

NNNN

KBOU

HFUS BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 231 ISSUED 2200Z 18 AUG 1972

A. SOLAR ACTIVITY REMAINS LOW. HOWEVER, THERE HAS BEEN A SLIGHT INCREASE IN THE FREQUENCY OF SUBFLARE PRODUCTION TODAY, PRIMARILY FROM REGIONS 359 /N16W56/ AND 364 /S05E05/. LIMITED X-RAY DATA INDICATE THAT ALL FLARES WERE NONENERGETIC. THE MAGNETIC FIELD GRADIENT HAS INCREASED IN REGION 359 DURING THE PAST TWO DAYS, AND THIS REGION APPEARS CAPABLE OF PRODUCING CLASS C ACTIVITY. A SMALL PROTON ENHANCEMENT WAS OBSERVED IN THE 5-21 MEV RANGE AT 1330Z WHEN OBSERVATIONS BEGAN ON ATS-1 TODAY. THE GEOMAGNETIC FIELD HAS BEEN MILDLY UNSETTLED.

B. CLASS C ACTIVITY EXPECTED FROM REGION 359. LARGER EVENTS ARE UNLIKELY. MILDLY UNSETTLED GEOMAGNETIC CONDITIONS ARE EXPECTED FOR THE NEXT TWO DAYS WITH A DISTURBANCE EXPECTED TO BEGIN LATE ON THE 20TH WHICH SHOULD LEAD TO AN ACTIVE GEOMAGNETIC FIELD ON THE 21ST.

C. EVENT PROBABILITIES 19 AUG/0000Z-21 AUG/2400Z.

CLASS M 10/10/10.

CLASS X 01/01/01.

PROTON 01/01/01.

D. OTTAWA 10.7 CM FLUX.

OBSERVED 18 AUG/1700Z 107.

PREDICTED 19 AUG-21 AUG 109-110-110.

E. A-FREDERICKSBURG.

OBSERVED 17 AUG 06.

ESTIMATED 18 AUG 09.

PREDICTED 19 AUG-21 AUG 010-010-018.

SOLTERWARN

SPAN

BT