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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 021

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 21 JANUARY 1980

IA. SOLAR ACTIVITY WAS LOW TODAY. A C6/IN FLARE WAS PRODUCED BY
REGION 2245 (N13W13) AT 0851Z. FOUR SUBFLARES WERE REPORTED FROM
REGIONS 2245, 2247 (S14E00), AND 2254 (S06E54). REGION 2254
SHOWED GROWTH IN BOTH WHITE LIGHT AND HYDROGEN-ALPHA. REGION
2247 GREW RAPIDLY TODAY, ADDING SPOTS TO BOTH LEADER AND TRAILER
POLARITIES. REGION 2243 (S14W37) HAS CONTINUED ITS DECAY. NO
NEW REGIONS WERE OBSERVED.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR THE FORECAST
PERIOD. HOWEVER, GROWTH IN REGIONS 2247 AND 2254 WILL FURTHER
INCREASE LOW LEVEL ACTIVITY AND IMPROVE THE POSSIBILITY OF AN
ISOLATED M-CLASS X-RAY EVENT LATE IN THE FORECAST PERIOD.

II. THE GEOMAGNETIC FIELD WAS QUIET TODAY AND IS EXPECTED TO
BECOME INCREASINGLY UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 22 - 24 JAN

CLASS M 20/25/30

CLASS X 01/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 JAN 159

PREDICTED 22-24 JAN 160/161/165

90-DAY MEAN 21 JAN 218

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 20 JAN 05

ESTIMATED AFR/AP 21 JAN 06/06

PREDICTED AFR/AP 22-24 JAN 08/07 09/10 10/12

SOLTERWARN

BT