

ESSA/SPACE DISTURBANCE
FORECAST CENTER

OCT 22 04 53 z75

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PP KGFF

DE BOU 220500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 690C ISSUED 0500Z OCT 22 1967

ONLY MINOR FLARE ACTIVITY IS EXPECTED DURING THE NEXT 12HHOURS.

BT

MCKINNON

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PP KGFF

DE BOU 221100Z

FM SPACE DIST FRCST CNTR ESSA BOULDER COLO

SDF NUMBER 6900 ISSUED 1100Z OCT 22 1967

ESSA/SPACE DISTURBANCE
FORECAST CENTER

16 33

ONLY MINOR FLARE ACTIVITY IS EXPECTED DURING THE NEXT 12HHOURS.

BT

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PP KGFF

DE BOU 221700Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 691A ISSUED 1700Z 22 OCT 1967

MAJOR FLARES ARE POSSIBLE BUT UNLIKELY DURING THE NEXT 12 HOURS

A. IMPORTANCE ONE FLARES HAVE BEEN REPORTED AT 1008Z AND

1232Z IN A BRIGHT DEVELOPING REGION AT N10 E16. SEVEN SUBFLARES

HAVE ALSO OCCURRED THERE DURING THE PAST 16 HOURS.

NO SIGNIFICANT ACTIVITY HAS BEEN REPORTED FROM THE REMAINING

SMALL ACTIVE REGIONS. A FLARE REPORTED AT 2005Z YESTERDAY

HAS BEEN RECLASSIFIED AS IMPORTANCE 2B FROM FILM REVIEW.

IT OCCURRED AT N15 E60.

B. MAJOR ACTIVITY IS CERTAINLY POSSIBLE FROM THE REGION AT

N10 E16 AS JUDGED FROM PLAGE STRUCTURE AND FREQUENCY OF

SMALL FLARES. THE LACK OF STRONG RADIO ACTIVITY AND THE

CONTINUED SMALL SIZE OF THE SPOT GROUP SUGGESTS THAT

FURTHER GROWTH IS NEEDED BEFORE A MAJOR FLARE WILL OCCUR.

FORECASTS FOR OCTOBER 23-25

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS

IMPORTANCE TWO OR GREATER 20/22/25

IMPORTANCE THREE OR GREATER 2/2/2

PROTON EVENTS 1/1/1

D. OTTAWA 10.7 CM FLUX TODAY ESTIMATED 139. PREDICTED 141/143/145.

BT

PP KGFF

DE BOU 222300Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 691B ISSUED 2300Z OCT 22 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. IMPORTANCE ONE FLARES WERE REPORTED AT 1857Z AND ABOUT 2217Z FROM THE COMPLEX REGION AT N10E12. AN EVENT AT 1619Z HAS BEEN RATED FROM SUBFLARE TO AS LARGE AS 2N BUT WITH MARGINAL OBSERVING CONDITIONS AT ALL 3 OF THE REPORTING STATIONS. THE FLARING REGION EXHIBITS HYDROGEN FINE STRUCTURE INDICATIVE OF A MAJOR REGION. THE SPOT GROUP IS NOT LARGE IN AREA BUT IT CONTAINS MORE THAN 50 MEMBERS AND EXTENDS 12 DEGREES IN LONGITUDE. ITS MAGNETIC STRUCTURE CONTINUES COMPLEX AS INFERRED FROM PLAGE FINE STRUCTURE. ADDITIONAL POSSIBLE IMPORTANCE ONE FLARES WERE REPORTED AT 1726Z AND 1915Z FROM THE REGION AT N15W12. THE PLAGE AND SPOT GROUP THERE ARE SIMPLE IN STRUCTURE. ONLY MINOR RADIO OR IONOSPHERIC EVENTS HAVE BEEN RECORDED TODAY. A NEW REGION HAS FORMED IN RECENT HOURS AT N10W03.

B. THE CONTINUED DEVELOPMENT OF THE REGION AT N10E12 MAY LEAD TO MAJOR FLARES WITHIN 24 HOURS. THE EMERGENCE OF A NEW REGION NEAR BOTH FLARE-RICH REGIONS MAY INCREASE THEIR ACTIVITY. AN ADDITIONAL REGION IS DUE TO RETURN AT SE LIMB TOMORROW.

FORECASTS FOR OCT 23-25

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 30/35/40

IMPORTANCE THREE OR GREATER 2/5/5

PROTON EVENTS 1/1/1

D. OTTAWA 10.7 CM FLUX TODAY 139. PREDICTED 143/145/147.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 0. TODAY ABOUT 4.

PREDICTED AP UNDER 10/10-15/10-20