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HFUS BOU 170500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 198A ISSUED 0500Z 17 JULY 1971

OCCASIONAL CLASS C FLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS CONTINUED AT A RELATIVELY LOW LEVEL DURING THE PAST 7 HOURS. THE REGION 164 (N06E19) IS THE MOST INTERESTING DISK FEATURE. THE NON-ENERGETIC FLARE ACTIVITY OF THE PAST 24 HOURS WAS SCATTERED OVER MOST OF THE DISK REGIONS. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL. THE GEOMAGNETIC FIELD WILL REMAIN SLIGHTLY DISTURBED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 JULY/0000Z ENDING 19 JULY/2400Z.

CLASS M OR GREATER 40/40/40

CLASS X 02/02/02

PROTON EVENTS 01/01/01

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HXUS BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 198B ISSUED 2200Z 17 JULY 1971

OCCASIONAL CLASS C FLARES ARE ANTICIPATED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL DURING THE PAST 17 HOURS. THE ONLY ENERGETIC EVENT REPORTED CONSISTED OF A CLASS M2 ONE-BRILLIANT FLARE AT 17/0907Z IN REGION 164 (N07E09). SLIGHT IONOSPHERIC EFFECTS AND MINOR RADIO BURSTS ACCOMPANIED THE 17/0907Z FLARE. CLASS C SUBFLARES, MOST OF THEM FROM REGION 164, HAVE OCCURRED AT THE APPROXIMATE RATE OF ONE PER HOUR. A FEW SMALL SPOTS HAVE APPEARED NORTHWEST OF THE LARGE LEADER IN REGION 164, BUT OTHERWISE THIS ACTIVE CENTER HAS NOT CHANGED SIGNIFICANTLY. SLOW DEVELOPMENT IS OCCURRING IN REGION 165 (N10E25), AND AN ACTIVE FILAMENT IS PRESENT WEST OF THE SMALL H-TYPE SPOT. RECENT SUBFLARES NEAR REGION 165 HAVE INDICATED THAT REGION 165 AND REGION 172 (N10E29) ARE INTERACTING. AN UNIMPRESSIVE NEW BIPOLAR STRUCTURE, DESIGNATED REGION 175, HAS APPEARED AT S07W61. OTHER REGIONS AND BOTH LIMBS ARE UNIMPRESSIVE QUIET GEOMAGNETIC CONDITIONS HAVE BEEN OBSERVED DURING THE PAST 24 HOURS.

B. A MODERATE LEVEL OF SOLAR ACTIVITY IS EXPECTED DURING THE NEXT THREE DAYS. REGIONS 164 AND 165 PROBABLY WILL PRODUCE OCCASIONAL NON-ENERGETIC SUBFLARES AND PERHAPS ONE OR TWO SMALL CLASS M EVENTS, WHILE OTHER REGIONS WILL REMAIN RELATIVELY INACTIVE. QUIET GEOMAGNETIC CONDITIONS ARE ANTICIPATED DURING THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 JULY/0000Z ENDING 20 JULY/2400Z.

CLASS M OR GREATER 40/40/40

CLASS X 02/02/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 17/1400Z, 17/1700Z AND 17/2000Z WERE 119, 118 AND 115 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 18-20 JULY IS 120/119/117.

E. MAGNETIC A-FREDERICKSBURG FOR 16 JULY WAS 07. FOR 17 JULY ABOUT 02 PREDICTED AP FOR 18-20 JULY, 06/06/06.

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