

HFUS 1 BQU 242200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 083

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 24 MARCH 1979

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE. REGION 1638 (N07W60)  
PRODUCED A M4/SB FLARE AT 1442Z WITH STRONG SHORT WAVE FADE THROUGH  
20 MHZ AND 30 FU BURST AT 2700 MHZ. REGION 1649 (N07E34) PRODUCED  
A C8/SB AT 2717Z WITH MINOR SHORT WAVE FADE THROUGH 15 MHZ AND 110  
FU BURST AT 2700 MHZ. REGION 1634 (S13W65) PRODUCED A C8/SN AT  
0112Z. THE TRAILER PENUMBRA OF 1638 HAS ENGULFED A LEADER SPOT  
FORMING A DELTA WITH A MODERATE GRADIENT. THIS REGION REMAINS  
UNSTABLE. REGION 1649 IS DOMINATED BY LARGE LEADER AND TRAILER  
SPOTS WITH DISORGANIZED PLAGE. MAGNETOGRAMS SHOW ANAMOLOUS  
POLARITY ASSOCIATED WITH BOTH THE LEADER AND TRAILER. REGION  
1634 HAS HAD ENHANCED PLAGE THROUGHOUT THE DAY. REGION 1647 HAS  
SHOWN A SLIGHT GROWTH IN ITS STRUCTURE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS  
1638 AND 1649 STILL RETAIN THE POTENTIAL FOR CLASS M ACTIVITY  
BUT CLASS M FLARES SHOULD BECOME MORE SPORADIC. REGIONS 1634 AND  
1647 SHOULD CONTRIBUTE TO CLASS C ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO SLIGHTLY ACTIVE.  
THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED, WITH SOME INTER-  
MITTENT ACTIVE CONDITIONS DURING THE FIRST HALF OF THE FORECAST  
PERIOD.

III. EVENT PROBABILITIES 25-27 MAR

CLASS M 80/75/70

CLASS X 10/10/10

PROTON / 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAR 1980

PREDICTED 25-27 MAR 189/188/185

90-DAY MEAN 24 MAR 1980

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 23 MAR 09

ESTIMATED AFR/AP 24 MAR 11/15

PREDICTED AFR/AP 25-27 MAR 15/13 - 12/12 - 10/10

SOLTERWARN

BT