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KMSC

HAUS BOU 220400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 022A ISSUED 0400Z 22 JAN 1971

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

A. SOLAR ACTIVITY DURING THE PAST 11 HOURS HAS CONSISTED PRIMARILY OF A FEW CLASS-C SUBFLARES FROM THE REGIONS AT N19W00 AND N11E20. SLOW DECAY HAS OCCURRED IN THE E/640 SPOT GROUP AT N18W13, BUT GROWTH HAS CONTINUED IN THE NEARBY BIPOLAR REGION AT N19W00. MIXED MAGNETIC POLARITIES STILL EXIST IN THE NORTHERN PART OF THE N18W13 REGION, WHILE THE D/420 GROUP AT S13E21 HAS BECOME A RELATIVELY SIMPLE BIPOLAR STRUCTURE. THE D/150 CENTER AT N11E20 HAS EXHIBITED BRIGHT PLAGE AND AN ACTIVE FILAMENT; THIS N11E20 REGION IS UNUSUAL IN THAT IT CONTAINS A LONGITUDINAL NEUTRAL LINE RUNNING ESSENTIALLY EAST-WEST. OTHER REGIONS ARE UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED IN AN UNSETTLED CONDITION DURING THE PAST 13 HOURS.

B. SPORADIC ENERGETIC FLARES ARE EXPECTED TO OCCUR IN THE REGIONS AT N19W00 AND N11E20. THESE INTERACTING REGIONS POSSESS MOST OF THE KNOWN REQUIREMENTS FOR PRODUCING A MAJOR FLARE ACCOMPANIED BY A PROTON EVENT, AND THERE IS A FAIR CHANCE THAT SUCH A FLARE MAY OCCUR DURING THE 72-HOUR FORECAST PERIOD. IN ADDITION, ONE OR TWO SMALL CLASS-M FLARES MAY BE PRODUCED BY THE REGIONS AT N11E20 AND S13E21. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN IN AN UNSETTLED CONDITION FOR SEVERAL DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 JAN/0400Z ENDING 25 JAN/0400Z.

CLASS M OR GREATER 90/95/90

CLASS X 25/30/30

PROTON EVENTS 25/35/35

D. OTTAWA 10.7 CM FLUXES FOR 21/1700Z AND 21/2000Z WERE 185 AND 188 RESPECTIVELY.

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HAUS BOU 221725

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 022B ISSUED 1700Z 22 JANUARY 1971

OCCASIONAL CLASS M AND A POSSIBLE CLASS X FLARE EXPECTED
IN NEXT 11 HOURS.

A. ACTIVITY HAS BEEN MINOR EXCEPT FOR A CLASS M3 FLARE
AT 1056Z IN THE COMPLEX AT N18W20. GROWTH IN THIS ACTIVITY
CENTER IS NEARLY FINISHED BUT RESTRUCTURING IS OCCURRING
IN THE CENTRAL SECTION. MINOR ACTIVITY HAS BEEN OBSERVED
AT N11E03 AND S06E03. BACKGROUND SOLAR X-RAY FLUX LEVELS
HAVE BEEN INCREASING THE PAST 10 HOURS.

B. THE N18W20 REGION RETAINS ITS CAPABILITY OF CLASS X
ACTIVITY BUT SPECIFIC TIME PARAMETERS ARE LACKING.
SCATTERED ACTIVITY OVER THE DISK STILL INDICATES THAT
ENERGY DISIPATION MAY BE OCCURRING WITHOUT A MAJOR
ENERGETIC EVENT.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE
24 HOUR PERIODS BEGINNING 22 JAN/1700Z ENDING 25 JAN/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 25/30/30

PROTON EVENTS 25/35/25

D. OTTAWA 10.7CM FLUX FOR 22/1400Z WAS 190.0. PREDICTED
10.7CM FLUX FOR 23-25 JAN IS 188/186/185.

E. MAGNETIC A-FREDERICKSBURG FOR 21 JAN WAS 13. FOR 22 JAN
ABOUT 12. PREDICTED AP FOR 23-25 JAN IS 10/12/15.

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