

HAUS BOU 200400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 816A ISSUED 0400Z 20 NOV 1970

SEVERAL CLASS-M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. ONLY A FEW FLARES HAVE BEEN REPORTED DURING THE PAST 11 HOURS; MOST OF THE ACTIVITY HAS CENTERED NEAR THE MAGNETICALLY COMPLEX E/250 REGION AT N04W20. TWO ONE-NORMAL FLARES OF APPARENT CLASS-M X-RAY INTENSITY OCCURRED AT 19/2240Z AND 20/0102Z IN THE N04W20 REGION NEAR THE FOLLOWER PENUMBRA WHERE AN INFERRED MAGNETIC DELTA CONFIGURATION PRESENTLY EXISTS. AN ACTIVE FILAMENT SEPARATES THE N04W20 REGION FROM THE D/140 REGION AT N07W22; BOTH SPOT GROUPS WERE CLASSIFIED AS GAMMA-TYPES BY THE MT. WILSON OBSERVATORY. A SMALL DELTA CONFIGURATION MAY STILL EXIST IN THE CENTRAL PORTION OF THE PREDOMINATELY-BIPOLAR REGION AT N16W38, WHERE A CLASS-M4 SUB-BRIGHT FLARE OCCURRED AT 19/1636Z. DELTA CONFIGURATIONS ALSO MAY EXIST IN THE LEADER AND TRAILER PORTIONS OF THE BETA-GAMMA F/1010 REGION AT N17W74; THIS REGION RETAINS ITS THREATENING APPEARANCE DESPITE ITS LACK OF RECENT ENERGETIC FLARES. OTHER DISK REGIONS ARE RELATIVELY UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED UNUSUALLY QUIET DURING THE PAST 11 HOURS.

B. CONTINUED ENERGETIC FLARES ARE EXPECTED TO BE PRODUCED BY SOME OR ALL OF THE REGIONS AT N17W74, N16W38, N08W23, AND N04W20; ONE OR TWO CLASS-X FLARES AND ABOUT A DOZEN CLASS-M FLARES ARE EXPECTED DURING THE THREE-DAY FORECAST PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO SHOW PERIODS OF DISTURBANCE DURING THE NEXT 13 HOURS, BUT A MAGNETIC STORM IS NOT LIKELY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 23 HOUR PERIODS BEGINNING 20 NOV/0400Z ENDING ~~WE NOV/0400~~ 23 NOV/0400Z.

CLASS M OR GREATER 99/99/99

CLASS X 45/50/35

PROTON EVENTS 20/25/25

D. OTTAWA 10.7 CM FLUXES FOR 19/1700Z AND 19/2000Z WERE 204 AND 137 RESPECTIVELY.

SOLTERWARN

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HAUS BOU 201715

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 816B ISSUED 1700Z 20 NOV 1970

OCCASIONAL CLASS-M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. SOLAR FLARE ACTIVITY DURING THE PAST 13 HOURS HAS CONSISTED OF ABOUT TEN CLASS-C SUBFLARES AND TWO CLASS-M2 EVENTS (SN, N15W37, MAXIMUM AT 20/0420Z AND SN, N07W33, MAXIMUM AT 20/1349Z). THE ONLY FLARE REPORTED FOR THE DECAYING F/1000 REGION NOW CROSSING THE LIMB AT NW17 WAS A SUBFLARE AT 20/1637Z. SOME PENUMBRAL GROWTH HAS OCCURRED IN THE LEADER AND MID-SECTION OF THE N08W29 REGION AND IN THE MID-SECTION OF THE N04W27 REGION; MIGRATING BRIGHTENINGS AND SMALL ACTIVE DARK FILAMENTS HAVE BEEN OBSERVED IN THIS PAIR OF REGIONS. EXCEPT FOR THE N08W29 AND N04W27 COMPLEX, ACTIVE REGIONS ON THE DISK ARE IN A STATE OF DECAY. THE GEOMAGNETIC FIELD HAS BEEN UNUSUALLY QUIET DURING THE PAST 24 HOURS.

B. OCCASIONAL CLASS-M FLARES, MOST OF THEM RELATIVELY SMALL, ARE EXPECTED TO OCCUR IN THE REGIONS AT N04W27, N08W29, AND N17W82. THERE IS A FAIR CHANCE THAT A CLASS-X EVENT MAY OCCUR IN THE LARGE REGION AT N17W82 BEFORE WEST LIMB PASSAGE IS COMPLETE. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET DURING THE NEXT 11 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 NOV/1700Z ENDING 23 NOV/1700Z.

CLASS M OR GREATER 99/95/95

CLASS X 40/20/15

PROTON EVENTS 20/10/10

D. OTTAWA 10.7 CM FLUX FOR 20/1400Z WAS 136. PREDICTED

10.7 CM FLUX FOR 21-24 NOV IS 179/174/171.

E. MAGNETIC A-FREDERICKSBURG FOR 19 NOV WAS 19. FOR 20 NOV ABOUT 03. PREDICTED AP FOR 21-23 NOV, 03/07/10.

SOLTERWARN

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NNNN1710

NNNN1715

NNNN1717

NNNN

KMSC

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