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HFUS BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 295 ISSUED 2200Z 22 OCT 1971

CLASS M ACTIVITY IS POSSIBLE DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS BEEN AT A LOW LEVEL. ONLY FOUR CLASS C SUBFLARES HAVE BEEN OBSERVED, ALL FROM REGION 306 /N08W14/. THIS REGION CONTINUES TO GIVE THE IMPRESSION THAT IT HAS REACHED ITS PEAK DEVELOPMENT AND IS NOW BEGINNING TO DECAY AND SIMPLIFY MAGNETICALLY. ITS TOTAL SPOT AREA HAS INCREASED VERY SLIGHTLY TO 1020 MILLIONTHS OF THE SOLAR HEMISPHERE, BUT ITS LEADING PENUMBRA HAS BECOME MORE SYMMETRICAL, ITS LEADING AND FOLLOWING UMBRA ARE FRAGMENTING, AND THE LEADING AND FOLLOWING SECTIONS ARE DRAWING APART FROM ONE ANOTHER. REGIONS 308 /N17E08/ AND 311 /S12W09/ REMAIN SMALL SIMPLE BIPOLES AND 312 /S06E63/ IS A SINGLE UNIPOLAR SPOT. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. ENERGETIC EVENTS ARE POSSIBLE FROM REGION 306 AS IT DECAYS. SUCH ACTIVITY FOR THE NEXT THREE DAYS SHOULD BE CONFINED TO TWO TO THREE SMALL TO MEDIUM SIZED CLASS M-EVENTS. A SATELLITE-LEVEL PROTON ENHANCEMENT WOULD LIKELY FOLLOW ANY EVENT OF CLASS M6 OR GREATER. UNSETLED TO ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED ON 23-24 OCTOBER.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23/0000Z ENDING 25/2400Z.

CLASS M OR GREATER 50/50/50

CLASS X 05/05/05

PROTON EVENTS 08/09/10

D. OTTAWA 10.7CM FLUXES FOR 22/1400Z AND 22/1700Z WERE BOTH 131. PREDICTED 10.7CM FLUX FOR 23-25 OCT IS 132/133/131.

E. MAGNETIC A-FREDERICKSBURG FOR 21 OCT WAS 03. FOR 22 OCT ABOUT 08. PREDICTED AP FOR 23-25 OCT IS 12/9/11.

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