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HFUS BOU 222200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 356 ISSUED 2200Z 22 DECEMBER 1971

ONE M5 OR GREATER EVENT IS POSSIBLE.

A. NO ENERGETIC EVENT HAS OCCURRED DURING THE PAST 24 HOURS. REGION 391 /S15E15/ HAS REORGANIZED ITS SUNSPOT STRUCTURE, CONSISTING PRIMARILY OF TRAILING /VIOLET/ POLARITY. RED POLARITIES HAVE DIMINISHED, DECREASING MAGNETIC GRADIENTS. BOTH THE HALPH STRUCTURE AND 8.6 MM TEMP. HAVE DECREASED SLIGHTLY. COMPANION REGION 393 /S11E23/ HAS GROWN SLIGHTLY IN SUNSPOT STRUCTURE. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE.

B. THE COMBINED STRUCTURES OF REGIONS 391 AND 393 MAY PRODUCE ONE M5 OR GREATER EVENT DURING THE FORECAST PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR 24-36 HOURS AND THEN BECOME QUIET.

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

CLASS M OR GREATER 75/60/50

CLASS X 15/08/05

PROTON EVENT 15/10/10

D. OTTAWA 10.7 CM FLUXES FOR 22/1400Z, 1700Z AND 2000Z WERE 145, 144 AND 142. PREDICTED 10.7 CM FLUXES FOR 23-25 DEC ARE 145/146/143.

E. MAGNETIC A-FREDERICKSBURG FOR 21 DEC WAS 10. FOR 22 DEC ABOUT 16. PREDICTED AP FOR 23-25 DEC ARE 15/12/06.

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