

BT
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 354

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY. JRG
ISSUED 2200Z 20 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100
TO 20/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW THIS PERIOD.
REGION 4380 (S10W19) REMAINS THE LARGEST AND MOST IMPRESSIVE
REGION ON THE DISK. IT IS NOW A D TYPE SPOT GROUP AND APPEARS
STABLE. THERE ARE NO OTHER SPOTTED REGIONS VISIBLE AT THIS TIME
AND THE DISK APPEARS QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN VERY
LOW THROUGHOUT THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN QUIET AT MIDLATITUDES AND
UNSETTLED AT HIGH LATITUDES THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD
SHOULD BE AT UNSETTLED LEVELS AT MIDLATITUDES AND ACTIVE LEVELS
AT HIGH LATITUDES THE FIRST TWO DAYS OF THE FORECAST PERIOD,
INCREASING TO ACTIVE LEVELS AT ALL LATITUDES THE FINAL DAY OF
THE PERIOD. THIS INCREASE IN THE FORECAST IS DUE TO RECURRENT
PATTERNS WITNESSED THE THREE PREVIOUS ROTATIONS.

III. EVENT PROBABILITIES 21 DEC-23 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 DEC 086

PREDICTED 21 DEC-23 DEC 087/087/088

90 DAY MEAN 20 DEC 103

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 DEC 007/011

ESTIMATED AFR/AP 20 DEC 005/010

PREDICTED AFR/AP 21 DEC-23 DEC 010/015-012/015-015/020

SOLTERWARN

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