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HFUS BOU 082200

# BOULDER FORECAST

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 160 ISSUED 2200Z 08 JUNE 1972

A. SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS AND CONFINED TO C-CLASS SUBFLARES FROM REGION 222 /S07W35/ AND REGION 217/231 /S15W46/. ALL OTHER REGIONS ARE DULL AND UNINTERESTING. THE EASTERN HALF OF THE DISK IS ESSENTIALLY CLEAR. THE LIMBS CONTINUE QUIET. REGION 217, WHILE RAPIDLY DECLINING IN WHITE LIGHT, CONTINUES TO SHOW COMPLEXITY IN H-ALPHA WHICH MAY SIGNAL THE EMERGENCE OF A NEW POLE. REGION 222, WHILE CONTAINING A DELTA CONFIGURATION IN THE CENTRAL PENUMBRAL PORTION, APPEARS TO HAVE SIMPLIFIED. THE CLEAR MAGNETIC VORTEX STRUCTURE APPARENT IN H-ALPHA YESTERDAY HAS COOLED SOMEWHAT AND BECOME DISORGANIZED. THE NEUTRAL LINE THROUGH THIS REGION IS LESS TWISTED NOW. THIS REGION SHOULD STILL BE VIEWED WITH CAUTION SINCE THE LEADER AND FOLLOWER SPOTS HAVE MOVED CLOSER TOGETHER, INDICATING A STEEPENING OF THE MAGNETIC GRADIENTS. A SMALL PROTON EVENT COMMENCED AT ABOUT 1530Z. THE ABSENCE OF DELAY BETWEEN THE ONSET OF THE HIGH AND THE LOW-ENERGY PROTONS AS WELL AS THE LACK OF SIGNIFICANT OPTICAL EVENTS INDICATES THAT THE PROTONS COME FROM SOME RECURRING INTERPLANETARY STRUCTURE. THIS STRUCTURE IS ASSOCIATED WITH A SECTOR BOUNDARY PASSAGE WHICH CAN BE ANTICIPATED LATE ON 10 JUNE. THE GEOMAGNETIC FIELD REMAINS QUIET.

B. BOTH REGION 222 AND REGION 217/231 SHOULD CONTINUE TO PRODUCE C-CLASS SUBFLARES DURING THE NEXT 24 HOURS. EITHER REGION APPEARS CAPABLE OF PRODUCING A MODERATE SIZE M-CLASS FLARE. THE GEOMAGNETIC FIELD SHOULD REMAIN QUIET FOR THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 09 JUN/0000Z ENDING 11 JUN/2400Z.

CLASS M OR GREATER 75/75/75

CLASS X 10/10/10

PROTON EVENTS 10/10/10

D. OTTAWA 10.7CM FLUXES FOR 08/1400Z, 08/1700Z AND 08/2000Z WERE 146, 147 AND 143 RESPECTIVELY.

PREDICTED 10.7CM FLUX FOR 09-11 JUNE IS 140/135/131.

E. MAGNETIC A-FREDERICKSBURG FOR 07 JUN WAS 07. FOR 08 JUN ABOUT 05. PREDICTED AP FOR 09-11 JUN, 07/12/22.

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