

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 457A ISSUED AT 1700Z

MARCH 3 1967

A. MAJOR GROWTH CONTINUES IN THREE SUNSPOT GROUPS AND TWO ADDITIONAL ACTIVE REGIONS HAVE APPEARED AT NE AND SE LIMB. THE SPOT GROUP AT N23 W57 CONTINUES TO BE THE LARGEST WITH AREA OF 1400 MILLIONTHS /CLASS F/. THE REGION CONTINUES TO BE MAGNETICALLY COMPLEX AND CONTAINS AN ACTIVE FILAMENT. MAJOR GROWTH HAS OCCURRED IN SPOT GROUPS AT BOTH N15 W25 AND S21 E20. BOTH ARE TYPE E AND CONTAIN ACTIVE FILAMENTS. THEIR AREAS ARE 620 AND 880 MILLIONTHS RESPECTIVELY. SIGNIFICANT GROWTH HAS ALSO OCCURRED IN THE SPOT GROUP AT N15 E24. A LARGE REGION AT N22 E80 IS BRIGHT AND PRODUCING FREQUENT BRIGHT SURGES. BRILLIANT CORONA IS ASSOCIATED WITH THIS LOCATION BUT THERE IS BUT A SMALL SPOT GROUP THERE. A LARGE TYPE D GROUP HAS APPEARED AT S18 E80. THE SUNSPOT NUMBER AT SACRAMENTO PEAK IS 441 CMMA ONE OF THE HIGHEST ON RECORD.

MAJOR FLARE ACTIVITY IS LIKELY FROM AT LEAST FOUR AND POSSIBLY SIX OF THE REGIONS NOW VISIBLE. THOSE WITH ACTIVE FILAMENTS AND LARGE AREAS MENTIONED ABOVE PLUS THE LARGE PLAGE NEAR NE LIMB ARE THE BEST CANDIDATES FOR FLARE ACTIVITY.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MARCH 4-6 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 80/80/80

IMPORTANCE THREE OR GREATER 40/40/40

PROTON EVENTS 25/25/25

C. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 202. THE PREDICTED VALUES FOR MARCH 4-6 XV ARE 210/218/220

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

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 457B ISSUED AT 2300Z

MARCH 3 1967

A. IMPROVED DATA FROM VISUAL SOLAR OBSERVATIONS INDICATES THAT THE REGIONS DISCUSSED IN SDF 457A ARE LESS ACTIVE THAN PREVIOUSLY REPORTED. THE SPOT GROUP AT N23 W65 IS NOW DEFINITELY DECLINING WITH AREA LESS THAN 1000 MILLIONTHS. A PROBABLE IMPORTANCE TWO FLARE OCCURRED THERE AT 0627Z AND THERE HAVE BEEN NUMEROUS LESSER FLARES. AN IMPORTANCE TWO FLARE AT 0929Z WAS REPORTED IN THE REGION AT N16 W22. THE SUNSPOT GROUP THERE IS VIRTUALLY UNCHANGED FROM YESTERDAY AS IS ALSO THE GROUP AT N16 E16. SOME GROWTH HAS OCCURRED IN THE SPOT GROUP AT S21 E12. VISUALLY THE REGION AT N23 E60 APPEARS TO BE OLD. THE REGION AT S17 E76 PRODUCED AN IMPORTANCE ONE FLARE AT 1802Z TODAY. ITS SPOT GROUP IS OF ABOUT 200 MILLIONTHS AREA BUT IT IS NOT KNOWN WHETHER IT IS GROWING OR DECAYING.

FLARES OF IMPORTANCE TWO OR GREATER MAY STILL BE EXPECTED FROM THE REGION AT N23 W65. FLARES OF UP TO IMPORTANCE TWO ARE POSSIBLE FROM THE REGIONS AT N15 W30 AND S17 E76.

B. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD MARCH 5-7 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/
IMPORTANCE ONE OR GREATER 100/100/100
IMPORTANCE TWO OR GREATER 70/70/50
IMPORTANCE THREE OR GREATER 20/15/5
PROTON EVENTS 10/10/10

C. THE OTTAWA 10.7 CM FLUX TODAY IS 203. THE PREDICTED VALUES FOR MARCH 5-7 ARE 200/195/185

D. THE FREDERICKSBURG MAGETIC A INDEX FOR YESTERDAY WAS 3. TODAY IT WILL BE ABOUT 6. THE PREDICTED AP VALUES FOR MARCH 5-7 ARE 10/10/10