

# FORECAST

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FROM BOULDER

HFUS BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 171 ISSUED 2200Z 19 JUNE 1972.

A. SOLAR ACTIVITY HAS BEEN LOW. ONLY CLASS C SUBFLARES HAVE BEEN OBSERVED. REGION 237 /S11W45/ IS DECAYING IN SPOT STRUCTURE BUT THE PLAGE IS STABLE. REGION 247 /S03W10/ HAS RE-EMERGED AND IS GROWING SLOWLY BUT STEADILY. REGION 248 /S09E26/ IS THE LARGEST REGION ON THE DISK AND REMAINS MAGNETICALLY COMPLEX. ACTIVITY ON THE EAST LIMB NEAR N10 IS PROBABLY ASSOCIATED WITH OLD REGION 210 WHICH PRODUCED SEVERAL ENERGETIC EVENTS LAST ROTATION INCLUDING THE IMPORTANCE 2B CLASS X4 PROTON EVENT AT 1315Z ON 28 MAY. PROTON FLUXES NEAR EARTH ARE RAPIDLY APPROACHING BACKGROUND LEVELS. THE GEOMAGNETIC FIELD HAS RECOVERED FROM THE STORM OF 17-18 JUNE. THIS STORM WAS THE LARGEST GEOMAGNETIC STORM OBSERVED SINCE 7-8 MARCH 1970. BRILLIANT AURORA WERE OBSERVED IN MICHIGAN AND ONTARIO.

B. THE NUMBER OF SOLAR FLARES IS EXPECTED TO REMAIN RELATIVELY LOW FOR THE NEXT 72 HOURS. ENERGETIC EVENTS, UP TO IMPORTANCE 1B MEDIUM TO LARGE CLASS M, ARE POSSIBLE FROM REGIONS 237, 248 AND THE NE LIMB. THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED.

C. EVENT PROBABILITIES FOR THE THREE 24 HOUR PERIODS BEGINNING 20 JUNE/0000Z ENDING 22 JUNE/2400Z.

CLASS M OR GREATER 65/60/60

CLASS X 10/10/10

PROTON 10/10/10

D. OTTAWA 10.7CM FLUX FOR 19/1700Z WAS 141. PREDICTED 10.7CM FLUX FOR 20-22 JUNE IS 140/138/140.

E. FREDERICKSBURG A-INDEX FOR 18 JUNE WAS 74. FOR 19 JUNE ABOUT 16. PREDICTED A-FREDERICKSBURG FOR 20-22 JUNE IS 12/10/08.

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