

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
VIA AGIWARN

SPACE DISTURBANCE FORECAST NUMBER 376A ISSUED 1700Z

DECEMBER 12 1966

A. THE SUNSPOTS AT N21E11 ARE AGAIN GROWING AND FORM A GAMMA
MAGNETIC CONFIGURATION. THERE ARE NO DELTA CONFIGURATIONS YET.

MAJOR FLARES ARE EXPECTED TO CONTINUE FROM THIS REGION. AN
IMPORTANCE ONE FLARE OCCURRED HERE AT ABOUT 1242Z TODAY.

THE SUNSPOTS AT S22W18 HAVE GROWN SLIGHTLY SINCE YESTERDAY
AND FORM A GROUP OF OVER 700 MILLIONTHS. THE MAGNETIC
STRUCTURE IS BETA. DESPITE ITS SIZE IT IS EXPECTED TO BE LESS
ACTIVE THAN THE REGION AT N21E11, UNLESS IT UNDERGOES A
SIGNIFICANT CHANGE IN MAGNETIC STRUCTURE. A LARGE BRIGHT
PLAGE AT N18E60 IS ACCOMPANIED BY BRIGHT CORONA BUT
HAS ONLY A SMALL SIMPLY STRUCTURED SPOT GROUP. THIS REGION
MAY BECOME ACTIVE.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE
THREE DAY PERIOD DECEMBER 13-15 ARE AS FOLLOWS/FIGURES ARE
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 70/70/70

IMPORTANCE THREE OR GREATER 15/15/15

PROTON EVENTS 15/20/20

C. THE OTTAWA 10.7 CM FLUX TODAY IS EXPECTED TO BE ABOUT 161.
PREDICTED VALUES FOR THE THREE DAY PERIOD DECEMBER 13-15
ARE 162/164/164.

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

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
VIA AGIWARN

SPACE DISTURBANCE FORECAST NUMBER 376B ISSUED 2300Z

DECEMBER 12 1966

A. FLARE ACTIVITY HAS BEEN LIMITED TO SUBFLARES SINCE 1242Z. THE SUNSPOTS IN THE SW APPEAR TO BE DECLINING IN NUMBER AND AREA BUT THE HYDROGEN ALPHA STRUCTURE IS STILL CHARACTERISTIC OF A MAJOR REGION. THE PLAGE HAS BEEN FLUCTUATING ALL DAY AND HAS PRODUCED SEVERAL BRIGHT SUBFLARES. THE SPOTS AT N21 NEAR CENTRAL MERIDIAN HAVE CHANGED LITTLE DURING THE DAY. THE UMBRAE REMAIN DARK AND THE ASSOCIATED PLAGE HAS BEEN EXCEPTIONALLY BRIGHT ALL DAY. MAJOR FLARES ARE EXPECTED FROM BOTH REGIONS. NO CHANGE HAS BEEN OBSERVED IN THE LARGE BRIGHT REGION NEAR NE LIMB. ADDITIONAL SMALL REGIONA ARE EXPECTED TO RETURN TO NE LIMB DURING THE NEXT THREE DAYS.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD DECEMBER 13-15 ARE AS FOLLOWS/FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 70/70/70

IMPORTANCE THREE OR GREATER 15/15/15

PROTON EVENTS 15/15/15

C. THE OTTAWA 10.7 CM FLUX TODAY WAS 163. PREDICTED VALUES FOR THE THREE DAY PERIOD DECEMBER 13-15 ARE 164/160/155

D. THE FREDERICKSBURG MAGNETIC A INDEX YESTERDAY WAS 2. TODAY IT WILL BE ABOUT ZERO. PREDICTED VALUES FOR THE THREE DAY PERIOD DECEMBER 13-15 ARE 4/7/7.

BT