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HAUS BOU 180400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 661A ISSUED 0400Z 18 JUNE 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. THE ENERGETIC SOLAR ACTIVITY OF THE PAST FEW DAYS HAS DECREASED TO ONLY ONE CLASS M EVENT DURING THE PAST 11 HOURS. NUMEROUS SUB-FLARES HAVE BEEN OBSERVED FROM THE REGIONS IN THE NORTHWEST. THE REGION N18W12 HAS PRODUCED THE MAJORITY OF ACTIVITY. THE LAST CLASS M EVENT OBSERVED WAS A SB AT 17/1858Z. THE GEOMAGNETIC FIELD CONTINUES TO SHOW PERIODS OF DISTURBANCE. THE PROTON COUNT ON ATS-1 IS ENHANCED SLIGHTLY OVER BACKGROUND LEVEL.

B. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT PRESENT LEVEL DURING THE NEXT 13 HOURS. THE GEOMAGNETIC FIELD WILL CONTINUE TO SHOW PERIODS OF DISTURBANCE. PROTON COUNTS ON ATS-1 WILL REMAIN AT PRESENT LEVEL.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 JUNE/0400Z ENDING 21 JUNE/0400Z

CLASS M OR GREATER 80/80/80

CLASS X 40/40/40

PROTON EVENTS 30/30/30

D. OTTAWA 10.7 CM FLUXES FOR 17/1700Z AND 17/2000Z WERE 185 AND 190 RESPECTIVELY.

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HAUS BOU 181700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 661B ISSUED 1700Z 18 JUNE 1970

CLASS-M FLARES ARE PROBABLE DURING THE NEXT 11 HOURS

A. SOLAR ACTIVITY HAS REMAINED AT A MODERATELY LOW LEVEL DURING THE PAST 13 HOURS. THE LST REPORTED CLASS-M EVENT WAS A ONE-NORMAL FLARE FROM THE REGION AT N18W20 AT 18/0141Z. THE REGIONS AT N20W10, N18W22, N16W39, N20W58, AND N16W65 ALL APPEAR TO BE SIMPLIFYING, THOUGH SOME DEVELOPMENT IS APPARENT BETWEEN THE LARGE LEADER AND FIRST INTERMEDIATE PENUMBRA OF THE REGION AT N18W22. ACCORDING TO THE MT. WILSON OBSERVATORY, A NEW SPOT OF RED POLARITY HAS APPEARED TO THE SOUTHWEST OF THE FIRST INTERMEDIATE PENUMBRA OF THAT REGION. OTHER REGIONS ON THE DISK APPEAR RELATIVELY UNINTERESTING. THE DEEP RIVER NEUTRON COUNTS PRESENTLY SHOW A 4 PERCENT DECREASE BELOW NORMAL; THE ATS-1 SATELLITE PROTON COUNTING RATES ARE ONLY SLIGHTLY ENHANCED AND DO NOT SEEM TO BE INCREASING. THE GEOMAGNETIC FIELD HAS BEEN DISTURBED DURING THE PAST 24 HOURS; MAGNETIC K-INDICES OF 4 WERE OBSERVED FOR 0900-1200Z AND 1200-1500Z HERE IN BOULDER.

B. OCCASIONAL ENERGETIC FLARES ARE EXPECTED DURING THE NEXT 11 HOURS, PRIMARILY FROM THE REGIONS AT N20W10, N18W22, AND N16W65; ONE OR TWO CLASS-M FLARES ARE PROBABLE. THE GEOMAGNETIC FIELD IS EXPECTED TO SHOW PERIODS OF DISTURBANCE. THERE IS A FAIR CHANCE OF A SIGNIFICANT PROTON EVENT DURING THE NEXT SEVERAL DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 JUNE/1700Z ENDING 21 JUNE/1700Z.

CLASS M OR GREATER 85/75/70

CLASS X 35/25/20

PROTON EVENTS 30/30/30

D. OTTAWA 10.7CM FLUX FOR 18/1400Z WAS 183. PREDICTED 10.7CM FLUX FOR 19-21 JUNE IS 176/168/160.

E. MAGNETIC A-FREDERICKSBURG FOR 17 JUNE WAS 12. FOR 18 JUNE ABOUT 17. PREDICTED AP FOR 19-21 JUNE IS 15/15/12.

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