1604 (N17E26), 1606 (N12E35) AND 1610 (N17E34) CONTRIBUTED TO MOST OF THE ACTIVITY WITH AN M1/1B REPORTED FROM REGION 1606 STARTING AT 1405Z, FOLLOWED BY A 1B FROM REGION 1610 (1408Z START) AND A 1B IN FLARE FROM 1601 (1409Z START TIME). SHORT WAVE FADES TO 22 MHZ WERE OBSERVED WITH THIS EVENT ALONG WITH MINOR RADIO BURSTS. REGION 1591 (S19W53) PRODUCED A C9/2B FLARE AT 1534Z MAXIMUM, BUT HAD NO ASSOCIATED RADIO ACTIVITY. THIS REGION IS BETA GAMMA MAGNETICALLY WITH ARCH FILAMENTS REPORTED. REGION 1603 (N35W29) HAS HAD SEVERAL SUBFLARES, THE LARGEST A C3/SB AT 1936Z MAXIMUM. NEW REGION 1612 (S13E72) HAS ROTATED OVER THE EAST LIMB AS A C-TYPE GROUP.

B. SOLAR ACTIVITY WILL BE MODERATE DURING THE FORECAST PERIOD. FURTHER GROWTH IN REGION 1591 CAN BE EXPECTED PRIOR TO ITS ROTATION IN THREE DAYS. M-CLASS ACTIVITY IS LIKELY PRIOR TO ITS ROTATION. THE NORTHEAST COMPLEX, ALTHOUGH CONTAINING INDIVIDUALLY SIMPLE REGIONS, APPEARS TO HAVE STRONG INTERACTION BETWEEN THE SEPARATE REGIONS. FLARE ACTIVITY CAN BE EXPECTED FROM ALL FOUR REGIONS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED DURING THE PAST 24 HOURS. UNSETLED CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 06 - 08 MARCH

CLASS M 80/80/80

CLASS X 20/20/20

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 MARCH 200 (POSSIBLY FLARE ENHANCED)

PREDICTED 06 - 08 MARCH 194/198/202

90-DAY MEAN 05 MARCH 196

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 04 MARCH 20

ESTIMATED AFR/AP 05 MARCH 12/15

PREDICTED AFR/AP 06-08 MARCH 10/10 08/08 08/08

SOLTERWARN

BT