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HFUS BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 138 ISSUED 2200Z 17 MAY 1972

A. SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL THE PAST 24 HOURS. REGIONS 195/N13E35/ AND 184/S07W35/ HAVE PRODUCED CLASS C SUBFLARES. ALL OTHER REGIONS HAVE BEEN QUIET. REGION 197 /N15E35/, A NEW BIPOLE, HAS EMERGED DIRECTLY NORTH OF THE H-TYPE SPOT DESIGNATED AS 195. REGION 197 IS DEFINITELY CROWDING REGION 195, AND IT APPEARS THAT ITS EMERGENCE HAS FORCED 195 TO DRIFT SOUTHWARD AND TO ROTATE. DEVELOPMENT IN THE INTERMEDIATE SPOTS OF REGION 193/S13E34/ APPEARS TO BE INCREASING FIELD GRADIENTS WITHIN THE REGION, AND THE LARGE LEADER OF THIS GROUP ALSO APPEARS TO BE ROTATING. REGION 186/S04E02/ IS DECLINING AND HAS PRODUCED NO ACTIVITY SINCE 16/2347Z. THE GEOMAGNETIC FIELD WAS UNSETTLED 17/1300-1700Z BUT HAS SINCE BEEN QUIET.

B. CLASS C AND SMALL CLASS M SUBFLARE ACTIVITY IS EXPECTED TO CONTINUE IN REGIONS 184 AND 186. MORE ENERGETIC ACTIVITY, UP TO CLASS X, COULD ISSUE FROM REGIONS 195/197 AND 193 IF RECENT DEVELOPMENT TRENDS CONTINUE. THE GEOMAGNETIC FIELD WILL BE QUIET DURING THE DAY AND UNSETTLED AT NIGHT.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 MAY/0000Z ENDING 20 MAY/2400Z.

CLASS M OR GREATER 55/55/50

CLASS X 05/05/05

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 17/1400Z, 17/1700Z AND 17/2000Z WERE 167, 166 AND 168 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 18-20 MAY IS 163/160/157.

E. MAGNETIC A-FREDERICKSBURG FOR 16 MAY WAS 013. FOR 17 MAY ABOUT 012 PREDICTED AP FOR 18-20 MAY, 016/006/011.

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