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KMSC

HAUS BOU 190430Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 480A ISSUED 0400Z 19 DEC 1969

ONE OR TWO CLASS M FLARES ARE ANTICIPATED SOMETIME DURING THE  
NEXT 13 HOURS.

A. A SOMEWHAT ANOMALOUS EVENT OCCURRED YESTERDAY BEYOND THE  
WEST LIMB (ABOUT N22) AT 1445Z. IN HYDROGEN-ALPHA MATERIAL  
WAS OBSERVED IN PROJECTION MOVING RADially OUTWARD TO A DISTANCE  
OF ABOUT 0.4R. NO DEKAMETER BURSTS WERE RECORDED AND THE  
ACCOMPANING CM WAVELENGTH EMISSION WAS ONLY THE ORDER OF 100 FLUX  
UNITS(1 FLUX UNIT EQUALS 10-22 WATTS/M2/HZ). A SMALL ENHANCEMENT IN  
PROTON COUNTING RATES FOLLOWED ABOUT AN HOUR LATER ON BOTH THE  
ATS-1 AND VELA SATELLITES. IT SHOULD BE EMPHASIZED HOWEVER THAT  
THIS PROTON EVENT HAS NOT BEEN DETECTED BY GROUND-BASED SENSORS  
AND VERY LIKELY WILL NOT BE IF THE CURRENT PARTICLE FLUXES CONTINUE  
TO RUN LESS THAN 10/CM2/SEC. THE MOST PROMISING REGION ON THE DISC  
IS THE BETA-GAMMA SPOT GROUP NEAR N14E12. NINE POINT ONE CM  
EMISSION IS BRIGHTEST THERE WHILE ITS WELL DEFINED NEUTRAL LINE  
APPEARS CONTORTED.

B. SEE PREVIOUS MESSAGE.

C. FLARE AND PRTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 19 DEC/0400Z ENDING 22 DEC/0400Z.

CLASS M OR GREATER 60/60/60

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX FOR 18/2000Z WAS 147.

SOLTERWARN

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18/1700 WAS 148

NNNN1702  
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19/1201Z

SO8E06

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HAUS 1 BOU 191700Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 480B ISSUED 1700Z 19 DEC 1969

CLASS M FLARES ARE PROBABLE DURING THE NEXT 11 HOURS.

A. TWO CLASS M FLARES OCCURRED AT 19/0412Z (IMP 1B) AT S12W17  
AND AT BQOXQWPQZ (IMP 2N) AT N12W10. THE MOST SIGNIFICANT WHITE  
LIGHT GROWTH HAS OCCURRED IN THE ~~S12W21~~ REGION. THE REMAINING  
REGIONS ARE UNCHANGED. SMALL SURGES HAVE BEEN OBSERVED AT S04EL.  
THE ATS-1 SATELLITE PROTON COUNTING RATES HAVE DECREASED SINCE  
19/0500Z AND ARE CURRENTLY ONLY SLIGHTLY ABOVE BACKGROUND. THE  
GEOMAGNETIC FIELD IS VERY QUIET.

B. CLASS M FLARES ARE EXPECTED TO CONTINUE AT THEIR CURRENT RATE OF  
ONE OR TWO PER DAY FROM THE S12W21 AND N12W13 REGIONS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24  
HOUR PERIODS BEGINNING 19/1700Z ENDING 22/1700Z.

CLASS M OR GREATER 60/60/60

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 152. PREDICTED 147/147/147.

E. MAGNETIC A-FREDERICKSBURG FOR 18 DEC WAS 18. FOR 19 DEC  
ABOUT 02. PREDICTED AP FOR 20-22 DEC; 15/15/10.

SOLTERWARN

SPAN

BT

01