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HAUS BOU 150400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 015A ISSUED 0400Z 15 JAN 1971

OCCASIONAL CLASS-C FLARES AND ONE OR TWO CLASS-M FLARES ARE  
LIKELY DURING THE NEXT 13 HOURS.

A. THE MOST SIGNIFICANT EVENT REPORTED DURING THE PAST 11  
HOURS CONSISTED OF A CLASS-M5 SUBNORMAL FLARE AT 14/2032Z  
FROM THE RELATIVELY UNIMPRESSIVE REGION AT S23W77; THIS  
FLARE PRODUCED MODERATE IONOSPHERIC EFFECTS AND A SMALL  
RADIO BURST. ONLY A FEW OTHER FLARES HAVE BEEN OBSERVED,  
AND THEY HAVE BEEN SMALL AND NON-ENERGETIC. CONSIDERABLE  
SURGE ACTIVITY HAS OCCURRED NEAR THE N19E82 REGION, WHERE  
A MODERATELY LARGE H-TYPE SPOT AND FOLLOWING PENUMBRA  
ACCOMPANIED BY MODERATELY BRIGHT PLAGE ARE VISIBLE. DEVELOP-  
MENT IS CONTINUING IN THE NEW D-TYPE REGION AT N10W16, WHERE  
BOTH THE SPOTS AND PLAGE APPEAR TO OUTLINE THE BOUNDARIES  
OF A SUPERGRANULAR CELL. RELATIVELY LITTLE RECENT CHANGE  
HAS OCCURRED IN THE OTHER DISK REGIONS. THE GEOMAGNETIC FIELD  
HAS EXHIBITED OCCASIONAL PERIODS OF SLIGHT DISTURBANCE DURING  
THE PAST 24 HOURS. ATS-1 PROTON COUNTING RATES REMAIN AT  
BACKGROUND LEVELS.

B. A SLOWLY RISING LEVEL OF SOLAR ACTIVITY IS ANTICIPATED  
DURING THE NEXT THREE DAYS. OCCASIONAL FLARES ARE EXPECTED TO  
OCCUR WITH INCREASING FREQUENCY FROM THE N10W16 AND N19E82  
CENTERS, WHILE SPORADIC EVENTS ARE LIKELY AT THE S07W63 AND  
S23W77 REGIONS. THE GEOMAGNETIC FIELD IS EXPECTED TO EXHIBIT  
UNSETTLED CONDITIONS FOR THE NEXT SEVERAL DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 15 JAN/0400Z ENDING 18 JAN/0400Z.

CLASS M OR GREATER 75/80/85

CLASS X 10/10/10

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 14/1700Z AND 14/2000Z WERE BOTH 159.  
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THE NEXT DAY OR SO. CORONAL DATA INDICATES SOME INDEFINITE  
~~RETE~~ REGION AND IN A REGION DUE TO RETURN  
SHORTLY AT SE12-15. HELIOCENTRIC SATELLITE DATA SUGGESTS RESIDUAL  
~~LOW~~ ENERGY PARTICLE FLUX REMAINING FROM PRIOR ENERGETIC ACTIVITY  
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HAUS BOU 151740

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 015B ISSUED 1700Z 15 JAN 1971

INFREQUENT CLASS M FLARES EXPECTED NEXT 11 HOURS.

A. MOST SIGNIFICANT EVENT IN THE PAST 13 HOURS WAS A CLASS  
M3 FLARE IN THE REGION APPROACHING WEST LIMB AT SW25. OCCASIONAL  
MINOR EVENTS HAVE ORIGINATED ALSO IN THE REGIONS AT N08W23,  
S07W70 AND N19E73. SEVERAL ADDITIONAL LARGE STRUCTURES ARE STILL  
COMING OVER THE EAST LIMB AT N18 INCLUDING SOME ACTIVE PLAGE.

B. SPORADIC EVENTS ARE EXPECTED FROM THE CURRENT DISK REGIONS.  
THE S07W70 REGION REMAINS DORMANT BUT RETAINS MOST OF ITS STRUCTURE  
AND MAY PRODUCE AN ISOLATED BUT MODERATELY ENERGETIC EVENT IN  
THE NEXT DAY OR SO. CORONAL DATA INDICATES SOME INDEFINITE  
POTENTIAL IN THE NE LIMB REGION AND IN A REGION DUE TO RETURN  
SHORTLY AT SE12-15. HELIOCENTRIC SATELLITE DATA SUGGESTS RESIDUAL  
LOW ENERGY PARTICLE FLUX REMAINING FROM PRIOR ENERGETIC ACTIVITY  
IN ONE OR BOTH OF THESE REGIONS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR  
PERIODS BEGINNING 15 JAN/1700Z ENDING 18 JAN/1700Z.

CLASS M OR GREATER 75/80/80

CLASS X 10/10/10

PROTON EVENTS 02/02/05

D. OTTAWA 10.7 CM FLUX FOR 15/1400Z WAS 157.8. PREDICTED 10.7 CM  
FLUX FOR 16-18 JAN IS 160/162/164.

E. MAGNETIC A-FREDERICKSBURG FOR 14 JAN WAS 08. FOR 15 JAN ABOUT 08  
PREDICTED AP FOR 16-18 JAN 08/08/08.

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