

ESSA/SPACE DISTURBANCE  
FORECAST CENTER

OCT 21 14 49 203

NNNNUUUV

PP KGFF

DE BOU 210500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 689C ISSUED 0500Z OCT 21 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

BT

PP KGFF

DE BOU 211100Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 689D ISSUED 1100Z 21 OCTOBER 1967

ONLY MINOR FLARES ARE EXPECTED DURING THE NEXT 12HHOURS.

CORRECTION--FRCSTS ISSUED OCT 21/1700Z AND 21/2300Z SHOULD

BE NUMBERED 689A AND 689B RESPECTIVELY.

BT

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ESSA/SPACE DISTURBANCE  
FORECAST CENTER

NNNNUV

PP KGFF

DE BOU 21/1705Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 690A ISSUED AT 1700Z OCT 21 1967

MAJOR FLARES ARE POSSIBLE BUT UNLIKELY DURING THE NEXT 12 HOURS

A. NO SIGNIFICANT INCREASE IN SOLAR ACTIVITY HAS OCCURRED SINCE YESTERDAY. AN IMPORTANCE ONE BRIGHT FLARE WAS REPORTED AT 0002Z IN A STABLE REGION NOW AT N14 E04. THE PLAGE AND SPOT GROUP THERE BOTH POSSESS SIMPLE STRUCTURE AND ARE RELATIVELY SMALL. NUMEROUS SUBFLARES HAVE OCCURRED IN A DEVELOPING REGION AT N10 E30. THE SPOT GROUP HERE HAS GROWN SLIGHTLY TO D/180 WITH A SLIGHTLY COMPLEX ORGANIZATION. THIS COMPLEXITY IS MOST APPARENT IN THE PLAGE AND SMALL FILAMENTS. THE PLAGE IS PRESENTLY NOT BRIGHT. ALL OTHER REGIONS VISIBLE ARE OF MINOR IMPORTANCE.

B. THERE IS POTENTIAL FOR FLARES AS LARGE AS IMPORTANCE TWO IN THE REGION AT N10 E30 BUT FURTHER GROWTH IS NEEDED BEFORE MAJOR ACTIVITY IS EXPECTED. FLARES AS LARGE AS IMPORTANCE ONE ARE EXPECTED AT N14 E04. MINOR REGIONS ARE EXPECTED TO RETURN TO SE LIMB DURING THE FORECAST PERIOD.

FORECASTS FOR OCT 22-24

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS  
IMPORTANCE TWO OR GREATER 15/20/20  
IMPORTANCE THREE OR GREATER 1/1/1  
PROTON EVENTS 1/1/1

D. OTTAWA 10.7 CM FLUX TODAY ESTIMATED 130. PREDICTED 133/136/136

NNNNUUUV

PP KGFF

DE BOU 212300Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 690B ISSUED 2300Z OCT 21 1967

MAJOR FLARES ARE POSSIBLE BUT UNLIKELY DURING THE NEXT 12 HOURS.

A. HAN IMPORTANCE ONE BRIGHT FLARE OCCURRED AT 1952Z AT N13E55 ASSOCIATED WITH A VERY SMALL SPOT GROUP. NO RADIO OR IONOSPHERE EFFECTS WERE RECORDED. THE REGION AT N10E25 HAS SHOWN IMPORTANT DEVELOPMENT OF PLAGE AND SPOT STRUCTURES IN RECENT HOURS ALTHOUGH THE TOTAL SUNSPOT AREA REMAINS NEAR 100H MILLIONTHS. ITS MAGNETIC ORGANIZATION IS COMPLEX AS INFERRED FROM H-ALPHA OBSERVATIONS.

MINOR REGIONS ARE RETURNING TO EAST LIMB AT N12 AND S20. THE FORMER IS MARKED BY A J-TYPE SPOT.

B. MAJOR FLARE POTENTIAL IS HIGHER THAN AT 1700Z TODAY IN THE N10E25 REGION BUT STILL FURTHER DEVELOPMENT IS NEEDED TO EXPECT MAJOR ACTIVITY. H IMPORTANCE ONE FLARES ARE STILL EXPECTED AT N14E01.

FORECASTS FOR OCT 22-24

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS IMPORTANCE TWO OR GREATER 20/20/20

IMPORTANCE THREE OR GREATER 2/2/2

PROTON EVENTS 1/1/1

D. OTTAWA 10.7 CM FLUX TODAY 131. PREDICTED 136/138/140.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 3. TODAY ABOUT 0. PREDICTED AP ALL UNDER 10.