

KMSC

HAUS BOU 120400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 716A ISSUED 0400Z 12 AUG 1970

NO MORE THAN TWO SMALL M FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. A SUBNORMAL FLARE NEAR N20E01, BEGINNING SHORTLY BEFORE 11/2325Z, WAS EVIDENT BY THE SOURCE OF A MEDIUM-SIZED CM RADIO BURST. BOULDER'S RECENTLY INSTALLED 3-CHANNEL RADIOMETER RECORDED INCREASES ABOVE BACKGROUND OF 41, 150 AND 263 FLUX UNITS AT 21, 11 AND 6 CM RESPECTIVELY. THESE ENHANCEMENTS AGREED ORDER-OF-MAGNITUDE-WISE WITH BURST DATA FROM MANILA AND TOYOKAWA OBSERVATORIES. THE EVENT WAS EXTREMELY SHORT-LIVED, LASTING ROUGHLY 4 MINUTES. HARDLY ANY CHANGE HAS TAKEN PLACE WITHIN THE 5 DISK FEATURES SINCE ABOUT 1500Z YESTERDAY. MINOR SURGES ON THE EAST LIMB ARE EVIDENT NEAR N10 AND S12.

B. LITTLE CHANGE IN THE CURRENT LOW LEVEL OF ACTIVITY IS FORESEEN THESE NEXT THREE DAYS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN UNDISTURBED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 12 AUG/0400Z ENDING 15 AUG/0400Z

CLASS M OR GREATER 50/50/50

CLASS X 05/05/05

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 11/1700Z AND 11/2000Z WERE 124 AND 126 RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 716B ISSUED 1700Z 12 AUG 1970

A CLASS M FLARE IS EXPECTED WITHIN THE NEXT 11 HOURS

A. A MEDIUM-SIZED CLASS M X-RAY BURST BEGAN AT 11/2320Z,
PEAKED ABOUT 0000Z, AND ENDED ABOUT 12/0330Z. THIS X-RAY EVENT
IS OBVIOUSLY ASSOCIATED WITH THE RADIO BURST DESCRIBED IN
SDF 716A; HOWEVER, HAVING SEEN THE SIZE AND DURATION OF
THE X-RAY BURST WE MUST QUESTION WHETHER THE RADIO AND X-RAY
EVENTS ORIGINATED IN THE UNIMPRESSIVE SUBFLARE AT 11/2325Z
NEAR N20E01. SUCH ENERGETIC EVENTS ARE OFTEN ASSOCIATED
WITH SUBFLARES, BUT THEY USUALLY ORIGINATE IN REGIONS
HAVING A HISTORY OF PRODUCING FREQUENT X-RAY EVENTS. THIS
EVENT PROBABLY ORIGINATED FROM BEHIND THE EAST LIMB. SURGES,
FAINT CORONAL RAIN, AND PROMINENCE ACTIVITY HAVE BEEN OBSERVED
ON THE NE LIMB. A PREVIOUSLY ACTIVE REGION IS DUE BACK NEAR
N07WITHIN 36 HOURS. FURTHER GROWTH AND DEVELOPMENT HAVE
OCCURRED IN THE LEADING AND INTERMEDIATE SECTIONS OF THE
N17W45 REGION WHILE THE TRAILING SPOTS HAVE ALMOST DIS-
APPEARED. THE N20W07 REGION SHOWS LITTLE CHANGE. SUBFLARE
ACTIVITY HAS BEEN CONFINED TO THESE TWO REGIONS. THE
GEOMAGNETIC FIELD IS QUIET.

B. INFREQUENT AND SMALL CLASS M EVENTS ARE EXPECTED FROM
FEATURES CURRENTLY ON THE DISK. ENERGETIC LIMB EVENTS MUST
BE CONSIDERED POSSIBLE FOR THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 12 AUG/1700Z ENDING 15 AUG/1700Z.

CLASS M OR GREATER 50/60/60

CLASS X 05/05/05

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUX FOR 12/1400Z WAS 133. PREDICTED 10.7CM
FLUX FOR 13-15 AUG IS 134/136/138.

E. MAGNETIC A-FREDERICKSBURG FOR 11 AUG WAS 10. FOR 12 AUG
ABOUT PIM PREDICTED AP FOR 13-15 AUG IS 08/10/10.

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HAUS BOU 120000Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDFR 988 ISSUED 12 AUGUST 1970

HIGHLIGHTS FOR THE PERIOD 05-11 AUGUST 1970:

GEOPHYSICALLY SIGNIFICANT ACTIVITY HAS BEEN AT A MINIMUM THE PAST WEEK. ONLY THREE SMALL CLASS M EVENTS WERE RECORDED. MCMATH REGION 871, NOW NEAR S06W46 (L 248), PRODUCED CLASS M SUBFLARES AT 07/0235Z AND 07/0555Z. NO OPTICAL EVENT WAS REPORTED FOR THE THIRD M EVENT AT 09/0528Z. REGION 871 WAS BORN ON THE VISIBLE DISK ON 05-06 AUGUST, REACHED MAXIMUM DEVELOPMENT ON 08 AUGUST WITH A CLASS/AREA OF D/150 MILLIONTHS, AND THEN COMMENCED A SLOW DECAY. MCMATH REGION 865 NEAR N18W36 (L 239), WHICH WAS BORN NEAR EAST LIMB ON 03 AUG AND GREW TO A D/400 GROUP BY 05 AUG, PRODUCED ONLY CLASS C SUBFLARES. PARTICLE DETECTORS ABOARD PIONEER 9 INDICATE THAT A RELATIVELY ENERGETIC EVENT OCCURRED BEYOND THE WEST LIMB ON 07 OR 08 AUGUST. THE GEOMAGNETIC FIELD SHOWED PERIODS OF MINOR DISTURBANCE ON 07-09 AUGUST.

FORECAST FOR THE PERIOD 13-19 AUGUST 1970:

A SLIGHT INCREASE IN ENERGETIC ACTIVITY IS EXPECTED WITH AN AVERAGE OF ONE CLASS M EVENT PER DAY. OLD MCMATH REGION 845 (N07 L 093) WHICH PRODUCED THE 23 JULY PROTON EVENT SHOULD RETURN TO THE EAST LIMB ON 13 AUGUST.

28-DAY FORECAST FOR THE PERIOD 13 AUG - 10 SEPT 1970:

A RELATIVELY LOW LEVEL OF ACTIVITY IS EXPECTED TO PERSIST THROUGHOUT THE PERIOD.

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