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KMSC

HAUS BOU 140000Z

SDFR 997 ISSUED 14 OCTOBER 1970

HIGHLIGHTS FOR THE PERIOD 07-13 OCTOBER 1970--

SOLAR ACTIVITY REMAINED AT A VERY LOW LEVEL. ONE CLASS M1 EVENT WAS OBSERVED IN MCMATH REGION 971 (NOW LOCATED ON THE INVISIBLE DISK NEAR S12 L190) AT 07/2153Z. OPTICALLY THE EVENT WAS APPARENTLY OF IMPORTANCE SF. A MINOR SHORT WAVE FADEOUT WAS REPORTED TO ACCOMPANY THIS EVENT. A MORE SIGNIFICANT SWF WAS REPORTED DURING A CLASS C7 X-RAY BURST AT 09/0100Z. NO OPTICAL FLARE WAS OBSERVED FOR THIS X-RAY BURST. A MINOR GEOMAGNETIC DISTURBANCE ON 11-12 OCTOBER RESULTED IN A-INDICES OF 13 AND 15 AT FREDERICKSBURG.

FORECAST FOR THE PERIOD 15-21 OCTOBER 1970--

THE LOW LEVEL OF ACTIVITY WHICH HAS MARKED THE LAST THIRTY DAYS IS EXPECTED TO CONTINUE. AN AVERAGE OF LESS THAN ONE SMALL CLASS M EVENT PER DAY IS EXPECTED. NO PREVIOUSLY ACTIVE REGIONS ARE DUE TO RETURN.

28-DAY FORECAST FOR THE PERIOD 15 OCTOBER-12 NOVEMBER 1970--

A LOW LEVEL OF ACTIVITY IS EXPECTED TO PERSIST THROUGHOUT THE PERIOD. THE ENTIRE SUN IS APPARENTLY VERY QUIET. ANY ENHANCEMENT IN THE LEVEL OF ACTIVITY WILL REQUIRE THE FORMATION OF NEW ACTIVE CENTERS.

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 779A ISSUED 0400Z 14 OCTOBER 1970

CLASS C FLARES ARE ANTICIPATED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST 11 HOURS; ONLY A FEW CLASS C FLARES HAVE BEEN REPORTED. THE ONLY NOTEWORTHY EVENT CONSISTED OF A BROADLY-PEAKED CLASS C-5 X-RAY EMISSION IN THE 1-8 ANGSTROM BAND; THIS EVENT, WHICH WAS OF UNCERTAIN ORIGIN, BEGAN AT ABOUT 13/1625Z, REACHED MAXIMUM NEAR 1800Z, AND DECAYED VERY SLOWLY DURING THE NEXT SEVERAL HOURS. THIS X-RAY ENHANCEMENT MAY HAVE BEEN PRODUCED BY THE LONG-LIVED ONE-FAINT FLARE THAT BEGAN AT 13/1600Z AT S15W13, OR IT MAY HAVE ORIGINATED BEHIND THE WEST LIMB; AN ERUPTIVE PROMINENCE WAS OBSERVED AT NW16 BETWEEN 13/1655Z AND 1733Z, BUT SURGES ALSO WERE OBSERVED AT SW13 AT 1730Z. LITTLE SIGNIFICANT CHANGE HAS BEEN OBSERVED IN ANY OF THE REGIONS ON THE DISK, AND THE LACK OF EVENTS ON THE EAST LIMB SUGGESTS THAT NO NEW REGIONS WILL APPEAR THERE FOR AT LEAST THE NEXT DAY. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET EXCEPT FOR A PERIOD OF MINOR DISTURBANCE THAT BEGAN SUDDENLY AT 13/0506Z.

B. NO ENERGETIC SOLAR ACTIVITY IS ANTICIPATED DURING THE FORECAST PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO BE RELATIVELY QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 14 OCT/0400Z ENDING 17 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 13/1700Z AND 13/2000Z WERE 137 AND 142 RESPECTIVELY.

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 779B ISSUED 1700Z 14 OCT 1970

SPORADIC CLASS C FLARES REPRESENT AN UPPER BOUND ON ACTIVITY DURING THE NEXT 11 HOURS.

A. AN EXTREMELY LOW LEVEL OF FLARE ACTIVITY HAS BEEN WITNESSED SO FAR TODAY. THE MOST IMPRESSIVE FEATURE OUT OF THE 10 REGIONS FACING EARTH IS THE TRIO OF GROUPS NEAR N03E25, N05E31, AND N09E37. THE SMALL BRIGHT PLAGES IN ATTENDANCE THERE CONTAIN THE MOST CONTORTED NEUTRAL LINE ON THE DISK. QUIET GEOMAGNETIC CONDITIONS PREVAIL.

B. INFREQUENT NON-ENERGETIC FLARES SHOULD CHARACTERIZE THE DISK THESE NEXT 3 DAYS. ANY M EVENTS RECORDED DURING THE FORECAST PERIOD ARE EXPECTED TO BE BORDERLINE CASES. THE GEOMAGNETIC FIELD SHOULD REMAIN UNDISTURBED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 14 OCT/1700Z ENDING 17 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 14/1400Z WAS 138. PREDICTED

10.7 CM FLUX FOR 15-18 OCT IS 146/145/140.

E. MAGNETIC A-FREDERICKSBURG FOR 13 OCT WAS 09. FOR 14 OCT ABOUT 09. PREDICTED AP FOR 15-18 OCT, 10/05/03.

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