

HFUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 010

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 22 07Z 10 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 1494 (N09W35) HAS HAD THE ONLY OBSERVED FLARES, THE LARGEST A C4/SN WHICH REACHED MAXIMUM AT 2107Z AND A C3/SF WHICH MAXED AT 01621Z. SIGNIFICANT PENUMBRAL DECAY HAS BEEN REPORTED IN THE LEADER SPOTS. THE REGION STILL REMAINS BETA-GAMMA MAGNETICALLY, BUT FURTHER DECLINE IS EXPECTED. REGION 1502 (N15E23) IS SHOWING SLOW GROWTH AND IS NOW A BETA-GAMMA. THE REMAINING REGIONS ARE LITTLE CHANGED, AND STABLE. FOUR NEW REGIONS HAVE BEEN OBSERVED, 1507 (S25E67), 1508 (S18E57), 1509 (S12E61) AND 1510 (S27W05). ALL ARE SIMPLE GROUPS. IB. SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGION 1494 COULD HAVE A SIGNIFICANT EVENT WHILE DECAYING. SMALL FLARES CAN BE EXPECTED FROM REGIONS 1492 (S17W17), 1496 (N17E12) AND 1502.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. QUIET TO OCCASIONALLY UNSETTLED CONDITIONS ARE EXPECTED THROUGH MOST OF THE FORECAST PERIOD BECOMING ACTIVE ON 13 JAN AS A RESULT OF FAVORABLE CORONAL HOLE LOCATION.

III. EVENT PROBABILITIES 11-13 JAN

CLASS M 40/30/25

CLASS X 10/05/05

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 JAN 193

PREDICTED 11-13 JAN 190/187/179

90-DAY MEAN 110 JAN 169

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 09 JAN 15

ESTIMATED AFR/AP 10 JAN 06/06

PREDICTED AFR/AP 11-13 JAN 06/10 - 08/12 - 13/15

SOLTERWARN

BT