

HFUS 1 BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO

SDF NUMBER 022

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 22 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN AT LOW TO MODERATE LEVELS THE PAST 24 HOURS. REGION 1519 (N 18W 19) HAS STABILIZED IN GROWTH SOMEWHAT AND IS NOW AN E-TYPE SPOT GROUP WITH A MAGNETIC DELTA CONFIGURATION. THIS REGION HAS PRODUCED SEVERAL OPTICAL SUBFLARES WITH THE LARGEST ASB/C5 AT 1824 U.T. REGIONS 1525 (N 13E 19) AND 1527 (N 10E 21) HAVE GROWN IN COMPLEXITY AND HAVE PRODUCED NUMEROUS OPTICAL SUBFLARES THIS REPORTING PERIOD. ALTHOUGH NO ENERGETIC X-RAY EVENTS HAVE BEEN OBSERVED, THE X-RAY BACKGROUND FLUX HAS BEEN CONSISTENTLY ABOVE C-CLASS LEVELS FOR THE PAST 24 HOURS. NEW REGION 1536 (S23E 18) IS AN H-TYPE GROUP AND APPEARS TO BE RETURNING REGION 1482.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE FOR THE NEXT 24 HOURS. INCREASED GROWTH AND MAGNETIC COMPLEXITY IN REGIONS 1519, 1525 AND 1527 INDICATE HIGH PROBABILITIES FOR ENERGETIC EVENTS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED THE PAST 24 HOURS. THESE CONDITIONS ARE EXPECTED TO CONTINUE FOR THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 23-25 JAN

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 10/15/15

PCAF YELLOW

IV. OTTAWA (10.7 CM FLUX

OBSERVED 22 JAN 234

PREDICTED 23-25 JAN 237/239/242

90-DAY MEAN 22 JAN 174

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 21 JAN 08

ESTIMATED AFR/AP 22 JAN 07/10

PREDICTED AFR/AP 23-25 JAN 08/12 - 06/08 - 06/08

SOLTERWARN

BT