

SDF NUMBER 349

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY WAS VERY LOW DURING THE PAST 24 HOURS. SUBFLARES WERE OBSERVED IN REGIONS 4374 (N02W21), 4376 (S15W60) AND 4380 (S10E52); NONE EXCEEDED CLASS C-1 IN X-RAY EMISSION. NONE OF THE VISIBLE REGIONS ARE DISPLAYING TRAITS THAT WOULD LEAD TO SUSTAINED, SIGNIFICANT ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A VERY LOW LEVEL THROUGHOUT THE FORECAST PERIOD. NO REGIONS ARE DUE TO RETURN DURING THE NEXT THREE DAYS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD WAS ACTIVE DURING THE PAST 24 HOURS. HIGH LATITUDE STATIONS SHOWED BRIEF PERIODS OF MINOR STORM CONDITIONS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD SHOULD CONTINUE ACTIVE ANOTHER 24 HOURS. QUIET TO UNSETTLED CONDITIONS SHOULD PREVAIL ON 17 AND 18 DECEMBER.

III. EVENT PROBABILITIES 16 DEC-18 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 DEC 095

PREDICTED 16 DEC-18 DEC 093/091/090

90 DAY MEAN 15 DEC 103

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 DEC 020/031

ESTIMATED AFR/AP 15 DEC 017/020

PREDICTED AFR/AP 16 DEC-18 DEC 015/020-010/020-005/010

SOLTERWARN

NNNN