

*Boulder*

NNNN FORECAST

KBOU

HFUS BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 162 ISSUED 2200Z 10 JUN 1972

A. SOLAR ACTIVITY REMAINS AT A LOW LEVEL WITH ONLY A FEW CLASS C FLARES OBSERVED DURING THE PAST 24 HOURS. REGION 222 /S07W61/, ALTHOUGH MAGNETICALLY COMPLEX WITH STRONG FIELD GRADIENTS, HAS SHOWN ONLY MINOR STRUCTURAL VARIATIONS. A RETURNING TYPE D REGION /237/ HAS ROTATED ONTO THE DISK NEAR SOUTH 13. REGION 217 /S14W72/ APPEARS TO BE DECAYING AS IT APPROACHES THE WEST LIMB. OTHER REGIONS ARE SMALL AND UNINTERESTING. PROTON COUNTS IN THE 5-21 MEV RANGE ARE ENHANCED TO NEAR 6 PARTICLES CM-2 SEC-1, WHILE HIGHER ENERGY PARTICLES ARE NEAR BACKGROUND. THE GEOMAGNETIC FIELD IS QUIET.

B. REGION 222 APPEARS CAPABLE OF SUPPORTING CLASS M AND POSSIBLY CLASS X ACTIVITY AND RGN 237 IS EXPECTED TO PRODUCE A FEW SMALL FLARES. PROTON ENHANCEMENTS ARE LIKELY IF CLASS X ACTIVITY OCCURS IN RGN 222. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME UNSETTLED DURING THE NEXT 24 HOURS DUE TO THE PASSAGE OF A SECTOR BOUNDARY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 11 JUN/0000Z ENDING 13 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 10/1400Z, 10/1700Z AND 10/2000Z WERE 136, 135 AND 132 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 11-13 JUNE IS 131/128/130.

E. MAGNETIC A-FREDERICKSBURG FOR 9 JUN WAS 03. FOR 10 JUN ABOUT 04. PREDICTED AP FOR 11-13 JUN IS 15/18/12.

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