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HFUS BOU 022245

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 215 ISSUED 2200Z 02 AUGUST 1972

A. SOLAR ACTIVITY HAS BEEN HIGH. REGION 331 /N13E22/ HAS PRODUCED A SERIES OF ENERGETIC FLARES. THE FIRST BEGAN AT 02/0250Z. IT WAS- OPTICALLY 1B, X-RAY CLASS X1, 10CM RADIO BURST 1800 FLUX UNITS OVER BACKGROUND, TYPE II DEKAMETRIC. ANOTHER FLARE AT 02/1838Z WAS 1B WITH 10 CENTIMETER BURST OF 600 FLUX UNITS. A FLARE AT 02/1955Z WAS 2B OPTICALLY. THE 10 CENTIMETER RADIO PEAKED AT 2810 FLUX UNITS OVER BACKGROUND AT 2047Z. AT FORECAST TIME 02/2148Z 10 CENTIMETER FLUX WAS 6200 FLUX UNITS OVER BACKGROUND. CONTINUUM DEKAMETRIC AT BOULDER HAS BEEN IN PROGRESS SINCE BEFORE 1500Z. BY 2035Z, THE NOISE STORM HAD BECOME EXTREMELY INTENSE FROM 10 TO 80 MHZ. NO SOLRAD X-RAY DATA HAS BEEN AVAILABLE SINCE ABOUT 1100Z. PROTON FLUX ON ATS-1 HAD RISEN SLIGHTLY BUT STEADILY BETWEEN 02/1200Z AND 02/2100Z. FLUX RATES AT 2100Z WERE 15 PROTONS/CM²-SEC ON THE 5-21 MEV DETECTOR AND 5 PROTONS/CM²-SEC AT 21-70 MEV.

B. A PROTON EVENT, PCA AND MAGNETIC STORM, ALL OF AT LEAST MODERATE INTENSITY, ARE EXPECTED FROM THE CURRENT ACTIVITY. PROTON FLUX SHOULD RISE SHARPLY IN THE NEXT 12 HOURS. THE GEOMAGNETIC STORM SHOULD BE MOST INTENSE ON 04 AND 05 AUG. THE PROBABILITY FOR FURTHER ENERGETIC FLARES IS UNKNOWN.

C. EVENT PROBABILITIES 03 AUG/0000-05 AUG/2400Z

CLASS M 90/90/70

CLASS X 25/20/15

PROTON 90/30/30

D. OTTAWA 10.7CM FLUX

OBSERVED 02 AUG/1700Z 146

PREDICTED 03 AUG-05 AUG 150-148-145

E. A-FREDERICKSBURG

OBSERVED 01 AUG 12

ESTIMATED 02 AUG 13

PREDICTED 03 AUG-05 AUG 15-25-50

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