

SDF NUMBER 086

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2206Z 27 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN HIGH DURING THE PAST 24 HOURS AS REGION 1638, WHICH HAS ROTATED OVER THE WEST LIMB, CONTINUED TO PRODUCE ENERGETIC ACTIVITY. REGION 1638 (N07W90) PRODUCED A XI FLARE AT 0611 UT. NO OPTICAL FLARE WAS OBSERVED. LOOP SHAPED MATERIAL WAS OBSERVED OUT TO .3 RADII. AT 2124UT. A M1 X-RAY FLARE WAS OBSERVED, APPARENTLY FROM REGION 1638. REGION 1649 (N06W09) PRODUCED A C6/SB AT 0002 U.T. AND IS SHOWING GROWTH IN TRAILER PORTION. REGION 1660 (N32E43) HAD THREE SF FLARES, WITH NO X-RAYS, AT 1231 UT, 1505UT AND 1619UT. REGION PRODUCED A SN AT 0555 UT AND A SF AT 1204UT. NO X-RAYS WERE OBSERVED. REGION 1661 (S23E66) HAS SHOWN GROWTH AND IS NOW A E TYPE BETA GROUP. REGION 1661 PRODUCED A M1/SN FLARE WITH A TYPE II SWEEP AND SHORT WAVE FADE. NEW REGION 1662 (S21E50) IS A C TYPE BETA GROUP WHICH PRODUCED A SN FLARE AT 1415UT. NO X-RAYS WERE REPORTED. NEW REGIONS 1663 (S20E03) AND 1664 (N11E12) ARE BOTH B TYPE GROUPS.

IB. SOLAR ACTIVITY SHOULD BE MODERATE DURING FORECAST PERIOD. REGIONS 1661 AND 1647 HAVE THE POTENTIAL FOR ENERGETIC ACTIVITY.

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

III. EVENT PROBABILITIES 28-30 MARCH

CLASS M 85/80/80

CLASS X 20/15/15

PROTON 10/10/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MARCH 187

PREDICTED 28-30 MARCH 186/185/184

90-DAY MEAN 27 MARCH 199

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 MARCH 17

ESTIMATED AFR/AP 27 MARCH 18/20

PREDICTED AFR/AP 28-30 MARCH 17/20 - 17/18 - 18/20

SOLTERWARN