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HAUS BOU 060500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 126A ISSUED 0500Z 06 MAY 1971

ENERGETIC ACTIVITY IS EXPECTED DURING THE NEXT 24 HOURS.

A. DEVELOPMENT IS CONTINUING IN THE ACTIVE CENTER AT N13E09, WHERE RECENT PLAGE BRIGHTENINGS AND PENUMBRAL GROWTH HAVE OCCURRED. THIS NORTHEASTERN REGION CONTAINS A KINKED LONGITUDINAL NEUTRAL LINE AND IS A RELATIVELY INTENSE SOURCE OF MICROWAVE EMISSIONS AT 9.1 CM AND 8.6 MM. THE N13E09 REGION PRODUCED A CLASS M2 ONE-NORMAL FLARE AT 05/2302Z, BUT SOLAR ACTIVITY OTHERWISE HAS REMAINED AT A LOW LEVEL. THE GEOMAGNETIC FIELD BECAME MODERATELY DISTURBED AT ABOUT 06/0220Z, AND UNSETTLED CONDITIONS ARE PRESENTLY BEING OBSERVED.

B. SEVERAL ENERGETIC FLARES ARE EXPECTED TO BE PRODUCED BY THE N13E09 REGION DURING THE NEXT THREE DAYS AS DEVELOPMENT CONTINUES. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN MODERATELY DISTURBED FOR THE NEXT 24 TO 48 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 MAY/0000Z ENDING 08 MAY/2400Z.

CLASS M OR GREATER 90/90/80

CLASS X 25/25/20

PROTON EVENTS 15/15/10

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HAUS BOU 062215

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 126B ISSUED 2200Z 06 MAY 1971

CLASS M AND POSSIBLE CLASS X FLARES ARE EXPECTED NEXT 24 HOURS.

A. AN EVENT AT 05/2259Z, CLASS M7, WAS NOT IDENTIFIED OPTICALLY.

NO CLASS M EVENTS HAVE BEEN SEEN SINCE THEN. OPTICAL OBSERVATIONS HAVE BEEN SPARSE, BUT THE N13E00 REGION, WHILE PRODUCING ONLY MINOR FLARES, IS SHOWING CONTINUING STRUCTURAL CHANGES. PREVIOUSLY ACTIVE PLAGE AREAS HAVE DECLINED WHILE ARCH-FILAMENT STRUCTURES INDICATE NEW EMERGING COMPLEX SECTIONS IN THE LEADER. THE MAIN FOLLOWER PENUMBRA HAS GROWN WHILE LARGE LEADER PENUMBRAE ARE MIGRATING INTO THE FOLLOWER. REPORTS OF SURGES, MOUNDS AND CORONAL CONDENSATIONS INDICATE THAT A REGION RETURNING TO THE DISK AT NE05 HAS ENERGETIC POTENTIAL. A GEOMAGNETIC STORM BEGAN GRADUALLY AT ABOUT 05/1600Z. THE PEAK DISTURBANCE WAS FROM 06/0900Z TO 06/1200Z WHEN K FREDRICKSBURG REACHED 6.

B. THE CURRENT LULL IN ACTIVITY AT N13 C.M. IS EXPECTED TO END IN THE NEXT 24 HOURS WITH FLARES OF MAGNITUDE M5 TO X5 EXPECTED. THE MAGNETIC STORM IS EXPECTED TO LAST ANOTHER 36-48 HOURS WITH MID-TO-LOW LATITUDE K VALUES OF 3 AND 4 PREDOMINATING.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 07 MAY/0000Z ENDING 09 MAY/2400Z.

CLASS M OR GREATER 90/90/90

CLASS X 25/25/25

PROTON EVENTS 30/30/30

D. OTTAWA 10.7 CM FLUXES FOR 06/1400Z 06/1700Z AND 06/2000Z WERE 122, 123 AND 125 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 07-09 MAY IS 125/127/130.

E. MAGNETIC A-FREDERICKSBURG FOR 05 MAY WAS 08. FOR 06 ABOUT 36. PREDICTED AP FOR 07-09, 18/15/12.

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