

HFUS BOU 152200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 349 ISSUED 2200Z 15 DECEMBER 1971

ENERGETIC FLARES ARE NOT ANTICIPATED DURING THE NEXT 24 HOURS.

A. OF THE FOUR SUBFLARES REPORTED SO FAR TODAY NONE HAVE PRODUCED M-LEVEL X-RAYS. OVERALL DISK ACTIVITY HAS DECLINED BY APPROXIMATELY A FACTOR OF TWO SINCE YESTERDAY, RESULTING IN A CURRENT FLARE FREQUENCY OF ABOUT ONE EVENT EVERY FOUR HOURS. REGARDING THE TWO MOST PROMINENT DISK FEATURES, I.E. 371 AND 376 CLN BOTH OF THESE BIPOLAR GROUPS HAVE DECLINED IN AREA, MAGNETIC COMPLEXITY AND H-ALPHA FLARE BRIGHTNESS. A DARK, N-S FILAMENT ABOUT 12 DEGREES WEST OF THE CENTRAL MERIDIAN DISAPPEARED SOMETIME BETWEEN 15/1000 AND 1200Z. LATE YESTERDAY THIS SAME FEATURE WAS REPORTED VISIBLE IN THE BLUE WING OF H-ALPHA. BEFORE 14/0400Z AN EXTREMELY SMALL ENHANCEMENT IN THE PROTON FLUX WAS DETECTED BY ATS-1. IT HAS CONTINUED TODAY, RISING SLOWLY TO 2 OR 3 TIMES BACKGROUND. THE GEOMAGNETIC FIELD IS QUIET; NO 3-HOUR RANGE INDEX AT EITHER HIGH OR LOW LATITUDE STATIONS HAS EXCEEDED K EQUAL 2.

B. INFREQUENT AND ALMOST CERTAINLY NON-ENERGETIC FLARES IS THE KIND OF ACTIVITY EXPECTED IN THE NEXT 3 DAYS. MAGNETICALLY A TRANSITION FROM QUIET TO UNSETTLED CONDITIONS IS LOOKED FOR LATE ON THE 18TH.

C. EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 DECEMBER/0000Z ENDING 18 DECEMBER/2400Z.

CLASS M OR GREATER 40/25/20

CLASS X 05/02/01

PROTON EVENT 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 15/1400Z 1700Z AND 2000Z WERE 126, 127 AND 121. PREDICTED 10.7 CM FLUXES FOR 16-18 DECEMBER ARE 122/122/125.

E. MAGNETIC A-FREDERICKSBURG FOR 14 DECEMBER WAS 02. FOR 15 DECEMBER ABOUT 02. PREDICTED AP FOR 16-18 DECEMBER ARE 05/02/09.

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