

HFUS 1 BOU 2622 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

I. 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 GRADIENTS 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.

II. 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.

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

IV. EVENT PROBABILITIES 27 - 29 MARCH

CLASS M 95/90/85

CLASS X 40/40/30

PROTON 15/15/10

POLAR GREEN

V. OTTAWA 10.7 CM FLUX

OBSERVED 25 MARCH 1981

PREDICTED 27-29 MARCH 197/194/190

90-DAY MEAN 26 MARCH 199

VI. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 25 MARCH 14

ESTIMATED AFR/A.P. 26 MARCH 22/29

PREDICTED AFR/A.P. 27-29 MARCH 20/25 18/23 16/18

SOLAR WARNS

BT