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HFUS BOU 250500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 206A ISSUED 0500Z 25 JULY 1971

CLASS C AND POSSIBLE CLASS M FLARES EXPECTED NEXT 24 HOURS.

A. IN REGION 176 (N13W51) CHROMOSPHERIC ACTIVITY HAS CONTINUED IN A SMALL AREA OF PROBABLE MAGNETIC COMPLEXITY NEAR THE LARGE LEADER SPOT. DEKAMETRIC FREQUENCY RADIO NOISE EMISSION IS CONTINUING. NEW GROWTH IN THE GROUP OF REGIONS AROUND N16W00 IS IN AN AREA WHERE IMPRESSIVE REGIONS HAVE GROWN DURING PREVIOUS ROTATIONS BUT WHERE NO ENERGETIC FLARE ACTIVITY HAS BEEN OBSERVED IN THE PAST 6 MONTHS.

B. SMALL FLARES RANGING TO POSSIBLE CLASS M ARE EXPECTED FROM REGION 176. UNSETLED GEOMAGNETIC CONDITIONS ARE EXPECTED BEGINNING LATER TODAY.

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

CLASS M OR GREATER 75/70/70

CLASS X 10/10/10

PROTON EVENTS 10/10/10

CORRECTION TO SDF 205B - THE FLARE AT 24/1753Z WAS IN REGION 176.

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HFUS BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 206B ISSUED 2200Z 25 JULY 1971

ONLY CLASS C ACTIVITY IS EXPECTED DURING THE NEXT 24 HOURS.

A. FOURTEEN CLASS C SUBFLARES HAVE BEEN OBSERVED DURING THE PAST 24 HOURS. REGION 197 /S15E61/ HAS BEEN THE MOST ACTIVE REGION. THIS REGION IS THE RETURN OF A PREVIOUSLY ACTIVE REGION. IT IS CURRENTLY A MAGNETICALLY SIMPLE STRUCTURE CONSISTING OF AN H-TYPE SPOT AND SCATTERED PLAGE. REGION 176 /N15W62/ IS DECAYING SLOWLY IN SPOT AND PLAGE STRUCTURE. THE RECENTLY EMERGED COMPLEX CONSISTING OF REGIONS 194 /N11W13/, 195 /N16W11/, 196 /N20W08/ IS NOW DEVELOPING SLOWLY. TWO SECTIONS OF THE COMPLEX BEAR WATCHING. REGION 194 CONTAINS A D/140 MILLIONTHS SPOT GROUP WITH RELATIVELY STRONG FIELD GRADIENTS IN ITS CENTRAL PORTION. THIS AREA PRODUCED A BORDERLINE CLASS M1 EVENT AT 25/0104Z. REGION 196 CONTAINS A D/30 MILLIONTHS SPOT GROUP WITH ABNORMAL ORIENTATION. ITS LEADING POLARITY SPOTS ARE NORTH AND SLIGHTLY EAST OF THE FOLLOWING POLARITY SPOTS. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. ISOLATED CLASS M EVENTS ARE EXPECTED DURING THE NEXT 72 HOURS AS REGION 176 CONTINUES TO DECAY, REGION 194 DEVELOPS SLOWLY, AND REGION 196 DEVELOPS AND POSSIBLY ASSUMES A MORE NEARLY NORMAL ORIENTATION. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETLED 26-28 JULY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 26 JULY/0000Z ENDING 28 JULY/2400Z.

CLASS M OR GREATER 65/70/70

CLASS X 05/05/05

PROTON EVENTS 05/07/07

D. OTTAWA 10.7 CM FLUXES FOR 25/1400Z AND 25/1700Z WERE 124 AND 122 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 26-28 JULY IS 120/126/130.

E. MAGNETIC A-FREDERICKSBURG FOR 24 JULY WAS 07. FOR 25 JULY ABOUT 04. PREDICTED AP FOR 26-28 JULY, 17/12/10.

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