

HFUS 1 BQU 2 622 00

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 285

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 26 MARCH 1979

A. SOLAR ACTIVITY REMAINED AT A HIGH LEVEL TODAY WITH REGION
1638 (N07W84) PRODUCING THE MOST ENERGETIC ACTIVITY. THIS REGION
PRODUCED AN M1/IN AT 0149 UT, AN M1/SN AT 0319 UT, AN M1/SN AT
0748 UT, AN X1/2B AT 1213 UT (520 F.U. AT 10 CM), AN M7/1B AT
1420 UT, AND AN M2/SB AT 2010 UT PRECEDED BY A BRIGHT SURGE.
ALL TIMES ARE THE TIME OF X-RAY MAXIMUM. IT IS ASSUMED THAT 1638
RETAINS ITS DELTA CONFIGURATION BUT LIMB PROXIMITY PROHIBITS
ACCURATE DETERMINATION. REGION 1647 (S31W14) CONTINUES TO EXHIBIT
ENHANCED PLAGE AND PRODUCED A C9/SF FLARE AT 1646 UT. REGION
1649 (N06E07) HAS REMAINED SOMEWHAT DORMANT AND THE MAGNETIC
GRADIENS IN THIS REGION CONTINUE TO DECLINE. THREE NEW REGIONS
HAVE BEEN OBSERVED TO DEVELOP OR ROTATE OVER THE EAST LIMB AND
HAVE BEEN NUMBERED 1659 (N22E39), 1660 (N31E59), AND 1661 (S25E75)
THESE REGIONS ARE NOT PARTICULARLY IMPRESSIVE.

B. SOLAR ACTIVITY SHOULD REMAIN AT A GENERALLY HIGH LEVEL
FOR THE NEXT 48 HOURS DECREASING TO MODERATE LEVELS AS REGION
1638 ROTATES COMPLETELY BEHIND THE WEST LIMB.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE FOR THE PAST 24 HOURS
AND SHOULD REMAIN SO FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27 - 29 MARCH

CLASS M 95/90/85

CLASS X 40/40/30

PROTON 15/15/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MARCH 198

PREDICTED 27-29 MARCH 197/194/190

90-DAY MEAN 26 MARCH 199

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 25 MARCH 14

ESTIMATED AFR/AP 26 MARCH 22/29

PREDICTED AFR/AP 27-29 MARCH 20/25 18/20 16/18

SOLTERWARN

BT