

BT
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO J4J
SDF NUMBER 353

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 19 DEC 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/2100Z TO 19/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW FOR THE PAST 24 HOURS. OF THE TWO SPOTTED REGIONS ON THE VISIBLE DISK, REGION 4380 (S10W03) IS THE MOST SIGNIFICANT. SEVERAL SUBFLARES HAVE OCCURRED THERE, AND A STRONG ARCH FILAMENT SYSTEM IS IN PROGRESS IN THE TRAILER OF THIS EXTENDED BUT SIMPLE BIPOLAR GROUP. THE ONLY LIMB ACTIVITY REPORTED WAS WEST LIMB SURGING (S09) AT APPROXIMATELY 0100Z ASSOCIATED WITH THE DEPARTURE OF REGION 4379.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE VERY LOW, WITH ONLY MINOR C-CLASS XRAY FLARES POSSIBLE FROM REGION 4380. THERE ARE NO REGIONS EXPECTED TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 18/2100Z TO 19/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED FOR THE PAST 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO PERSIST AT PRIMARILY UNSETTLED LEVELS FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 20 DEC-22 DEC

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 DEC 089

PREDICTED 20 DEC-22 DEC 088/085/085

90 DAY MEAN 19 DEC 103

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 18 DEC 005/009

ESTIMATED AFR/AP 19 DEC 010/010

PREDICTED AFR/AP 20 DEC-22 DEC 010/010-010/015-010/015

SOLTERWARN

NNNN