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HFUS BOU 041435

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 217A ISSUED 1400Z 04 AUG 1972

A. AN IMPORTANCE 2B FLARE OCCURRED IN REGION 331 AT 0621Z TODAY. ALTHOUGH X-RAY DATA ARE NOT YET AVAILABLE, RADIO DATA AND THE IONOSPHERIC EFFECTS OBSERVED WITH THIS FLARE INDICATE A CLASS X EVENT. A SUDDEN COMMENCEMENT BEGAN AT 0120Z ON THE 4TH OF AUG, WITH A SECOND SUDDEN COMMENCEMENT AT 0220Z. THE MAIN PHASE OF THE GEOMAGNETIC STORM APPEARS TO HAVE BEGAN AT ABOUT 0230Z, WITH THE MOST INTENSE PART OF THE STORM BETWEEN 03 AND 09Z. VISUAL AURORA WERE OBSERVED THROUGHOUT THE NIGHT IN THE NORTHERN U. S. PROTON FLUXES HAVE INCREASED SINCE YESTERDAY WITH 1500 AND 225 PROTONS PER SQ CM-SEC RECORDED IN THE ATS-1 5-20 MEV AND 20-70 MEV RANGE.

B. ENERGETIC FLARE ACTIVITY UP TO CLASS X CAN BE EXPECTED FROM REGION 331. THE GEOMAGNETIC FIELD SHOULD REMAIN ACTIVE DURING THE REST OF THIS ZULU DAY AS IT GOES THROUGH THE RECOVERY PHASE OF THE STORM. ANOTHER SUDDEN COMMENCEMENT IS EXPECTED FROM THE 0630Z FLARE TO BEGIN ABOUT 1200Z ON THE 5TH OF AUG.

C. EVENT PROBABILITIES 04 AUG/1400Z-05 AUG/1400Z.

CLASS M 95/95/95

CLASS X 20/30/30

PROTON 30/40/40

D. A-FREDERICKSBURG

ESTIMATED 04 AUG 055

PREDICTED 04-07 AUG 050-020-010

SOLTERWARN

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