

HFUS 1 BOU (142200)
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, CO
SDF NUMBER 014

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z (14 JANUARY 1979)

IA. SOLAR ACTIVITY HAS BEEN MODERATE THE PAST 24 HOURS. TWO M
CLASS X-RAY FLARES WERE REPORTED; ONE FROM REGION 1492 (S17W70)
THE OTHER HAD NO OPTICAL CORRELATION. SEVERAL C CLASS X-RAY
FLARES OCCURRED FROM REGIONS 1492, 1506 (S23W18) AND 1502 (N16W27).
REGION 1502 REMAINS THE MOST IMPRESSIVE REGION ON THE DISK WITH
MINOR GROWTH CONTINUING. REGION 1507 (S22E07) HAS UNDER GONE
RAPID GROWTH IN BOTH SIZE AND SPOT NUMBER. REGION 1492 HAS SHOWN
GROWTH IN NORTHERN PORTION OF REGION. NEW REGIONS ARE 1515 (N15W10)
AND 1516 (S13E01).

IB. SOLAR ACTIVITY SHOULD BE MODERATE TO HIGH DURING THE NEXT
24 HOURS. REGIONS 1492 AND 1507 ARE BECOMING MORE COMPLEX,
THEREFORE THE POTENTIAL FOR ENERGETIC ACTIVITY CONTINUES TO
INCREASE.

II. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. EXPECT ACTIVE LEVELS
NEXT 24-48 HOURS DUE TO RECURRENT ACTIVITY AND POSSIBLE SHOCK
WAVE FROM THE X1 FLARE THAT OCCURRED AT 131904 U. T.

III. EVENT PROBABILITIES 15 JANUARY - 17 JANUARY

CLASS M 90/90/90

CLASS X 30/30/25

PROTON 15/15/10

PCAF YELLOW

IV. OTTAWA (10.7 CM FLUX

OBSERVED 14 JANUARY 214

PREDICTED 15-17 JANUARY 205/205/200

90-DAY MEAN 14 JANUARY 170

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 13 JANUARY 04

ESTIMATED AFR/AP 14 JANUARY 07/07

PREDICTED AFR/AP 15-17 JANUARY 18/25 - 18/25 - 12/12

SOLTERWARN

BT