

HFUS: 1 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO
SDF NUMBER 213

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z (13 JANUARY 1979)

IA. SOLAR ACTIVITY HAS BEEN MODERATE TO HIGH THE PAST 24 HOURS.
REGION 1502 (N 15W 15) WAS RESPONSIBLE FOR MOST OF THE ACTIVITY
AND IS BY FAR THE MOST INTERESTING FEATURE ON THE DISK. REGION
1502 PRODUCED A CLASS X1 X-RAY BURST AT 131904Z THAT WAS ASSO-
CIATED WITH AN IMPORTANCE 1B OPTICAL FLARE. RADIO BURST WITH
THIS EVENT WERE SMALL, ONLY .69 FLUX UNITS AT 2695 MHZ, BUT
SHORTWAVE FADES TO .15 MHZ WERE REPORTED. THE TRAILING PENUMRA
OF 1502 HAS DISINTEGRATED A GREAT DEAL SINCE YESTERDAY BUT THE
GROWTH IN THE LEADER PENUMRA AND THE NUMBER OF SPOTS IN THE
OVERALL GROUP MAINTAINS THIS REGION AS A THREAT FOR ADDITIONAL
ENERGETIC ACTIVITY. THE OTHER REGION OF APPARENT THREAT IS
1492 (S 17W 57). THIS REGION IS MAGNETICALLY COMPLEX AND MAY BE
GROWING SLOWLY. THE OTHER DISK FEATURES ARE RELATIVELY SIMPLE.
IB. SOLAR ACTIVITY SHOULD BE MODERATE TO HIGH DURING THE COMING
24 HOURS.

II. THE GEOMAGNETIC FIELD HAS BEEN QUIET. RECURRENT ACTIVITY,
COMBINED WITH THE FLARE AT 131904Z, SHOULD BRING ACTIVE TO MINOR
STORM CONDITIONS DURING THE NEXT 48 HOURS. THE FLARE SHOCK WAVE
SHOULD REACH THE EARTH BY 152000Z. PARTICLE EMISSION FROM
THIS FLARE IS NOT LIKELY BUT A SLIGHT ENHANCEMENT OF THE 10 MEV
FLUX IS POSSIBLE.

III. EVENT PROBABILITIES 14 JANUARY - 16 JANUARY

CLASS M 1 90/90/90

CLASS X 23/20/30

PROTON 10/8/3/0

PCAF 10/10/10 YELLOW

IV. OTTAWA (10.7 CM FLUX)

OBSERVED 13 JANUARY 201

PREDICTED 14-16 JANUARY 198/196/195

90-DAY MEAN 113 JANUARY 170

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 12 JANUARY .07

ESTIMATED AFR/A.P. 13 JANUARY .06/.08

PREDICTED AFR/A.P. 14-16 JANUARY 15/20 - 30/30 - 22/22

SOLTERWARN

BT