

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