

ESSA/SPACE DISTURBANCE
FORECAST CENTER

OCT 30 05 00 73

NNNNUV

PP KGFF

DE BOU 300500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 698C ISSUED 0500Z OCT 10 1967

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

IMPORTANCE 2B FLARE N10W90 START 2350Z MAX 2356Z DURATION 50 MIN.

EVENT WAS ACCCOMPANIED BY STRONG DECIMETRIC RADIO NOISE BURSTS AND
IONOSPHERIC EFFECTS. MAGNETIC VARIATION BEGAN 30/0224Z.

BT

NNNNUV

PP KGFF

DE BOU 301100Z

HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 698D ISSUED AT 1100Z OCTOBER 30, 1967

ONLY MINOR FLARE ACTIVITY IS EXPECTED DURING THE NEXT 12 HOURS

BT

PP KGFF

DE BOU 301745Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 699A ISSUED AT 1700Z OCT 30 1967

MAJOR FLARES ARE NOT EXPECTED DURING THE NEXT 12 HOURS.

A. A BRIGHT IMPORTANCE TWO FLARE OBSERVED AT N10 WLIMB AT 29/2350Z PRODUCED A MAJOR COMPLEX RADIO NOISE OUTBURST ON CENTIMETER WAVELENGTHS AND STRONG IONOSPHERIC EFFECTS. A RECORD RADIO NOISE OUTBURST ON CENTIMETER WAVELENGTHS OCCURRED AT 30/0048Z BUT NO VISIBLE FLARE HAS BEEN REPORTED ASSOCIATED WITH IT. THAT THIS EVENT IS ALSO DUE TO ACTIVITY IN THE REGION AT THE NORTHWEST LIMB IS INFERRED FROM THE OBSERVATION OF PROBABLE LOOP PROMINENCES THESE IN PROGRESS AT 0040Z COMM AND THE ABSENCE OF ANY OTHER LIKELY SOURCES. THE NORTHWEST LIMB REGION IS NOW ALMOST ENTIRELY ROTATED OFF THE VISIBLE DISK. NO PROTONS HAVE BEEN REPORTED ASSOCIATED WITH THE 29/2350Z AND 30/0048Z ACTIVITY. A SYSTEM OF PLAGE REGIONS EXTENDING FROM ABOUT E10 TO E LIMB IN THE SOUTHERN HEMISPHERE APPEAR TO BE DEVELOPING IN BOTH PLAGE AND SPOT GROUP CHARACTERISTICS. CONSIDERABLE HYDROGEN PLAGE FINE STRUCTURE IS VISIBLE PARTICULARLY IN THE PORTIONS EAST OF E45. AN IMPORTANCE ONE BRIGHT FLARE WAS OBSERVED AT S18 E29 AT 1430Z TODAY. THESE REGIONS ARE MODERATELY BRIGHT AT 9.1 CM RADIO WAVELENGTH

B. MAJOR FLARES ARE POSSIBLE FROM THE SOUTHEASTERN COMPLEX OF REGION. PROTONS ARE STILL POSSIBLE FROM THE NORTHEAST LIMB ACTIVITY OF 29/2350Z AND 30/0048Z.

FORECASTS FOR 31-2 NOV 1967

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 30/40/40
IMPORTANCE THREE OR GREATER 5/5/5
PROTON EVENTS 20/10/2

D. OTTAWA 10.7 CM FLUX TODAY ESTIMATED 165 PREDICTED 155/158/160
BT

NNNNUV
PP KGFF
DE BOU 302310Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 699B ISSUED 2300Z OCT 30 1967

MAJOR FLARES ARE NOT EXPECTED DURING THE NEXT 12 HOURS.

A. AN IMPORTANCE ONE NORMAL FLARE AT 1959Z AND IMPORTANCE TWO LOOP TYPE PROMINENCES AT 2019Z HAVE BEEN OBSERVED FROM THE REGION AT N10 JUST PAST WEST LIMB. THIS REGION ALSO IS UNDOUBTEDLY THE SOURCE OF MINOR CONTINUING DEKAMETER RADIO EMISSION OBSERVED THROUGHOUT THE DAY. 9.1 CM RADIAL EMISSION IS STILL STRONGLY ENHANCED FROM NORTHWEST LIMB. THE REGIONS IN THE SOUTHEAST QUADRANT PARTICULARLY EAST OF E40 POSSESS CONSIDERABLE FINE STRUCTURE AND THE HYDROGEN PLAGE IS BRIGHT. MUCH FILAMENT DETAIL IS ALSO VISIBLE IN THE REGION NEAR N17 W28 AND ITS PLAGE HAS SHOWN BRIGHTNESS FLUCTUATIONS THROUGHOUT THE DAY. PROTONS HAVE NOT BEEN REPORTED FROM THE NORTHWEST LIMB EVENTS DISCUSSED IN SDF699A. THE OTTAWA 10CM RADIO FLUX WAS REPORTED AS 175 AT 2000Z TODAY.

B. MAJOR FLARES ARE POSSIBLE FROM THE REGIONS IN THE SOUTHEAST QUADRANT AND AT N17W28. PROTONS ARE NOT CONSIDERED LIKELY.

FORECASTS FOR OCT 31-NOV 2

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

IMPORTANCE THREE OR GREATER 5/5/5

PROTON EVENTS 5/2/2

D. OTTAWA 10.7 CM FLUX TODAY 165. PREDICTED 160/165/165.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 19. TODAY ABOUT 14.
PREDICTED AP ALL UNDER 10.