

800A

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO
SDF NUMBER 780A ISSUED 0400Z 04 NOV 1970
NO CLASS M EVENTS ARE ANTICIPATED DURING THE 13 HOURS BETWEEN
MESSAGES.

A. NO ENERGETIC FLARES WERE REPORTED YESTERDAY. ALL DISK
FEATURES ARE SMALL (LESS THAN 200 MILLIONTHS IN AREA) WITH
LITTLE ACTIVITY APPARENT IN THEIR ATTENDANT HYDROGEN PLAGES.
INFREQUENT MINOR SURGES HAVE BEEN OBSERVED ALONG THE NW LIMB NEAR
N15. THE GEOMAGNETIC FIELD IS QUIET.

B. THE NUMBER OF SUBFLARES REPORTED DAILY IS EXPECTED TO REMAIN
AT CURRENT LEVELS OR GRADUALLY DECLINE DURING THE FORECAST PERIOD.
ONE OR TWO SMALL M EVENTS EVERY 24 HOURS SHOULD MARK THE UPPER
LIMIT ON DISK ACTIVITY. NO GEOMAGNETIC DISTURBANCES ARE FORSEEN.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 04 NOV/0400Z ENDING 07 NOV/0400Z.

CLASS M OR GREATER 50/50/45

CLASS X 02/02/02

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 03/1700Z AND 03/2000Z WERE 161 AND
155 RESPECTIVELY.

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HAUS BOU 041700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 800B ISSUED 1700Z 04 NOV 1970

ONLY CLASS C SUBFLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. NO SIGNIFICANT ACTIVITY DURING THE PAST 24 HOURS. NO MAJOR CHANGES HAVE OCCURRED IN SOLAR FEATURES. DEVELOPING BUT STILL SMALL REGIONS ARE LOCATED NEAR N22E11, S10W32, S09E40, AND S16E42. THE DECAYING REGION WHICH IS NOW COMPLETING WEST LIMB PASSAGE HAS PRODUCED ONLY MINOR LIMB ACTIVITY. THE EAST LIMB HAS BEEN QUIET. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. A LOW LEVEL OF ACTIVITY IS EXPECTED FOR THE NEXT 72 HOURS. ENERGETIC EVENTS ARE EXPECTED TO BE INFREQUENT AND SMALL. QUIET GEOMAGNETIC CONDITIONS SHOULD PREVAIL.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOURS PERIODS BEGINNING 04 NOV/1700Z ENDING 07 NOV/1700Z.

CLASS M OR GREATER 50/45/40

CLASS X 02/02/01

PROTON EVENTS 02/02/01

D. OTTAWA 10.7 CM FLUX FOR 04/1400Z WAS 149. PREDICTED

10.7 CM FLUX FOR 05-07 NOV IS 145/140/138.

E. MAGNETIC A-FREDERICKSBURG FOR 03 NOV WAS 06. FOR 04 NOV ABOUT 06. PREDICTED AP FOR 05-07 NOV, 05/08/08.

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HAUS BOU 040000

SDFR NUMBER 000 ISSUED 04 NOVEMBER 1970

HIGHLIGHTS FOR THE PERIOD 28 OCTOBER-03 NOVEMBER 1970--
MCMATH REGION 002 (NOW CENTERED NEAR N17W73, L247) REACHED
PEAK DEVELOPMENT ON 26-27 OCTOBER. THE PLAGE CONTAINED THREE
MODERATELY LARGE AND TWO SMALL SPOT GROUPS. AT PEAK DEVELOP-
MENT THE TOTAL AREA OF THESE SPOTS WAS SLIGHTLY IN EXCESS
OF 1000 MILLIONTHS OF THE SOLAR HEMISPHERE AND THE REGION
WAS MAGNETICALLY COMPLEX WITH MULTIPLE DELTA CONFIGURATIONS.
ACTIVITY FROM THE REGION PEAKED ON 26 OCTOBER WHEN IT PRO-
DUCED TEN CLASS M EVENTS. BOTH THE REGION AND ITS ACTIVITY
HAVE DECLINED SLOWLY SINCE 27 OCTOBER. THE MOST ENERGETIC
SINGLE EVENT WAS A SMALL IMP 2B CLASS X4 FLARE AT 28/1248Z
WHICH OCCURRED AT THE SITE OF A STRONG DELTA CONFIGURATION IN
THE TRAILING PORTION OF THE REGION. THE DELTA CONFIGURATION
WAS NOT PRESENT AFTER THE FLARE. THIS CLASS X4 EVENT WAS
ACCOMPANIED BY A MAJOR RADIO BURST WITH THE FOLLOWING PEAK
FLUXES -- 3600 FLUX UNITS AT 1400 MHZ, 620 AT 2700 MHZ, 1200
AT 5000 MHZ, AND 2200 AT 8800 MHZ. VHF AND UHF COMMUNICATIONS
OVER NORTH AMERICA WERE SEVERELY DISRUPTED FOR UP TO FIVE
MINUTES DURING THIS RADIO BURST, AND THE X-RAY BURST CAUSED
SEVERE ABSORPTION OF HF COMMUNICATIONS. THIRTEEN ADDITIONAL
SMALL EVENTS, M1 AND M2, WERE OBSERVED DURING THE PAST SEVEN
DAYS. ONE OF THESE, A CLASS M2 AT 30/2325Z, WAS ACCOMPANIED
BY A 580 FLUX UNIT RADIO BURST AT 2700 MHZ. PROTON FLUXES NEAR
EARTH WERE AT BACKGROUND THROUGHOUT THE WEEK. THE GEOMAGNETIC
FIELD WAS GENERALLY QUIET. THE MOST DISTURBED DAYS WERE 28
AND 29 OCTOBER WHEN THE A-INDICES AT FREDERICKSBURG WERE 11 AND
13, RESPECTIVELY.

FORECAST FOR THE PERIOD 05-11 NOVEMBER 1970--

A LOW TO MODERATE LEVEL OF ACTIVITY IS EXPECTED. ONLY CLASS
C AND INFREQUENT AND SMALL CLASS M EVENTS ARE EXPECTED FROM THE
REGIONS CURRENTLY ON THE SOLAR DISK. THE MOST LIKELY SOURCES
OF SUCH ACTIVITY ARE MCMATH REGIONS 019 (S09E49, L125) AND
012 (S10W23, L197). MODERATE ACTIVITY WILL PREVAIL ONLY IF
THE L090 LONGITUDE BELT, SCHEDULED TO BEGIN TO RETURN ON 04
NOVEMBER, RETURNS TO THE VISIBLE DISK MORE ACTIVE THAN WHEN
IT LEFT 14 DAYS AGO. LOW ENERGY PROTON DATA FROM THE PIONEER
7 SPACECRAFT AND STRONG GREEN LINE CORONAL EMISSION ON THE
EAST LIMB INDICATE THAT THIS LONGITUDE BELT MAY BE ACTIVE.

28-DAY FORECAST FOR THE PERIOD 05 NOVEMBER-03 DECEMBER 1970--

A GENERALLY LOW LEVEL OF ACTIVITY SHOULD PREVAIL. MCMATH REGION
002 IS NOT EXPECTED TO BE ACTIVE DURING ITS NEXT ROTATION.

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