

NNNNUUV

PP KGFF

DE BOU 220500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 597C ISSUED AT 0500Z

JULY 22 1967

MAJOR FLARES ARE POSSIBLE BUT NOT LIKELY DURING THE NEXT 12 HOURS.

BT

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PP KGFF

DE BOU 221100Z

HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 597D ISSUED AT 1100Z

JULY 22, 1967

MAJOR FLARES ARE POSSIBLE BUT NOT LIKELY DURING THE NEXT 12 HOURS.

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 598A ISSUED AT 1700Z

JULY 22 1967

(This line corrected) 221720Z

~~-91 10 43 43 398775 S74S, & 5#3, 3/5 12 HOURS~~

Major Flares Are Possible During The Next 12 Hours.

A. SOLAR ACTIVITY IS INCREASING SUBSTANTIALLY WITH THE APPEARANCE OF TWO MAJOR REGIONS AT NE LIMB. CONTINUOUS SURGE ACTIVITY WITH ASSOCIATED RADIO BURSTS ARE OCCURRING FROM A REGION AT N04 E88. NO SPOT GROUP HAS BEEN REPORTED THERE SO FAR. NO X-RAY BURSTS HAVE BEEN ASSOCIATED WITH THE OPTICAL AND RADIO ACTIVITY. A TYPE F SPOT GROUP OF 690 MILLIONTHS AREA IS LOCATED AT N26 E78. THE ASSOCIATED PLAGE IS NOT EXCEPTIONALLY BRIGHT AND IT HAS PRODUCED ONLY MINOR FLARES DURING THE LAST TWO DAYS. AN IMPORTANCE ONE FLARE WAS REPORTED AT 0005Z TODAY FROM A REGION AT S22 E23.

THE ASSOCIATED SPOT GROUP IS VERY SMALL. ALL OTHER VISIBLE REGIONS ARE SMALL AND INACTIVE.

B. THE LARGE SPOT GROUP IN THE NE INDICATES POTENTIAL FOR MAJOR FLARES BUT THE OBSERVED ACTIVITY THERE HAS BEEN MINOR. EVEN GREATER POTENTIAL MAY EXIST IN THE REGION JUST APPEARING AT N04. IMPORTANCE ONE FLARES ARE CERTAIN TO OCCUR, BUT LARGER FLARES MAY NOT BE LIKELY.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD 23-25 JULY ARE AS FOLLOWS /FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 20/22/25

IMPORTANCE THREE OR GREATER 5/5/5

D. PROTON EVENTS 5/7/10

D. THE OTTAWA 10.7 CM FLUX TODAY IS ESTIMATED TO BE 150.

THE PREDICTED VALUES FOR JULY 23-25 ARE 158/162/166.

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SPACE DISTURBANCE FORECAST NUMBER 598B ISSUED AT 2300Z,

JULY 22 1967

MAJOR FLARES POSSIBLE DURING THE NEXT 12 HOURS.

A. ADDITIONAL BRIGHT SUBFLARES AND SURGES HAVE BEEN REPORTED FROM THE LARGE REGIONS NOW AT N26 E75 AND N04 E LIMB. THE LAST REGION IS NOW MARKED BY A LARGE SUNSPOT OF AT LEAST 300 MILLIONTHS AREA. REPORTS RECEIVED SINCE THE PREVIOUS FORECAST INDICATE THAT STRONG X-RAY EMISSION HAS ACCOMPANIED MUCH OF THE LIMB ACTIVITY. THE STRONGEST SUCH EVENTS APPEAR TO BE THOSE AT 1418Z 1651Z AND 1908Z. PIONEER DEEP SPACE PROBES HAVE DETECTED INCREASES IN LOW ENERGY COSMIC RAYS ON JULY 8, 11, AND 1, PRESUMABLY FROM THE FIRST REGION WHILE IT WAS ON THE FAR SIDE OF THE SUN.

B. PROXIMITY TO THE LIMB STILL PRECLUDES FULL EVALUATION OF FLARE POTENTIAL OF EITHER OF THE ABOVE REGIONS. BOTH HAVE BEEN PRODUCING NUMEROUS SMALL FLARES, BOTH LIE IN LONGITUDES FAVORABLE FOR PROTON EMISSION, AND THE N26 E75 SPOT GROUP HAS THE SIZE AND COMPLEXITY NECESSARY FOR MAJOR FLARES. ADDITIONAL REGIONS WILL RETURN TO EAST LIMB IN BOTH THE NORTH AND THE SOUTH DURING THE FORECAST PERIOD.

C. THE PROBABILITIES FOR FLARES AND PROTON EVENTS FOR THE THREE DAY PERIOD JULY 23-25 ARE AS FOLLOWS/FIGURES ARE PERCENTAGES FOR EACH OF THE THREE DAYS/

IMPORTANCE ONE OR GREATER 100/100/100

IMPORTANCE TWO OR GREATER 20/22/25

IMPORTANCE THREE OR GREATER 5/7/7

PROTON EVENTS 5/7/10

D. THE OTTAWA 10.7 CM FLUX TODAY IS 148. THE PREDICTED VALUES FOR JULY 23-25 ARE 158/164/170

E. THE FREDERICKSBURG MAGNETIC A INDEX FOR YESTERDAY WAS 6. TODAY IT WILL BE ABOUT 5. THE PREDICTED AP RANGES FOR JULY 23-25 ARE 5-15/UNDER 10/UNDER 10.