

HAUS BOU 280400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 028A ISSUED 0400Z 28 JAN 1971

CLASS-C FLARES 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 NON-ENERGETIC EVENTS HAVE BEEN REPORTED. FEW RECENT CHANGES HAVE BEEN OBSERVED IN ANY OF THE ACTIVE CENTERS PRESENTLY VISIBLE. SOME DEVELOPMENT MAY BE OCCURRING IN THE TRAILING PORTION OF THE S12E32 REGION. EVALUATION OF THE NEW E/400 REGION AT N08E67 IS BEING HAMPERED BY ITS PROXIMITY TO THE LIMB. THE GEOMAGNETIC FIELD HAS REMAINED DISTURBED DURING THE PAST 11 HOURS, AND MINOR STORM CONDITIONS STILL EXIST. ATS-1 PROTON COUNTING RATES ARE APPROXIMATELY 750 PARTICLES/CM2/SEC AT 5-20 MEV AND 50 PARTICLES/CM2/SEC AT 20-70 MEV.

B. DURING THE THREE-DAY FORECAST PERIOD, OCCASIONAL CLASS-C AND SPORADIC CLASS-M FLARES ARE EXPECTED FROM THE REGIONS AT N08E67, S12E32, AND PERHAPS S12W58. AN ENERGETIC FLARE ALSO COULD BE PRODUCED BY THE REGION CROSSING THE LIMB AT NW18, BUT WITHIN ABOUT 24 HOURS THAT REGION WILL BE CONSIDERABLY SHIELDED FROM EARTH BY THE WEST LIMB. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN DISTURBED FOR THE NEXT SEVERAL DAYS DUE TO THE PRESENT MINOR STORM EFFECTS AND THE EXPECTED PASSAGE OF AN INTERPLANETARY SECTOR BOUNDARY ON 30 JANUARY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 28 JAN/0400Z ENDING 31 JAN/0400Z.

CLASS M OR GREATER 90/85/85

CLASS X 20/15/10

PROTON EVENTS 15/15/10

D. OTTAWA 10.7 CM FLUXES FOR 27/1700Z AND 27/2000Z WERE 172 AND 171 RESPECTIVELY.

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HAUS BOU 281735

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 28B ISSUED 1700Z 28 JAN 1971

CLASS C AND OCCASIONAL CLASS M FLARES EXPECTED NEXT 11 HOURS.

A. THERE WAS A PROBABLE CLASS M EVENT OF UNKNOWN ORIGIN BEGINNING ABOUT 28/0940Z. THERE WAS A BRIGHT OPTICAL EVENT AT NW13 BEGINNING ABOUT 1308Z. ENERGY PEAK LEVEL OF THE LATER EVENT IS STILL INDEFINITE. A REGION AT N06E63 HAS BEEN PRODUCING CLASS C FLARES AND HAS THE CHARACTERISTICS OF A NOMINALLY DEVELOPING BI-POLAR STRUCTURE WITH SMALL COMPLEXITIES. THE MAGNETIC DISTURBANCE IN PROGRESS HAS DECLINED IN MAGNITUDE.

B. LIMB EVENTS WILL CONTINUE AT NW13 WITH THE POSSIBILITY THAT ONE OR MORE OF THEM MAY BE ENERGETIC. FLARES TYPICAL OF DEVELOPING STRUCTURES ARE EXPECTED TO CONTINUE AT N06E62 AND TO SLOWLY INCREASE IN MAGNITUDE TO SMALL CLASS M. THE GEOMAGNETIC DISTURBANCE IS EXPECTED TO CONTINUE AT A DECREASING LEVEL.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 28 JAN/1700Z ENDING 31 JAN/1700Z.

CLASS M OR GREATER 85/85/85

CLASS X 15/10/05

PROTON EVENTS 15/10/05

D. OTTAWA 10.7 CM FLUX FOR 28/1400Z WAS 174.1 PREDICTED 10.7 CM FLUX FOR 29-31 JAN IS 172/172/172.

E. MAGNETIC A-FREDERICKSBURG FOR 27 JAN WAS 19. FOR 28 JAN ABOUT 12 PREDICTED AP FOR 29-31 JAN, 10/08/12.

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