

HAUS BOU 290400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 641A ISSUED 0400Z 29 MAY 1970

NO ENERGETIC FLARES ARE ANTICIPATED THESE NEXT 13 HOURS.

A. ABOUT TWELVE SUBFLARES WERE REPORTED YESTERDAY; THE MAIN SOURCES HAVE BEEN THE TWO RELATIVELY SMALL SW REGIONS. HYDROGEN ALPHA OBSERVATIONS UP TO MESSAGE TIME HAVE REVEALED ONLY PLAGE FLUCTUATIONS WITHIN THE S14W41 GROUP. THE SOMEWHAT ELONGATED REGION NEAR S07W18, HOWEVER, HAS BEEN GIVING RISE TO DARK SURGES JUST SOUTH OF ITS LEADING PENUMBRA. PORTIONS OF THE FILAMENT ASSOCIATED WITH THIS GROUP HAVE DARKENED. THE REMAINING TWELVE DISK FEATURES CONTINUE TO BE UNINTERESTING. GEOMAGNETICALLY CONDITIONS ARE AGAIN QUIET. THE SUBSTORM FLUCTUATIONS WHICH BEGAN GRADUALLY 27/1900Z TERMINATED ABOUT 4 HOURS AGO.

B. ALTHOUGH IN BOTH WHITE AND MONOCHROMATIC LIGHT THE S07W18 REGION APPEARS TO BE RALLYING, NO MAJOR INCREASE IN ENERGETIC FLARE POTENTIAL HAS YET OCCURRED THERE. THE CURRENT UPPER LIMIT ON M EVENTS FOR THE NEXT 3 DAYS IS ONE PER 24-HR PERIOD.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 MAY/0400Z ENDING 01 JUNE/0400Z.

CLASS M OR GREATER 60/60/50

CLASS X 08/05/05

PROTON EVENTS 08/05/05

D. OTTAWA 10.7 CM FLUXE FOR 28/1700Z WAS 150.

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HAUS BOU 291735Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 641B ISSUED 1700Z 29 MAY 1970

CLASS-M FLARES ARE EXPECTED FROM THE REGION AT S07W26 DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS SHOWN A MARKED INCREASE DURING THE PAST 13 HOURS; THE REGION AT S07W26 HAS AWAKENED FROM ITS RECENT PERIOD OF TORPOR AND HAS RENEWED ITS PATTERN OF PRODUCTION OF FREQUENT ENERGETIC FLARES. FOUR CLASS-M EVENTS HAVE BEEN REPORTED DURING THE PREVIOUS 24 HOURS; NONE OF THESE EVENTS, ALL ORIGINATING IN THE REGION AT S07W26, WAS CLASSIFIED AS LARGER THAN ONE-BRILLIANT. SIGNIFICANT SPOT GROWTH HAS OCCURRED IN THE LEADER PORTION OF THE REGION AT S07W26; IT NOW APPEARS AS IF A MAGNETIC DELTA CONFIGURATION EXISTS IN THE LEADER PENUMBRA OF THE GROUP. STRONG ABSORPTION FEATURES HAVE BEEN OBSERVED AHEAD OF THE LEADER OF THIS REGION, AND A RATHER PRONOUNCED SYSTEM OF IMBEDDED FILAMENTS EXISTS BEHIND THE LEADER. THE REGION AT N16E49 HAS SHOWN SPOT GROWTH DURING THE PAST 24 HOURS, AND THE PLAGE OF THIS REGION IS PRESENTLY BRIGHT AND COMPACT; THIS REGION, THOUGH CURRENTLY SMALL, MAY BEAR WATCHING IF DEVELOPMENT CONTINUES. OTHER REGIONS ON THE DISK PRESENTLY DO NOT APPEAR TO BE CAPABLE OF SIGNIFICANT ACTIVITY. THE GEOMAGNETIC FIELD HAS BEEN DISTURBED TO SUB-STORM LEVELS DURING THE PAST 24 HOURS.

B. SEVERAL CLASS-M FLARES ARE EXPECTED FROM THE REGION AT S07W26 DURING THE NEXT 11 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN IN AN UNSETTLED CONDITION FOR THE NEXT SEVERAL DAYS.

C. FLARE AND PROTON EVENT PROBAILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 MAY/1700Z ENDING 01 JUNE/1700Z.

CLASS M OR GREATER 95/85/85

CLASS X 35/20/15

PROTON EVENTS 15/10/05

D. OTTAWA 10.7 CM FLUX FOR 29/1400Z WAS 155.

PREDICTED 10.7 CM FLUX FOR 30 MAY-01 JUNE IS 155/157/157.

E. MAGNETIC A-FREDERICKSBURG FOR 28 MAY WAS 29. FOR 29 MAY ABOUT 20 PREDICTED AP FOR 30 MAY-01 JUNE, 12/16/16.

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