

HAUS BOU 260005Z

SDFR 990 26 AUG 70

HIGHLIGHTS FOR THE PERIOD 19-25 AUGUST 1970 CLN SOLAR ACTIVITY DURING THIS PERIOD STARTED WITH TWO QUITE ACTIVE DAYS. SIX CLASS M EVENTS AND ONE CLASS X EVENT WERE OBSERVED ON 19 AUGUST. FIVE OF THE CLASS M AND THE ONE CLASS X EVENT WERE APPARENTLY FROM MCMATH REGION 868 (N22 L-194) WHICH WAS MAKING ITS WEST LIMB PASSAGE. THE CLASS X EVENT WAS A SUB-BRIGHT FLARE AT 19/1110Z. THE OTHER CLASS M EVENT WAS OBSERVED IN MCMATH REGION 882 (N10 L-096). THREE MORE CLASS M EVENTS, APPARENTLY FROM THE WEST LIMB REGION, WERE OBSERVED DURING THE EARLY PART OF 20 AUGUST. THE REST OF THE PERIOD WAS MARKED BY A VERY LOW LEVEL OF ACTIVITY WITH ONLY A FEW RELATIVELY NON-ENERGETIC FLARES BEING OBSERVED. ONE SMALL CLASS M EVENT DID OCCUR AT 22/0242Z IN MCMATH REGION 887 (N19W23, L-041). ONLY THREE OF THESE ELEVEN X-RAY EVENTS WERE OBSERVED OPTICALLY, AND THEY WERE ALL SUBFLARES. GEOMAGNETIC ACTIVITY HAS BEEN DECLINING SINCE 19 AUGUST WHEN THE A-INDEX WAS 14; THE A-INDEX HAS BEEN LESS THAN 10 SINCE THAT DATE.

FORECAST FOR THE PERIOD 27 AUGUST - 02 SEPTEMBER 1970 CLN SOLAR ACTIVITY IS EXPECTED TO INCREASE AFTER 29 AUGUST WITH THE RETURN OF OLD MCMATH REGION 865 (N18 L-239). THIS REGION PRODUCED SEVERAL ENERGETIC FLARES ON ITS LAST DISK PASSAGE AND WAS VERY ACTIVE AS IT CROSSED THE WEST LIMB. THE GEOMAGNETIC FIELD WILL BE RELATIVELY QUIET.

28-DAY FORECAST FOR THE PERIOD 27 AUGUST - 24 SEPTEMBER 1970 CLN THE FIRST PART OF THIS PERIOD WILL SEE ENHANCED ACTIVITY WITH ONLY MODERATE ACTIVITY EXPECTED FOR THE REMAINDER OF THE PERIOD.

SOLTERWARN

SPAN

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HAUS BOU 260400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 730A ISSUED 0400Z 26 AUG 1970

CLASS C FLARES EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED LOW FOR THE PAST 11 HOURS -- INFREQUENT SUBFLARES. NO SIGNIFICANT CHANGES IN DISK REGIONS.

B. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW FOR ANOTHER THREE DAYS.

ON AUG 30-31 FORMER ACTIVE REGIONS DURING THEIR LAST ROTATION WILL RETURN TO OUR SIDE OF THE SUN AND WE SHOULD SEE A RISE IN SOLAR FLARE ACTIVITY. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET FOR 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 26 AUG/0400Z ENDING 29 AUG/0400Z.

CLASS M OR GREATER 25/25/30

CLASS X 01/01/05

PROTON EVENTS 01/01/02

D. OTTAWA 10.7 CM FLUXES FOR 25/1700Z AND 25/2000Z WERE 134 AND 135 RESPECTIVELY.

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HAUS BOU 261700Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 730B ISSUED 1700Z 26 AUG 1970

ONLY CLASS C ACTIVITY EXPECTED WITHIN THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS CONTINUED AT A VERY LOW LEVEL. ONLY FOUR CLASS C SUBFLARES HAVE BEEN OBSERVED SO FAR THIS UT DAY. MINOR SPOT GROWTH HAS OCCURRED IN REGIONS NEAR N19W31, N13E46, AND N13E57 BUT THE REGIONS REMAIN SIMPLE BIPOLAR. A NEW BIPOLAR GROUP IS EMERGING SW OF THE N12E15 H-TYPE SPOT AND A MAGNETICALLY COMPLEX AND POTENTIALLY ACTIVE STRUCTURE COULD DEVELOP IF GROWTH CONTINUES. SURGES AND A SPRAY HAVE BEEN REPORTED ON THE EAST LIMB NEAR N18. A PREVIOUSLY ACTIVE REGION WHICH IS DUE TO RETURN NEAR N18 ON 28-29 AUGUST IS STILL SOME 30 DEGREES BEHIND THE LIMB. A SUBSTORM LEVEL DISTURBANCE WAS OBSERVED ON THE D COMPONENT OF THE GEOMAGNETIC FIELD BETWEEN 26/0400Z AND 26/1400Z. THE MAGNETIC FIELD IS CURRENTLY QUIET.

B. ONLY MINOR ACTIVITY IS EXPECTED FROM THE DISK REGIONS DURING THE NEXT 72 HOURS. CAUTION FOR ENERGETIC EVENTS ON THE NE LIMB DURING THE LATTER PART OF THIS FORECAST PERIOD. RECURRENT MINOR GEOMAGNETIC DISTURBANCES ARE EXPECTED DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 26 AUG/1700Z ENDING 29 AUG/1700Z.

CLASS M OR GREATER 25/35/60

CLASS X 01/02/10

PROTON EVENTS 01/01/02

D. OTTAWA 10.7 CM FLUX FOR 26/1400Z WAS 134. PREDICTED 10.7 CM FLUX FOR 27-29 AUG IS 135/136/140.

E. MAGNETIC A-FREDERICKSBURG FOR 25 AUG WAS 08. FOR 26 AUG ABOUT 18. PREDICTED AP FOR 27-29 AUG, 15/10/10.

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