

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
VIA AGIWARN

SPACE DISTURBANCE FORECAST NUMBER 373A ISSUED 1700Z
DECEMBER 09 1966

A. MAJOR FLARE POTENTIAL INCREASED STILL FURTHER TODAY WITH THE
RAPID DEVELOPMENT OF THE REGION AT S22E21. THIS REGION IS NOW
LARGE AND COMPLEX IN BOTH PLAGE AND SUNSPOT STRUCTURE. IT
IS THE MOST IMPORTANT REGION IN THE SOUTH THUS FAR THIS CYCLE.
THIS REGION IS LIKELY TO PRODUCE MAJOR FLARES WITHIN 48 HOURS.
IN ADDITION, FLARE POTENTIAL REMAINS MODERATELY HIGH IN THE REGION
AT N22E50 ALTHOUGH THE SPOT STRUCTURE IS NOT AS COMPLEX AS
ANTICIPATED TODAY. MAJOR DEVELOPMENT HAS ALSO OCCURRED IN A SUNSPOT
GROUP AT N27²⁰E²⁰W²⁰ WHICH HAS GROWN FROM AN AREA OF 10 YESTERDAY
AT 1500Z TO AN AREA OVER 100 MILLIONTHS TODAY. ITS STRUCTURE IS
SIMPLE AND IT IS NOT EXPECTED TO PRODUCE FLARES LARGER THAN
IMPORTANCE ONE. THE 2800 MHZ FLUX HAS RISEN DRAMATICALLY.
IMPORTANCE ONE FLARES OCCURRED YESTERDAY AT 0900Z/N28E34
1923Z/N24E65 AND 2334Z/N10W70. THE LAST WAS IN A DEVELOPING
REGION NOW PASSING OFF WEST LIMB. SEVERAL SUBFLARES AND AN
IMPORTANCE ONE FLARE AT 0307Z HAVE BEEN REPORTED TODAY ALL FROM
THE LARGE REGION AT N22E50.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE
THREE DAY PERIOD DECEMBER 10-12 ARE AS FOLLOWS/FIGURES
ARE PERCENTAGES FOR EACH OF THE THREE DAYS/
IMPORTANCE ONE OR GREATER 100/100/100
IMPORTANCE TWO OR GREATER 50/60/70
IMPORTANCE THREE OR GREATER 10/15/20
PROTON EVENTS 10/15/15

C. THE OTTAWA 10.7 CM FLUX TODAY IS EXPECTED TO BE ABOUT 141.
PREDICTED VALUES FOR THE THREE DAY PERIOD DECEMBER 10-12
ARE 145/147/149.

D. THE FREDERICKSBURG MAGNETIC INFORMATION WILL BE INCLUDED
ON THE 2300Z FORECASTM

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

VIA AGIWARN

SPACE DISTURBANCE FORECAST NUMBER 373B ISSUED 2300Z

DECEMBER 09 1966

A. AN IMPORTANCE TWO FLARE OCCURRED TODAY AT 1758Z IN THE LARGE REGION AT N21E48. THE FLARE WAS ACCOMPANIED BY STRONG X-RAYS AND MODERATE RADIO EMISSION. THE SUNSPOTS IN THIS REGION CONTINUE TO GROW IN AREA AND COMPLEXITY. ITS AREA IS NOW APPROACHING 500 MILLIONTHS. MAJOR FLARES ARE EXPECTED TO CONTINUE IN THIS REGION. PROTON EMISSION FROM THIS REGION WILL BECOME MORE LIKELY IF THE PRESENT TREND TOWARD MORE COMPLEX STRUCTURE CONTINUES. SUBFLARES ARE BEGINNING TO OCCUR IN THE DEVELOPING REGION AT S22E17. ADDITIONAL GROWTH HAS TAKEN PLACE HERE SINCE 1630Z. THIS IS ALSO A LIKELY SITE FOR MAJOR FLARES IN THE NEXT TWO OR THREE DAYS. A SMALL SURGE AT N19 E LIMB INDICATES THAT A SMALL REGION WILL APPEAR TOMORROW.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD DECEMBER 10-12 ARE AS FOLLOWS/FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 70/75/80

IMPORTANCE THREE OR GREATER 15/20/25

PROTON EVENTS 10/15/15

C. THE OTTAWA 10.7 CM FLUX TODAY WAS 143. PREDICTED VALUES FOR THE THREE DAY PERIOD DECEMBER 10-12 ARE 147/150/152.

D. THE FREDERICKSBURG MAGNETIC A INDEX YESTERDAY WAS 2. TODAY IT WILL BE ABOUT 2. PREDICTED VALUES FOR THE THREE DAY PERIOD DECEMBER 10-12 ARE 4/7/7.

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