

HAUS BOU 130532Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 536A ISSUED 0400Z 13 FEB 1970

M AND X FLARE ACTIVITY ARE EXPECTED FROM THE NW CENTER DURING  
THE NEXT 13 HOURS.

A. MCMATH REGION 568'S OFFICIAL LIST OF ENERGETIC ACTIVITY HAS BEEN  
AN IMPRESSIVE ONE, AT LEAST IN TERMS OF CYCLE 20, WITH AN AVERAGE  
OF ABOUT SEVEN M AND X FLARES OCCURRING DURING EACH OF THE PAST  
4 DAYS. SPECIFIC EVENTS NOT YET TABULATED FOR THIS LARGE SPOT  
GROUP INCLUDE TWO M'S - ONE BEGINNING 12/1327(SN) AND THE OTHER  
AT 12/1805(SN). AS HAS BEEN DESCRIBED EARLIER THE REGION IS BREAKING  
APART. ITS NEW GROUPING HAS CONSIDERABLY DIMINISHED THE STRONG  
MAGNETIC FIELD GRADIENTS APPARENT YESTERDAY. IMPORTANCE ONE SURGES  
CONTINUE TO BE OBSERVED ON THE SE LIMB WHERE THE LEADER OF AN  
ASSUMED BIPOLAR GROUP ROTATED INTO VIEW ABOUT 24 HOURS AGO. ACTIVE  
PROMINENCES THERE GAVE USE TO AN M EVENT NEAR S20(SURGE PROBABLY  
EDGE-ON VIEW OF FLARE) AT 12/1000Z. THE EARTH'S MAGNETIC FIELD IS  
QUIET AND NO SOLAR COSMIC RAYS HAVE BEEN DETECTED BY EITHER THE  
VELA OR OGO SATELLITES.

B. SEE PREVIOUS MESSAGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 13 FEB/0400Z ENDING 16/0400Z.

CLASS M OR GREATER 100/100/80

CLASS X 100/70/60

PROTON EVENTS 20/20/10

D. OTTAWA 10.7 CM FLUXES FOR 12/1700 AND 2000Z WERE 206 AND 208  
RESPECTIVELY.

SOLTERWARN

SPAN

BT

NNNN0530

NNNN

KMSC

HAUS BOU 130532Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 536A ISSUED 0400Z 13 FEB 1970

M AND X FLARE ACTIVITY ARE EXPECTED FROM THE NW CENTER DURING  
THE NEXT 13 HOURS.

A. MCMATH REGION 563'S OFFICIAL LIST OF ENERGETIC ACTIVITY HAS BEEN  
AN IMPRESSIVE ONE, AT LEAST IN TERMS OF CYCLE 20, WITH AN AVERAGE  
OF ABOUT SEVEN M AND X FLARES OCCURRING DURING EACH OF THE PAST  
4 DAYS. SPECIFIC EVENTS NOT YET TABULATED FOR THIS LARGE SPOT  
GROUP INCLUDE TWO M'S - ONE BEGINNING 12/1327(SN) AND THE OTHER  
AT 12/1305(SN). AS HAS BEEN DESCRIBED EARLIER THE REGION IS BREAKING  
APART. ITS NEW GROUPING HAS CONSIDERABLY DIMINISHED THE STRONG  
MAGNETIC FIELD GRADIENTS APPARENT YESTERDAY. IMPORTANCE ONE SURGES  
CONTINUE TO BE OBSERVED ON THE SE LIMB WHERE THE LEADER OF AN  
ASSUMED BIPOLEAR GROUP ROTATED INTO VIEW ABOUT 24 HOURS AGO. ACTIVE  
PROMINENCES THERE GAVE USE TO AN M EVENT NEAR S20(SURGE PROBABLY  
EDGE-ON VIEW OF FLARE) AT 12/1000Z. THE EARTH'S MAGNETIC FIELD IS  
QUIET AND NO SOLAR COSMIC RAYS HAVE BEEN DETECTED BY EITHER THE  
VELA OR OGO SATELLITES.

B. SEE PREVIOUS MESSAGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 13 FEB/0400Z ENDING 16/0400Z.

CLASS M OR GREATER 100/100/80

CLASS X 100/70/60

PROTON EVENTS 20/20/10

D. OTTAWA 10.7 CM FLUXES FOR 12/1700 AND 2000Z WERE 206 AND 203  
RESPECTIVELY.

SOLTERWARN

SPAN

BT

) ALSO  
AN  
M  
13/102065

NNNN1720

NNNN1721

NNNN

KMSC

HAUS BOU 131714Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 536B ISSUED 1700Z 13 FEB 1970

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS DECREASED SHARPLY WITH ONLY ONE CLASS M FLARE /IMP SN/ AT 13/0802Z AT N19W33. THIS REGION CONTINUES TO DECAY WITH MARKED DECREASE IN PENUMBRAL AREA AND A LARGE SEPARATION BETWEEN THE LEADER AND MIDDLE PROTION OF THE SPOT GROUP. THE LARGE E-TYPE SPOT GROUP AT S20E70 IS A SIMPLE BIPOLE GROUP WITH UNIMPRESSIVE PLAGE AREA. THE REMAINING REGIONS ARE STABLE. THE GEOMAGNETIC FIELD IS QUIET.

B. SOLAR ACTIVITY WILL BE DECREASING DURING THE NEXT THREE DAYS WITH DECREASING FREQUENCY OF CLASS M EVENTS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13/1700Z ENDING 16/1700Z.

CLASS M OR GREATER 100/90/80

CLASS X 50/40/30

PROTON EVENTS 20/15/10

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 202. PREDICTED 195/192/183.

E. MAGNETIC A-FREDERICKSBURG FOR 12 FEB WAS 02. FOR 13 FEB ABOUT 07. PREDICTED AP FOR 14-16 FEB, 08/08/08.

SOLTERWARN

SPAN

BT

) TWO M'S  
ALREADY,  
AND IT IS  
UNIMPRESSIVE

I NEED TO  
STRAIGHTEN  
OUT S20E70  
FROM S11E48  
DEVELOPMENT