

NNNN0401

NNNN

KMSC

HAUS BOU 200400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 543A ISSUED 0400Z 20 FEB 1970

ENERGETIC FLARES ARE POSSIBLE DURING THE NEXT 13 HOURS.

A. THERE EXISTS LITTLE CHANGE IN ANY OF THE 10 SMALL SPOT GROUPS  
VISIBLE. FLARE ACTIVITY HAS BEEN SCATTERED, OCCURRING WITHIN  
FOUR DIFFERENT REGIONS IN THE SOUTHERN HEMISPHERE. PATROL  
OBSERVATIONS REVEAL NO FLARES OF POSSIBLE M CLASSIFICATION SINCE  
THE 0933Z EVENT YESTERDAY. GEOPHYSICALLY CONDITIONS ARE QUIET TOO.  
B. A MONOTONICALLY DECREASING LEVEL OF ACTIVITY IS EXPECTED FOR THE  
3-DAY PERIOD AHEAD.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 20 FEB/0400Z ENDING 23 FEB/0400Z.

CLASS M OR GREATER 70/60/50

CLASS X 05/05/02

PROTON EVENTS 05/02/02

D. OTTAWA 10.7CM FLUXES FTR 19/1700 AND 2000Z WERE 203 AND 206  
RESPECTIVELY.

SOLTERWARN

SPAN

BT

NNNN1710

NNNN1710

NNNN1714

NNNN

KMSC

HAUS BOU 201715Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 543B ISSUED 1700Z 20 FEB 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. A CLASS M (IMP 1B) FLARE WAS OBSERVED AT 20/0943Z AT  
S20E31 AND PRODUCED MODERATE IONOSPHERIC EFFECTS WITH A  
10 CM RADIO BURST OF 505 F.U. ABOVE BACKGROUND AT 20/0944Z  
THIS REGION IS UNCHANGED FROM 24 HOURS AGO IN WHITE LIGHT.  
HOWEVER, IN H-ALPHA, THIS REGION CONTAINS A LONG, EMBEDDED,  
WELL - DEFINED ADF. A NEW, GROWING D-TYPE SPOT GROUP IS  
LOCATED AT N20E60. THE REMAINING REGIONS ARE STABLE AND  
UNCHANGED. PLAGE IS ROTATING OVER THE EL AT N13. THE GEOMAGNETIC  
FIELD IS VERY QUIET.

B. CLASS M FLARES ARE EXPECTED TO CONTINUE AT THEIR PRESENT  
RATE FROM THE S20E31 COMPLEX.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 20/1700Z ENDING 23/1700Z.

CLASS M OR GREATER 80/70/70

CLASS X 20/15/10

PROTON EVENTS 5/5/5

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 193. PREDICTED 188/184/178.

E. MAGNETIC A-FREDERICKSBURG FOR 19 FEB WAS 05. FOR 20 FEB  
ABOUT 02 PREDICTED AP FOR 21-23 FEB, 5/5/8.

SOLTERWARN

SPAN

BT

NNNN1717

NNNN