

FORM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO VIA AGIWARN  
TRIAL SPACE DISTURBANCE FORECAST NUMBER ~~250~~<sup>22</sup> SEPTEMBER 19 1966

A. THE TWO LARGE SUNSPOT GROUPS AT N08 W02 AND N21 E21 CONTINUE TO DEVELOP. BOTH CONTAIN MAGNETIC DELTA CONFIGURATIONS AS INFERRED FROM THE SUNSPOT STRUCTURES. THE CHANGES IN THESE REGIONS ALONG WITH THE INCREASE IN 10.7 CM RADIO NOISE FLUS REQUIRES CONTINUATION FO THE ALERT FOR MAJOR FLARES. THE SPOT GROUP AT N21 E21 PRODUCED A CLASS 2 FLARE AT 1210Z AND A CLASS ONE FLARE AT 1800Z. THE REGION NOW AT NORTH WEST LIMB PRODUCED AN INTENSITY TWO SURGE AT 1520Z WHICH HAS ASSOCIATED FLARE LIKE X RAY AND RADIO EMISSION EVENTS. YELLOW CORONA IS OBSERVED OVER THIS REGION TODAY INDICATING EXCEPTIONALLY HIGH CORONAL TEMPERATURES. GREEN CORONAL EMISSION AT THE EAST LIMB CONTINUES BRIGHT WITH MAXIMA AT N24 AND N35.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD SEPTEMBER 20/22 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE FLARES 100/100/100  
IMPORTANCE TWO FLARES 90/90/90  
IMPORTANCE THREE FLARES 50/50/50  
IMPORTANCE FOUR FLARES 10/10/10  
PROTON EVENTS 40/40/40

VERIFICATION-1  
100/100/?  
100/100/0  
100/0/0  
0/0/0  
0/0/0

C. THE OTTAWA 10.7 CM FLUS TODAY WAS 145. THE PREDICTIED VALUES FOR THE THREE DAY PERIOD SEPTEMBER 20/22 ARE 147/148/148 135/136/132

D. THE FREDERICKSBURG MAGNEITC A INDEX YESTERDAY WAS 4.

TODAY IT WILL BE ABOUT 10. THE PREDICTED VALUES FOR THE THREE DAY PERIOD SEPTEMBER 20/22 ARE 12/8/6 15/9/7