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HFUS BOU 080500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 281A ISSUED 0500Z 08 OCT 1971

ONLY A FEW NON-ENERGETIC SUBFLARES ARE EXPECTED.

A. SOLAR ACTIVITY HAS REMAINED AT A VERY LOW LEVEL DURING THE PAST SEVEN HOURS, AND NO FLARES HAVE BEEN REPORTED.

ARCH FILAMENTS AND AN ACTIVE FILAMENT ARE PRESENT IN THE CENTRAL PORTION OF THE COMPACT PLAGE IN REGION 288 (N20E08). AN ACTIVE FILAMENT ALSO IS PRESENT IN DECAYING REGION 280 (N11W49).

A YOUNG PLAGE CONTAINING ARCH-FILAMENTS IS VISIBLE AT N08E08. OTHER REGIONS ARE RELATIVELY UNIMPRESSIVE. THE GEOMAGNETIC DISTURBANCE THAT BEGAN GRADUALLY ABOUT 07/1900Z HAS INTENSIFIED DURING THE PAST SEVEN HOURS. THE STRONGEST FLUCTUATION OBSERVED SO FAR AT BOULDER CONSISTED OF A MAGNETIC BAY OF ABOUT 80 GAMMAS (K EQUALS 5) ON THE D-COMPONENT DURING THE INTERVAL 08/0235-0320Z. AT THE TIME OF THIS MESSAGE, ACTIVE CONDITIONS ARE BEING OBSERVED.

B. SOLAR ACTIVITY PROBABLY WILL CONTINUE AT A VERY LOW LEVEL DURING THE NEXT THREE DAYS. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN ACTIVE DURING THE NEXT 12 HOURS, AFTER WHICH UNSETLED TO ACTIVE CONDITIONS WILL CONTINUE FOR AN ADDITIONAL 36 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 08 OCT/0000Z ENDING 10 OCT/2400Z.

CLASS M OR GREATER 20/20/20

CLASS X 01/01/01

PROTON EVENTS 01/01/01

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HFUS BOU 082200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 281B ISSUED 2200Z 08 OCT 1971

CLASS C FLARES ARE EXPECTED

A. SOLAR ACTIVITY HAS BEEN GENERALLY LOW. CLASS C FLARES HAVE BEEN FREQUENT IN REGION 296 /N09W04/. THE FLARES HAVE BEEN THE TYPE TYPICALLY ASSOCIATED WITH AN ARCH FILAMENT SYSTEM IN AN EMERGING NEW REGION. REGION 280 /N11W62/ HAS BEEN INACTIVE AND ITS STRUCTURE SHOWS NO LARGE CHANGE. A PROMINENCE NEAR S20-S30 E30 HAS BEEN ACTIVE THE PAST 24 HOURS. THE GEOMAGNETIC FIELD HAS REMAINED ACTIVE TODAY.

B. REGION 280 APPEARS CAPABLE OF PRODUCING SPORADIC FLARES UP TO CLASS M INTENSITY. SUCH FLARES WOULD BE PRECEDED BY ACTIVITY IN THE FILAMENT BISECTING THE REGION. IN REGION 296, TERMINATION OF GROWTH MARKED BY THE DISAPPEARANCE OF THE ARCH FILAMENT SYSTEM IS EXPECTED IN THE NEXT 12-24 HOURS. NO CLASS M OR GREATER FLARES ARE EXPECTED FROM THE REGION. SMALL FLARES ASSOCIATED WITH FILAMENT ACTIVITY ARE PROBABLE AT S10E29 AND S17E27. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED TO ACTIVE DURING LOCAL NIGHT TIME PERIODS THE NEXT THREE DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 09/0000Z ENDING 11/2400Z.

CLASS M OR GREATER 20/20/30

CLASS X 01/01/02

PROTON EVENTS 02/04/05

D. OTTAWA 10.7CM FLUXES FOR 08/1400Z, 08/1700Z AND 08/2000Z WERE 100, 98 AND 99 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 09-11 OCT IS 100/100/100.

E. MAGNETIC A-FREDERICKSBURG FOR 07 OCT WAS 10. FOR 08 OCT ABOUT 16. PREDICTED AP FOR 09-11 OCT IS 15/12/10.

NOTE-EFFECTIVE 10 OCTOBER 1971 THE SPACE ENVIRONMENT FORECAST CENTER WILL ISSUE ONLY ONE REGULAR SUMMARY AND FORECAST MESSAGE PER DAY AT 2200 UT. A SUPPLEMENTARY MESSAGE WILL BE ISSUED AT 1400-1500 UT WHEN SIGNIFICANT ACTIVITY HAS OCCURRED BETWEEN 2200 AND 1500 UT. PLEASE ADVISE US IF THIS CHANGE ADVERSELY AFFECTS YOUR USE OF OUR MESSAGES.

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