

NNNN0359

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KMSC

HAUS BOU 230400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 758A ISSUED 0400Z 23 SEPT 1970

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

A. NO SIGNIFICANT ACTIVITY HAS BEEN OBSERVED SINCE THE LAST MESSAGE.

B. THE SUNSPOT MINIMUM CONDITIONS ARE EXPECTED TO PREVAIL FOR AT LEAST THE 3-DAY FORECAST PERIOD. GEOMAGNETIC FIELD CONDITIONS ARE CURRENTLY QUIET AND ARE ANTICIPATED TO REMAIN AS SUCH.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 SEPT/0400Z ENDING 26 SEPT/0400Z.

CLASS M OR GREATER 25/30/35

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 22/1700Z AND 22/2000Z WERE 154 AND 160 RESPECTIVELY.

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HAUS BOU 231715

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO
SDF NUMBER 758B ISSUED 1700Z 23 SEPT 1970

CLASS M EVENTS ARE POSSIBLE DURING THE NEXT 11 HOURS.

A. SOLAR DISK ACTIVITY REMAINS AT A LOW LEVEL. SIGNIFICANT DISK FEATURES INCLUDE THE FOLLOWING, AN E-TYPE SPOT GROUP NEAR N22W65 WITH FAINT PLAGE. A SLOWLY DEVELOPING D-TYPE GROUP NEAR N09W43 WHICH MAY CONTAIN MIXED POLARITIES IN THE TRAILING PORTION, THIS REGION HAS A RELATIVELY BRIGHT AND FLUCTUATING PLAGE. AN E-TYPE GROUP NEAR N20W23. THIS GROUP HAS A LARGE LEADER WHICH CURRENTLY APPEARS TO BE FRAGMENTING AND A TRAILING PORTION MADE UP OF MANY SMALL SPOTS WITH ONLY RUDIMENTARY PENUMBRAE. THE PLAGE IS RELATIVELY FAINT AND DORMANT, AND A SLOWLY DEVELOPING D-TYPE GROUP NEAR N13E36 WITH AN EXTENSIVE BUT RELATIVELY INACTIVE PLAGE. ONLY ONE REGION IS LOCATED IN THE SOUTHERN HEMISPHERE-AN H-TYPE SPOT WHICH JUST CROSSED THE LIMB AND IS NOW LOCATED NEAR S07E78. IMPORTANCE TWO EJECTA HAVE BEEN REPORTED ON THE EAST LIMB NEAR N15; THOSE OBSERVED BY BOULDER HAVE NOT SHOWN THE CHARACTERISTICS USUALLY ASSOCIATED WITH SPRAYS OR SURGES. THIS LIMB ACTIVITY MAY INDICATE THAT A RETURNING REGION NEAR N18 MAY BE MORE ACTIVE THAN WE PREVIOUSLY ANTICIPATED. THE GEOMAGNETIC FIELD WAS AGAIN UNSETTLED DURING THE NIGHT.

B. ONLY MINOR ACTIVITY IS EXPECTED FROM REGIONS NOW ON THE DISK. THE REGION NEAR N09W43 IS THE MOST LIKELY SOURCE OF MINOR ENERGETIC EVENTS. ENERGETIC ACTIVITY MUST BE CONSIDERED POSSIBLE FROM THE NE LIMB FOR THE NEXT 24 HOURS; HOWEVER, WE CURRENTLY EXPECT NOTHING LARGER THAN SMALL CLASS M EVENTS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 23 SEPT/1700Z ENDING 26 SEPT/1700Z.

CLASS M OR GREATER 30/35/40

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 23/1400Z WAS 160. PREDICTED 10.7 CM FLUX FOR 24-26 SEPT IS 164/168/170.

E. MAGNETIC A-FREDERICKSBURG FOR 22 SEPT WAS 08. FOR 23 SEPT ABOUT 09. PREDICTED AP FOR 24-26 SEPT, 12/10/12.

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FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDFR 994 ISSUED 23 SEPTEMBER 1970

HIGHLIGHTS FOR THE PERIOD 16-22 SEPTEMBER 1970:

SOLAR ACTIVITY WAS AT A VERY LOW LEVEL DURING THE PAST SEVEN DAYS. THE MOST ENERGETIC EVENT WAS A CLASS C4 SUBFLARE AT 18/0924Z IN MCMATH REGION 946, CURRENTLY LOCATED NEAR N20W12 (L 020). THE SPOT GROUP ASSOCIATED WITH THIS PLAGE REGION BEGAN TO DEVELOP CLOSE TO THE EAST LIMB ON 16 SEPTEMBER AND SHOWED STEADY GROWTH THROUGH 21 SEPTEMBER. THE SPOT GROUP IS CURRENTLY MAGNETICALLY SIMPLE AND OF F-TYPE WITH AN AREA OF APPROXIMATELY 400 MILLIONTHS OF THE SOLAR HEMISPHERE. THE REGION NOW APPEARS TO BE DECAYING. THE GEOMAGNETIC FIELD WAS UNSETTLED THROUGHOUT THE PERIOD. THE HIGHEST A-INDEX AT FREDERICKSBURG WAS A 16 ON 21 SEPTEMBER.

FORECAST FOR THE PERIOD 24-30 SEPTEMBER 1970:

SOLAR ACTIVITY IS EXPECTED TO REMAIN AT A LOW LEVEL. AN AVERAGE OF LESS THAN ONE CLASS M EVENT PER DAY IS EXPECTED. ALL DISK FEATURES ARE CURRENTLY RELATIVELY UNIMPRESSIVE. PREVIOUSLY ACTIVE REGIONS LOCATED NEAR 260 AND 240 DEGREES CARRINGTON LONGITUDE MAY RETURN ON 23 AND 25 SEPTEMBER. BOTH REGIONS, HOWEVER, WERE INACTIVE AND DECAYING AS THEY LAST CROSSED THE WEST LIMB.

28-DAY FORECAST FOR THE PERIOD 24 SEPTEMBER - 22 OCTOBER 1970:

LOW TO MODERATE ACTIVITY IS EXPECTED TO PERSIST THROUGHOUT THE PERIOD.

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