

NNNNO434

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KMSC

HAUS BOU 160417

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 731A ISSUED 0400Z 16 OCT 1970

SPORADIC SMALL CLASS-M EVENTS ARE ANTICIPATED DURING THE NEXT
13 HOURS.

A. SOLAR ACTIVITY DURING THE PAST 11 HOURS HAS CONSISTED MAINLY
OF CLASS-C SUBFLARES FROM THE REGIONS NEAR N05E01, N07E08, AND
N11E16. ACCORDING TO THE MOUNT WILSON OBSERVATORY, THE N11E16
SPOT GROUP IS NOW CLASSIFIED AS A BETA-GAMMA TYPE WITH A DELTA
CONFIGURATION IN THE INTERMEDIATE PENUMBRA. THIS COMPLEX D-TYPE
REGION IS STILL DEVELOPING AT A MODERATE RATE, WHILE LITTLE
SIGNIFICANT CHANGE HAS BEEN OBSERVED IN THE REGIONS AT N06E01 AND
N07E08. MINOR SPOT GROWTH HAS BEEN NOTED IN THE REGIONS AT S03W25
AND S13W54, AND A NEW H-TYPE SPOT WITH BRIGHT PLAGE HAS CROSSED
THE LIMB AT NE10. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING
THE PAST 24 HOURS.

B. INFREQUENT SMALL CLASS-M FLARES AND OCCASIONAL CLASS-C FLARES
ARE EXPECTED TO BE PRODUCED BY THE REGIONS AT N06E01, N07E08, AND
N11E16 DURING THE FORECAST PERIOD. SHORT PERIODS OF MINOR DISTURBANCE
ARE LIKELY TO BE SUPERPOSED UPON GENERALLY QUIET GEOMAGNETIC
CONDITIONS.

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

CLASS M OR GREATER 55/60/50

CLASS X 05/05/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 15/1700Z AND 15/2000Z WERE 145 AND
140 RESPECTIVELY.

SOLTERWARN

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HAUS BOU 161700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 781B ISSUED 1700Z 16 OCT 1970

CLASS-C FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. ONLY RELATIVELY NON-ENERGETIC SOLAR ACTIVITY HAS OCCURRED DURING THE PAST 13 HOURS. OCCASIONAL CLASS-C SUBFLARES HAVE BEEN OBSERVED IN THE REGIONS AT N11E08, S13E10, AND N10E77, AND A CLASS-C ONE-NORMAL FLARE OCCURRED IN THE S13W62 REGION AT 16/1235Z. LITTLE SIGNIFICANT DEVELOPMENT OF THE ESTABLISHED SPOT GROUPS HAS OCCURRED, BUT A NEW REGION HAS APPEARED AT N11E23. THE GEOMAGNETIC FIELD EXHIBITED A SUDDEN STORM COMMENCEMENT AT 16/0917Z, AND A MAGNETIC BAY OF APPROXIMATELY 200 GAMMAS WAS OBSERVED AT BOULDER BETWEEN 1120Z AND 1215Z. THE ORIGIN OF THIS MAGNETIC STORM PRESENTLY IS UNCERTAIN.

B. OCCASIONAL CLASS-C FLARES AND PERHAPS ONE OR TWO SMALL CLASS-M FLARES ARE EXPECTED DURING THE THREE-DAY FORECAST PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED FOR AT LEAST THE NEXT 24 HOURS, WITH MAXIMUM DISTURBANCE LIKELY 17/0600-0900Z.

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

CLASS M OR GREATER 40/35/30

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 16/1400Z WAS 143.

PREDICTED 10.7 CM FLUX FOR 17-19 OCT IS 145/148/150.

E. MAGNETIC A-FREDERICKSBURG FOR 15 OCT WAS 03. FOR 16 OCT ABOUT 15. PREDICTED AP FOR 17-19 OCT, 13/06/12.

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