

HFUS (1) BOU (192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 019

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 19 JAN 1979

(A). SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1523 (S23W18) WAS THE MOST ACTIVE REGION TODAY. IT HAD AN M1/SF FLARE AT 0433 U.T., A C8/SF FLARE AT 0640 U.T. AND SEVERAL OTHER SUBFLARES. THIS REGION HAS SHOWN GROWTH AND IS A D-GROUP WITH 14 SPOTS. REGION 1507 (S23W60) HAS HAD SEVERAL SUBFLARES BUT APPEARS STABLE. REGION 1519 (N18E18) HAD SEVERAL SUBFLARES. IT HAS SHOWN SOME GROWTH AND IS AN E-TYPE BETA-GAMMA GROUP. REGION 1525 (N14E55) HAD SEVERAL SUBFLARES. IT HAS SHOWN GROWTH AND IS A D-TYPE GROUP. REGION 1520 (S15E23) HAD A SUBFLARE. IT HAS A DELTA CONFIGURATION. REGION 1502 (N16W92) HAS ROTATED OFF THE LIMB. NEW REGIONS 1527 (N12E65) AND 1528 (N20E80) ARE D-TYPE GROUPS. PRESENTLY THERE IS AN M-1 FLARE WITH NO OPTICAL CORRELATION. THE REST OF THE DISK/LIMB IS LITTLE CHANGED.

(B). SOLAR ACTIVITY SHOULD BE MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. CONDITIONS SHOULD BE UNSETLED TOMORROW AND RETURN TO ACTIVE LEVELS ON THE FOLLOWING DAY.

III. EVENT PROBABILITIES 20 - 22 JANUARY

CLASS M 90/85/85

CLASS X 15/15/15

PROTON 05/05/10

PCAF YELLOW

IV. OTTAWA (10.7 CM) FLUX

OBSERVED 19 JAN 194

PREDICTED 20 - 22 (196/199/202

90-DAY MEAN (19 JAN 171

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 18 JAN 00

ESTIMATED AFR/AP 19 JAN 15/18

PREDICTED AFR/AP 20 - 22 JAN 12/13 15/18 14/20

SOLTERWARN

BT