

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 2200Z 10 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS.
REGION 1494 (N 29W 35) HAS HAD THE ONLY OBSERVED FLARES, THE
LARGEST A C4/SN WHICH REACHED MAXIMUM AT 2107Z AND A C3/SF
WHICH MAXED AT 0152Z. SIGNIFICANT PENUMBRAL DECAY HAS BEEN
REPORTED IN THE LEADER SPOTS. THE REGION STILL REMAINS BETA-GAMMA
MAGNETICALLY, BUT FURTHER DECLINE IS EXPECTED. REGION
1502 (N 15E 23) IS SHOWING SLOW GROWTH AND IS NOW AL BETA-GAMMA.
THE REMAINING REGIONS ARE LITTLE CHANGED, AND STABLE. FOUR
NEW REGIONS HAVE BEEN OBSERVED, 1507 (S 25E 67), 1508 (S 18E 57),
1509 (S 12E 61) AND 1510 (S 27W 05). 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 (S 17W 17), 1496 (N 17E 12) AND
1502.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24
HOURS. QUIET TO OCCASIONALLY UNSETLED 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 01/05/05

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 10 JAN 169

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 20 JAN 15

ESTIMATED AFR/AP 10 JAN 06/06

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

SOLTERWARN

BT