

NNNNUUUV
PP KGFF
DE BOU 170500Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 746C ISSUED 0500Z DEC 17 1967
MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.
BT

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PP KGFF
DE BOU 171100Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 746D ISSUED 1100Z DEC 17 1967
MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.
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PP KGFF
DE BOU 171740Z
THIS IS THE MESSAGE FOR REFILE

ESSA/SPACE DISTURBANCE
FORECAST CENTER
DEC 17 17 49 207

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 747A ISSUED 1700Z DECEMBER 17 1967
MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS
A. NO MAJOR FLARES HAVE BEEN REPORTED BUT MINOR FLARES HAVE
BEEN FREQUENT OCCURRING MOSTLY IN THE LARGE REGION AT N20 W06.
THERE HAVE BEEN IMPORTANCE ONE FLARES REPORTED THERE AT 0441Z
0637Z 0835Z AND 1621Z ALL WITH MODERATE IONOSPHERIC EFFECTS AND
RADIO EMISSION. THE SPOT GROUP THERE HAS EXTENDED TO TYPE E
IN LENGTH WITH NEARLY 100 SPOTS BUT THE AREA AND COMPACTNESS
OF THE GROUP HAS DECLINED SOMEWHAT. SEVERE WINTER WEATHER
CONTINUES TO LIMIT OBSERVATIONS AND MAKES IT DIFFICULT TO ASSESS
THE EVOLUTION OF THIS IMPORTANT REGION. SIGNIFICANT GROWTH
CONTINUES IN THE REGION AT N25 W42 BUT IT IS NOT LIKELY TO
BECOME A MAJOR REGION. THE WEAK PROTON EVENT WAS STILL EVIDENT
AT 0430Z. RADIO FLUX AT 10 CM HAS RISEN VERY SHARPLY TO 203.
B. MAJOR FLARES ARE STILL EXPECTED FROM THE NORTH CENTRAL REGION
BUT THE NUMBER OF SUCH EVENTS MAY BE SMALL.

FORECASTS FOR DECEMBER 18-20

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 60/55/50
IMPORTANCE THREE OR GREATER 20/10/10
PROTON EVENTS 3/3/3

D. OTTAWA 10.7 CM FLUX TODAY AT 1400Z IS 203. NO READING
POSSIBLE AT 1700Z. PREDICTED DEC 18-20 190/190/190.
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PP KGFF
DE BOU 172305Z
THIS IS THE MESSAGE FOR REFILE

ESSA/SPACE DISTURBANCE
FORECAST CENTER

DEC 17 23 35 67

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 747B ISSUED 2300Z DECEMBER 17 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

A. A MAJOR SOLAR FLARE AT 1836Z WAS INDICATED BY A STRONG
IONOSPHERIC DISTURBANCE AND STRONG RADIO CONTINUUM AT 1843 TO 1908.
SIGNIFICANT RADIO EMISSION OCCURRED AT ALL FREQUENCIES. CLOUDS
PREVENTED OPTICAL OBSERVATIONS UNTIL 1854 WHEN A FLARE OF AT LEAST
IMPORTANCE ONE WAS SIGHTED THROUGH HEAVY OVERCAST. IT WAS LOCATED
NEAR N20 W06 IN A COMPLEX SUNSPOT GROUP WHICH IS NOW CLASS E/450
AREA WITH NEARLY 100 SPOTS. AS OF 2200Z THE REGION WAS FLUCTUATING
AND HAD COMPLEX PLAGE RIBBONS OF NEAR FLARE BRIGHTNESS. A SMALLER
BRIGHT AND FLUCTUATING PLAGE INDICATES FURTHER GROWTH IS OCCURRING
AT N26 W45 WHERE A CLASS D/130 AREA SPOT GROUP IS LOCATED. ALL
OTHER REGIONS ON THE VISIBLE SUN ARE OF LITTLE SIGNIFICANCE. A
WEAK PROTON EVENT IS STILL BEING OBSERVED BY ANCHORAGE RECEIVERS.
B. FURTHER GROWTH IN BOTH PLAGE AND SUNSPOTS APPEARS LIKELY IN THE
NORTH CENTRAL REGION. IT EVEN NOW APPEARS CAPABLE OF PRODUCING AN
IMPORTANCE 3 FLARE. IMPORTANCE 1 FLARES ARE LIKELY IN THE REGION AT
N26 W45. A MAGNETIC STORM IS LIKELY BY DECEMBER 20 AS A RESULT OF
THE EVENT AT 1836Z TODAY.

FORECASTS FOR DEC 18-20

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 80/80/80
IMPORTANCE THREE OR GREATER 35/40/40
PROTON EVENTS 5/7/10

D. OTTAWA 10.7 CM FLUX TODAY 204. PREDICTED 210/210/210.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 08. TODAY ABOUT 10.
PREDICTED AP UNDER 10/10-20/20-30.

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