

NNNNUUUV

PP KGFF

DE BOU 180500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 624C ISSUED AT 0500Z AUGUST 18, 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

IMPORTANCE 2B FLARE N09 W15 0027Z

A FLARE ON THE FAR SIDE OF EAST LIMB AT APPROXIMATELY 0224Z
OBSERVED ONLY AS A BRIGHT SURGE AT N15 E90, PRODUCED MAJOR
COMPLEX RADIO BURSTS AT DECIMETER WAVE LENGTHS. MODERATE
IONOSPHERIC EFFECTS ALSO ACCOMPANIED THE EVENT.

REVISED PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE 2 OR GREATER 35/45/55

IMPORTANCE 3 OR GREATER 5/10/15

PROTON EVENTS 5/10/10

BT

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DE BOU 181100Z

HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 624D ISSUED 1100Z AUGUST 18, 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 625A ISSUED AT 1700Z AUGUST 18 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

A. A BRIGHT IMPORTANCE TWO FLARE ACCCOMPANIED BY MODERATE IONOSPHERIC AND RADIO EMISSION EFFECTS WAS OBSERVED IN THE N09 W23 REGION AT 18/0027Z. THIS REGION IS NOW THE BRIGHTEST ON THE VISIBLE DISK APPROACHING FLARE BRIGHTNESS IN HYDROGEN LIGHT AND POSSESSING CONSIDERABLE FINE STRUCTURE. THE SPOT GROUP THERE HAS GROWN RAPIDLY AND IS NOW E/320. A MODERATELY INTENSE 10 CM RADIO NOISE OUTBURST AND STRONG IONOSPHERIC X-RAY EFFECTS AT 18/0224Z WERE EVIDENTLY PRODUCED BY A MAJOR FLARE EVENT BEYOND THE SOLAR EAST LIMB AT N15. THE ONLY VISIBLE EVIDENCE OF THE FLARE WAS A BRIGHT SURGE OBSERVED ABOVE THE LIMB. THIS LOCATION IS NEAR THAT OF EXPECTED RETURNING REGIONS IN WHICH ALMOST CONTINUOUS MINOR ACTIVITY OCCURRED DURING LAST DISK PASSAGE. AT 18/1600Z THE REGION WAS JUST BECOMING VISIBLE AND CONSIDERABLE CORONAL ACTIVITY WAS PRESENT ABOVE THE LIMB. THE ABSENCE OF STRONG RADIO AND VISIBLE CORONAL EMISSION FROM THIS REGION PRIOR TO ITS LIMB APPEARANCE INDICATES THAT IT MAY BE A NEW DEVELOPMENT.

B. THE EVIDENCE AVAILABLE SO FAR OF THE NORTHEAST LIMB REGION INDICATES IT MAY BE A MAJOR FLARE ACTIVE REGION.

ADDITIONAL LARGE FLARES PRODUCING INTENSE IONOSPHERIC EFFECTS AND RADIO NOISE ARE EXPECTED FROM IT. THIS REGION MAY BE A PROTON PRODUCER. MAJOR FLARES ARE ALSO LIKELY FROM THE N09 W23REGION.

FORECASTS FOR AUGUST 19-21

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS IMPORTANCE TWO OR GREATER 50/60/60

IMPORTANCE THREE OR GREATER 10/15/15

PROTON EVENTS 5/5/10

D. OTTAWA 10.7 CM FLUX TODAY 153. PREDICTED 163/171/175

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 625B ISSUED 2300Z

MAJOR FLARES ARE LIKELY DURING THE NEXT 12 HOURS.

A. THE REGION AT NORTHEAST LIMB CONTINUES TO PRODUCE FREQUENT LIMB EVENTS MANY OF WHICH MUST BE ASSOCIATED WITH FLARES ON OR BEYOND THE LIMB. AT ABOUT 18/2120Z A LARGE SURGE THERE COINCIDED WITH THE BEGINNING OF LARGE IONOSPHERIC AND RADIO EMISSION EVENTS. A SHORT TIME LATER A FLARE WAS OBSERVED NEAR THE BASE OF THE SURGE. OBSERVED AT THE LIMB ITS IMPORTANCE CAN NOT BE DETERMINED BUT IT IS CONSIDERED TO HAVE BEEN LARGE. LOOP TYPE PROMINENCE STRUCTURES WERE OBSERVED IN THE REGION BOTH BEFORE AND FOLLOWING THE 2120Z EVENT. A SIMILAR SURGE EVENT IS BEGINNING AT 18/2220Z. A QUESTIONABLE REPORT WAS RECEIVED OF AN IMPORTANCE 2B FLARE AT 1951Z IN THE SAME NORTHEAST LIMB REGION. THE REGION AT N09W27 CONTINUES TO BE BRIGHT AND ACTIVE-APPEARING BUT NO FURTHER SIGNIFICANT ACTIVITY HAS BEEN REPORTED SINCE SDF625A.

B. CONTINUED MAJOR FLARE ACTIVITY IS EXPECTED FROM THE NORTHEAST LIMB REGION AS IT ROTATES ONTO THE DISK. THE OBSERVATION OF LOOPS SUGGESTS THE POSSIBILITY OF PROTONS FROM THE NORTHEAST LIMB ACTIVITY.

— FORECASTS FOR AUGUST 19-21

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS IMPORTANCE TWO OR GREATER 75/80/80

IMPORTANCE THREE OR GREATER 15/20/20

PROTON EVENTS 10/10/15

D. OTTAWA 10.7 CM FLUX TODAY 153. PREDICTED 165/173/180.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 16. TODAY ABOUT 14.

PREDICTED AP 12-18/8-12/8-12.

BT