

KMSC

HAUS BOU 210000

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDFR 998 ISSUED 21 OCTOBER 1970

HIGHLIGHTS FOR THE PERIOD 14-20 OCTOBER 1970:

SOLAR ACTIVITY CONTINUED AT A VERY LOW LEVEL. FIVE CLASS M1 SUB-FLARES OCCURRED IN MCMATH REGION 937 WHICH IS NOW LOCATED NEAR N09W58 (L 056). FOUR OF THESE EVENTS OCCURRED ON 14 OCTOBER AND ONE ON 20 OCTOBER. NO SIGNIFICANT RADIO BURSTS OR SUDDEN IONOSPHERIC DISTURBANCES WERE REPORTED FOR ANY OF THE EVENTS. A MINOR GEOMAGNETIC STORM BEGAN WITH A SUDDEN COMMENCEMENT AT 16/0917Z. THE GEOMAGNETIC FIELD REMAINED DISTURBED THROUGH ABOUT 18/0900Z. THE A-INDICES AT FREDERICKSBURG WERE 31, 19, AND 21 FOR 16, 17, AND 18 OCTOBER, RESPECTIVELY. THE SPECIFIC CAUSE OF THIS STORM IS NOT KNOWN.

FORECAST FOR THE PERIOD 22-28 OCTOBER 1970:

SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL. AN AVERAGE OF LESS THAN ONE SMALL CLASS M EVENT PER DAY IS EXPECTED. NO PREVIOUSLY ACTIVE REGIONS ARE DUE TO RETURN. OBSERVATIONS OF ENHANCED SOLAR WIND BY PIONEERS 6 AND 8 INDICATE THAT A MINOR GEOMAGNETIC DISTURBANCE IS LIKELY ON 22 OR 23 OCTOBER.

28-DAY FORECAST FOR THE PERIOD 22 OCTOBER - 19 NOVEMBER 1970:

A GENERALLY LOW LEVEL OF ACTIVITY IS EXPECTED TO PERSIST THROUGHOUT THE NEXT MONTH.

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 736A ISSUED 0400Z 21 OCT 1970

OCCASIONAL CLASS-C FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST 11 HOURS; ONLY A FEW CLASS-C SUBFLARES HAVE BEEN REPORTED. THE H-TYPE REGION AT N14E56 HAS SHOWN SOME SLIGHT DEVELOPMENT OF THE TRAILER PORTION, AND SMALL A-TYPE SPOTS NOW ARE VISIBLE THERE. SOME GROWTH HAS OCCURRED IN THE FOLLOWING PENUMBRA OF THE N09W38 REGION. OTHER DISK REGIONS HAVE SHOWN LITTLE SIGNIFICANT CHANGE. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 13 HOURS.

B. ONLY RELATIVELY NON-ENERGETIC SMALL FLARES ARE ANTICIPATED DURING THE FORECAST PERIOD; THE REGIONS AT N14E56, N11E13, AND N09W38 ARE EXPECTED TO PRODUCE MOST OF THE ACTIVITY ON THE VISIBLE DISK. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET UNTIL EARLY ON 23 OCTOBER, WHEN A MINOR GEOMAGNETIC DISTURBANCE IS EXPECTED TO OCCUR.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21 OCT/0400Z ENDING 24 OCT/0400Z.

CLASS M OR GREATER 20/20/20

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 20/1700Z AND 20/2000Z WERE 138 AND 139 RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 786B ISSUED 1700Z 21 OCT 1970

CLASS C FLARES EXPECTED DURING THE NEXT 11 HOURS.

A. NO SOLAR ACTIVITY TO REPORT. NE LIMB ACTIVITY, BRIGHT SURGES, INDICATES A RETURNING REGION. THE N14E49 REGION REMAINS BRIGHT AND THE MOST INTERESTING FEATURE ON A FAIRLY DULL LOOKING SUN. THE GEOMAGNETIC FIELD IS QUIET.

B. REFER TO FORECAST 786A.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 21 OCT/1700Z ENDING 24 OCT/1700Z.

CLASS M OR GREATER 20/20/20

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 21/1400Z WAS 137. PREDICTED

10.7 CM FLUX FOR 22-24 OCT IS 135/133/130.

E. MAGNETIC A-FREDERICKSBURG FOR 20 OCT WAS 06. FOR 21 OCT ABOUT 02. PREDICTED AP FOR 22-24 OCT, 15/22/18.

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 787A ISSUED 0400Z 21 OCT 1970

ONLY CLASS C EVENTS ARE EXPECTED DURING THE NEXT 13 HOURS.

A. ACTIVITY DURING THE PAST 11 HOURS HAS CONSISTED OF SURGES AND ONE SUBFLARE FROM THE EAST LIMB NEAR N16 AND A FEW SURGES FROM THE EAST LIMB NEAR S20. NO SIGNIFICANT CHANGES HAVE OCCURRED ON THE DISK. THE GEOMAGNETIC FIELD HAS BEEN EXTREMELY QUIET.

B. ONLY RELATIVELY MINOR ACTIVITY IS EXPECTED DURING THE NEXT 72 HOURS. ENERGETIC EVENTS ARE EXPECTED TO BE VERY INFREQUENT AND NO LARGER THAN CLASS M1. THE MOST LIKELY SOURCES OF ACTIVITY ARE THE N14E45 AND NE LIMB REGIONS. A MINOR GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN ON LATE 22 OR EARLY 23 OCTOBER.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 OCT/0400Z ENDING 25 OCT/0400Z.

CLASS M OR GREATER 20/25/25

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 21/1700Z AND 21/2000Z WERE 138 AND 136 RESPECTIVELY.

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