

HPUS 1 BOU 162300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 016

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 16 JANUARY 1979

I A. 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 15 02 (N 15W53) 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 15 02, 15 07 (S23W19), 15 16 (S 13W26) AND 15 17 (N 11W43). THE LARGEST C-CLASS X-RAY WAS A C9/SN FROM REGION 15 02 AT 1856 UT. REGION 15 02 CONTINUES TO BE THE MOST IMPRESSIVE REGION ON THE DISK. REGIONS 15 05 (S23W45), 15 07, 15 14 (N09E 18) AND 15 19 (N 18E58) HAVE SHOWN GROWTH THIS PERIOD.

I B. SOLAR ACTIVITY SHOULD BE MODERATE WITH A SLIGHT CHANCE OF ACTIVITY REACHING HIGH LEVELS. REGIONS 15 02 AND 15 07 CONTINUE TO HAVE HIGH POTENTIAL FOR ENERGETIC ACTIVITY. REGION 15 16 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: 9/9/9/9/9

CLASS X: 25/22/2/0

PROTON: 15/10/10

PCAF: YELLOW

IV. OTTAWA 410.7 CM FLUX

OBSERVED 16 JANUARY 1980

PREDICTED 17-19 JANUARY 195/193/190

90-DAY MEAN 16 JANUARY 171

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 15 JANUARY 15

ESTIMATED AFR/AP 16 JANUARY 08/12

PREDICTED AFR/AP 17-19 JANUARY 08/12 08/29 06/07

SOLTERWARN

BT.