

HFUS BOU 060500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 249A ISSUED 0500Z 06 SEPTEMBER 1971

ONLY OCCASIONAL CLASS C FLARES EXPECTED.

A. TWO CLASS C SUBFLARES HAVE BEEN OBSERVED SINCE OUR 05/2200Z MESSAGE. CONTINUED SLOW GROWTH IS TAKING PLACE IN REGIONS 246 (S05W29), 249 (N18W07) AND 250 (N03W35). OF THESE 246 IS THE LARGEST, 120 MILLIONTHS, AND HAS BEEN THE MOST ACTIVE. REGION 250 IS OF INTEREST BECAUSE IT IS OF REVERSED MAGNETIC POLARITY. SATELLITE-LEVEL PROTON FLUXES CONTINUE TO DECAY SLOWLY. THE ATS-1 IS CURRENTLY REGISTERING ABOUT 25 AND 6 PARTICLES/CM²/SEC AT 5-21 AND 21-70 MEV RESPECTIVELY. THE GEOMAGNETIC FIELD HAS BEEN QUIET SINCE 05/2000Z.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 SEPT/0000Z ENDING 08 SEPT/2400Z

CLASS M OR GREATER 15/15/15

CLASS X 01/01/01

PROTON EVENTS 01/01/01

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HFUS BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 249B ISSUED 2200Z 06 SEPT 1971

THE POTENTIAL FOR CLASS M FLARES IS INCREASING.

A. THE MOST ACTIVE REGION HAS BEEN 246 /S05W38/ WITH A TOTAL AT MESSAGE TIME OF ABOUT 12 NON-ENERGETIC FLARES. PLAGE IS CONCENTRATED BETWEEN THE LEADER AND FOLLOWER WHILE MATERIAL JUST EAST OF THE LEADER IS NEAR FLARE INTENSITY. IN TERMS OF GROWTH THIS DISK FEATURE HAS EVOLVED FROM A D/120 TO AN E/250, FURTHER EXTENDED ITSELF IN LONGITUDE, AND ENLARGED AND HARDENED THE ARCH FILAMENT NETWORK BETWEEN LEADER-FOLLOWER. SIGNIFICANT PENUMBRAL DEVELOPMENT IS ALSO APPARENT IN REGION 250 /N03W46/. HERE THE SPOT GROUP HAS JUMPED FROM A C TO D TYPE OF ROUGHLY 120 MILLIONTHS. BOTH OF THESE REGIONWS, NAMELY 246 AND 250, APPEAR TO BE BIPOLAR STRUCTURES. A RESURGENCE IN GEOMAGNETIC ACTIVITY BEGAN ABOUT 06/0630Z. IN BOULDER THE LARGEST DEVIATIONS /K EQUAL 5/ FROM THE QUIET DAY TRACE HAVE BEEN RECORDED ON THE DECLINATION.

B. AT MOST, SMALL ENERGETIC FLARES WITH LITTLE ACCOMPANING CM RADIO EMISSION ARE ANTICIPATED FROM REGION 246 DURING THE FORECAST PERIOD.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 07 SEPT/0000Z ENDING 09 SEPT/2400Z.

CLASS M OR GREATER 50/65/50

CLASS X 09/10/09

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 06/1400Z, 06/1700Z AND 06/2000Z WERE 105, 103 AND 102 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 07-09 SEPT IS 99/95/96.

E. MAGNETIC A-FREDERICKSBURG FOR 05 SEPT WAS 15. FOR 06 SEPT ABOUT 15. PREDICTED AP FOR 07-09 SEPT, 12/09/08.

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