

NNNNKHZFROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 477A ISSUED AT 1700Z  
MARCH 23 1967

A. FIVE APPARENTLY SEPARATE SPOT GROUPS ARE NOW VISIBLE  
BETWEEN E36 AND E74 IN THE LATITUDE RANGE N17 TO N27. THE  
LARGEST COMPONENT OF THIS CLUSTER OF SPOT GROUPS IS THE  
CLASS H GROUP OF 520 MILLIONTHS AREA AT N22E36. IT IS  
FOLLOWED AT N20E51 BY A CLASS D SPOT GROUP WITH AREA ABOUT  
240 MILLIONTHS. THE REMAINING GROUPS ARE ALL SMALLER.  
THE CALCIUM PLAGE ASSOCIATED WITH THE CLUSTER OF SPOT  
GROUPS IS LARGE AND BRIGHT AND THE REGION IS ALSO BRIGHT  
AT 9.1 CM. THE LAST MAJOR FLARE REPORTED FROM THIS REGION  
WAS THE 22/0022Z FLARE WHICH HAS BEEN UPGRADED TO A BRIGHT  
IMPORTANCE THREE. ALL OTHER VISIBLE REGIONS ARE OF MINOR  
INTEREST.

B. OCCASIONAL MAJOR FLARES ARE EXPECTED FROM THE NORTHEAST  
REGION.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE  
THREE DAY PERIOD MARCH 24-26 ARE AS FOLLOWS /FIGURES ARE  
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 40/40/40

IMPORTANCE THREE OR GREATER 15/15/15

PROTON EVENTS 10/10/10

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 155.  
THE PREDICTED VALUES FOR MARCH 24-26 ARE 162/166/168.

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

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 477B ISSUED AT2300Z  
MARCH 23 1967

. A AN IMPORTANCE 2 FLARE WAS REPORTED AT 1925Z NEAR THE  
LARGE H-TYPE SPOT AT N22 E45. IT WAS PRECEDED BY AN  
IMPORTANCE 1 FLARE AT THE SAME LOCATION AT 1858Z. THE  
LARGE FLARE WAS ACCOMPANIED BY A SHORT-LIVED TYPE IV  
BURST AT LOW FREQUENCIES.

B. MAJOR FLARES ARE LIKELY IN ASSOCIATION WITH  
THE CLUSTER OF SUNSPOT GROUPS IN THE NE QUADRANT. THEY  
ARE EXPECTED TO OCCUR AT A RATE OF LESS THAN ONE PER  
DAY. CONTINUED DEVELOPMENT OF SPOTS NOW NEAR N20  
E47 AND RETURNING REGION ON 25-26 MARCH SHOULD CAUSE  
AN OVERALL INCREASE IN SOLAR ACTIVITY INDICES.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE  
THREE DAY PERIOD MARCH 24-26 ARE AS FOLLOWS /FIGURES ARE  
PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 40/40/40

IMPORTANCE THREE OR GREATER 15/15/15

PROTON EVENTS 10/10/10

D. THE OTTAWA 10.7 CM FLUX TODAY IS 151. THE PREDICTED  
VALUES FOR MARCH 24-26 ARE 158/163/168

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 4.  
TODAY IT WILL BE ABOUT 1. THE PREDICTED AP VALUES FOR  
MARCH 24-26 ARE 25/30/10

BT