

HFUS (1 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 025 25

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 25 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN MODERATE TODAY. REGION 1532 (S15E00) REMAINS THE MOST ACTIVE REGION, PRODUCING AN M1/1N FLARE AT 0318Z. TYPE II AND III DECA-METRIC BURSTS OCCURRED WITH THIS FLARE. ADDITIONALLY, FOUR SUBFLARES (CLASS C) HAVE BEEN REPORTED FROM REGION 1532. REGION 1533 (S27E22) PRODUCED AN M1/1B FLARE AT 1417Z. SOME MAGNETIC COMPLEXITY REMAINS IN THIS REGION. REGION 1525 (N12W22) HAS REMAINED STABLE TODAY. REGION 1537 (S28W36) EMERGED ON 23 JANUARY AND IS NOW A D TYPE BETA GROUP. REGIONS 1538 (N19W16) AND 1539 (N23E33) HAVE EMERGED TODAY AND CURRENTLY EXHIBIT A NORMAL GROWTH PATTERN.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE WITH REGIONS 1532 AND 1533 OFFERING THE GREATEST PROMISE OF M-CLASS X-RAY FLARES.

II. THE GEOMAGNETIC FIELD HAS BEEN STRONGLY ACTIVE FOLLOWING A SUDDEN IMPULSE AT 25/0139Z. THE FIELD IS EXPECTED TO REMAIN ACTIVE DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 JANUARY - 28 JANUARY

CLASS M 80/80/80

CLASS X 15/15/10

PROTON 10/10/10

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 JANUARY 215

PREDICTED 26-28 JANUARY 210/210/205

90-DAY MEAN 25 JANUARY 176

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 24 JANUARY 18

ESTIMATED AFR/AP 25 JANUARY 29/28

PREDICTED AFR/AP 26-28 JANUARY 18/20 - 23/18 - 26/28

SOLTERWARN

BT