

ESSA/SPACE DISTURBANCE
FORECAST CENTER

OCT 21 05 00 269

NMUUV.

PP KGFF

DE BOU 270500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 695C ISSUED 0500Z OCTOBER 27 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

BT

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PP KGFF

DE BOU 271100Z

HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 695D ISSUED AT 1100Z OCTOBER 27, 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

BT

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 696A ISSUED 1700Z 27OCT 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

A. THERE IS CONTINUED DEVELOPMENT OF BOTH PLAGE AND SUNSPOTS IN THE MAJOR REGION NOW AT N09 W56. ITS SPOT GROUP HAS GROWN TO OVER 500 MILLIONTHS AREA AND HAS DEVELOPED STRUCTURE APPROACHING A DELTA CONFIGURATION. AN IMPORTANCE 2 SURGE FOLLOWED BY FAINT LOOP PROMINENCE ACTIVITY WAS REPORTED AT 1428Z AT S20 E LIMB. ADDITIONAL NEW REGIONS HAVE APPEARED AT N18 E 16 S26 E85 AND N15 E88. RADIO FLUX HAS RISEN SHARPLY SINCE YESTERDAY. NO FLARES LARGER THAN SUBFLARE HAVE BEEN REPORTED SO FAR TODAY.

B. THE LARGE REGION APPROACHING NW LIMB IS A PROBABLE SOURCE OF MAJOR FLARES FOR THE NEXT THREE DAYS. IONOSPHERIC DISTURBANCES AND MINOR RADIO NOISE ARE EXPECTED FROM THESE EVENTS. THE SE LIMB AREA IS ANOTHER POTENTIAL SOURCE OF MAJOR ACTIVITY. THE GENERAL LEVEL OF ACTIVITY IS RISING IN ADDITION TO THE ACTIVITY IN THESE TWO REGIONS. PARTICLE EMISSION IS POSSIBLE BUT NOT LIKELY FROM NW MAJOR EVENTS.

FORECASTS FOR 28-30 OCT 1967

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 70/70/70

IMPORTANCE THREE OR GREATER 25/25/25

PROTON EVENTS 15/15/15

D. OTTAWA 10.7 CM FLUX TODAY ESTIMATED 162 PREDICTED 165/168/168

BT

NNNNUV

PP KGFF

DE BOU 272300Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 696B ISSUED 2300Z OCT 27 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

A. ALTHOUGH NO SIGNIFICANT EVENTS HAVE BEEN REPORTED TODAY THERE
CONTINUES A RAPID GROWTH OF A MAJOR REGION AT N09 W60. THE SUNSPOT
GROUP HAS INCREASED TO NEARLY 1000 MILLIONTHS AREA AND THE PLAGE
CONTINUES BRIGHT AND COMPACT. IMPORTANT SURGE ACTIVITY MARKS A
RETURNING REGION AT S20 EAST LIMB. LESSER SURGE ACTIVITY HAS
OCCURRED NEAR N15 EAST LIMB. GROWTH IS OCCURRING IN NEW REGIONS AT
N18 E12 AND S26 E53.

B. MAJOR FLARES ARE EXPECTED FROM THE NW REGION AS A RESULT OF THE
RAPID DEVELOPMENT. PROTON EMISSION IS POSSIBLE FROM SUCH EVENTS BUT
THE HELIOGRAPHIC LONGITUDE OF THE REGION AND THE LACK OF RADIO
EVENTS INDICATE A LOW PROBABILITY. MAJOR EVENTS MIGHT BE POSSIBLE
FROM THE REGION APPEARING AT SE LIMB.

FORECASTS FOR OCT 28-30

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 70/70/70

IMPORTANCE THREE OR GREATER 25/25/25

PROTON EVENTS 20/20/20

D. OTTAWA 10.7 CM FLUX TODAY 166. PREDICTED 168/170/170.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 2. TODAY ESTIMATE 9.

PREDICTED AP 10-20/10-20/UNDER 10.

BT