

HFUS 1 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 020

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 20 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN VERY LOW WITH ONLY C-CLASS X-RAY  
EVENTS OCCURRING DURING THE PAST 24 HOURS. ARCH FILAMENT  
STRUCTURE HAS BEEN EVIDENT IN EACH OF THE FOLLOWING GROWING  
REGIONS: REGION 1519 (N19E05), REGION 1523 (S22W32), REGION  
1526 (S26E37) AND REGION 1529 (S34E03). SIGNIFICANT GROWTH HAS  
ALSO BEEN OBSERVED IN REGION 1525 (N13E45) AND REGION 1528  
(N20E67). SURGING HAS BEEN OBSERVED AT NW15 AS REGION 1502  
CONTINUES ITS WEST LIMB TRANSIT. A LARGE H-TYPE SPOT GROUP  
IS NOW VISIBLE AT SE26. ALL OTHER DISK AND LIMB REGIONS ARE  
STABLE.

IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE WITH  
THE HIGH PROBABILITY OF AT LEAST ONE M-CLASS X-RAY EVENT  
FROM ANY OF THE FOLLOWING AREAS: REGION 1519, REGION 1523,  
REGIONS 1525/27/28

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND IS  
EXPECTED TO BE UNSETTLED FOR THE NEXT FORECAST PERIOD.

III. EVENT PROBABILITIES 21 JANUARY - 23 JANUARY

CLASS M 85/85/85

CLASS X 10/10/10

PROTON 05/05/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 JANUARY 204

PREDICTED 21-23 JANUARY 207/210/210

90-DAY MEAN 20 JANUARY 172

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 19 JANUARY 17

ESTIMATED AFR/AP 20 JANUARY 11/12

PREDICTED AFR/AP 21-23 JANUARY 15/18 - 15/18 - 14/15

SOLTERWARN

BT