

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 487A ISSUED AT 1700Z  
APRIL 2 1967.

A. SIGNIFICANT SOLAR LIMB ACTIVITY IS OCCURRING WITH WEST LIMB PASSAGE OF REGIONS AT N20 AND S22. THE MOST SIGNIFICANT EVENT APPEARS TO BE AN IMPORTANCE 2 SURGE AND/OR FLARE AT 0810Z FROM THE SW. MODERATE X-RAY EMISSION FROM THIS EVENT WAS OBSERVED BY SATELLITE. ANOTHER IMPORTANCE 2 SURGE OCCURRED THERE AT ABOUT 1320Z AND LESSER SURGES WERE REPORTED AT 0135Z 0526Z 1118Z 1519Z AND 1647Z. AN IMPORTANCE 2 FLARE WAS REPORTED BY A SINGLE STATION IN THIS REGION AT 1032Z YESTERDAY. THE MOST SIGNIFICANT EVENT AT NW LIMB WAS AN IMPORTANCE 1 FLARE OR SURGE AT 0413Z ACCOMPANIED BY MODERATE X-RAY EFFECTS. A LESSER EVENT OCCURRED THERE AT 0241Z. THERE ARE NUMEROUS TINY SPOT GROUPS IN THE NW QUADRANT AND TWO VERY SMALL GROUPS IN THE SW QUADRANT.

B. ALMOST CONTINUOUS LIMB-SURGE ACTIVITY IS EXPECTED FOR THE NEXT DAY IN THE NW AND ESPECIALLY THE SW LIMB REGIONS. NO FLARES EVEN AS LARGE AS IMPORTANCE 1 ARE EXPECTED FROM THE REGIONS ON THE DISK. NO SIGNIFICANT REGIONS ARE EXPECTED TO RETURN TO EAST LIMB DURING THE FORECAST PERIOD.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD APRIL 3-5 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/95/80

IMPORTANCE TWO OR GREATER 40/20/10

IMPORTANCE THREE OR GREATER 10/1/0

PROTON EVENTS 10/5/0

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 148.  
THE PREDICTED VALUES FOR APRIL 3-5 ARE 138/133/130.

E. THE MAGNETIC INFORMATION WILL BE INCLUDED ON THE 2300Z FORECAST.

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 487B ISSUED AT 2300Z  
APRIL 2 1967.

A. ALMOST CONTINUOUS SURGE ACTIVITY HAS BEEN TAKING PLACE  
AT BOTH 21NW LIMB AND 24SW LIMB. LARGE IMPORTANCE 2  
SURGES CMMA POSSIBLY ERUPTING FROM MAJOR FLARES BEYOND  
THE LIMB CMMA OCCURRED AT 1715Z AND 1934Z FROM THE SW  
REGION. BOTH PRODUCED MODERATELY STRONG IONOSPHERIC DIS-  
TURBANCES AND THE LATTER PRODUCED MODERATE RADIO BURSTS  
FROM 10 TO 606 MHZ. A POSSIBLE TYPE FOUR RADIO EVENT  
TOOK PLACE IN THE 24-41 MHZ RANGE. OTHER DISTINCT EVENTS  
WERE RECORDED AS IONOSPHERIC DISTURBANCES AT 1809Z 1902Z  
2053Z AND 2137Z. A COMPLEX RADIO BURST AT 606 MHZ COIN-  
CIDED WITH A CLUSTER OF FAST-DRIFT BURSTS AT 2240Z ON 24-  
41 MHZ. BRIGHT YELLOW CORONA IS OBSERVED WITH THE NW LIMB  
REGION AND FAINT YELLOW CORONA WITH THE SW LIMB. BRIL-  
LIANT GREEN CORONA COVERS A 20 DEGREE ARC AT NE LIMB. NO  
DISK ACTIVITY HAS BEEN REPORTED.

B. SOLAR ACITIVITY IS EXPECTED TO DIMINISH RAPIDLY AS  
THE TWO WEST-LIMB REGIONS COMPLETE THEIR LIMB PASSAGE.  
10.7 CM FLUX HAS ALREADY REFLECTED THE LOSS OF PART OF  
THESE REGIONS. THE CORONA AT NE LIMB INDICATES THAT AN  
IMPORTANT REGION OR SERIES OF REGIONS MAY APPEAR AT EAST  
LIMB DURING THE NEXT FEW DAYS. NO PROTONS ARE EXPECTED  
SINCE THE STRENGTH AND FREQUENCY RANGE OF RADIO EMISSION  
WERE NOT LARGE.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE  
THREE DAY PERIOD APRIL 3-5 ARE AS FOLLOWS /FIGURES ARE  
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/90/90

IMPORTANCE TWO OR GREATER 25/5/5

IMPORTANCE THREE OR GREATER 5/0/0

PROTON EVENTS 10/2/0

D. THE OTTAWA 10.7 CM FLUX TODAY IS 141. THE PREDICTED  
VALUES FOR APRIL 3-5 ARE 133/128/128.

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 15.  
TODAY IT WILL BE ABOUT 13. THE PREDICTED AP VALUES FOR  
APRIL 3-5 ARE 10/15/30.

BT