

HFUS 1 BOU 162230

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 016

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z (16 JANUARY 1979)

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 24 HOURS. TWO M
CLASS X-RAY FLARES WERE REPORTED. THE LARGEST WAS A M2/1N FROM
REGION 1502 (N15W53) AT 0740 U.T., THE OTHER WAS A M2,
WHICH HAD NO OPTICAL CORRELATION, AT 1039 U.T. SEVERAL C CLASS
X-RAY FLARES HAVE ALSO BEEN REPORTED FROM REGIONS 1502, 1507
(S23W19), 1516 (S13W26) AND 1517 (N11W43). THE LARGEST C CLASS
X-RAY WAS A C9/SN FROM REGION 1502 AT 1856 UT. REGION 1502
CONTINUES TO BE THE MOST IMPRESSIVE REGION ON THE DISK. REGIONS
1506 (S23W45), 1507, 1514 (N09E18) AND 1519 (N18E58)
HAVE SHOWN GROWTH THIS PERIOD.

IB. SOLAR ACTIVITY SHOULD BE MODERATE WITH A SLIGHT CHANCE
OF ACTIVITY REACHING HIGH LEVELS. REGIONS 1502 AND 1507 CON-
TINUE TO HAVE HIGH POTENTIAL FOR ENERGETIC ACTIVITY. REGION 1516
ALTHOUGH A B TYPE GROUP, PRODUCED A C4/1N FLARE AT 1845 U.T.
AND WILL BEAR WATCHING.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. IT SHOULD REMAIN
AT UNSETTLED LEVELS.

III. EVENT PROBABILITIES 17 JANUARY - 19 JANUARY

CLASS M 90/90/90

CLASS X 25/20/20

PROTON 15/10/10

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JANUARY 193

PREDICTED 17-19 JANUARY 195/193/190

90-DAY MEAN 16 JANUARY 171

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 15 JANUARY 15

ESTIMATED AFR/AP 16 JANUARY 08/12

PREDICTED AFR/AP 17-19 JANUARY 08/12 08/09 06/07

SOLTERWARN

BT