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HAUS BOU 120400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 624A ISSUED 0400Z 12 MAY 1970

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

A. TWO CLASS M EVENTS WERE RECORDED 11/1441Z AND 11/1757Z. FROM THE OPTICAL REPORTS AND OBSERVATIONS BOTH OF THESE EVENTS WERE FROM REGION N18E90. THE REGION ON THE NORTH EAST LIMB HAS BEEN QUITE ACTIVE WITH ENERGETIC FLARES AND BSL ACTIVITY. THE OTHER ACTIVE REGION HAS BEEN N16W24. THE ACTIVITY HAS BEEN CONFINED TO SMALL ENERGETIC FLARES. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS C FLARES AND AN OCCASIONAL CLASS M FLARE CAN BE EXPECTED FROM N18E90 AND N16W24 DURING THE NEXT 24 HOURS. THE REGION S08E37 IS SHOWING RATHER RAPID GROWTH AND SHOULD BE WATCHED FOR FURTHER DEVELOPMENT.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 12 MAY/0400Z ENDING 15 MAY/0400Z

CLASS M OR GREATER 50/50/50

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 11/1700Z AND 2000Z WERE 173 AND 168 RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 624B ISSUED 1700Z 12 MAY 1970

CLASS M X-RAY FLARES EXPECTED DURING THE NEXT 13 HOURS

A. A CLASS M EVENT WAS DETECTED AT 12/0738Z AND BELIEVED TO BE ASSOCIATED WITH A SB FLARE BEGIN TIME 0721Z AND LOCATED AT N17E83. A SMALL M EVENT OCCURRED AT 11/2050Z WITH NO OPTICAL COUNTERPART. THE MOST IMPRESSIVE DISK REGION IS THE N17E77 F TYPE SPOT GROUP. THE REGION IS BASICALLY BIPOLAR BUT THE SPOT STRUCTURE IS LARGE AND COMPLEX. THE REGION NEAR S08E28 HAS GROWN RAPIDLY TO A D TYPE SPOT CLASSIFICATION AND BEARS SOME ATTENTION. THE N16W37 SPOT STRUCTURE HAS CONTINUED TO DECAY BUT THE H ALPHA PICTURE REMAINS FAIRLY COMPLEX WITH EXTENSIVE PLAGE AND EMBEDDED FILAMENTS. THE SOLRAD 9 SATELLITE SHOWS ENHANCED X-RAY BACKGROUND IN THE 1-8 ANGSTROM BAND. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. THE THREE REGIONS DESCRIBED ABOVE ARE EXPECTED TO PRODUCE THE MAJORITY OF SOLAR ACTIVITY. THE N12E77 REGION IS EXPECTED TO GENERATE ONE OR TWO CLASS M FLARES A DAY. THE SLIGHTLY DISTURBED GEOMAGNETIC FIELD MIGHT REMAIN SO FOR SEVERAL DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 12 MAY/1700Z ENDING 15 MAY/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 15/15/15

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX 1400Z WAS 177. PREDICTED 185/190/195.

E. MAGNETIC A-FREDERICKSBURG FOR 11 MAY WAS 02. FOR 12 MAY ABOUT 11. PREDICTED AP FOR 13-15 MAY 12/12/12.

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