

HFUS 1-BOUL 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 015

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z (15 JANUARY 1979)

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 24 HOURS. FOUR  
M CLASS X-RAY FLARES WERE REPORTED, THE LARGEST WAS A M2/2B AT  
1340 U. T. FROM REGION 1492 (S17W82) AND A M1/1B FLARE AT 2012  
U. T. FROM REGION 1502 (N16W40). TWO OTHER M CLASS X-RAY FLARES  
(WITH NO OPTICAL CORRELATION), OCCURRED AT 0722 U. T. AND  
1109 U. T. SEVERAL C CLASS X-RAY FLARES HAVE ALSO OCCURRED FROM  
REGIONS 1492, 1502, 1506 (S24W30) AND 1507 (S22W06). REGION  
1502 CONTINUES TO BE THE MOST IMPRESSIVE REGION ON THE DISK.  
NEW REGIONS 1517 (N11W30), 1518 (S17E52), 1519 (N18E09) AND 1520  
(S15E74).

IB. SOLAR ACTIVITY SHOULD BE MODERATE TO HIGH DURING THE NEXT  
24 HOURS. REGIONS 1502 AND 1507 CONTINUE TO HAVE HIGH POTENTIAL  
FOR ENERGETIC ACTIVITY. REGION 1519 IS RETURNING REGION 1471  
WHICH HAD MINOR ACTIVITY LAST ROTATION.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. UNSETTLED LEVELS  
ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES, 16 JANUARY - 18 JANUARY

CLASS M 90/90/90

CLASS X 30/25/25

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA (0.7 CM FLUX)

OBSERVED 15 JANUARY 203

PREDICTED 16 - 18 JANUARY 203/200/195

90-DAY MEAN 15 JANUARY 171

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 14 JANUARY 07

ESTIMATED AFR/AP 15 JANUARY 10/12

PREDICTED AFR/AP 16 - 18 JANUARY 14/20 10/12 09/09

SOLTERWARM

BT