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HFUS BOU 020500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 183A ISSUED 0500Z 02 JULY 1971

ENERGETIC FLARE ACTIVITY IS ANTICIPATED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS DROPPED TO A LOW LEVEL DURING THE PAST SEVEN HOURS, BUT THE APPARENT FLARE-POTENTIAL OF THE COMPLEX OF REGIONS IN THE SOUTHEAST REMAINS HIGH. THIS COMPLEX, CONSISTING OF REGIONS 145 /S07E05/, 148 /S13E16/, AND 150 /S10E18/, IS DEVELOPING INCREASED GRADIENTS IN THE CONTORTED MAGNETIC FIELDS BETWEEN REGION 150 AND THE ROTATING MAIN LEADER SPOT OF REGION 148. PLAGE AND SPOT GROWTH HAVE BEEN OBSERVED RECENTLY IN THE NEW BIPOLAR REGION 154 /S07E38/. IMPULSIVE EMISSIONS AT 184 MHZ WERE RECORDED DURING THE INTERVAL 01/2130Z-02/0200Z /LOCAL SUNSET/, PERHAPS DUE TO CORONAL EXCITATION PRODUCED BY THE SE COMPLEX. OTHER DISK REGIONS ARE RELATIVELY UNIMPRESSIVE, AND NO LIMB-ACTIVITY HAS BEEN REPORTED RECENTLY. THE GEOMAGNETIC FIELD REMAINS UNSETTLED.

B. DURING THE NEXT 24-48 HOURS, THE PRESENT TEMPORARY DECLINE IN FLARE ACTIVITY PROBABLY WILL END, AND THE SOUTHERN COMPLEX OF REGIONS WILL PRODUCE ONE OR TWO LARGE CLASS M OR CLASS X FLARES. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNSETTLED DURING THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 02 JULY/0000Z ENDING 04 JULY/2400Z.

CLASS M OR GREATER 95/95/95

CLASS X 40/45/40

PROTON EVENTS 20/25/25

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HFUS BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 1836 ISSUED 2200Z 02 JULY 1971

ENERGETIC FLARES ARE LIKELY DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A MODERATE LEVEL DURING THE PAST 17 HOURS. THE ONLY SIGNIFICANT ENERGETIC EVENT REPORTED CONSISTED OF A CLASS M2 ONE-BRILLIANT FLARE IN REGION 148 (S12E08) AT 02/1840Z. THIS ONE-BRILLIANT FLARE OCCURRED ALONG A KINKED NEUTRAL LINE IN THE TRAILING PLAGE OF REGION 148. REGIONS 148 AND 150 HAVE MERGED TO FORM A GROUP THAT IS ESSENTIALLY BIPOLAR WITH A WEAK DELTA CONFIGURATION IN THE MID-SECTION. SMALL SPOTS OF TRAILER POLARITY ARE PRESENT NORTH AND SOUTHWEST OF THE MAIN LEADER IN REGION 148. THE PLAGE IN REGION 148 APPEARS DYNAMIC, AND ACTIVE FILAMENTS HAVE BEEN OBSERVED THERE RECENTLY. OTHER REGIONS ARE RELATIVELY STABLE AND UNIMPRESSIVE. THE GEOMAGNETIC FIELD HAS REMAINED IN AN UNSETTLED CONDITION DURING THE PAST 17 HOURS.

B. DURING THE NEXT 24-48 HOURS, REGION 148 IS EXPECTED TO PRODUCE AT LEAST ONE OR TWO LARGE CLASS M FLARES. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN IN AN UNSETTLED CONDITION FOR THE NEXT 24-48 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 03 JULY/0000Z ENDING 05 JULY/2400Z.

CLASS M OR GREATER 95/95/95

CLASS X 35/35/30

PROTON EVENTS 20/25/25

D. OTTAWA 10.7 CM FLUXES FOR 02/1400Z, 02/1700Z AND 02/2000Z WERE 136, 135 AND 130 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 03-05 JULY IS 135/135/135.

E. MAGNETIC A-FREDERICKSBURG FOR 01 JULY WAS 12. FOR 02 JULY ABOUT 15. PREDICTED AP FOR 03-05 JULY, 13/10/10.

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