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KMSC

HAUS BOU 160400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 016A ISSUED 0400Z 16 JANUARY 1971

CLASS C FLARES ARE EXPECTED AND CLASS M FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. VERY LITTLE SOLAR ACTIVITY HAS BEEN OBSERVED DURING THE PAST 11 HOURS. A FEW SMALL SUBFLARES AND MINOR SURGES ON THE WEST LIMB IS ALL THAT HAS BEEN OBSERVED. THE LARGE REGION IN THE NORTH EAST HAS NOT SHOWN ANY NEW GROWTH OR DEVELOPMENT. ALL REGIONS APPEAR QUIET AND STABLE. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS C FLARES AND AN OCCASIONAL CLASS M FLARE FROM REGIONS S06W77 AND N18E71 CAN BE EXPECTED DURING THE NEXT TWO DAYS. THE REGION N18E71 IS EXPECTED TO PRODUCE SPORADIC ACTIVITY AS IT MAKES ITS DISK PASSAGE. THE GEOMAGNETIC FIELD WILL HAVE PERIODS OF MINOR DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 JAN/0400Z ENDING 19 JAN/0400Z

CLASS M OR GREATER 70/70/70

CLASS X 05/05/05

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 15/1700Z AND 15/2000Z WERE 159 AND 160 RESPECTIVELY.

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HAUS BOU 161755

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 016B ISSUED 1700Z 16 JAN 1971

SPORADIC ENERGETIC ACTIVITY IS EXPECTED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS INCREASED DURING THE PAST 13 HOURS. AN INTERESTING 1B-2B CLASS-M9 FLARE BEGAN 16/0801Z IN THE MAGNETICALLY COMPLEX E-TYPE REGION AT N19E60. THIS FLARE STARTED AS A FINE BRIGHT LINE RUNNING EAST-WEST ABOVE THE LEADING AND INTERMEDIATE SPOTS, AND AT 0805Z ANOTHER BRIGHT LINE DEVELOPED RUNNING NORTH-SOUTH BETWEEN THE INTERMEDIATE AND FOLLOWER PENUMBRAE. APPARENTLY THIS FLARE EXHIBITED AN INDEFINITE MAXIMUM BETWEEN 0900Z AND 1000Z, AND DECAY LASTED AT LEAST TWO ADDITIONAL HOURS. A VERY COMPLEX MAJOR RADIO BURST ACCOMPANIED THIS EVENT AND WAS SO INTENSE THAT IT WAS DIFFICULT TO MEASURE; HOWEVER, PRESENT DATA INDICATE THAT AT 2695 MHZ THE BURST EXCEEDED 7000 FLUX UNITS AT ABOUT 0936Z AND MAY HAVE BEEN AS HIGH AS 16500 FLUX UNITS THEN. INTENSE ENHANCEMENTS WERE REPORTED AT OTHER FREQUENCIES. ACTIVITY FROM THE REGION PASSING OVER THE LIMB AT SW06 ALSO HAS INCREASED; A ONE-NORMAL CLASS-M6 EVENT OCCURRED AT THAT SITE AT 16/1205Z. OTHER REGIONS HAVE REMAINED RELATIVELY QUIET. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY DISTURBED DURING THE PAST 13 HOURS. ATS-1 PROTON COUNTING RATES ARE AT BACKGROUND LEVELS. DATA FROM THE PIONEER 6 AND 8 SATELLITES INDICATE SOLAR WIND SPEEDS IN EXCESS OF 630 KM/SEC.

B. SPORADIC ENERGETIC FLARES ARE ANTICIPATED TO OCCUR IN THE N19E60 REGION DURING THE NEXT THREE DAYS; CLASS-M FLARES ARE EXPECTED AND ONE OR TWO CLASS-X FLARES ARE LIKELY. THE GEOMAGNETIC FIELD IS EXPECTED TO EXHIBIT MODERATE DISTURBANCE DURING THE NEXT THREE DAYS, AND MINOR PROTON ENHANCEMENTS MAY BE DETECTED EVENTUALLY BY SATELLITES NEAR EARTH AS A RESULT OF RECENT ACTIVITY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 JAN/1700Z ENDING 19 JAN/1700Z.

CLASS M OR GREATER 95/99/99

CLASS X 35/40/45

PROTON EVENTS 10/10/15

D. OTTAWA 10.7 CM FLUX FOR 16/1400Z WAS 186. PREDICTED 10.7 CM FLUX FOR 17-19 JAN IS 190/195/200.

E. MAGNETIC A-FREDERICKSBURG FOR 15 JAN WAS 07. FOR 16 JAN ABOUT 10 PREDICTED AP FOR 17-19 JAN, 16/25/25.

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