

NNNNUU0358

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KMSC

HAUS BOU 250400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 698A ISSUED 0400Z 25 JULY 1970

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

A. DURING THE PAST ZULU DAY SOLAR ACTIVITY HAS SUBSIDED. ONLY CLASS C FLARES HAVE BEEN OBSERVED DURING PAST 11 HOURS. THE REGION N08W11 IS STILL DYNAMIC LOOKING AND CONTAINS SEVERAL DELTA CONFIGURATIONS IN THE FOLLOWER PORTION. THE PCA REACHED MAXIMUM ABOUT 24/2315Z WITH 6.2 DB ABSORPTION AT THULE ON 30 MHZ RIOMETERS. ATS-1 FLUXS REACHED MAXIMUM OF 2000 AND 40 PART/CM2/SEC FOR 5-21 AND 21-70 MEV READOUTS AT 25/0000Z. FORBUSH DECREASE STARTED 24/1820Z ABOUT 7 PER CENT. MAGNETIC STORM SUDDEN COMMENCEMENT AT 24/2353Z.

B. MAJOR FLARES CAN BE EXPECTED FROM THE REGION N08W11 DURING THE NEXT 3 DAYS. FURTHER MAGNETIC DISTURBANCE IS ALSO EXPECTED DURING NEXT 2 DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25JULY/0400Z ENDING 28 JULY/0400Z.

CLASS M OR GREATER 95/95/95

CLASS X 80/80/80

PROTON EVENTS 60/60/60

D. OTTAWA 10.7 CM FLUXES FOR 24/1700Z AND 24/2000Z WERE 159 AND 162 RESPECTIVELY.

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HAUS BOU 251730Z

SDF NUMBER 698B ISSUED 1700Z 25 JULY 1970

SMALL, ENERGETIC FLARES /CLASS M/ SHOULD MARK THE UPPER LIMIT OF ACTIVITY THESE NEXT 11 HOURS.

A. NO M EVENTS HAVE BEEN REPORTED SINCE THE LAST MESSAGE. REMARKABLE GROWTH IN WHITE LIGHT HAS TAKEN PLACE WITHIN THE N18E29 DISK FEATURE. THIS DEVELOPMENT HAS MANIFESTED ITSELF IN THE 9.1 CM AND 8.6 MM BRIGHTNESS TEMPERATURE CONTOURS AS WELL. A NEW REGION HAS JUST CROSSED THE SE LIMB; THE HYDROGEN PLAGE THERE IS NOT BRIGHT AND ONLY MINOR, INFREQUENT BSLs NEAR SE08 ACCOMPANIED THE TRANSIT. THE DECAYING N08W19 CENTER STILL CONTAINS A WELL-DEFINED FILAMENT NETWORK BUT A SOMEWHAT SCATTERED AND ONLY MODERATELY BRIGHT PLAGE. ABOUT 17 HOURS HAVE PASSED SINCE THE MAGSTORM CURRENTLY IN PROGRESS BEGAN. HORIZONTAL AND DECLINATION TRACES IN BOULDER SHOW A DEFINITE QUIETING CHARACTER. THE STORM-AT LEAST LOCALLY-WAS PRIMARILY CONFINED TO THE D-TRACE. DEEP RIVER'S NEUTRON MONITOR NOW STANDS ROUGHLY 6 PERCENT BELOW ITS NORMAL QUIET-DAY COUNTING RATE.

B. THE CURRENT LULL IS EXPECTED TO CONTINUE TODAY AND TOMORROW. ON 28 JULY OR SHORTLY THEREAFTER THE BETA SUB P GROUP NEAR N23E30 WILL VERY LIKELY DOMINATE DISK ACTIVITY. A DISTURBED GEOMAGNETIC FIELD SHOULD PERSIST FOR NEXT 30 HOURS. THREE-HOUR RANGE INDICES ARE NOT EXPECTED TO EXCEED K EQUAL 4 FOR LOW-LATITUDE MAGNETIC OBSERVATORIES SUCH AS BOULDER AND FREDERICKSBURG.

Major + 0.8  
N18E29

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 25 JULY/1700Z ENDING 28 JULY/1700Z.

CLASS M OR GREATER 80/80/90

CLASS X 50/50/60

PROTON EVENTS 50/50/60

D. OTTAWA 10.7CM FLUX FOR 25/1400Z WAS 164. PREDICTED 10.7CM FLUX FOR 26-28 JULY IS 167/171/171.

E. MAGNETIC A-FREDERICKSBURG FOR 24 JULY WAS 19. FOR 25 JULY ABOUT 60. PREDICTED AP FOR 26-28 JULY IS 21/15/17.

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