

HAUS BOU 170400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 048A ISSUED 0400Z 17 FEBRUARY 1971

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

A. SOLAR ACTIVITY HAS INCREASED SLIGHTLY DURING THE LAST 11 HOURS. THE REGIONS ON THE VISIBLE DISK HAVE SHOWN ONLY MINOR CHANGES. SMALL SPOTS HAVE APPEARED EAST OF THE LEADER OF THE REGION AT N14W39, AND MINOR SPOT GROWTH HAS OCCURRED IN THE TRAILING PART OF THE N15E08 GROUP. NEARLY CONTINUOUS SURGES HAVE BEEN OBSERVED ON THE EAST LIMB NEAR SE17, WHERE A SIGNIFICANT NEW REGION PRESENTLY IS BEING ROTATED INTO VIEW. THIS NEW ACTIVE CENTER APPEARS TO CONTAIN AN IRREGULAR LEADING SPOT WITH SEVERAL UMBRAE, BUT NOT ALL OF THE SPOTS ARE VISIBLE YET. THE PLAGE OF THIS SOUTHEASTERN REGION IS BRIGHT, AND UNUSUAL CORONAL PHENOMENA ASSOCIATED WITH THIS ACTIVE CENTER HAVE BEEN REPORTED. AT 16/2226Z A CLASS M1 SUB-NORMAL FLARE AND SURGE WERE PRODUCED AT SE16 BY THE NEW REGION. THE GEOMAGNETIC FIELD HAS REMAINED IN AN UNSETTLED CONDITION DURING THE PAST 11 HOURS.

B. DURING THE NEXT THREE DAYS, THE NEW SOUTHEASTERN REGION IS EXPECTED TO CAUSE A SIGNIFICANT INCREASE IN THE LEVEL OF SOLAR ACTIVITY. OCCASIONAL CLASS C AND CLASS M FLARES ARE LIKELY. THE PRESENT LIMITED DATA SUGGEST THAT THE NEW SOUTHEASTERN REGION EVENTUALLY MAY BE CAPABLE OF PRODUCING MAJOR ACTIVITY, ESPECIALLY IF DEVELOPMENT CONTINUES AT THAT SITE. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN SLIGHTLY DISTURBED DURING THE NEXT 13 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 FEB/0400Z ENDING 20 FEB/0400Z
CLASS M OR GREATER 55/60/65

CLASS X 05/05/05

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 16/1700Z AND 16/2000Z WERE BOTH 133.

SOLTERWARN

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1716

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KMSC

HAUS BOU 171710

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO
SDF NUMBER 048B ISSUED 1700Z 17 FEB 1971

CLASS M EVENTS ARE EXPECTED DURING THE NEXT 24 HOURS.

A. THE REGION CROSSING THE EAST LIMB NEAR S17 HAS PRODUCED TWO MEDIUM-SIZED CLASS M EVENTS. AN IMPORTANCE 3 BSL AT 17/0405Z WAS CLASS M6 AND A SUBBRIGHT FLARE AT 17/0837Z WAS CLASS M5. THESE EVENTS WERE ACCCOMPANIED BY SIGNIFICANT SID AND MINOR RADIO EMISSION. A SUBNORMAL FLARE AT 17/1555Z WAS PROBABLY SMALL CLASS M. BOTH SPOTS AND PLAGE ARE STILL CROSSING THE LIMB AND IT IS TOO EARLY TO DETERMINE HOW MANY REGIONS ARE INVOLVED. THIS ACTIVE CENTER IS LOCATED NEAR LONGITUDE 140 WHICH HAS HAD NO HISTORY OF SIGNIFICANT ACTIVITY FOR THE PAST YEAR. LONGITUDES ON EITHER SIDE OF IT HAVE BEEN ACTIVE, HOWEVER, AND IT IS ONLY 15 DEGREES AHEAD OF THE LONGITUDE WHICH PRODUCED THE IMP 3B PROTON EVENT OF 05 NOV 1970. X-RAY AND RADIO FLUX BACKGROUND LEVELS ARE SHOWING SIGNIFICANT INCREASE. THE GEOMAGNETIC FIELD WAS SLIGHTLY DISTURBED DURING LOCAL NIGHT BUT IS CURRENTLY QUIET.

B. THE REGION CROSSING THE SE LIMB IS EXPECTED TO DOMINATE ACTIVITY. ADDITIONAL SMALL TO MEDIUM SIZED CLASS M EVENTS ARE EXPECTED DURING THE NEXT 72 HOURS. LARGER EVENTS MUST BE CONSIDERED POSSIBLE UNTIL THE REGION IS FULLY ENOUGH ON THE DISK FOR EVALUATION.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 FEB/1700Z ENDING 20 FEB/1700Z.

CLASS M OR GREATER 90/95/95

CLASS X 05/05/10

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 17/1400Z WAS 135. PREDICTED 10.7 CM FLUX FOR 18-20 FEB 71 IS 140/145/150.

E. MAGNETIC A-FREDERICKSBURG FOR 16 FEB WAS 18. FOR 17 FEB ABOUT 11 PREDICTED AP FOR 18-20 FEB, 10/08/03.

SOLTERWARN

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