

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

(IA. SOLAR ACTIVITY HAS BEEN MODERATE. REGION 1523 (S23W 18) 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 (S23W 60) HAS HAD SEVERAL SUBFLARES BUT APPEARS
STABLE. REGION 1519 (N18E 18) 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 (N12E 65) AND 1528 (N20E 80) ARE
D-TYPE GROUPS. PRESENTLY THERE IS AN M-1 FLARE WITH NO OPTICAL
CORRELATION. THE REST OF THE DISK/LIMB IS LITTLE CHANGED.

(IB. SOLAR ACTIVITY SHOULD BE MODERATE.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. CONDITIONS SHOULD
BE UNSETTLED 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 A INDICES

OBSERVED FREDERICKSBURG 18 JAN 09

ESTIMATED AFR/AP (19 JAN 15/18

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

SOLTERWARN

BT