

HFUS 1 BOU 122200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO

SDF NUMBER 012

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 12 JANUARY 1979

IA. SOLAR ACTIVITY HAS BEEN LOW TO MODERATE DURING THE PAST 24 HOURS. REGION 1492 (S17W44) PRODUCED AN M-2 X-RAY BURST AT 120017 U.T. BUT SINCE THAT TIME, ACTIVITY HAS BEEN RESTRICTED TO AN OCCASIONAL CLASS "C" BURST. REGION 1492 HAS UNDERGONE DRAMATIC STRUCTURAL CHANGE BUT NO TREND IN EITHER GROWTH OR COMPLEXITY IS APPARENT. MAGNETIC MEASUREMENTS INDICATE THAT THE MAJOR PORTION OF THE GROUP IS OF TRAILER POLARITY. REGION 1502 (N15W03) HAS ALSO CHANGED STRUCTURALLY AND IS GROWING IN PENUMBRAL AREA IN ITS TRAILING PORTIONS. REGION 1494 (N10W61), THE REMAINING LARGE GROUP, IS NOW A SIMPLE BI-POLAR GROUP AND SHOULD PASS WEST LIMB WITHOUT ANY FURTHER ACTIVITY OF CONSEQUENCES. THE X-RAY BACKGROUND CONTINUES TO FLUCTUATE NEAR "C" LEVEL AND THE 245 MHZ NOISE STORM OF THE PAST SEVERAL DAYS IS STILL IN PROGRESS. AN "H" TYPE GROUP, REGION 1514 IS VISIBLE AT N10E09.

IB. SOLAR ACTIVITY SHOULD REMAIN LOW TO MODERATE FOR THE NEXT 24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO OCCASIONALLY UNSETTLED. UNSETTLED TO OCCASIONALLY ACTIVE CONDITIONS ARE EXPECTED FOR THE NEXT 24 HOURS.

III. EVENT PROBABILITIES 13 JANUARY - 15 JANUARY

CLASS M 60/60/60

CLASS X : 5/05/05

PROTON : 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JANUARY 181

PREDICTED 13-15 JANUARY 181/181/181

90-DAY MEAN 12 JANUARY 169

V. GEOMAGNETIC A INDICES

OBSERVED, FREDERICKSBURG 11 JANUARY 03

ESTIMATED AFR/AP 12 JANUARY 07/08

PREDICTED AFR/AP 13-15 JANUARY 13/15 - 15/20 - 12/17

SOLTERWARN

BT