

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 362

PAP

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 28 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/2100Z TO 28/2100Z: SOLAR ACTIVITY HAS CONTINUED AT A VERY LOW LEVEL THIS PERIOD. REGION 4386 (N13W12) PRODUCED THE LARGEST EVENT THIS PERIOD A B2/SF AT 0946Z. THE ONLY SPOTTED REGION OBSERVED TODAY IS 4387 (N12E50) AND IT IS ONLY A "B" GROUP WITH TWO SPOTS. THE REST OF THE DISK HAS BEEN QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW DURING THIS FORECAST PERIOD AS CURRENT DISK REGIONS ARE SMALL SIMPLE GROUPS AND RETURNING REGIONS WERE IN A STATE OF DECAY DURING THEIR WEST LIMB PASSAGE.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 27/2100Z TO 28/2100Z: THE GEOMAGNETIC FIELD HAS BEEN AT GENERALLY ACTIVE LEVELS AT THE MID-LATITUDE SITES WITH ONLY SHORT PERIODS OF MINOR STORM CONDITIONS AT THE HIGH LATITUDE SITES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS. SHORT PERIODS OF MAJOR STORM CONDITIONS AT THE HIGH LATITUDE SITES, DURING THE FIRST TWO DAYS OF THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 29 DEC-31 DEC

CLASS M .01/01/01

CLASS X .01/01/01

PROTON .01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 DEC 084

PREDICTED 29 DEC-31 DEC 083/084/086

90 DAY MEAN 28 DEC 100

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 DEC 017/016

ESTIMATED AFR/AP 28 DEC 015/015

PREDICTED AFR/AP 29 DEC-31 DEC 020/020-025/025-015/015

SOLTERWARN

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CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 13.7 CM FLUX

OBSERVED 28 DEC 084

PREDICTED 29 DEC-31 DEC 083/084/086

90 DAY MEAN 28 DEC 102

V. GEOMAGNETIC A INDICES

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