

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 355

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

JRG

ISSUED 2200Z 21 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 20/2100Z TO 21/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW THIS PERIOD. REGION 4380 (S10W33) REMAINS THE DOMINANT SPOT GROUP ON THE DISK WITH AN E TYPE SPOT GROUP CLASSIFICATION. THIS REGION HAS SHOWN SOME GROWTH BUT STILL APPEARS STABLE. THERE HAVE BEEN SOME REPORTS OF AN A TYPE SPOT GROUP AT N20W82 BUT THIS GROUP HAS NOT BEEN NUMBERED YET PENDING FURTHER DEVELOPMENT IN THAT AREA. NO NEW REGIONS WERE NUMBERED THIS PERIOD AND THE REST OF THE DISK APPEARS STABLE AND SPOTLESS.

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

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 20/2100Z TO 21/2100Z: 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 TO ACTIVE LEVELS AT MIDLATITUDES AND ACTIVE LEVELS AT HIGH LATITUDES THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 22 DEC-24 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 DEC 085

PREDICTED 22 DEC-24 DEC 085/087/087

90 DAY MEAN 21 DEC 103

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 20 DEC 024/028

ESTIMATED AFR/AP 21 DEC 005/010

PREDICTED AFR/AP 22 DEC-24 DEC 012/015-015/020-010/015

SOLTERWARN