

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
VIA AGIWARN

SPACE DISTURBANCE FORECAST NUMBER 378A ISSUED 1700Z

DECEMBER 14 1966

A. SOLAR ACTIVITY IS DECLINING AS THE TWO LARGE REGIONS  
AT S22W45 AND N21W15 ARE DECAYING. THE SUNSPOT AREAS IN BOTH  
REGIONS HAVE DROPPED SUBSTANTIALLY. A LARGE BRIGHT IMPORTANCE  
ONE OR POSSIBLY IMPORTANCE TWO FLARE OCCURRED YESTERDAY  
AT 2303Z IN THE LARGE BRIGHT PLAGE NEAR N20E55. THE SUNSPOTS  
HERE CONTINUE SMALL BUT THEIR EVOLUTION HAS BEEN PECULIAR  
AND THE PLAGE STRUCTURE IS DESCRIBED AS INTERESTING. THIS  
REGION MAY HAVE THE GREATEST FLARE POTENTIAL FOR THE NEXT  
FEW DAYS. A NEW GROUP HAS FORMED AT N13W02 AND APPEARS LIKELY TO  
DEVELOP INTO AN ACTIVE REGION BY 16 DECEMBER. CORONAL  
OBSERVATIONS AT NE LIMB INDICATE THAT THE RETURNING REGION  
IS MINOR.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE  
THREE DAY PERIOD DECEMBER 15-17 ARE AS FOLLOWS/FIGURES ARE  
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 40/30/30

IMPORTANCE THREE OR GREATER 5/5/2

PROTON EVENTS 5/5/2

C. THE OTTAWA 10.7 CM FLUX TODAY IS EXPECTED TO BE ABOUT 151.  
PREDICTED VALUES FOR THE THREE DAY PERIOD DECEMBER 15-17  
ARE 144/138/135.

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

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
VIA AGIWARN

ALCON

SPACE DISTURBANCE FORECAST NUMBER 378B ISSUED 2300Z  
DECEMBER 14 1966

- A. THE PROBABILITY OF MAJOR FLARES IS DECREASING. THE  
SUNSPOT GROUPS AT N21W18 AND S22W48 ARE DECLINING IN BOTH  
SIZE AND SPOT COUNT. THE N21W18 REGION PRODUCED AN  
IMPORTANCE ONE FLARE AT 0126Z TODAY. NO FLARES OF THIS  
SIZE OR LARGER HAVE BEEN REPORTED SINCE THEN. SLOW  
GROWTH IS OCCURING IN REGIONS AT N14W05 AND N18E35.
- B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE  
THREE DAY PERIOD DECEMBER 15-17 ARE AS FOLLOWS/FIGURES ARE  
PERCENTAGES FOR EACH OF THE THREE DAYS/  
IMPORTANCE ONE OR GREATER 100/100/100  
IMPORTANCE TWO OR GREATER 40/30/20  
IMPORTANCE THREE OR GREATER 5/2/2  
PROTON EVENTS 5/2/2
- C. THE OTTAWA 10.7 CM FLUX TODAY WAS 154. PREDICTED VALUES  
FOR THE THREE DAY PERIOD DECEMBER 15-17 ARE 145/138/135.
- D. THE FREDERICKSBURG MAGNETIC A INDEX YESTERDAY WAS 15.  
TODAY IT WILL BE ABOUT 25. PREDICTED VALUES FOR THE THREE  
DAY PERIOD DECEMBER 15-17 ARE 25/12/6.

BT