

KMSC

HAUS BOU 200400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 724A ISSUED 0400Z 20 AUGUST 1970

CLASS C FLARES ARE EXPECTED AND AN OCCASIONAL CLASS M EVENT IS PROBABLE DURING THE NEXT 13 HOURS.

A. DURING THE PAST 11 HOURS SOLAR ACTIVITY HAS BEEN QUITE LOW. ONLY A FEW NON ENERGETIC SUBFLARES HAVE BEEN OBSERVED. THE REGION N10E04 HAS PRODUCED MOST OF THE ACTIVITY. THE GEOMAGNETIC ACTIVITY HAS SUBSIDED AND THE FIELD IS QUIET.

B. THE REGION N10E04 IS EXPECTED TO PRODUCE SOME CLASS M EVENTS DURING THE NEXT 72 HOURS. REGION S16W51 MAY ALSO PRODUCE AN ENERGETIC FLARE BEFORE ITS WEST LIMB PASSAGE. THE GEOMAGNETIC FIELD WILL BECOME DISTURBED DURING EARLY PART OF 21 AUGUST.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 AUG/0400Z ENDING 23 AUG/0400Z  
CLASS M OR GREATER 85/80/80

CLASS X 20/20/20

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUXES FOR 19/1700Z AND 19/2000Z WERE 142 AND 141 RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO  
SDF NUMBER 724B ISSUED 1700Z 20 AUGUST 1970  
CLASS-C FLARES ARE EXPECTED AND CLASS-M FLARES ARE PROBABLE  
DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL DURING THE PAST 13 HOURS; SEVERAL CLASS-M EVENTS HAVE BEEN RECORDED, AND MOST OF THESE EVENTS ARE BELIEVED TO HAVE BEEN PRODUCED BY THE REGION BEHIND THE LIMB NEAR NW22. A LARGE CLASS-M X-RAY OUTBURST THAT BEGAN AT 20/0355Z REMAINED ABOVE THE CLASS-M THRESHOLD OF .01 ERG/CM<sup>2</sup>/SEC UNTIL 20/0520Z, BUT NO ENERGETIC OPTICAL EVENTS WERE REPORTED DURING THE TIME PERIOD OF THE X-RAY EVENT. THE GROWING REGION AT N23E15 POSSESSES A DYNAMIC APPEARANCE, CONTAINS ACTIVE FILAMENTS, AND HAS PRODUCED OCCASIONAL SUBFLARES. THE REGION AT N10W05 HAS PRODUCED INFREQUENT, NON-ENERGETIC SUBFLARES AND SHOWS SIGNS OF DECAY. SEVERAL NEW REGIONS ARE GROWING IN THE NORTHEAST QUADRANT, WHILE THE SOUTHERN HEMISPHERE HAS SHOWN LITTLE SIGNIFICANT ACTIVITY OR DEVELOPMENT RECENTLY. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST 24 HOURS. ATS-1 PROTON COUNTING RATES PRESENTLY ARE NEAR NORMAL BACKGROUND LEVELS.

B. SPORADIC CLASS-M EVENTS ARE EXPECTED DURING THE FORECAST PERIOD; THE REGION BEHIND THE LIMB NEAR NW22 IS NOT YET COMPLETELY SHIELDED FROM EARTH, AND THE N10W05 REGION IS STILL CAPABLE OF SPORADIC ENERGETIC FLARES. SOME SIGNIFICANT ACTIVITY PROBABLY WILL BE PRODUCED BY ONE OR MORE OF THE REGIONS NOW DEVELOPING IN THE NORTHEAST QUADRANT. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME DISTURBED DURING THE EARLY PART OF 21 AUGUST AS A RESULT OF THE CLASS-X FLARE THAT OCCURRED ON THE WEST LIMB AT 19/1114Z. NO SIGNIFICANT PROTON EVENT IS ANTICIPATED AS A RESULT OF THE 19/1114Z FLARE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 AUG/1700Z ENDING 23 AUG/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 20/15/15

PROTON EVENTS 15/10/10

D. OTTAWA 10.7 CM FLUX FOR 20/1400Z WAS 144. PREDICTED 10.7 CM FLUX FOR 21-23 AUG IS 146/148/150.

E. MAGNETIC A-FREDERICKSBURG FOR 19 AUG WAS 14. FOR 20 AUG ABOUT 05 PREDICTED AP FOR 21-23 AUG, 20/14/10.

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