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HFUS BOU 280500M

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 209A ISSUED 0500Z 28 JULY 1971

CLASS C FLARES EXPECTED DURING THE NEXT 24 HOUR PERIOD.

A. SOLAR ACTIVITY THE PAST 7 HOURS HAS BEEN LOW WITH A FEW SUBNORMAL FLARES PRODUCED BY REGION 197 (S15E30). A SMALL BIPOLAR IS EMERGING NEAR THE LARGE SPOT OF 197 AND THIS IS THE SOURCE OF MANY POINT BRIGHTENINGS AND SMALL FLARES. REGION 199 (N07E75) HAS BRIGHT PLAGE AND APPEARS SLIGHTLY UNSTABLE. THE REST OF THE DISK REGIONS HAVE BEEN INACTIVE. THE GEOMAGNETIC FIELD HAS BEEN QUIET THE PAST 6 HOURS.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 28 JULY/0000Z ENDING 30 JULY/2400Z

CLASS M OR GREATER 45/40/40

CLASS X 02/01/01

PROTON EVENTS 02/01/01

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HFUS BOU 282200

FROM SPACE ENVIRONMENT FORECAST CENTER BOULDER COLO

SDF NUMBER 209B ISSUED 2200Z 28 JULY 1971

M FLARE PROBABLE WITHIN 24 HOURS.

A. MANY SUBFLARES HAVE OCCURRED IN THE SE QUADRANT-REGION 197 /S15E23/ SINCE 0500Z. MINOR FLARES ARE ALSO OCCURRING IN REGION 199 /N07E68/ AND IN REGION 194 /N11W50/. THE SE REGION HAS GROWN IN ITS NORTHERN SECTORS, AND IT HAS BECOME SLIGHTLY MORE COMPLEX MAGNETICALLY. IT IS NOT YET A DELTA CONFIGURATION. A SUBBRIGHT FLARE WITH A SMALL RADIO BURST /64 FLUX UNITS ABOVE BACKGROUND/ OCCURRED AT 2112Z IN THE NORTHERN PART OF REGION 197. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. THE SE REGION AND THE NE REGION ARE EXPECTED TO DEVELOP FURTHER AND TO PRODUCE SEVERAL M TYPE FLARES IN THE NEXT 72 HOURS. DEVELOPMENT AND LARGER FLARES SHOULD START IN THE SE REGION WITHIN 24 HOURS AND IN THE NE REGION WITHIN 48 HOURS. NO SIGNIFICANT GEOMAGNETIC ACTIVITY IS EXPECTED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 29 JULY/2400Z ENDING 31 JULY/2400Z.

CLASS M OR GREATER 55/65/75

CLASS X 05/05/08

PROTON EVENTS 02/03/03

D. OTTAWA 10.7CM FLUXES FOR 28/1400Z, 28/1700Z AND 28/2000Z WERE 113, 113 AND 112 RESPECTIVELY. PREDICTED 10.7CM FLUXES FOR 29-31 JULY ARE 115/117/118.

E. MAGNETIC A-FREDERICKSBURG FOR 27 JULY WAS 07. FOR 28 JULY ABOUT 12. PREDICTED AP FOR 29-31 JULY IS 16/12/08.

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