

HFUS 1 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER, COLO  
SDF NUMBER : 027

IA. SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. MANY  
SUBFLARES WERE REPORTED FROM REGIONS 1528 (N20W23), 1525  
(N13W48), (1527 (N16W45), 1526 (S26W51) AND 1532 (S14W19).  
A GROUP OF SUBFLARES OCCURRING NEARLY SIMULTANEOUSLY IN  
REGIONS 1525, 1526, 1528, AND 1532 ARE ASSOCIATED WITH  
THE LARGEST X-RAY EVENT OF THE DAY WHICH WAS A C8 MAXING  
AT 1851 UT. TWO NEW REGIONS HAVE BEEN NUMBERED. THEY  
ARE 1542 (S15E52), WHICH IS PRESENTLY A SMALL A-TYPE SPOT,  
AND 1543 (N18E77) WHICH NOW VISIBLE AS AN H-TYPE SPOT.

IB. SOLAR ACTIVITY IS EXPECTED TO BE MODERATE TO HIGH FOR  
THE NEXT FORECAST PERIOD. THE LARGE NUMBER OF MODERATELY  
COMPLEX REGIONS CONTRIBUTES TO THE FORECAST PROBABILITIES.  
THESE REGIONS HAVE WESTERN LOCATIONS WHICH ARE FAVORABLE  
TO PROTON EVENTS AT EARTH IF A MAJOR FLARE SHOULD OCCUR.

II. THE GEOMAGNETIC FIELD HAS BEEN MOSTLY UNSETTLED FOR  
THE PAST 24 HOURS. NEW DATA ON THE POSITION OF THE  
SOUTHERN CORONAL HOLE NOW INDICATES THE HIGH SPEED STREAM  
WILL IMPACT ON THE SECOND DAY OF THE FORECAST PERIOD,  
POTENTIALLY DRIVING THE GEOMAGNETIC FIELD INTO MINOR  
STORM CONDITIONS.

III. EVENT PROBABILITIES 28 JANUARY - 30 JANUARY

CLASS M 75/75/75

CLASS X 25/25/25

PROTON 25/25/25

PCAF YELLOW

IV. OTTAWA (10.7 CM FLUX

OBSERVED 27 JANUARY 209

PREDICTED 28-30 JANUARY 207/206/205

90-DAY MEAN 27 JANUARY 177

V. GEOMAGNETIC A INDICES

OBSERVED FREDERICKSBURG 26 JANUARY 16

ESTIMATED AFR/AP 27 JANUARY (14/20

PREDICTED AFR/AP 28-30 JANUARY 12/15 - 20/22 - 30/30

SOLTERWARN

BT