

HFUS 1 BOU 292200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 029

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 29 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. ALTHOUGH MANY FLARES HAVE BEEN OBSERVED FROM VARIOUS REGIONS ALL WERE MINOR EVENTS. THE LARGEST, A C6/1B OCCURRED FROM REGION 1542 (S18E25), MAXING AT 0208Z WITH PARALLEL RIBBONS REPORTED. IN WHITE-LIGHT THIS REGION REMAINS A SIMPLE A-TYPE SPOT GROUP. REGIONS 1525 (N14W75), 1526 (S25W78), 1527 (N10W74), 1532 (S14W46), 1538 (N19W72) AND 1545 (N08E64) HAVE ALL PRODUCED SUB-FLARES, SEVERAL WITH ASSOCIATED C-CLASS X-RAY ACTIVITY. A C5/SB FLARE WAS OBSERVED AT THE SOUTHEAST LIMB MAXING AT 1604Z. AN H-TYPE SPOT HAS NOW BECOME VISIBLE AT S11E82 AND WILL BE NUMBERED 1548. NEW REGION 1547 (N21E65) HAS EMERGED IN THE NORTHEAST AS A B GROUP WITH 5 SPOTS.

IB. SOLAR ACTIVITY WILL BE MODERATE THROUGH THE FORECAST PERIOD. LIMB ACTIVITY CAN BE EXPECTED FROM DEPARTING REGIONS 1525, 1526, 1527, AND 1538. REGIONS 1545 AND 1548 APPEAR COMPLEX ENOUGH TO REPLACE THE WESTERN REGIONS AS THE NEXT CENTER OF ACTIVITY.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 24 HOURS. ACTIVE CONDITIONS ARE EXPECTED EARLY ON THE 30TH, LASTING THROUGH THE 31ST, THEN UNSETTLED THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 30 JANUARY - 01 FEBRUARY

CLASS M 80/80/70

CLASS X 25/25/20

PROTON 25/25/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 29 JANUARY 218

PREDICTED 30 JANUARY - 01 FEBRUARY 220/224/218

90-DAY MEAN 29 JANUARY 179

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 28 JANUARY 00

ESTIMATED AFR/AP 29 JANUARY 10/11

PREDICTED AFR/AP 30 JAN - 01 FEB 20/25 17/20 10/15

SOLIERWARN

BT