

ESSA/SPACE DISTURBANCE
FORECAST CENTER

DEC 27 05 01 67

UUV
PP KGFF
DE BOU 270500Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 756C ISSUED 0500Z 27 DECEMBER 1967
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS
BT

NNNN NNNN

NNNN

01.,,,,2.;\$.;&./.;-.;:.;3.;8.;).;,.UUV

PP KGFF

DE BOU 271100Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 756D ISSUED 1100Z 27 DECEMBER 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS

AN IMPORTANCE TWO BRIGHT FLARE OCCURRED AT 0838Z LOCATION S13E60.

BT

NNNNUUUV
PP KGFF
DE BOU 27/1740Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 757A ISSUED AT 1700Z DEC 27 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

A. A BRIGHT IMPORTANCE TWO FLARE OCCURRED AT 0838Z IN THE REGION NEAR S13 E57. THIS FLARE PRODUCED MODERATELY STRONG RADIO NOISE EMISSION IN CENTIMETER WAVELENGTHS. MODERATELY INTENSE RADIO NOISE EMISSION AT ABOUT 1407Z INDICATES THE OCCURRENCE OF ANOTHER FLARE BUT NO REPORTS HAVE BEEN RECEIVED OF A VISUAL SIGHTING OF THE FLARE AND ITS LOCATION IS UNKNOWN. THE SPOT GROUP NEAR S13 E57 APPEARS TO BE GROWING AND THE H PLAGE THERE IS COMPLEX AND BRIGHT. THUS FAR THE S13 E57 REGION HAS BEEN THE MOST ACTIVE FLARE PRODUCER ALTHOUGH THE REGION NEAR S15 W05 SEEMS TO HAVE THE GREATEST POTENTIAL FOR LARGE FLARES. THE SPOT GROUP NEAR S15 W05 HAS CONTINUED TO GROW AND REORGANIZE AND IS NOW MEASURED AS E/735. THE H PLAGE THERE IS BRIGHT AND COMPLEX. PROTONS OF ENERGIES GREATER THAN 20 MEV WERE DETECTED AT 1510Z BY SATELLITE. THE PROTON FLUX WAS REPORTED AS AT LEAST THREE TIMES NORMAL BACKGROUND. THIS IS PRESUMED TO BE DUE TO THE 0838Z FLARE.

B. MAJOR FLARES ARE EXPECTED FROM BOTH THE S15 W05 AND S13 E57 REGIONS.

FORECASTS FOR DEC 28-30

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 10/10/10

D. OTTAWA 10.7 CM FLUX TODAY IS 186. PREDICTED 190/192/193
BT

UUV
PP KGFF
DE BOU 272330Z
THIS IS THE MESSAGE FOR REFILE

23 40 267
SPACE DISTURBANCE
CENTER

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 757B ISSUED 2300Z 27 DECEMBER 1967

MAJOR FLARES ARE LIKELY DURING THE NEXT 12 HOURS

A. RAPID SUNSPOT GROWTH HAS CONTINUED IN RECENT HOURS IN THE
SOUTHWEST PORTION OF THE COMPLEX GROUP AT S14W08. THIS GROWTH
INCLUDES THE FORMATION AND INCREASE IN A DELTA CONFIGURATION.
IMPORTANCE ONE FLARES AT 1928Z 1942Z AND 2158Z WERE
ASSOCIATED WITH THIS DEVELOPMENT. THE SECOND FLARE WAS
ACCOMPANIED BY SIGNIFICANT RADIO BURSTS AND IONOSPHERIC EFFECTS.
THE PLACES ASSOCIATED WITH SMALL SPOT GROUPS AT S13E53 S16E48
AND S25E54 CONTINUE AT NEAR FLARE BRIGHTNESS. SOME MINOR GROWTH
IS EVIDENT AT ABOUT S20W30 AND S24W62. RADIO FLUX LEVELS CONTINUE
A RAPID RISE. SO FAR THERE IS NO GROUND DETECTION OF A WEAK PROTON
EVENT REPORTED BY SATELLITE.

B. ALTHOUGH FLARES HAVE NOT BEEN FREQUENT TODAY SUNSPOT AND PLAGE
DEVELOPMENTS AT S14W08 INDICATE AN INCREASE IN MAJOR FLARE POTENTIAL.
CONTINUED GROWTH NEAR THE LOCATION OF MAJOR FLARES REPORTED THE
PAST DAY IN THE SOUTHEAST SUGGESTS THAT ADDITIONAL LARGE FLARES ARE
POSSIBLE THERE.

FORECASTS FOR DECEMBER 28-30

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 65/65/65
IMPORTANCE THREE OR GREATER 10/10/10
PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX TODAY 186. PREDICTED 195/200/202.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 04. TODAY ABOUT 09.
PREDICTED AP RANGES ALL UNDER 10.

BT

NNNNV