

HFUS 1 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER , COLO

SDF NUMBER 082

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 23 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1649 (N07E47) PRODUCED  
A M2/2B FLARE AT 0644Z WITH A 280 FU BURST AT 2700 MHZ AND STRONG  
SHORT WAVE FADES FROM 9 TO 15 MHZ. REGION 1640 (N38W84)

PRODUCED A C8/1N FLARE AT 0837Z WITH A 56 EU BURST AT 2700 MHZ  
AND MODERATE SHORT WAVE FADES FROM 11 TO 15 MHZ. THE ONLY OPTICAL  
REPORTS FOR THESE FLARES CAME FROM ABASTUMANI, USSR. REGION 1638  
(N27W46) PRODUCED A M2/1B FLARE AT 1904Z AND A M1/0B AT 2046Z  
WITH MINOR CENTIMETRIC BURSTS AND MODERATE SHORT WAVE FADES.

REGIONS 1638 AND 1649 ARE BOTH BETA GAMMA IN MAGNETIC STRUCTURE.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH BOTH  
REGIONS 1638 AND 1649 CAPABLE OF PRODUCING CLASS M X-RAY FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE. THE  
FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE THROUGH THE FORECAST  
PERIOD WITH A FAIR CHANCE OF SHORT PERIODS AT STORM LEVEL DUE TO  
THE SERIES OF FLARES OVER THE PAST FEW DAYS.

III. EVENT PROBABILITIES 24-26 MAR

CLASS M 85/85/85

CLASS X 10/10/10

PROTON 15/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 MAR 189

PREDICTED 24-26 MAR 188/188/187

90-DAY MEAN 23 MAR 197

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 22 MAR 31

ESTIMATED AFR/AP 23 MAR 13/14

PREDICTED AFR/AP 24-25 MAR 20/15 - 18/20 - 14/15

SOLTERWARN

BT