

NNNNUU
PP KGFF
DE BOU 150500Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 742C ISSUED 0500Z 15 DECEMBER 1967
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS
BT

ESSA/SPACE DISTURBANCE
FORECAST CENTER
DEC 15 01 57 67

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PP KGFF
DE BOU 151100Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 744D ISSUED AT 1100Z DEC 15 1967
MAJOR FLARES ARE POSSIBLE BUT NOT EXPECTED DURING THE NEXT 12 HOURS
BT

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NNNNVUUU
PP KGFF
DE BOU 151700Z

THIS IS THE MESSAGE FOR REFILE TO FRCST CUSTOMERS

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF 745A ISSUED 1700Z DECEMBER 15 1967

MAJOR FLARES ARE POSSIBLE BUT NOT EXPECTED DURING THE NEXT 12
HOURS

HIGHLIGHTS FOR THE WEEK DECEMBER 8-15 CMMA 1967 CLN FOUR
IMPORTANCE TWO FLARES WERE REPORTED THIS WEEK AT 0807Z DEC. 10
/S17 E29/ CMMA 2153Z DEC. 11 /N13 W49/ CMMA 2345Z DEC. 11
/S18 W15/ AND 1340Z DEC. 13 /S18 W33/. ONLY THE 2345Z DEC. 11
FLARE WAS RATED AS IMPORTANCE TWO BY MORE THAN ONE OBSERVATORY.
THIS FLARE PRODUCED MODERATELY INTENSE RADIO NOISE EMISSION AT
CENTIMETER WAVELENGTHS. THE BRIGHTEST AND MOST HIGHLY
STRUCTURED SOLAR REGIONS TODAY ARE LOCATED NEAR S25 W60 AND
N21 E20. BOTH HAVE PRODUCED NUMEROUS MINOR FLARES. A REGION
NEAR N23 E65 IS THE RETURN OF A PREVIOUSLY ACTIVE CENTER.
INFORMATION NOW AVAILABLE DOES NOT INDICATE THAT IT IS ACTIVE.
10 CM RADIO NOISE FLUX HAS INCREASED STEADILY DURING THE WEEK.

FORECAST FOR DECEMBER 16-22 CMMA 1967 CLN AN ACTIVE REGION CMMA
WHICH WAS THE PROBABLE SOURCE OF MINOR PROTON EVENTS DURING ITS
PREVIOUS DISK PASSAGE CMMA IS DUE TO RETURN TO SOUTHEAST LIMB
DEC. 15. AT LAST REPORT LIMB OBSERVATIONS DID NOT YET
INDICATE ITS PRESENCE. MAJOR FLARES WITH MINOR GEOPHYSICAL
EFFECTS ARE POSSIBLE CMMA BUT ARE EXPECTED TO OCCUR INFREQUENTLY
CMMA IN REGIONS LOCATED AT S25 W60 AND N21 E20 ON DEC. 15.

28-DAY FORECAST FOR DECEMBER 16 CMMA 1967 - JANUARY 12 CMMA 1968
CLN HIGHER THAN NORMAL SOLAR ACTIVITY IS EXPECTED DECEMBER 16-22
AND JANUARY 6-12.

FORECASTS FOR DECEMBER 16-19 AND EXPECTED MEAN VALUES FOR
DECEMBER 19-22

THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 20-20-15 /10/

IMPORTANCE THREE OR GREATER 1-1-1 /1/

PROTON EVENTS 2-1-1 /1/

OTTAWA 10.7 CM FLUX TODAY IS 170. PREDICTED 173-175-174 /155/

BT

UUV
PP KGFF
DE BOU 152335Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 745B ISSUED 2300Z DEC 15 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. ONLY MINOR FLARES HAVE BEEN REPORTED TODAY. SOLAR OPTICAL OBSERVATIONS TODAY HAVE BEEN SEVERELY LIMITED DUE TO WEATHER AT MANY OBSERVATORIES. CONSIDERABLE DEVELOPMENT HAS OCCURRED IN THE SPOT GROUP AT N20E18 WHICH NOW CONTAINS A WEAK MAGNETIC DELTA CONFIGURATION. THE SPOT GROUP NOW MEASURES D/160 AND HAS A VERY UNSTABLE APPEARANCE. THE HYDROGEN PLAGE THERE CONTAINS SEVERAL BRIGHT POINTS AND A DENSE ABSORPTION FEATURE OVERLAYING THE TRAILING SPOTS. A SMALLER BUT COMPLEX GROUP HAS FORMED NEARBY AT N22E10 AND MEASURES D/60 WITH MANY SPOTS. THE REGION NEAR S25W63 HAS GROWN IN THE LEADING PORTIONS AND NOW MEASURES F/260. IT IS OF SIMPLE MAGNETIC STRUCTURE AND ITS ASSOCIATED HYDROGEN PLAGE IS DECLINING IN BRIGHTNESS. THE REGION NEAR N25E70 STILL EXTENDS OVER THE EAST LIMB. THE VISIBLE PORTIONS DO NOT APPEAR TO BE ACTIVE. SLIGHTLY ENHANCED 9.1 CM RADIO EMISSION IS NOW OBSERVED AT THE SE LIMB WHERE A REGION IS EXPECTED TO RETURN WITHIN THE NEXT 12 HOURS. A SLIGHT MAGNETIC DISTURBANCE BEGAN ABRUPTLY AT 2002Z.

B. MAJOR FLARE ACTIVITY IS EXPECTED FROM THE N20E20 REGION. SYMPATHETIC ACTIVITY IS ANTICIPATED IN THE NEARBY COMPLEX REGION AT N22E10. FLARES AS LARGE AS IMPORTANCE ONE ARE POSSIBLE FROM THE S25W63 AND N25E70 REGIONS.

FORECASTS FOR DEC 16-18

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 60/60/50
IMPORTANCE THREE OR GREATER 5/5/5
PROTON EVENTS 2/2/1

D. OTTAWA 10.7 CM FLUX TODAY 170. PREDICTED 180/185/186.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 2. TODAY ABOUT 7.
PREDICTED AP 15-20/8-12/UNDER 10.

BT

OZB