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HAUS BOU 170400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 660A ISSUED 0400Z 17 JUNE 1970

CLASS M FLARES ARE EXPECTED AND CLASS X FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS SUBSIDED CONSIDERABLY SINCE THE LAST CLASS M FLARE OBSERVED AT 16/1353Z. ONLY A FEW SUBFLARES HAVE BEEN OBSERVED SINCE THAT TIME. THOUGH THE REGION N17W00 HAS NOT SHOWN MUCH ACTIVITY IT IS STILL A COMPLEX GROUP AND CAPABLE OF MAJOR FLARE PRODUCTION. AS MENTIONED IN SDF 659B THE REGIONS N16W40 AND N16W15 HAVE BOTH DECAYED AND ARE NOT AS LIKELY TO PRODUCE MAJOR FLARES. THE GEOMAGNETIC FIELD CONTINUES TO SHOW PERIODS OF DISTURBANCE.

B. MAJOR FLARES ARE EXPECTED FROM REGION N19W00. THE REGIONS N16W40 AND N16W15 ARE BOTH CAPABLE OF PRODUCING CLASS M FLARES. THE GEOMAGNETIC FIELD WILL CONTINUE TO SHOW PERIODS OF DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 JUNE/0400Z ENDING 20 JUNE/0400Z

CLASS M OR GREATER 99/99/99

CLASS X 55/50/50

PROTON EVENTS 35/35/35

D. OTTAWA 10.7 CM FLUXES FOR 16/1700Z AND 16/2000Z WERE BOTH 192.

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 660B ISSUED 1700Z 17 JUNE 1970

CLASS-M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS

A. SOLAR ACTIVITY HAS DECLINED SOMEWHAT DURING THE PAST 13 HOURS. ACCORDING TO SOLRAD X-RAY DATA, THREE CLASS-M FLARES, ALL FROM THE N18W07 REGION, HAVE OCCURRED THIS ZULU DAY. THE REGION AT N18W07 STILL RETAINS ITS COMPLEX STRUCTURE, THOUGH ITS ACTIVITY HAS DECLINED SOMEWHAT. THE REGION AT N17W51 IS SHOWING SYMPTOMS OF RENEWED ACTIVITY; ACTIVE FILAMENTS, BRIGHTENINGS, AND GROWTH OF SMALL SPOTS HAVE BEEN OBSERVED. A NEW BIPOLAR GROUP HAS APPEARED AT S11E30 JUST SOUTH OF THE LARGE SPOT AT S09E30. OTHER REGIONS ON THE DISK HAVE SHOWN LITTLE SIGNIFICANT CHANGE. ATS-1 DATA INDICATES A SLIGHT RISE IN COUNTING RATES FOR 5-20 MEV AND 20-70 MEV PROTONS DURING THE PAST 10 HOURS. A 184 MHZ SOLAR RADIO NOISE STORM HAS BEEN OBSERVED SINCE LOCAL SUNRISE AT APPROXIMATELY 1150Z. THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY DISTURBED.

B. ENERGETIC SOLAR ACTIVITY IS EXPECTED TO CONTINUE; CLASS-M EVENTS ARE EXPECTED, AND CLASS-X EVENTS ARE POSSIBLE. PROTON EVENT PROBABILITIES CONTINUE TO RISE. THE LARGE NORTH-CENTRAL COMPLEX RETAINS ITS POTENTIAL FOR PRODUCTION OF MAJOR FLARES. THE GEOMAGNETIC FIELD IS EXPECTED TO SHOW PERIODS OF DISTURBANCE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 JUNE/1700Z ENDING 20 JUNE/1700Z.

CLASS M OR GREATER 99/99/99

CLASS X 50/50/45

PROTON EVENTS 35/40/40

D. OTTAWA 10.7CM FLUX FOR 17/1400Z WAS 188. PREDICTED 10.7CM FLUX FOR 18-20 JUNE IS 182/177/172.

E. MAGNETIC A-FREDERICKSBURG FOR 16 JUNE WAS 10. FOR 17 JUNE ABOUT 12. PREDICTED AP FOR 18-20 JUNE IS 15/15/15.

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*anything is possible*