

ESSA/SPACE DISTURBANCE
FORECAST CENTER

DEC 29 04 59Z 67

UUV

PP KGFF

DE BOU 290500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 758C ISSUED 0500Z 29 DECEMBER 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

BT

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ZCZCAFRFA011
UFQCNNUUV
PP KGFF
DE BOU 291100Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 758D ISSUED 1100Z 29 DECEMBER 1967
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS
BT

UUUV
PP KGFF
DE BOU 291705Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF 759A ISSUED 1700Z DECEMBER 29 1967
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

HIGHLIGHTS FOR THE WEEK DECEMBER 22-29 CMMA 1967. CONFIRMED
MAJOR FLARES OCCURRED AT 2101Z DEC. 23 AND 0838Z DEC. 27.
THE FIRST WAS FROM AN AGING REGION CENTERED AT N22 W30
ON THE 23RD. THE SECOND WAS FROM A REGION NOW AT S14 E29
WHICH HAS ALSO PRODUCED TWO OTHER POSSIBLE IMPORTANCE TWO
FLARES. GENERAL FLARE ACTIVITY WAS AT A MODERATE LEVEL ON
DEC. 22-23 DUE TO AN ACTIVE REGION AT N18 W72 ON THE 22ND CMMA
LOW ON THE 24TH CMMA AND INCREASED THEREAFTER DUE TO THE RETURN
OF A REGION NOW NEAR S14 E29 AND THE RAPID GROWTH OF A REGION
NOW NEAR S15 W30. THE LATTER REGIONS SPOT GROUP WAS BORN ON THE
DISK ON DEC. 24 AND INCREASED TO AREA OF 1000 MILLIONOths ON
DECEMBER 28. A MAGNETIC DELTA CONFIGURATION WAS IDENTIFIED IN
THIS SPOT GROUP DEC. 27. NUMEROUS BUT ONLY MINOR FLARES WERE
ASSOCIATED WITH THIS GROWTH CMMA AND THE 10.7 CM RADIO NOISE
FLUX INCREASED FROM 158 ON DEC. 24 TO 190 ON DEC. 28.

FORECAST FOR THE WEEK DECEMBER 30 CMMA 1967 - JANUARY 5 CMMA 1968
CLN FLARES AS LARGE AS IMPORTANCE TWO ARE EXPECTED FROM THE
REGION NEAR S14 E29 AT AN AVERAGE RATE OF ONE VERY 48 HOURS.
IMPORTANCE TWO FLARES ARE ALSO POSSIBLE FROM THE S15 W30
REGION DURING THE REMAINDER OF ITS DISK PASSAGE. MODER-
ATELY ACTIVE CENTERS ARE EXPECTED TO RETURN TO EAST LIMB AT ABOUT
S15-25 DEC. 30-31.

28 DAY FORECAST FOR DECEMBER 30 CMMA 1967 - JANUARY 26 CMMA
1968 CLN SOLAR ACTIVITY IS EXPECTED TO BE HIGHER THAN NORMAL
THROUGHOUT THIS PERIOD AND GREATEST BETWEEN DEC. 30 AND JAN. 8.

FORECAST FOR DECEMBER 30 CMMA 1967 - JANUARY 1 CMMA 1968 AND
EXPECTED MEAN VALUES FOR JANUARY 2-5 CMMA 1968 CLN
THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 60-60-50 /40/
IMPORTANCE THREE OR GREATER 10-10-8 /5/
PROTON EVENTS 10-10-10 /10/
OTTAWA 10.7 CM FLUX TODAY IS 183. PREDICTED 180-178-174 /160/
BT

ESSA/SPACE DISTURBANCE
FORECAST CENTER

DEC 29 23 15Z 67

UUV

PP KGFF

DE BOU 292315Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 759B ISSUED 2300Z DEC 29 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. AN IMPORTANCE ONE FLARE AT 1840Z AND A SMALL LIMB FLARE AT SE15
AT 1900Z ARE THE ONLY SIGNIFICANT EVENTS REPORTED IN THE PAST 12
HOURS. THE FIRST EVENT OCCURRED IN A COMPLEX PLAGE AT S15E25. THE
TWO SPOT GROUPS ASSOCIATED WITH THIS LOCATION ARE BOTH SMALL BUT
POSSIBLY GROWING SLOWLY. THE LIMB EVENT OCCURRED IN A RETURNING
REGION WHICH WAS SLIGHTLY ACTIVE LAST DISK PASSAGE. THE ENTIRE
SOUTHERN HEMISPHERE HAS AN ACTIVE APPEARANCE IN CONTRAST TO A
NEARLY FEATURELESS NORTHERN HEMISPHERE CMMA A RARE SITUATION FOR
CYCLE 20. THE 10.7 CM RADIO FLUX AT 2000Z WAS 186 CORRESPONDING TO
GROWTH OCCURING IN SEVERAL SMALL ACTIVE REGIONS.

B. IMPORTANCE TWO FLARES ARE MOST LIKELY FROM THE S15E25 REGION.
LARGE FLARES ARE POSSIBLE STILL FROM THE LARGE SUNSPOT GROUP AT
S16W33.

FORECASTS FOR DEC 30-JAN 1

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 60/60/60
IMPORTANCE THREE OR GREATER 10/10/10
PROTON EVENTS 5/5/5

D. OTTAWA 10.7 CM FLUX TODAY 183. PREDICTED 190/190/190.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 4. TODAY ABOUT 6.

PREDICTED AP 8-15/UNDER 10/UNDER 10.

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