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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 N08E52  
WHILE THE OTHER REPRESENTS A NEW FEATURE OF SIMILAR CLASS CEN-  
TERED ABOUT N07W13. THE N08E52 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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