

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 499A ISSUED AT 1700Z  
APRIL 14 1967

A. ONLY SUBFLARES HAVE BEEN REPORTED TODAY. ALL  
VISIBLE SPOT GROUPS ARE STABLE AND RELATIVELY SMALL.  
PLAGE OF MODERATE BRIGHTNESS IS VISIBLE TODAY AT THE  
NORTHEAST LIMB. IT MAY BE ASSOCIATED WITH THE REGION  
EXPECTED TO RETURN THERE TOMORROW. A WEAK SOURCE  
OF 9.1 CM RADIO EMISSION EXISTS OVER THE SOUTHEAST  
LIMB.

B. SOLAR ACTIVITY DURING THE FORECAST PERIOD SHOULD BE  
CONCENTRATED IN THE REGIONS RETURNING IN BOTH THE NORTH  
AND SOUTH. IT IS YET TOO EARLY TO ESTIMATE THE  
LEVEL OF ACTIVITY.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE  
THREE DAY PERIOD APRIL 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 10/15/20  
IMPORTANCE THREE OR GREATER 1/2/2  
PROTON EVENTS 1/1/1

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 130.  
THE PREDICTED VALUES FOR APRIL 15-17 ARE 136/145/152

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

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SPACE DISTURBANCE FORECAST NUMBER 499B ISSUED AT 2300Z  
APRIL 14 1967

A. AN IMPORTANCE ONE FLARE OCCURRED AT ABOUT 1710Z  
IN THE REGION NOW AT N24 W68 ACCOMPANIED BY MODERATE  
RADIO EMISSION AND IONOSPHERIC EFFECTS. IMPORTANCE  
ONE LOOP PROMINENCES WERE OBSERVED BETWEEN 1650Z AND  
ABOUT 1800Z AT THE SW LIMB. A SPOT GROUP AT N12 W65  
IS SHOWING SIGNS OF DEVELOPING AND THE ASSOCIATED PLAGE  
IS BRIGHT. NEW TINY SPOTS HAVE APPEARED SINCE 1500Z AT  
S20 E01 AND S14 E07. IONOSPHERIC EFFECTS AT 1925Z  
INDICATED THE POSSIBLE OCCURRENCE OF A FLARE.  
WEATHER CONDITIONS INTERFERRED WITH OPTICAL OBSERVATIONS  
AT THAT TIME.

B. SMALL FLARE AND SURGE ACTIVITY IS EXPECTED DURING  
THE WEST LIMB PASSAGE OF REGIONS AT N24 AND N12 DURING  
THE NEXT TWO DAYS. LARGER FLARES MAY BE POSSIBLE  
AFTER EAST LIMB APPEARANCE OF REGIONS DUE TO RETURN  
ON THE 16TH AT N22 AND S21. THESE REGIONS PRODUCED  
NUMEROUS FLARES AND BRIGHT CORONA AT WEST LIMB PASSAGE.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE  
THREE DAY PERIOD APRIL 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 10/15/20

IMPORTANCE THREE OR GREATER 0/1/2

PROTON EVENTS 0/1/1

D. THE OTTAWA 10.7 CM FLUX TODAY IS 133. THE PREDICTED  
VALUES FOR APRIL 15-17 ARE 140/150/157

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 2.  
TODAY IT WILL BE ABOUT 1. THE PREDICTED AP VALUES FOR  
APRIL 15-17 ARE 2/1/1