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HFUS BOU 172220

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 321 ISSUED 2200Z 17 NOVEMBER 1971

TEN OR LESS NON-ENERGETIC SUBFLARES SHOULD MARK THE SUM TOTAL OF ACTIVITY FOR THE NEXT 24 HOURS.

A. ABOUT SIX WEAK X-RAY PRODUCING EVENTS HAVE BEEN OBSERVED SO FAR TODAY. ALL OF THESE FLARES OCCURRED WITHIN THE C TYPE REGION NUMBERED 342 NOW CENTERED NEAR A S12E20 POSITION. THIS NEARLY UNIPOLAR FEATURE MAINTAINS ITS HORSESHOE-SHAPED NEUTRAL LINE AND SURROUNDING PLAGE, FLUCTUATIONS IN WHICH, ARE IN EVIDENCE PRIMARILY IN THE SE PORTION. AN INTENSE TYPE I RADIO NOISE STORM AT 184 MHZ WHICH BEGAN ABOUT 17/1800Z IS PROBABLY ASSOCIATED WITH 342. THREE NEW REGIONS HAVE FORMED SINCE THE LAST MESSAGE AT THE FOLLOWING LOCATIONS -- N09W15, N18E39, AND S30 E36. MOREOVER, AN H TYPE GROUP HAS ROTATED INTO VIEW NEAR S06. THE GEOMAGNETIC FIELD CONTINUES ITS ULTRA QUIET DAY RESPONSE AT ALL MAGNETIC LATITUDES. BOULDER AS WELL AS THE FREDERICKSBURG GEOMAGNETIC CENTER HAVE REPORTED MOSTLY K EQUAL ZERO SINCE THE 14TH.

B. REGION 342 IS EXPECTED TO YIELD OF THE ORDER OF TWO SMALL M EVENTS DURING THE 8 DAYS REMAINING OF ITS DISK PASSAGE. NO ONE OF THE OTHER FIVE DISK FEATURES IS ANTICIPATED TO DEVELOP INTO A MAJOR ACTIVITY CENTER.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 NOV/0000Z ENDING 20 NOV/2400Z.

CLASS M OR GREATER 40/30/40

CLASS X 03/01/03

PROTON EVENT 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 17/1400Z, 1700Z AND 2000Z WERE 109, 108 AND 110. PREDICTED 10.7 CM FLUXES FOR 18-20 NOV ARE 111/114/115.

E. MAGNETIC A-FREDERICKSBURG FOR 16 NOV WAS 01. FOR 17 NOV ABOUT 00. PREDICTED AP FOR 18-20 NOV ARE 06/09/07.

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