

NNNN0357

NNNN

KMSC

HAUS BOU 170400Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 478A ISSUED 0400Z 17 DECEMBER 1969

CLASS M ACTIVITY IS PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY REMAINS AT A LOW LEVEL. CLASS C FLARES HAVE BEEN OBSERVED. MOST ACTIVITY HAS BEEN CONFINED TO TWO REGIONS N14E27 AND S09E18. THE REGION AT S09E18 HAS SHOWN SOME CHANGE IN THAT THE LEADING PENUMBRA HAS DECREASED BUT THERE HAS BEEN AN INCREASE IN THE NUMBER OF SPOTS IN THE LEADING SECTION. AT 17/0034Z A FLARE OPTICAL IN WAS OBSERVED AT N11E40 SECOND MAXIMUM 0058Z CLASSIFIED 2N BY CARNARVON. ACCORDING TO ALL INDICATIONS IT WAS ONLY AN OPTICAL FLARE. THE GEOMAGNETIC FIELD IS QUIET.

B. CLASS M FLARES WILL CONTINUE FROM THE REGIONS N14E27 AND S09E18.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17 DEC/0400Z ENDING 20 DEC/0400Z

CLASS M OR GREATER 60/50/50

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX 16/1700Z AND 2000Z WERE 141 AND 143 RESPECTIVELY.

SOLTERWARN

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UNCLAS SVC REF RJTZ 152A 171845Z HW ZDK HAUS BOU 171700Z  
FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 478B ISSUED 1700Z 17 DECEMBER 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 11 HOURS

A. HIGHLIGHTS FOR THE PERIOD 09-16 DECEMBER 1969--

MCMATH REGION 477 HAS PRODUCED THE MOST ACTIVITY DURING THE PAST EIGHT DAYS. CLASS M EVENTS WERE OBSERVED FROM REGION 477 12/1744Z OPTICAL SB 13/0337Z OPTICAL IN 14/0338Z OPTICAL 1N AND 16/0800Z OPTICAL SF. TWO CLASS M EVENTS WERE OBSERVED FROM ACTIVITY BEYOND THE EAST LIMB 11/2211Z AND 13/1338Z. ONE OTHER CLASS M EVENT OCCURRED DURING THIS PERIOD 15/0616Z OPTICAL 1B FROM MCMATH REGION 478. DURING THIS PERIOD SIX SPOT GROUPS RETURNED TO THE VISIBLE DISK IN THE NORTHEAST. THEY WERE QUITE ACTIVE ON LAST TRANSIT BUT THEIR STRUCTURE HAS SIMPLIFIED SINCE THEIR WEST LIMB PASSAGE. THE GEOMAGNETIC FIELD HAS BEEN VERY QUIET DURING THIS PERIOD.

B. FORECAST FOR THE PERIOD 18-24 DECEMBER 1969--

CLASS M EVENTS WILL CONTINUE FROM MCMATH REGIONS 477 AND 478 AT A MODERATE RATE THROUGHOUT THE PERIOD.

28-DAY FORECAST FOR THE PERIOD 18 DECEMBER 1969-14 JANUARY 1970--  
ACTIVITY WILL BE LOW FROM 26 DECEMBER-03 JANUARY BUT WILL BE ENHANCED THE LAST 10 DAYS OF THE PERIOD DUE TO THE RETURN OF THE ACTIVE CARRINGTON LONGITUDE OF L80 /MCMATH REGION 432/.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 17/1700Z ENDING 20/1700Z.

CLASS M OR GREATER 70/70/70

CLASS X 10/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 147. PREDICTED 150/155/158.

E. MAGNETIC A-FREDERICKSBURG FOR 16 DEC WAS 08. FOR 17 DEC ABOUT 04. PREDICTED AP FOR 18-20 DEC 10/12/15.

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