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HAUS BOU 070500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 127A ISSUED 0500Z 07 MAY 1971

ENERGETIC FLARE ACTIVITY IS ANTICIPATED DURING THE NEXT 24 HOURS.

A. DURING THE PAST SEVEN HOURS, ONLY THREE CLASS C SUBFLARES HAVE BEEN OBSERVED IN THE ACTIVE CENTER AT N13W03. THIS REGION RETAINS ITS DYNAMIC CHARACTERISTICS AND HAS EXHIBITED RECENT PENUMBRA GROWTH IN THE TRAILING SECTION AND AROUND THE EASTERN LEADING SPOT. THE NEW REGION AT N06E86 CONTAINS AN APPARENT C-TYPE SPOT GROUP ACCOMPANIED BY RELATIVELY UNIMPRESSIVE PLAGE. OTHER REGIONS ARE STABLE. THE GEOMAGNETIC STORM THAT BEGAN GRADUALLY ABOUT 05/1600Z HAS INTENSIFIED SINCE 07/0050Z, WITH MAXIMUM FLUCTUATIONS OF ABOUT 140 GAMMAS BEING OBSERVED AT BOULDER.

B. DURING THE THREE-DAY FORECAST PERIOD, THE REGION NOW AT N13W03 PROBABLY WILL PRODUCE ONE OR TWO LARGE CLASS M OR CLASS X FLARES, AS WELL AS OCCASIONAL CLASS C EVENTS. THE GEOMAGNETIC STORM PRESENTLY IN PROGRESS IS EXPECTED TO CONTINUE FOR AT LEAST 24 HOURS WITH A GRADUAL DECREASE IN THE INTENSITY OF DISTURBANCE.

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

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 127B ISSUED 2200Z 07 MAY 1971

ENERGETIC FLARE ACTIVITY IS LIKELY DURING THE NEXT 24 HOURS.

A. DURING THE PAST SEVENTEEN HOURS, SOLAR ACTIVITY HAS CONSISTED PRIMARILY OF CLASS C SUBFLARES FROM THE STILL-DEVELOPING REGION AT N13W13. ABOUT TEN HOURS AGO, PENUMBRA EXTENDED FROM THE CENTRAL LEADING SPOT TO THE TRAILING SECTION AT N13W13, BUT RECENT OBSERVATIONS SHOW THAT THE CENTRAL LEADER HAS SEPARATED FROM THE TRAILER AND IS BECOMING MORE SYMMETRIC. BRIGHTENINGS AND SLIGHT DEVELOPMENT HAVE BEEN OBSERVED IN THE NORTHEASTERN PART OF THE N13W13 REGION NEAR A KINK IN THE NEUTRAL LINE. THE REGION AT N05E71 CONTAINS AN OPEN D-TYPE SPOT GROUP AND UNIMPRESSIVE PLAGE. SUSPENDED MATTER AND SURGE ACTIVITY NEAR N05 SUGGEST THAT AT LEAST ONE NEW ACTIVE CENTER MAY BECOME VISIBLE SOON AT THAT LOCATION. THE GEOMAGNETIC STORM THAT BEGAN GRADUALLY AT ABOUT 05/1600Z INTENSIFIED DURING THE PAST 17 HOURS. THE LARGEST K INDEX RECORDED AT BOULDER AND FREDERICKSBURG WAS 6. THE LEVEL OF DISTURBANCE HAS DECREASED CONSIDERABLY SINCE ABOUT 07/1200Z, BUT UNSETTLED CONDITIONS STILL ARE BEING OBSERVED.

B. THE ACTIVE CENTER AT N13W13 PROBABLY WILL PRODUCE ONE OR TWO LARGE CLASS M OR CLASS X FLARES DURING THE THREE-DAY FORECAST PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN IN AN UNSETTLED CONDITION FOR 24-48 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 08 MAY/0000Z ENDING 10 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 07/1400Z, 07/1700Z AND 07/2000Z WERE 130, 129 AND 133, RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 08-10 MAY IS 128/130/132.

E. MAGNETIC A-FREDERICKSBURG FOR 06 MAY WAS 35. FOR 07 MAY ABOUT 29. PREDICTED AP FOR 08-10 MAY 18/15/12.

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