

NNNNUU0350

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KMSC

HAUS BOU 130400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 625A ISSUED 0400Z 13 MAY 1970

ENERGETIC FLARES ARE EXPECTED FROM THE NE REGION.

A. OF THE SUBFLARE ACTIVITY RECORDED SINCE 1200Z YESTERDAY, ONLY ONE EVENT REGISTERED AS AN M. THIS SN FLARE BEGAN ABOUT 12/1456 UT NEAR N13E83, BUT WAS ACCOMPANIED BY A VERY SMALL CM WAVELENGTH RADIO BURST. ACTIVITY (CLASS C) SINCE THE LAST MESSAGE HAS BEEN PRIMARILY CENTERED WITHIN THE DECAYING SPOT GROUP NEAR N16W42 AND THE APPARENTLY DEVELOPING REGION JUST INSIDE THE NE LIMB. THE LATTER CENTER HAS AN AREA GREATER THAN 600 MILLIONTHS. ITS TRAILER IS EVIDENTLY LARGER THAN THE LEADER, SUBTENDING NEARLY 4 DEGREES N/S WHILE THE ATTENDANT HYDROGEN PLAGE IS BRIGHT BUT NOT QUITE SO IMPRESSIVE.

B. H-ALPHA PATROL AND PIONEER 6 AND 7 SPACECRAFT OBSERVATIONS INDICATE THAT THE LARGE NE GROUP HAS NOT FLARED SIGNIFICANTLY PRIOR TO ITS APPEARANCE AT THE LIMB. THE CARRINGTON LONGITUDE, THE 4-WEEK HIATUS IN MAJOR ACTIVITY, AND THE APPARENT DEVELOPMENT STAGE ALL SEEM TO FAVOR CLASS X EVENTS IN ABOUT 3 DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13 MAY/0400Z ENDING 16 MAY/0400Z

CLASS M OR GREATER 90/90/90

CLASS X 15/25/30

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 12/1700Z AND 2000Z WERE 177 AND 180 RESPECTIVELY.

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HAUS BOU 131700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 625B ISSUED 1700Z 13 MAY 1970

CLASS-M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. HIGHLIGHTS FOR THE PERIOD 06-13 MAY 1970--

ACTIVITY DURING THE PAST WEEK WAS DOMINATED BY MCMATH REGIONS 725 AND 743. REGION 725, CURRENTLY LOCATED NEAR N17W47 /L006/, PRODUCED FOUR CLASS M EVENTS, THE LARGEST BEING A MEDIUM-SIZED X-RAY EVENT OF OPTICAL IMPORTANCE 1B, POSSIBLY 2B, AT 08/0653Z. THIS EVENT WAS ACCOMPANIED BY IMPORTANCE 3 IONOSPHERIC DISTURBANCES BUT ONLY MINOR RADIO BURSTS. THE SPOT STRUCTURE OF REGION 725 HAS BEEN SLOWLY DECAYING SINCE CENTRAL MERIDIAN PASSAGE ON 09 MAY. REGION 743, CURRENTLY NEAR N16E63 /L257/, PRODUCED THREE CLASS M EVENTS AS IT ROTATED OVER THE EAST LIMB ON 11-12 MAY. AN ADDITIONAL SMALL CLASS M EVENT AT 10/2240Z, FOR WHICH NO OPTICAL EVENT HAS BEEN REPORTED, MAY HAVE ORIGINATED IN REGION 743 AS IT APPROACHED THE EAST LIMB. THE MOST SIGNIFICANT ACTIVITY FROM REGION 743 WAS A MEDIUM-SIZED CLASS M EVENT OF OPTICAL IMPORTANCE SUB-BRIGHT AT 12/0721Z. THIS EVENT, TOO, WAS ACCOMPANIED BY SIGNIFICANT IONOSPHERIC DISTURBANCES BUT ONLY MINOR RADIO EMISSION. REGION 743 IS APPARENTLY IN A GROWING STAGE OF DEVELOPMENT AND CURRENTLY HAS A CLASS/AREA OF F/700. AN ADDITIONAL REGION OF INTEREST SINCE 11 MAY HAS BEEN REGION 740, A RAPIDLY EVOLVING GROUP NOW CENTERED NEAR S08E13 /L303/. THIS REGION IS SMALL COMPARED TO 743, BUT MAGNETICALLY IT IS CLASSIFIED AS BETA-GAMMA WITH A WEAK DELTA CONFIGURATION. THE MAGNETIC FIELD HAS BEEN QUIET; THE FREDERICKSBURG A-INDEX WAS 04 OR BELOW FOR FIVE OF THE DAYS.

B. FORECAST FOR THE WEEK 14-20 MAY 1970--

SIGNIFICANT FURTHER DEVELOPMENT IS ANTICIPATED IN MCMATH REGIONS 740 AND 743. THE GROUP IN THE NORTHERN HEMISPHERE, 743, IS EXPECTED TO BE THE MORE ACTIVE. TWO OR THREE CLASS M EVENTS ARE EXPECTED PER DAY AND CLASS X EVENTS ARE CONSIDERED LIKELY.

28-DAY FORECAST FOR THE PERIOD 14 MAY-11 JUNE 1970--

THE COMING WEEK SHOULD BE CHARACTERIZED BY ABOVE AVERAGE ACTIVITY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13 MAY/1700Z ENDING 16 MAY/1700Z.

CLASS M OR GREATER 80/90/90

CLASS X 15/25/30

PROTON EVENTS 05/05/05

D. OTTAWA 10.7CM FLUX 1400Z WAS 190. PREDICTED 200/208/213.

E. MAGNETIC A-FREDERICKSBURG FOR 12 MAY WAS 16. FOR 13 MAY ABOUT 05. PREDICTED AP FOR 14-16 MAY 10/10/12.

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