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**BOULDER
FORECAST**

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 161 ISSUED 2200Z 09 JUNE 1972

A. SOLAR ACTIVITY HAS CONSISTED OF CLASS C SUBFLARES, PRIMARILY FROM REGION 222 (S07W49). THE LEADING AND FOLLOWING PENUMBRA OF 222 HAVE ALMOST MERGED. A DELTA CONFIGURATION WITH STRONG FIELD GRADIENTS EXISTS IN THE TRAILING PORTION. REGION 219 (S07W56), WHICH WAS NOT OBSERVED YESTERDAY, HAS RE-EMERGED RENEWING THE POSSIBILITY OF INTERACTION BETWEEN 219 AND 222. SURGES AND FLARES ON THE EAST LIMB NEAR S15 AND N03 INDICATE THAT PREVIOUSLY ACTIVE REGIONS 195/197 AND 193 ARE PROBABLY RETURNING. THE SMALL PROTON ENHANCEMENT OF UNCERTAIN ORIGIN WHICH BEGAN AT 08/1530Z IS DECAYING SLOWLY. FLUXES AS OF 09/2100Z WERE 8 AT 5-21 MEV AND 3 PARTICLES CM-2 SEC-1 AT 21-70 MEV. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. REGION 222 HAS BEEN RELATIVELY QUIET, BUT ENERGETIC ACTIVITY IS POSSIBLE FROM THIS REGION AT ANY TIME. A PROTON ENHANCEMENT NEAR EARTH WILL LIKELY FOLLOW ANY LARGE CLASS M OR CLASS X EVENT FROM THIS REGION. ENERGETIC ACTIVITY IS ALSO POSSIBLE FROM THE EAST LIMB. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME UNSETLED FOLLOWING A SECTOR BOUNDARY PASSAGE SOMETIME ON 10-11 JUNE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 10 JUN/0000Z ENDING 12 JUN/2400Z.

CLASS M OR GREATER 75/75/75

CLASS X 10/10/10

PROTON EVENTS 15/15/10

D. OTTAWA 10.7 CM FLUX FOR 09/1700Z WAS 148.

PREDICTED 10.7CM FLUX FOR 10-12 JUN IS 144/141/138.

E. MAGNETIC A-FREDERICKSBURG FOR 08 JUN WAS 06. FOR 09 JUN ABOUT 04 PREDICTED AP FOR 10-12 JUN, 10/20/12.

SOLTERWARN

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