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HFUS BOU 050500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 248A ISSUED 0500Z 05 SEPTEMBER 1971

ONLY CLASS C SUBFLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. ONLY A FEW NON-ENERGETIC CHROMOSPHERIC BRIGHTENINGS AND SUBFLARES HAVE BEEN REPORTED DURING THE PAST SEVEN HOURS. ENHANCEMENTS HAVE OCCURRED WEST OF THE LEADER OF SLOWLY-GROWING REGION 246 (S05W14). OTHER REGIONS ARE UNIMPRESSIVE. AT 05/0400Z, PROTON FLUXES ON THE ATS-1 GEOSTATIONARY SATELLITE WERE APPROXIMATELY 120 PARTICLES/CM2/SEC AT 5-21 MEV AND 20 PARTICLES/CM2/SEC AT 21-70 MEV. A GEOMAGNETIC SUBSTORM ACCOMPANIED BY UNSETTLED CONDITIONS HAS BEEN IN PROGRESS SINCE 04/1645Z.

B. DURING THE THREE-DAY FORECAST PERIOD, SOLAR ACTIVITY PROBABLY WILL REMAIN AT A VERY LOW LEVEL. NO SIGNIFICANT ENERGETIC FLARES ARE ANTICIPATED. UNSETTLED GEOMAGNETIC CONDITIONS PROBABLY WILL CONTINUE DURING THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 05 SEPT/0000Z ENDING 07 SEPT/2400Z

CLASS M OR GREATER 05/05/05

CLASS X 00/00/00

PROTON EVENTS IN PROGRESS/01/01

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HFUS BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 248B ISSUED 2200Z 05 SEPT 1971

OCCASIONAL CLASS C FLARES SHOULD CHARACTERIZE SOLAR ACTIVITY DURING THE NEXT 24 HOURS.

A. LESS THAN 10 NON-ENERGETIC FLARES HAVE BEEN OBSERVED SO FAR TODAY UNDER GENERALLY FAIR TO POOR SEEING CONDITIONS. THE MOST ACTIVE GROUP OUT OF THE THREE THAT ARE VISIBLE IS REGION 246 /S05W26/. THIS DISK FEATURE IS A SOMEWHAT DISTENDED /10 DEGREES IN LONGITUDE/ D TYPE GROUP OF ABOUT 120 MILLIONTHS. ARCH FILAMENTS AND AN ADF HAVE BEEN REPORTED WITHIN ITS CENTRAL PORTION. A NEW SPOT IS MAKING AN APPEARANCE NEAR N05W34. AS YET THIS REGION, WHICH IS LABELED 250, CONTAINS ONLY A SMALL C GROUP. SINCE THE 7TH 3-HOUR PERIOD OF YESTERDAY, K INDICES HAVE REGISTERED EITHER 3 OR 4 AT BOTH THE FREDERICKSBURG AND BOULDER SITES. A SMALL, ALTHOUGH DISTINCT, SC WAS REPORTED BY TUCSON AND FREDERICKSBURG-ONE EVIDENT PRIMARILY ON THE D TRACE ABOUT 04/1646Z. CURRENT ATS-1 PROTON FLUXES ARE THE FOLLOWING-ABOUT 70 PART/CM<sup>2</sup>/SEC AT 5-21 MEV AND ROUGHLY 10 WITHIN THE 21-70 MEV WINDOW. THE FOUR-DAY OLD PCA EVENT IS NO LONGER DETECTABLE ON THE GROUND.

B. FLARE FREQUENCY AND INTENSITY ARE NOT EXPECTED TO CHANGE MARKEDLY DURING THE NEXT THREE DAYS. PARTICLE FLUXES AT SATELLITE ALTITUDES SHOULD REMAIN ENHANCED THROUGH 07 SEPT. GEOMAGNETICALLY THE MOST DISTURBED PORTION OF THE RECURRENT ACTIVITY HAS VERY LIKELY BEEN SAMPLED.

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 15/10/05

CLASS X 02/02/00

PROTON EVENTS 02/02/00

D. OTTAWA 10.7 CM FLUXES FOR 05/1400Z, 05/1700Z AND 05/2000Z WERE 96, 94 AND 96 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 06-08 SEPT IS 93/91/89.

E. MAGNETIC A-FREDERICKSBURG FOR 04 SEPT WAS 09. FOR 05 SEPT ABOUT 16. PREDICTED AP FOR 06-08 SEPT, 12/09/08.

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