

NNNN0356

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KMSC

HAUS BOU 060400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 649A ISSUED 0400Z 06 JUNE 1970

CLASS C FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. DURING THE PAST 4 HOURS SOLAR ACTIVITY HAS BEEN EXTREMELY LOW. MOST ACTIVITY HAS BEEN BSL ACTIVITY FROM NORTHEAST AND SOUTHWEST. NO SIGNIFICANT RETURNING REGIONS ARE EXPECTED FOR SEVERAL DAYS. A SMALL PLAGE AREA HAS BEEN OBSERVED AT NE15 BUT NO SPOTS ARE EVIDENT AT THIS TIME. DEEP RIVER NEUTRONS ARE ABOUT NORMAL AND THE GEOMAGNETIC FIELD IS QUIET.

B. SOLAR ACTIVITY IS EXPECTED TO REMAIN AT LOW LEVEL DURING THE NEXT 13 HOURS. THE GEOMAGNETIC FIELD WILL REMAIN QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 JUNE/0400Z ENDING 09 JUNE/0400Z

CLASS M OR GREATER 40/40/40

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 05/1700Z AND 05/2000Z WERE 130 AND 134 RESPECTIVELY.

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HAUS BOU 061700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 649B ISSUED 1700Z 06 JUNE 1970

CLASS-M FLARES FROM BEHIND THE EAST LIMB ARE PROBABLE DURING THE NEXT 11 HOURS.

A. SOLAR DISK ACTIVITY DURING THE PAST 13 HOURS HAS REMAINED AT A VERY LOW LEVEL. AN ENERGETIC EVENT, REPORTED BY THE SOLRAD SATELLITE, BEGAN AT 06/0900Z AND REACHED MAXIMUM AT 0950Z; THIS EVENT WAS NOT ACCCOMPANIED BY ANY OBSERVED FLARES OR SURGES, SO IT PROBABLY OCCURRED WELL BEHIND THE LIMB. A ONE-BRIGHT FLARE WAS OBSERVED AT 06/1525Z AT N19E90; THIS FLARE PRODUCED MODERATE IONOSPHERIC DISTURBANCES AND APPEARED TO ORIGINATE BEHIND THE LIMB. A STUDY OF RECENT SOLRAD X-RAY DATA REVEALS A TOTAL OF THREE EVENTS WITHOUT OPTICAL COUNTERPARTS DURING THE PREVIOUS TWO DAYS; ALL THREE OF THESE EVENTS EXHIBIT SLOW DECAY PATTERNS CHARACTERISTIC OF LARGE, ENERGETIC FLARES. ONE OF THESE EVENTS, OF CLASS-M INTENSITY, BEGAN AT ABOUT 05/1910Z, REACHED MAXIMUM AT 1940Z, AND HAD A DECAY LASTING ALMOST TWO HOURS. AN ACTIVE REGION PROBABLY EXISTS BEHIND ONE OF THE LIMBS; RECENT SURGE ACTIVITY AND THE FACT THAT NO REALLY ENERGETIC REGIONS RECENTLY HAVE DISAPPEARED OVER THE WEST LIMB IMPLY THAT THE HIDDEN ENERGETIC REGION PROBABLY LIES BEHIND THE EAST LIMB. MCMATH REGION 743, WHICH REACHED A SPOT AREA OF 1500 MILLIONTHS ON ITS PREVIOUS DISK TRANSIT, IS DUE TO REAPPEAR ON THE NORTHEAST LIMB WITHIN ONE OR TWO DAYS; RECENT EVENTS SUGGEST THAT THIS REGION IS STILL ACTIVE AND MAY BE THE CAUSE OF SOME OF THE PREVIOUSLY UNEXPLAINED X-RAY ENHANCEMENTS. THE VISIBLE DISK PRESENTLY IS RATHER UNINTERESTING, AND NONE OF THE ACTIVE REGIONS ARE BELIEVED CAPABLE OF ENERGETIC FLARE ACTIVITY IN THE NEAR FUTURE. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET.

B. SOLAR ACTIVITY FROM THE VISIBLE DISK IS EXPECTED TO REMAIN LOW DURING THE NEXT 11 HOURS, BUT ONE OR TWO CLASS-M EVENTS ORIGINATING IN FLARES BEHIND THE NORTHEAST LIMB ARE LIKELY. SOLAR ACTIVITY IS EXPECTED TO INCREASE AS MCMATH REGION 743 ROTATES ONTO THE DISK IN THE NORTHEAST. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 06 JUNE/1700Z ENDING 09 JUNE/1700Z.

CLASS M OR GREATER 65/80/85

CLASS X 05/08/10

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 06/1400Z WAS 126. PREDICTED 10.7 CM FLUX FOR 07-09 JUNE IS 131/133/135.

E. MAGNETIC A-FREDERICKSBURG FOR 05 JUNE WAS 07. FOR 06 JUNE ABOUT 07. PREDICTED AP FOR 07-09 JUNE IS 08/08/08.

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