

SDF NUMBER 357

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY. **PAP**
ISSUED 2200Z 23 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/2100Z TO 23/2100Z: SOLAR ACTIVITY HAS CONTINUED VERY LOW THIS PERIOD WITH NO OPTICAL OR X-RAY EVENTS OBSERVED DURING THE PAST 24 HOURS. ONE NEW REGION WAS NUMBERED TODAY IT IS 4382 (N23W76) A SIMPLE "A" TYPE WITH ONLY ONE SPOT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW TO VERY LOW LEVEL DURING THIS FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 22/2100Z TO 23/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED WITH SHORT PERIODS, GENERALLY AT THE HIGH LATITUDE SITES, OF ACTIVE CONDITIONS DURING THE PAST 24 HOURS. A LARGE NEGATIVE CORONAL HOLE APPEARS TO BE AT CENTRAL MERIDIAN TODAY AND SHOULD INCREASE THE LEVEL OF ACTIVITY NEAR THE END OF THIS FORECAST PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO UNSETTLED LEVELS, SHORT PERIODS OF MINOR STORM CONDITIONS AT THE HIGH LATITUDE SITES, DURING THIS FORECAST PERIOD. THIS ACTIVITY IS THOUGHT TO BE CAUSED BY A SECTOR BOUNDARY WHICH PASSED CENTRAL MERIDIAN ON 20 DEC.

III. EVENT PROBABILITIES 24 DEC-26 DEC

CLASS M 21/21/21

CLASS X 21/31/21

PROTON 21/21/21

PCAF GREEN

IV. OTTAWA 12.7 CM FLUX

OBSERVED 23 DEC 286

PREDICTED 24 DEC-26 DEC 284/282/279

90 DAY MEAN 23 DEC 152

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 DEC 212/214

ESTIMATED AFR/AP 23 DEC 212/215

PREDICTED AFR/AP 24 DEC-26 DEC 215/215-215/215-222/222

SOLTERWARN

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