

BOULDER FORECAST

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 173 ISSUED 2200Z 21 JUNE 1972

A. WHILE THE SUN HAS BEEN RELATIVELY QUIET FOR THE PAST 24 HOURS, ACTIVE AREAS NEAR THE EAST LIMB, THE WEST LIMB AND CENTRAL MERIDIAN EACH MAINTAIN ENERGETIC FLARE POTENTIAL. REGION 237 (S11W74) HAS PRODUCED 4 C-CLASS SUBFLARES AND STILL APPEARS MAGNETICALLY COMPLEX AS IT APPROACHES THE WEST LIMB. REGIONS 256 (N09E60) AND 257 (N06E68) WERE BOTH ACTIVE DURING LIMB PASSAGE BUT HAVE ONLY PRODUCED 6 C-CLASS SUBFLARES DURING THE PAST 24 HOURS. REGION 248 (S08W01) REMAINS THE MOST INTERESTING FEATURE ON THE DISK. IN WHITE LIGHT THE GROUP OF TRAILER SPOTS SEEMS TO BE DECLINING, THOUGH THE LARGE UMBRAL SPECKS IN THE LEADER APPEAR TO BE ROTATING. A PORTION OF THE TRAILER PLAGE APPEARS TO BE ENHANCED, AS THOUGH DUE TO COMPRESSION BY REGION 255 (S11E16, WHICH IS FOLLOWING CLOSE ON THE HEELS OF REGION 248. REGION 255 HAS SHOWN SUBSTANTIAL GROWTH IN WHITE LIGHT DURING THE PAST 24 HOURS. THE REGION APPEARS TO BE A SIMPLE BIPOLAR REGION, BUT IT IS PRESSING REGION 248 FROM BEHIND. REGIONS 248/255 HAVE PRODUCED ONLY 2 C-CLASS SUBFLARES DURING THE PAST 24 HOURS. THE GEOMAGNETIC FIELD BECAME QUIET ABOUT 0900Z ON 20 JUNE AND REMAINS QUIET.

B. WHILE REGIONS WITH ENERGETIC POTENTIAL RESIDE AT BOTH LIMBS AND THE CENTER OF THE SUN, ENERGETIC FLARES ARE NOT THOUGHT TO BE IMMINENT. REGION 237 WILL RETAIN ITS POTENTIAL TO AFFECT EARTH FOR SEVERAL MORE DAYS. THE NEUTRAL LINE IN THE REGION 248/255 COMPLEX IS NOT BADLY TWISTED. MORE COMPRESSION DUE TO THE PROXIMITY OF REGION 255 MAY BE NECESSARY BEFORE ENERGETIC FLARES ARE PRODUCED IN THIS COMPLEX. REGIONS 256/257, THOUGH ACTIVE AS THEY CAME OVER THE LIMB, ARE PRESENTLY QUIET. THESE REGIONS MUST STILL BE VIEWED WITH CAUTION UNTIL THEY ROTATE MORE FULLY INTO VIEW AND CAN BE ANALYZED. SMALL M-CLASS FLARES MAY BE PRODUCED IN ANY OF THESE 3 ACTIVITY CENTERS. THE LIKELIHOOD OF MODERATE M-CLASS FLARES SHOULD INCREASE TOWARD THE END OF THE 72 HOUR FORECAST PERIOD.

C. EVENT PROBABILITIES FOR THE THREE 24 HOUR PERIODS BEGINNING 22 JUNE/0000Z AND ENDING 24 JUN/2400Z.

CLASS M OR GREATER 60/65/65

CLASS X 05/05/05

PROTON 05/05/05

D. OTTAWA 10.7 CM FLUX FOR 21 JUN/1700Z WAS 140. PREDICTED 10.7 CM FLUX FOR 22 JUN - 24 JUN IS 140/135/127.

E. FREDERICKSBURG A-INDEX FOR 20 JUN WAS 08. FOR 21 JUN ABOUT 05. PREDICTED A-FREDERICKSBURG FOR 22 JUN - 24 JUN IS 07/08/08.

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