

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 (S15E22) PRODUCED A M3 X-RAY BURST (18 OPTICALLY)  
FLARE WITH A MAXIMUM AT 24/1232Z. THIS FLARE WAS ACCOMPANIED 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 (N13W09) 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 FLARE, 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 UNSETTLED DURING THE PAST 24  
HOURS. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE  
NEXT THREE DAYS.

III. EVENT PROBABILITIES 25 JANUARY - 27 JANUARY

CLASS M 75/80/80

CLASS X 15/15/15

PROTON 10/15/15

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 A 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