

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.

SOLTERWARN

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NNNN1659

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KMSC

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 DEVELOPMENT 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 PRODUCED 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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