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KMSC

HAUS BOU 180400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 049A ISSUED 0400Z 18 FEB 1971

CLASS M FLARES ARE ANTICIPATED DURING THE NEXT 13 HOURS.

A. DURING THE PAST 11 HOURS, SOLAR ACTIVITY HAS CONSISTED PRIMARILY OF CLASS C SUBFLARES AND SURGES FROM THE NEW REGION AT S16E76. EVALUATION OF THIS SOUTHEASTERN ACTIVE CENTER IS STILL HAMPERED BY ITS PROXIMITY TO THE LIMB, BUT THE SPOTS SEEM TO FORM AN F-TYPE GROUP WITH CONSIDERABLE PENUMBRA. MOST OF THE RECENT ACTIVITY HAS ORIGINATED IN BRIGHT PLAGE IN THE TRAILING PART OF THIS S16E76 REGION. ARCH FILAMENTS HAVE BEEN OBSERVED IN THE SLOWLY-DEVELOPING REGION AT N14W52, WHERE THREE UMBRAE OF APPARENT FOLLOWER POLARITY ARE LOCATED WITHIN TWO DEGREES OF THE LEADING PENUMBRA. THE OTHER ACTIVE CENTERS ON THE DISK ARE UNIMPRESSIVE. QUIET GEOMAGNETIC CONDITIONS HAVE BEEN OBSERVED DURING THE LAST 13 HOURS.

B. CLASS-M AND CLASS-C FLARES ARE EXPECTED TO BE PRODUCED BY THE S16E76 REGION DURING THE THREE-DAY FORECAST PERIOD, AND THERE IS A SMALL CHANCE THAT MAJOR ACTIVITY ALSO COULD BE PRODUCED AT THAT SITE. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 FEB/0400Z ENDING 21 FEB/0400Z.

CLASS M OR GREATER 85/85/90

CLASS X 10/10/10

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 17/1700Z AND 17/2000Z WERE 136 AND 133 RESPECTIVELY.

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HAUS BOU 181715

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 049B ISSUED 1700Z 18 FEB 1971

CLASS M FLARES EXPECTED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS BEEN DOMINATED BY THE S16E69 REGION WHICH HAS PRODUCED A CLASS M1 FLARE AT 0406Z AND A M3 FLARE AT 0328Z TODAY. BOTH FLARES PRODUCED SLIGHT IONOSPHERIC DISTURBANCES. SMALL ISOLATED RADIO BURSTS HAVE OCCURRED THE PAST 12 HOURS SUPPORTING THE CURRENT RISE IN SOLAR ACTIVITY. SOME REJUVENATION APPEARS TO BE TAKING PLACE IN THE N17W08 REGION, IT PRODUCED A 1N FLARE AT 18/1403Z. AN H SPOT WITH PLAGE HAS ROTATED ON THE DISK AT SE05 WITH SOME BRIGHT SURGES OBSERVED.

B. CLASS M FLARES ARE EXPECTED TO BE CONFINED TO THE SE GROUP. THE N17W08 AND N14W57 ARE EXPECTED TO PRODUCE OCCASIONAL SUBFLARES.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 FEB/1700Z ENDING 21 FEB/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 10/10/10

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 18/1400Z WAS 132. PREDICTED 10.7 CM FLUX FOR 19-21 FEB IS 137/140/143.

E. MAGNETIC A-FREDERICKSBURG FOR 17 FEB WAS 11. FOR 18 FEB ABOUT 07 PREDICTED AP FOR 19-21 FEB, 05/05/05.

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