

HAUS BOU 160400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 751A ISSUED 0400Z 16 SEP 1970

ONLY SPORADIC CLASS-C FLARES ARE LIKELY DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST 11 HOURS; ONLY CLASS-C SUBFLARES HAVE BEEN REPORTED. ALL DISK REGIONS PRESENTLY APPEAR RELATIVELY UNIMPRESSIVE. MODERATELY ENHANCED PLAGE AND A SMALL SPOT HAVE CROSSED THE EAST LIMB AND NOW ARE LOCATED NEAR N15E83, BUT NO SIGNIFICANT ACTIVITY HAS ORIGINATED FROM THAT SITE. THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 11 HOURS.

B. ENERGETIC SOLAR ACTIVITY IS VERY UNLIKELY DURING THE FORECAST PERIOD, ONLY OCCASIONAL CLASS-C FLARES ARE ANTICIPATED. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET DURING THE NEXT 72 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 SEP/0400Z ENDING 19 SEP/0400Z.

CLASS M OR GREATER 15/15/15

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 15/0400Z WAS 117.

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HAUS BOU 161700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 751B ISSUED 1700Z 16 SEP 1970

SPORADIC CLASS-C FLARES ARE ANTICIPATED DURING THE NEXT 11 HOURS.

A. QUIET SOLAR CONDITIONS HAVE PERSISTED DURING THE PAST 13 HOURS; ONLY A FEW CLASS-C SUBFLARES HAVE BEEN REPORTED. A NEW REGION WITH ENHANCED PLAGE AND A RUDIMENTARY D-TYPE SPOT GROUP IS DEVELOPING AT N20E72, BUT NO SIGNIFICANT ACTIVITY HAS BEEN PRODUCED AT THAT SITE SO FAR. THE VISIBLE DISK PRESENTLY APPEARS VERY INACTIVE. DURING THE PAST 13 HOURS THE GEOMAGNETIC FIELD HAS BEEN SLIGHTLY DISTURBED.

B. THE PRESENT LOW LEVEL OF SOLAR ACTIVITY IS EXPECTED TO PERSIST THROUGH THE THREE-DAY FORECAST PERIOD; SHOULD RAPID DEVELOPMENT OCCUR IN THE N20E72 REGION, THE PROBABILITY OF ENERGETIC ACTIVITY WOULD BE GREATER THAN PRESENTLY INDICATED. THE GEOMAGNETIC FIELD IS EXPECTED TO SHOW OCCASIONAL PERIODS OF SLIGHT DISTURBANCE DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 SEP/1700Z ENDING 19 SEP/1700Z.

CLASS M OR GREATER 20/20/25

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 16/1400Z WAS NOT AVAILABLE.

PREDICTED 10.7 CM FLUX FOR 17-19 SEP IS 118/121/124.

E. MAGNETIC A-FREDERICKSBURG FOR 15 SEP WAS 13. FOR 16 SEP ABOUT 08. PREDICTED AP FOR 17-19 SEP, 08/08/06.

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SDFR 993 16 SEPT 70

HIGHLIGHTS FOR THE PERIOD 09-15 SEPTEMBER 1970 CLN SOLAR ACTIVITY DECLINED TO A VERY LOW LEVEL DURING THE PAST WEEK. ONLY FOUR CLASS M1 EVENTS WERE OBSERVED. (SEE NOTE BELOW FOR EXPANDED DEFINITIONS OF CLASS C, M, AND X EVENTS). ALL FOUR EVENTS WERE APPARENTLY FROM MCMATH REGION 918 (N17, L-240) WHICH COMPLETED WEST LIMB PASSAGE ON 11 SEPTEMBER. THIS ONCE IMPRESSIVE REGION HAS BEEN DECAYING SINCE 07 SEPTEMBER AND ITS ASSOCIATED SPOT GROUP WAS OF CLASS/AREA C/230 MILLIONTHS ON 10 SEPTEMBER, THE LAST DAY IT WAS FULLY VISIBLE. ONLY SPORADIC CLASS C SUBFLARES HAVE BEEN OBSERVED SINCE 11 SEPTEMBER AND ALL DISK FEATURES ARE CURRENTLY SMALL AND STRUCTURALLY SIMPLE. THE GEOMAGNETIC FIELD WAS VERY QUIET UNTIL 13 SEPTEMBER, AT WHICH TIME IT BECAME SLIGHTLY DISTURBED. THE FREDERICKSBURG A-INDEX WAS 20 FOR 13 SEPTEMBER AND 13 FOR 14 SEPTEMBER.

FORECAST FOR THE PERIOD 17-23 SEPTEMBER 1970 CLN SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL. AN AVERAGE OF LESS THAN ONE SMALL CLASS M EVENT PER DAY IS EXPECTED. THE PREVIOUSLY ACTIVE LONGITUDE BELT CENTERED AROUND L-260 WILL BE APPROACHING THE EAST LIMB ON 23 SEPTEMBER.

28-DAY FORECAST FOR THE PERIOD 17 SEPTEMBER - 15 OCTOBER 1970 CLN LOW TO MODERATE ACTIVITY IS EXPECTED TO PERSIST THROUGHOUT THE PERIOD. NOTE-EFFECTIVE 15 SEPTEMBER 1970 A MORE DESCRIPTIVE CLASSIFICATION OF X-RAY EVENTS IS BEING ADOPTED. HENCEFORTH A NUMBER WHICH SPECIFIES THE SIZE OF THE EVENT MAY BE ADDED TO THE LETTER CLASSIFICATION. THIS NUMBER WILL RANGE FROM 1 TO 9 AND WILL GIVE THE PEAK FLUX OF THE 1-8A X-RAY BURST. UNDER THIS SCHEME CLASS M3 WILL DESCRIBE AN EVENT HAVING A PEAK FLUX IN THE NEIGHBORHOOD OF 0.03 ERG PER SQ CM PER SEC AND CLASS X3 WILL DESCRIBE AN EVENT HAVING PEAK FLUX NEAR 0.3 ERG PER SQ CM PER SEC, ETC. THE CLASSIFICATION X5 PLUS WILL BE USED FOR EVENTS FOR WHICH THE SOLRAD-9 1-8A DETECTORS BECAME SATURATED. THIS CLASSIFICATION WILL BE USED FOR DESCRIPTIVE PURPOSES ONLY; FORECASTS WILL CONTINUE TO BE ISSUED IN TERMS OF LETTER CLASSIFICATIONS ONLY. PLEASE NOTE THAT THE BASIC DEFINITIONS OF CLASS C, M, AND X EVENTS REMAIN UNCHANGED.

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