

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 512A ISSUED AT 1700Z

APRIL 27 1967

A. A PROBABLE IMPORTANCE ONE FLARE OCCURRED AT 1605Z NEAR S20E85. REPORTED IMPORTANCE FOR THIS FLARE RANGED FROM SUBFLARE TO TWO BRIGHT. SURGE ACTIVITY ACCOMPANYING THE FLARE MAY ACCOUNT FOR THE DISPARITY IN THE REPORTED IMPORTANCE. THE FLARE PRODUCED MINOR IONOSPHERIC EFFECTS. ANOTHER POSSIBLE IMPORTANCE ONE FLARE WAS REPORTED FROM THE SAME REGION AT 0310Z AND NUMEROUS SUBFLARES HAVE BEEN OBSERVED THERE. A SMALL SUNSPOT GROUP IS NOW VISIBLE IN THIS REGION AT ABOUT S21E80, AND 9.1 CM EMISSION FROM THIS LOCATION HAS INCREASED. THE REMAINING SOLAR REGIONS APPEAR TO BE RELATIVELY STABLE AND INACTIVE.

B. MAJOR FLARES MAY OCCUR IN THE SOUTHEAST LIMB REGION HOWEVER THEY ARE NOT YET CONSIDERED LIKELY. ONLY MINOR ACTIVITY CAN BE EXPECTED FROM THE OTHER VISIBLE REGIONS.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD APRIL 28-30 ARE AS FOLLOWS/FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE TWO OR GREATER ~~100/100/100~~ 100/100/100

IMPORTANCE THREE OR GREATER ~~10/15/15~~ 1/1/1

PROTON EVENTS 1/1/1

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 139 THE PREDICTED VALUES FOR APRIL 28-30 ARE 135/140/143.

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

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FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 512B ISSUED AT 2300Z

APRIL 27 1967

A. THERE HAS BEEN NO ACTIVITY REPORTED SINCE THE FLARE AT 1604Z. AT LATEST REPORT THE REGION NEAR SOUTHEAST LIMB HAD NOT SHOWN INDICATIONS OF SIGNIFICANT GROWTH CMMA THOUGH THERE MAY STILL BE MORE TO THE REGION NOT YET VISIBLE. THE SUNSPOT GROUP AT S18 E29 HAS UNDERGONE SOME GROWTH AND NOW HAS AN AREA OF ABOUT 100 MILLIONTHS. A NEW REGION AT N32 W13 IS GROWING BUT IS STILL VERY SMALL. ALL OTHER REGIONS APPEAR STABLE.

B. MAJOR FLARES ARE NOT LIKELY AT THIS TIME. HOWEVER CMMA EITHER FURTHER DEVELOPMENTS IN THE REGION NEAR SOUTHEAST LIMB OR THE RETURN OF A PREVIOUSLY GROWING REGION IN THE NORTH ON APRIL 29 MAY INCREASE THESE PROBABILITIES.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD APRIL 28-30 ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 10/15/15

IMPORTANCE THREE OR GREATER 1/1/1

PROTON EVENTS 1/1/1

D. THE OTTAWA 10.7 CM FLUX TODAY IS 127. THE PREDICTED VALUES FOR APRIL 28-30 ARE 135/140/143

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 2. TODAY IT WILL BE ABOUT 1. THE PREDICTED AP VALUES FOR APRIL 28-30 ARE 3/3/5

-BT