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HFUS BOU 190500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 262A ISSUED 0500Z 19 SEPT 1971

A CLASS M FLARE IS ANTICIPATED DURING THE NEXT 24 HOURS.

A. NO ENERGETIC SOLAR ACTIVITY HAS BEEN REPORTED DURING THE PAST SEVEN HOURS. REGION 263 /S11W02/ RETAINS ITS DYNAMIC CHARACTERISTICS, INCLUDING POSSIBLE ROTATION OF THE LEADING SPOT, AN ABNORMAL REVERSED-POLARITY GAMMA-TYPE SPOT GROUP, AND FLUCTUATING PLAGE. REGION 261 /S15W83/ CONTAINS FLARE-BRIGHT PLAGE AND SEEMS TO BE DEVELOPING AS IT APPROACHES THE WEST LIMB. REGION 265 /N05W01/ ALSO CONTAINS SOME RELATIVELY BRIGHT, COMPACT PLAGE. OTHER CENTERS ARE UNIMPRESSIVE. THE GEOMAGNETIC FIELD REMAINED QUIET FROM 18/2200Z UNTIL ABOUT 19/0355Z, WHEN UNSETTLED CONDITIONS DEVELOPED.

B. DURING THE NEXT 72 HOURS, SOLAR ACTIVITY PROBABLY WILL CONSIST OF OCCASIONAL CLASS C EVENTS AND SEVERAL SMALL CLASS M FLARES FROM REGION 263. IN ADDITION, REGION 263 MAY PRODUCE A LARGE CLASS M OR CLASS X FLARE DURING THE NEXT FIVE DAYS, PERHAPS ACCOMPANIED BY A PROTON EVENT. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN IN AN UNSETTLED TO ACTIVE CONDITION DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 SEP/0000Z ENDING 21 SEP/2400Z.

CLASS M OR GREATER 75/75/75

CLASS X 10/10/10

PROTON EVENTS 10/15/20

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KBOU HFUS BOU 192200Z

SDF NUMBER 262B ISSUED 2200Z 19 SEPT 1971

NO MORE THAN TWO SMALL CLASS M FLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. INTERMS OF ACTIVITY THE MOST ENERGETIC FLARE REPORTED TODAY HAS BEEN AN M2(OPTICALLY A SB FLARE) EVENT. THIS SMALL, PARALLEL RIBBON FLARE BEGAN ABOUT 19/1122Z FROM A S10W02 POSITION WITHIN REGION 263 (S11W13). THE MAJORITY OF SUBFLARE ACTIVITY ACROSS THE DISK HAS OCCURRED IN THE NW PORTIONS OF THIS MAGNETICALLY GAMMA TYPE REGIONS. ONLY ONE NEW REGION HAS APPEARED SINCE YESTERDAY - A PORE - LIKE STRUCTURE NEAR N04E60(#269). MOREOVER, THE SIX DISK REATURES IN ADDITION TO #269 HAVE ALL DISPLAYED DECAYING AND SUBDUED PLAGES. SINCE ABOUT MIDDAY THE GEOMAGNETIC FIELD HAS BEEN QUIET, I.E. NO LOCAL 3-HOUR RANGE INDEX HAS EXCEEDED K EQUAL 3.

B. ENERGETIC FLARES BETWEEN M1 AND M4 IN INTENSITY ARE EXPECTED AT A RATE OF ABOUT ONE PER DAY DURING THE FORECAST PERIOD. A RECURRENT MAGNETIC DISTURBANCE IRZSRPECTED TO BEGIN IN THE 22ND. THE FTLLLOWING DAY SHOULD BE MORE DISTURBED, HOWEVER, WITH AN A-INDEX IN THIS NEIGHBORHOOD OF 40 TO 50 FOR BOULDER/FREDERICKSBURG MAGNETIC LATITUDES.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 SEPT/0000Z ENDING 22 SEPT/2400Z.

CLASS M OR GREATER 75/75/75

CLASS X 10/10/10

PROTON EVENTS 10/15/20

D. OTTAWA 10.7 CM FLUXES FOR 19/1400Z, 19/1700Z AND 19/2000Z WERE 112, 112 AND 109 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 20-22 SEPT IS 110/106/103.

E. MAGNETIC A-FREDERICKSBURG FOR 18 SEPT WAS 31. FOR 19 SEPT ABOUT 7 PREDICTED AP FOR 20-22 SEPT, 15/12/20.

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