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KBOU

HFUS BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 290 ISSUED 2200Z 17 OCT 1971

LESS THAN FIVE NON-ENERGETIC SUBFLARE ARE EXPECTED DURING THE NEXT 24 HOURS.

A. ONLY ONE SUBFLARE-A C7 /SB/-HAS BEEN REPORTED SINCE YESTER-DAYS MESSAGE. THIS EXTREMELY LOW SOLAR ACTIVITY LEVEL IS DUE TO /1/ OVERCAST SKIES AT A NUMBER OF OBSERVATORIES INCLUDING BOULDER AND /2/ AN APPARENTLY DULL DISK. TWO REGIONS ARE CURRENTLY VISIBLE. ONE OF THESE IS A D-TYPE GROUP NEAR NO8E52 WHILE THE OTHER REPRESENTS A NEW FEATURE OF SIMILAR CLASS CENTERED ABOUT NO7W13. THE NO8E52 REGION HAS GROWN CONSIDERABLY SINCE IT WAS LAST OBSERVED HERE IN BOULDER TWO DAYS AGO. IT CONTAINS THE MOST INTERESTING FINE STRUCTURE ON THE DISK WITH A COMPACT, BRIGHT, FLUCTUATING PLAGE AND SMALL ARCH FILAMENTS IN THE CENTRAL PORTION. THE LOCAL K-INDEX HAS NOT EXCEEDED TWO.

B. FLARES HIGH ON THE C SCALE REPRESENT THE MOST ENERGETIC EVENTS THAT CAN BE EXPECTED DURING THE NEXT 24-HOUR PERIOD. SMALL M FLARES AT A RATE OF ROUGHLY ONE PER DAY CAN BE ANTICIPATED THEREAFTER AS AN UPPER LIMIT ON FLARE ENERGETICS. THE GEOMAGNETIC FIELD SHOULD BE EXTREMELY QUIET THROUGHOUT THE 3-DAY FORECAST PERIOD.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 OCT/0000Z ENDING 20 OCT/2400Z.

CLASS M OR GREATER 15/25/10

CLASS X 01/05/01

PROTON EVENTS 02/10/02

D. OTTAWA 10.7 CM FLUXES FOR 17/1400Z, 17/1700Z AND 17/2000Z WERE 95, 95 AND 94 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 18-20 OCT IS 93/93/91.

E. MAGNETIC A-FREDERICKSBURG FOR 16 OCT WAS 03. FOR 17 OCT ABOUT 04. PREDICTED AP FOR 18-20 OCT, 04/03/00.

SOLTERWARN

SPAN

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