

NNNN0410
NNNN0414
NNNN
KMSC

HAUS BOU 150415Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 627A ISSUED 0400Z 15 MAY 1970

AT LEAST ONE M FLARE IS EXPECTED DURING THE NEXT 13 HOURS.

A. DATA RECEIVED UP TO MESSAGE TIME IMPLY THAT TWO M FLARES WERE OBSERVED YESTERDAY. BOTH OF THESE ORIGINATED WITHIN THE DEVELOPING S09W05 CENTER. THE FIRST BEGAN AT 14/1306Z, BEING A SN OPTICALLY, WHILE THE SECOND HAD AN ONSET TIME OF SHORTLY BEFORE 2215Z. THE LATTER IN FLARE WAS CHARACTERIZED BY AN UNUSUALLY LONG DURATION- ABOUT 75 MINUTES. DUE TO THE SOMEWHAT NONCLASSICAL NATURE OF THE EVENT, LOCAL OVERCAST CONDITIONS, AND THE ALREADY BRIGHT PLAGE WITHIN THE REGION, REPORTS VARIED WIDELY ON ITS SIZE, MAXIMUM, AND END TIME. RECENT WHITE LIGHT AND H-ALPHA PATROLS INDICATE NO MAJOR STRUCTURAL CHANGES HAVE OCCURRED WITHIN THE TWO DOMINANT DISK FEATURES NEAR S09W05 AND N17E42. THE SW REGION IS CURRENTLY THE BRIGHTEST ON THE DISK, BUT IN TERMS OF AREA IT IS STILL ONLY A LITTLE MORE THAN HALF AS LARGE AS ITS NE COUNTERPART. GEOPHYSICALLY CONDITIONS ARE QUIET.

B. ALMOST BY DEFINITION THE NE AND SW CENTERS SHOULD BE THE SITES OF ENERGETIC FLARES, FOR PARAMETERS SUCH AS THE 10.7CM FLUX, THE 1-8 ANGSTROM BACKGROUND, AND THE 9.1CM RADIO CONTOURS ALL FAVOR GEOPHYSICALLY SIGNIFICANT EVENTS. IT IS ANTICIPATED THAT THE NOW OVERDUE ACTIVITY WILL BEGIN DURING THE INITIAL DECAY STAGES.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 15 MAY/0400Z ENDING 18/0400Z.

CLASS M OR GREATER 90/90/100

CLASS X 25/30/40

PROTON EVENTS 05/05/10

D. OTTAWA 10.7CM FLUXES FOR 14/1700 AND 2000Z WERE 193 AND 196 RESPECTIVELY.

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NNNN1705

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HAUS BOU 151700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 627B ISSUED 1700Z 15 MAY 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY DURING THE PAST 13 HOURS HAS CONSISTED PRIMARILY OF ENERGETIC FLARES FROM THE REGION AT S09W13. AT LEAST ONE CLASS M EVENT HAS BEEN REPORTED; THIS FLARE, A ONE-BRILLIANT, OCCURRED AT 15/0925Z FROM THE REGION AT S09W13. THIS REGION HAS REMAINED NEAR FLARE BRIGHTNESS FOR MANY HOURS, AND BRIGHTENINGS ARE FREQUENT. THE SPOT GROUP OF THIS REGION HAS SHOWN SOME CHANGES DURING ITS CONTINUING DEVELOPMENT. THE REGION PRESENTLY APPEARS DISTURBED JUST WEST OF THE UMBRA OF THE LEADER, WHERE RAPIDLY CHANGING DARK ABSORPTION FEATURES ARE BEING OBSERVED. THE REGION APPARENTLY CONTAINS A MAGNETIC DELTA COMPLEX. THE REGION AT N17E34 HAS SHOWN LITTLE CHANGE AND PRESENTLY CONTAINS LITTLE BRIGHT PLAGE. THE GEOMAGNETIC FIELD IS REMAINING RELATIVELY QUIET.

B. SOLAR ACTIVITY DURING THE NEXT 11 HOURS IS EXPECTED TO CONSIST PRIMARILY OF ENERGETIC EVENTS FROM THE REGION AT S09W13; CLASS-M FLARES ARE EXPECTED, AND THERE IS A FAIR CHANCE OF THE OCCURRENCE OF AT LEAST ONE CLASS-X EVENT. THE GEOMAGNETIC FIELD IS EXPECTED TO BE SLIGHTLY DISTURBED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 15 MAY/1700Z ENDING 18 MAY/1700Z.

CLASS M OR GREATER 95/95/95

CLASS X 40/50/50

PROTON EVENTS 05/08/10

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 197. PREDICTED 200/203/205.

E. MAGNETIC A-FREDERICKSBURG FOR 14 MAY WAS 11. FOR 15 MAY ABOUT 12. PREDICTED AP FOR 16-18 MAY, 09/10/10.

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MMR 100-220