

HFUS 1 BOU 242245

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 024

JOINT USAF/NOAA PRIMARY REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 2200Z 24 JANUARY 1979

IA. REGION 1532 (S 15E 22) PRODUCED A M3 X-RAY BURST (IB OPTICALLY) FLARE WITH A MAXIMUM AT 24/1232Z. THIS FLARE WAS ACCCOMPANIED BY NUMEROUS SHORTWAVE FADES. REGION 1532 HAS SHOWN CONSIDERABLE GROWTH SINCE YESTERDAY IN BOTH WHITE LIGHT AND H-ALPHA. ARCH FILAMENTS PRESENT IN THE REGION INDICATE FURTHER GROWTH. REGION 1525 (N 13W 09) STILL POSSESS ENERGETIC FLARE POTENTIAL, ALTHOUGH IT HAS ONLY PRODUCED THREE C-CLASS SUBFLARES DURING THE LAST 24 HOURS. THE MAGNETIC STRUCTURE OF 1525 APPEARS TO HAVE SIMPLIFIED AND THE H-ALPHA PLAGE, ALTHOUGH STILL BRIGHT, IS MORE SCATTERED. OTHER REGIONS ON THE DISK HAVE BEEN RESPONSIBLE FOR ONLY OCCASSIONAL SMALL C-CLASS SUBFLARES.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE WITH OCCASIONAL C-CLASS SUBFLARES EXPECTED FROM THE SIXTEEN REGIONS CURRENTLY VISIBLE ON THE DISK. REGIONS 1532 AND 1525 BOTH ARE CAPABLE OF PRODUCING ISOLATED M-CLASS FLARES.

II. THE GEOMAGNETIC FIELD WAS UNSETLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 25 JANUARY - 27 JANUARY

CLASS M 75/80/80

CLASS X 15/15/15

PROTON 110/15/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 JANUARY 214

PREDICTED 25-27 JANUARY 215/217/212

90-DAY MEAN 24 JANUARY 175

V. GEOMAGNETIC INDICES

OBSERVED FREDERICKSBURG 23 JANUARY 18

ESTIMATED AFR/AP 24 JANUARY 13/24

PREDICTED AFR/AP 25-27 JANUARY 12/16 - 10/11 - 12/09

SOLTERWARN

BT