

HFUS 1 BOU 212200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 021

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 21 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE DURING THE LAST 24 HOURS.  
REGION 1507 (S25W86) PRODUCED A SB/M6 FLARE AT 1315 UT.  
REGION 1519 (N18W06) CONTINUE TO GROW IN COMPLEXITY AND HAS  
PRODUCED SEVERAL FLARES THIS REPORTING PERIODS; THE MOST  
SIGNIFICANT BEING A (B/C8 AT 1514 UT. REGIONS (1525 (N13E32),  
1526 (N20E23), (1527 (N10E35) AND 1528 (N20E53) HAS ALSO  
PRODUCED SUBFLARES ALTHOUGH NO SIGNIFICANT X-RAYS WERE OBSERVED.  
IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT MODERATE LEVELS  
DURING THE NEXT 24 HOURS. REGION 1519 REMAINS THE MOST LIKELY  
CANDIDATE FOR ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE LAST 24  
HOURS. UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE FOR THIS  
FORECAST PERIOD. A FLARE INDUCED GEOMAGNETIC DISTURBANCE IS  
POSSIBLE.

III. EVENT PROBABILITIES 22 JANUARY - 24 JANUARY

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 10/10/15

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JANUARY 217

PREDICTED 22-24 JANUARY 219/222/224

90-DAY MEAN 21 JANUARY 173

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 20 JANUARY 00

ESTIMATED AFR/AP 21 JANUARY 09/11

PREDICTED AFR/AP 22-24 JANUARY 12/15 - 12/15 - :08/12

SOLTERWARN

BT