

NNNN

KBOU

HFUS BOU 111710

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 224A ISSUED 1700Z 11 AUGUST 1972

A. REGION 331 /NEAR N14W90/ PRODUCED A FLARE OF ESTIMATED IMPORTANCE 2N AT 11/1215Z. THE FLARE TRIGGERED A VERY IMPRESSIVE SURGE WHICH EXTENDED TO 0.5 SOLAR RADIUS. SHORTWAVE FADES AND SWEEP FREQUENCY TYPE IV, III AND II RADIO BURSTS WERE OBSERVED. NO GROUND LEVEL EVENT WAS SEEN.

B. THE POSSIBILITY EXISTS THAT THIS EVENT PRODUCED PROTONS. IF SO, HIGH ENERGY PROTON ENHANCEMENT SHOULD BE SEEN BY ATS-1 ABOUT 11/1900Z. IF A SHOCK FRONT WAS CREATED EARTH SHOULD EXPERIENCE A SUDDEN COMMENCEMENT FOLLOWED BY A SHORT LIVED MINOR GEOMAGNETIC STORM AT ABOUT 12/2300Z. AN UPDATED REPORT WILL BE INCLUDED IN THE 2200Z FORECAST.

SOLTERWARN

SPAN

BT

1729

PP KGFF

DE BOU 111725

PLS PASS TO COMSAT WASHDC ATTN MR NEIL

KGFF PLS ACK RECEIPT OF THIS MSG

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HFUS BOU 112200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 224B ISSUED 2200Z 11 AUGUST 1972

A. THE ONLY SIGNIFICANT ACTIVITY IN THE PAST 24 HOURS HAS BEEN THE 2N FLARE AND SURGE AT 11/1215Z PREVIOUSLY REPORTED IN FORECAST 224A. A FEW NEW REGIONS HAVE APPEARED ON THE DISK BUT ARE NOT SIGNIFICANT AT THE PRESENT TIME. THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED.

B. A VERY SLIGHT ENHANCEMENT OF 21-70 MEV PROTONS WAS NOTED ON THE ATS-1 SATELLITE AT ABOUT 11/1900Z, WHICH INDICATES THAT THE 11/1215Z EVENT PROBABLY DID NOT PRODUCE A SHOCK FRONT OF ANY SIGNIFICANCE. DURING THE NEXT 72 HOURS SOLAR ACTIVITY SHOULD BE LOW. ALTHOUGH X-RAYS AND PROTONS FROM FUTURE ENERGETIC ACTIVITY IN REGION 331 COULD STILL REACH EARTH, THEIR PROBABILITY WILL DIMINISH AS THE REGION ROTATES FURTHER FROM THE LIMB. THE GEOMAGNETIC FIELD WILL BE UNSETTLED DURING THE NEXT 72 HOURS.

C. EVENT PROBABILITIES 12 AUG/0000Z-14 AUG/2400Z

CLASS M 20/15/15

CLASS X 05/05/01

PROTON 20/10/05

D. OTTAWA 10.7 CM FLUX

OBSERVED 11 AUGUST/1700Z 113

PREDICTED 12-14 AUGUST 110-105-100

E. A-FREDERICKSBURG

OBSERVED 10 AUGUST 015

ESTIMATED 11 AUGUST 014

PREDICTED 12-14 AUGUST 013-015-010

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