

PAP

SDF NUMBER 368

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/2100Z TO 26/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW THIS PERIOD WITH ONLY THREE X-RAY, NO OPTICAL, EVENTS RECORDED THIS PERIOD. THE LARGEST EVENT WAS A C2 AT 0840Z. TWO NEW REGIONS NUMBERED TODAY 4385 (S17W54) AND 4386 (N13E14) BOTH ARE SMALL SIMPLE GROUPS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW THIS FORECAST PERIOD AS NO REGIONS CURRENTLY ON THE VISIBLE DISK OR OLD RETURNING REGIONS ARE EXPECTED TO PRODUCE ENERGETIC ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 25/2100Z TO 26/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO SLIGHTLY ACTIVE THIS PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO UNSETLED LEVELS UNTIL NEAR THE END OF THIS FORECAST PERIOD WHEN THE EFFECTS OF THE FILAMENT WHICH DISAPPEARED ON 25 DEC ARRIVE AT EARTH.

III. EVENT PROBABILITIES 27 DEC-29 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 DEC 086

PREDICTED 27 DEC-29 DEC 086/086/087

90 DAY MEAN 26 DEC 101

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 DEC 011/015

ESTIMATED AFR/AP 26 DEC 013/015

PREDICTED AFR/AP 27 DEC-29 DEC 015/015-010/010-020/020

SOLARWARN

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