

HAUS BOU 290400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 029A ISSUED 0400Z 29 JAN 1971

CLASS-C AND ONE OR TWO CLASS-M FLARES ARE LIKELY DURING THE NEXT 13 HOURS.

A. A RELATIVELY LOW LEVEL OF SOLAR ACTIVITY HAS PREVAILED DURING THE PAST 11 HOURS. ONLY A FEW CLASS-C FLARES HAVE BEEN REPORTED. SURGE ACTIVITY HAS CONTINUED ON THE NORTHWEST LIMB, WHERE A RECENTLY ACTIVE REGION HAS PASSED FROM VIEW. DATA FROM THE MOUNT WILSON OBSERVATORY INDICATES THAT THE F/440 SPOT GROUP AT N08E55 IS ESSENTIALLY A BIPOLAR STRUCTURE WITH A SMALL SPOT OF FOLLOWER POLARITY LOCATED SOUTH OF THE LEADER. THE D/480 REGION AT S12E19 IS SIMPLE MAGNETICALLY BUT IS SIGNIFICANTLY ENHANCED AT BOTH 8.6MM AND 9.1 CM WAVELENGTHS, PROBABLY BECAUSE OF MODERATELY BRIGHT PLAGE IN THE TRAILER SECTION. OTHER REGIONS ARE RELATIVELY UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED DURING THE PAST 11 HOURS. ATS-1 PROTON COUNTING RATES HAVE DECREASED TO ABOUT 65 PARTICLES/CM²/SEC AT 5-20 MEV AND 7 PARTICLES/CM²/SEC AT 20-70 MEV.

B. SOLAR ACTIVITY DURING THE NEXT THREE DAYS PROBABLY WILL CONSIST PRIMARILY OF OCCASIONAL CLASS-C FLARES AND SPORADIC CLASS-M FLARES FROM THE REGIONS AT N08E55 AND S12E19. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME DISTURBED TO SUB-STORM LEVELS IN ABOUT 24 HOURS AS THE RESULT OF THE PASSAGE OF AN INTERPLANETARY SECTOR BOUNDARY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 JAN/0400Z ENDING 01 FEB/0400Z.

CLASS M OR GREATER 85/80/80

CLASS X 15/10/10

PROTON EVENTS 10/10/05

D. OTTAWA 10.7 CM FLUXES FOR 28/1700Z AND 28/2000Z WERE 171 AND 170 RESPECTIVELY.

SOLTERWARN

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B. SOLAR ACTIVITY DURING THE NEXT THREE DAYS PROBABLY WILL CONSIST PRIMARILY OF OCCASIONAL CLASS-C FLARES AND SPORADIC CLASS-M FLARES FROM THE REGIONS AT N08E55 AND S12E19. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME DISTURBED TO SUB-STORM LEVELS IN ABOUT 24 HOURS AS THE RESULT OF THE PASSAGE OF AN INTERPLANETARY SECTOR BOUNDARY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 JAN/0400Z ENDING 01 FEB/0400Z.

CLASS M OR GREATER 85/80/80

CLASS X 15/10/10

PROTON EVENTS 10/10/05

D. OTTAWA 10.7 CM FLUXES FOR 28/1700Z AND 28/2000Z WERE 171 AND 170 RESPECTIVELY.

SOLTERWARN

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HAUS BOU 291735

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 29B ISSUED 1700Z 29 JAN 1971

CLASS M FLARES POSSIBLE NEXT 11 HOURS.

A. ONLY MINOR FLARES HAVE BEEN OBSERVED IN THE PAST 13 HOURS. MOST INTEREST IS IN THE N06E47 AND S12E11 REGIONS. BOTH HAVE BEEN ACTIVE, PRODUCING MINOR FLARES AND BOTH CONTAIN SOME MAGNETIC STRUCTURAL COMPLEXITIES. THE MAGNETIC FIELD HAS REMAINED DISTURBED WITH K FREDRICKSBURG VALUES RANGING AS HIGH AS 5.

B. BOTH THE N06E11 AND S12E11 REGIONS WILL PROBABLY CONTINUE TO PRODUCE CLASS C AND OCCASIONAL CLASS M FLARES. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN DISTURBED FOR THE NEXT 2-3 DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 JAN/1700Z ENDING 01 FEB/1700Z.

CLASS M OR GREATER 85/85/85

CLASS X 15/10/10

PROTON EVENTS 15/10/10

D. OTTAWA 10.7 CM FLUX FOR 29/1700Z WAS 165.1 PREDICTED 10.7 CM FLUX FOR 30 JAN-01 FEB IS 166/168/168.

E. MAGNETIC A-FREDERICKSBURG FOR 28 JAN WAS 23. FOR 29 JAN ABOUT 15 PREDICTED AP FOR 30 JAN-01 FEB, 15/15/15.

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