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HFUS BOU 030500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 184A ISSUED 0500Z 03 JULY 1971

ENERGETIC FLARES ARE PROBABLE DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS CONSISTED OF ONLY A FEW NON-ENERGETIC SUBFLARES DURING THE PAST 7 HOURS. THE REGION 148 (S12E07) CONTINUES TO BE THE MOST ACTIVE AND INTERESTING DISK FEATURE. THE OTHER REGIONS APPEAR STABLE AND QUIET. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. CLASS C FLARES ARE EXPECTED AND CLASS M FLARES ARE PROBABLE FROM REGION 148. THE GEOMAGNETIC FIELD WILL CONTINUE TO HAVE PERIODS OF MINOR DISTURBANCE.

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

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 184B ISSUED 2200Z 03 JULY 1971

ONE OR TWO CLASS M FLARES ARE ANTICIPATED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS DROPPED TO A LOW LEVEL DURING THE PAST 17 HOURS, AND CLASS C SUBFLARES HAVE BEEN OBSERVED AT AN APPROXIMATE RATE OF ONE EVERY TWO HOURS. OVERALL SIMPLIFICATION HAS OCCURRED IN REGION 148 (S12W04), WHERE REORGANIZATION OF THE SPOTS HAS PRODUCED A RELATIVELY SIMPLE BIPOLAR MAGNETIC CONFIGURATION. ARCH FILAMENTS ARE VISIBLE ALONG THE MID-SECTION OF REGION 148, BUT GENERALLY THE PLAGE HAS DECREASED IN BOTH INTENSITY AND COMPLEXITY. SMALL NEW REGIONS HAVE APPEARED AT N10E19 AND N16W54. OTHER REGIONS ARE STABLE OR DECLINING. THE GEOMAGNETIC FIELD HAS BECOME RELATIVELY QUIET DURING THE PAST 17 HOURS.

B. PRESENT DATA SUGGEST THAT REGION 148 STILL IS SUFFICIENTLY DYNAMIC TO PRODUCE A LARGE CLASS M FLARE DURING ITS DECLINING PHASE, BUT PRESENT TRENDS INDICATE THAT THE PROBABILITY OF SIGNIFICANT ENERGETIC ACTIVITY IS DECLINING STEADILY. ONLY CLASS C SUBFLARE ACTIVITY IS LIKELY IN THE OTHER SMALL REGIONS. THE GEOMAGNETIC FIELD IS EXPECTED TO EXHIBIT GENERALLY QUIET CONDITIONS WITH INTERMITTENT UNSETTLED INTERVALS DURING THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 04 JULY/0000Z ENDING 06 JULY/2400Z.

CLASS M OR GREATER 85/80/75

CLASS X 25/15/10

PROTON EVENTS 15/10/08

D. OTTAWA 10.7 CM FLUXES FOR 14/1400Z, 14/1700Z AND 14/2000Z WERE 127, 126 AND 126 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 04-06 JULY IS 125/123/123.

E. MAGNETIC A-FREDERICKSBURG FOR 02 JULY WAS 18. FOR 03 JULY ABOUT 06 PREDICTED AP FOR 04-06 JULY, 10/10/10.

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