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KMSC

HAUS BOU 190400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 815A ISSUED 0400Z 19 NOV 1970

A CLASS-X FLARE AND SEVERAL CLASS-M FLARES ARE LIKELY DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS DECREASED SLIGHTLY DURING THE PAST 11 HOURS; ONLY A FEW CLASS-C SUBFLARES HAVE BEEN REPORTED. THE F/1400 REGION AT N16W60 HAS DECAYED SOMEWHAT, WHILE CONSIDERABLE DEVELOPMENT HAS OCCURRED IN THE TRAILING PORTION OF THE E/250 REGION AT N05W06, WHERE A DELTA COMPLEX MAY EXIST IN THE GROWING PENUMBRA. DEVELOPMENT ALSO HAS OCCURRED IN THE BIPOLE D/150 REGION AT N SW25, AND A D-TYPE SPOT GROUP ACCCOMPANIED BY BRIGHT, COMPACT PLAGE IS PRESENT NEAR N12E73. THE MAGNETIC STORM THAT BEGAN AT 18/1227Z IS STILL IN PROGRESS; K-VALUES AT BOULDER DURING THE PAST 11 HOURS HAVE NOT EXCEEDED FOUR. A FORBUSH DECREASE OF LESS THAN TWO PERCENT HAS BEEN OBSERVED ON COUNTING RATES FROM THE DEEP RIVER NEUTRON MONITOR.

B. DURING THE FORECAST PERIOD, SPORADIC CLASS-M AND CLASS-X ACTIVITY IS EXPECTED TO CONTINUE AT THE DECAYING N16W60 SITE, AND INCREASED PRODUCTION OF CLASS-M AND POSSIBLY CLASS-X FLARES IS ANTICIPATED AT THE N05W06 REGION; SPORADIC CLASS-M FLARES ALSO ARE LIKELY AT THE N16W25 AND N12E73 REGIONS. THE MINOR GEOMAGNETIC STORM CURRENTLY IN PROGRESS IS EXPECTED TO CONTINUE FOR AT LEAST THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 NOV/0400Z ENDING 22 NOV/0400Z.

CLASS M OR GREATER 99/99/99

CLASS X 70/70/70

PROTON EVENTS 15/20/25

D. OTTAWA 10.7 CM FLUXES FOR 19/1700Z AND 19/2000Z WERE 206 AND 197 RESPECTIVELY.

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HAUS BOU 191720

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 815B ISSUED 1700Z 19 NOV 1970

TWO OR THREE CLASS M FLARES ARE EXPECTED IN THE 11 HOURS
BETWEEN MESSAGES.

A. FIVE SMALL M EVENTS AND NO X'S HAVE BEEN REPORTED SO FAR
TODAY. TWO OF THESE X-RAY BURSTS DID NOT CORRELATE WITH DISK
ACTIVITY. FLARES, BOTH ENERGETIC AND NONENERGETIC, ARE OCCURRING
AT NEARLY UNIFORM RATES FROM ALL THREE OF THE NW CENTERS. THE
MINOR MAGNETIC STORM OR SECTOR BOUNDARY PASSAGE WHICH BEGAN
YESTERDAY AT 1227Z ENDED ABRUPTLY BY 19/0900Z.

B. NO CHANGE WITH RESPECT TO THE ANTICIPATED DISK ACTIVITY
FROM PREVIOUS MESSAGE. THE GEOMAGNETIC FIELD SHOULD BECOME
DISTURBED BY 19/2400Z OR SHORTLY THEREAFTER AS DAY 1 AND 2 OF
THE SECTOR STRUCTURE SWEEP BY EARTH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 19 NOV/1700Z ENDING 22 NOV/1700Z.

CLASS M OR GREATER 100/100/100

CLASS X 70/70/60

PROTON EVENTS 20/25/35

D. OTTAWA 10.7 CM FLUX FOR 19/1400Z WAS 192. PREDICTED
10.7 CM FLUX FOR 20-22 NOV IS 184/179/183.

E. MAGNETIC A-FREDERICKSBURG FOR 18 NOV WAS 17. FOR 19 NOV
ABOUT 25. PREDICTED AP FOR 20-22 NOV, 25/14/07.

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