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HFUS BOU 230500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO  
SDF NUMBER 204A ISSUED 0500Z 23 JULY 1971

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

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST SEVEN HOURS, AND ONLY A FEW NONENERGETIC SUBFLARES HAVE BEEN REPORTED. SLIGHT PENUMBRAL GROWTH HAS OCCURRED AROUND THE LEADER AND IN THE WESTERN PART OF THE TRAILER OF REGION 176 /N14W23/, AND ADDITIONAL ARCH-FILAMENTS HAVE DEVELOPED. ARCH FILAMENTS ALSO ARE VISIBLE IN REGION 187 /S13W10/, BUT GROWTH HAS SLOWED AT THAT SITE. A SMALL NEW BIPOLAR REGION HAS APPEARED AT S17W26. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST SEVEN HOURS.

B. SOLAR ACTIVITY PROBABLY WILL REMAIN AT A LOW LEVEL DURING THE NEXT THREE DAYS. CLASS C ACTIVITY IS EXPECTED IN THE WESTERN PART OF REGION 177 /N08W52/, IN REGION 176, AND IN REGION 187. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN GENERALLY QUIET WITH OCCASIONAL UNSETTLED PERIODS THROUGH JULY 24. A PERIOD OF MINOR GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN JULY 25 AND TO CONTINUE WITH UNSETTLED CONDITIONS THROUGH JULY 29.

C. FLARE AND PROTON EVNET PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 JULY/0000Z ENDING 25 JULY/2400Z.

CLASS M OR GREATER 30/30/30

CLASS X 01/01/01

PROTON EVENTS 01/01/01

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HXUS BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 204B ISSUED 2200Z 23 JULY 1971

MINOR FLARES EXPECTED NEXT 24 HOURS.

A. MINOR FLARE ACTIVITY HAS BEEN SEEN IN SEVERAL LOCATIONS BUT PRIMARILY IN REGION 176 (N13W35). THE EMERGENCE OF INTERMEDIATE SPOTS HAS INCREASED THE COMPLEXITY OF THE MAGNETIC CONFIGURATION IN THE CENTRAL PART OF THE REGION. MAGNETOGRAPHIC REPORTS SHOW A SMALL WEAK DELTA IN THE MIDDLE OF THE SPOT STRUCTURE. A REGION IS RETURNING AT SE07 (DESIGNATED NR 193) AT PREVIOUSLY ACTIVE LONGITUDES BUT INITIAL INDICATIONS ARE THE REGION IS NOT COMPLEX. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. A SLIGHT INCREASE IN ENERGY OF THE FLARES IN REGION 176 IS PROBABLE RANGING TO POSSIBLE CLASS M IMPORTANCE. MINOR FLARES ARE EXPECTED FROM OTHER REGIONS. A MAGNETIC DISTURBANCE IS EXPECTED TO START ABOUT 25 JULY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 24/0000Z ENDING 26/2400Z.

CLASS M OR GREATER 40/30/30

CLASS X 01/02/05

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUXES FOR 23/1400Z, 23/1700Z AND 23/2000Z WERE 115, 118 AND 117 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 24-26 JULY IS 120/118/120.

E. MAGNETIC A-FREDERICKSBURG FOR 22 WAS 08. FOR 23 ABOUT 08 PREDICTED AP FOR 24-26, 08/12/18.

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