

NNNNUUUV
PP KGFF
DE BOU 220010Z
HERE IS RERUN OF MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 751B ISSUED AT 2300Z DEC 21 1967
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS
A. NO SIGNIFICANT CHANGES OR FLARE ACTIVITY HAS BEEN REPORTED
SINCE SDF 751A. A J - TYPE SPOT AND SMALL PLAGE HAVE APPEARED
AT S21 E80.
B. MAJOR FLARES ARE POSSIBLE FROM THE REGIONS AT N22 W07 AND
N18 W61.

FORECASTS FOR DEC 22-24

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 55/55/50
IMPORTANCE THREE OR GREATER 15/15/10
PROTON EVENTS 5/5/5
D. OTTAWA 10.7 CM FLUX TODAY 202. PREDICTED 198/192/180.
E. MAGNETIC A-FREDERICKSBURG YESTERDAY 21. TODAY ABOUT 14.
PREDICTED AP 8-12/UNDER 10/UNDER 10.
BT

ESSA/SPACE DISTURBANCE
FORECAST CENTER
DEC 22 01 57 Z 67

NNNNUUU
PP KGFF
DE BOU 220500Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 751C ISSUED 0500Z 22 DECEMBER 1967
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS
BT

NNNN

UUV
PP KGFF
DE BOU 221100Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 751D ISSUED AT 1100Z 22 DEC 67
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS
BT

NNNN

NNNNUUUV
PP KGFF
DE BOU 221650Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF 752A ISSUED 1700Z DECEMBER 22 1967

HIGHLIGHTS FOR THE WEEK DECEMBER 15-22, 1967;
A NEW REGION BORN ON THE DISK LATE LAST WEEK GREW RAPIDLY THIS
WEEK TO CONTAIN A SPOT GROUP OF MAX CLASS/AREA OF F/1150 DEC. .
21 WHEN AT N19W58. A FLARE OF UNKNOWN IMPORTANCE OCCURRED WITHIN
THIS REGION AT 17/1836Z AND PRODUCED MAJOR RADIO AND IONOSPHERIC
EFFECTS. A POSSIBLE IMPORTANCE TWO NORMAL FLARE ALSO OCCURRED IN
THIS REGION AT 18/1434Z AT N19W19 ACCOMPANIED BY MODERATE RADIO/
X-RAY EVENTS. ANOTHER ACTIVE REGION ON THE DISK PRODUCED A
POSSIBLE THREE NORMAL FLARE AT 16/0245Z AT N23E64 ACCOMPANIED BY
MAJOR RADIO AND IONOSPHERIC EFFECTS. THIS FLARE MAY HAVE BEEN THE
SOURCE OF A LOW-ENERGY PROTON EVENT WHICH BEGAN ABOUT 16/0500Z
AND CONTINUED EUGH 19/1700Z. AN IMPORTANCE TWO NORMAL FLARE
OCCURRED WITHIN THE SAME REGION AT 18/1432Z. THE ASSOCIATED SPOT
GROUP HAD A MAX CLASS/AREA OF E/410 DEC. 19. A GEOMAGNETIC
DISTURBANCE BEGINNING ON THE 17TH REACHED MINOR STORM PROPORTIONS
ON DEC. 20TH AND CONTINUED THROUGH THE 21ST. THE 10 CM RADIO
NOISE FLUX (OTTAWA) REACHED A MAX OF 213 ON DEC. 18TH AND 19TH.

FORECAST FOR DECEMBER 23-29 1967 CLN THE LARGE REGION NOW NEAR
N18 W70 WILL BE A POSSIBLE SOURCE OF MAJOR FLARE ACTIVITY
ACCOMPANIED BY MAJOR RADIO/X-RAY EVENTS UNTIL IT COMPLETES
WEST LIMB PASSAGE DEC. 25. THE REGION AT ABOUT N22 W17 TODAY
MAY ALSO PRODUCE OCCASIONAL MAJOR FLARES WITH STRONG RADIO/X-RAY
EMISSION A NEW REGION NEAR S23 E75 IS RELATIVELY LARGE BUT
ONLY MODERATELY BRIGHT. AT THIS TIME IT DOES NOT APPEAR TO
POSSES MAJOR FLARE POTENTIAL.

28 DAY FORECAST FOR DECEMBER 23 1967 - JANUARY 19 1968 CLN
SOLAR ACTIVITY IS EXPECTED TO BE HIGHER THAN NORMAL WITHIN
THE PERIODS DEC. ~~23~~ 23-28 AND JAN. 6-19.

²³
FORECASTS FOR DECEMBER 23-25 AND EXPECTED MEAN VALUES FOR
DECEMBER 26-29

THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 50-45-30- /20/
IMPORTANCE THREE OR GREATER 10-10-5 /2/
PROTON EVENTS 5-5-5 /2/

OTTAWA 10.7 CM FLUX TODAY IS 188. PREDICTED 186-180-165 /140/
BT

NNNNUUUV
PP KGFF
DE BOU 222300Z
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 752B ISSUED 2300Z DEC 22 1967

MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS.

A. NO SIGNIFICANT SOLAR ACTIVITY HAS BEEN REPORTED TODAY. THERE HAS BEEN CONSIDERABLE FILAMENT ACTIVATION IN THE N22W19 REGION DURING THE PAST SEVERAL HOURS WHICH IS POSSIBLY INDICATIVE OF INCREASING ACTIVITY IN THE REGION. THE SPOT GROUP THERE HOWEVER HAS SIMPLIFIED CONSIDERABLY TODAY. THE REGION NEAR N18W74 STILL REMAINS THE BRIGHTEST AND MOST ACTIVE APPEARING ON THE VISIBLE DISK. ITS SPOT GROUP STILL MEASURES F/830 AND IMPORTANCE ONE FLARES WERE REPORTED THERE AT 0539Z AND 1140Z. THE SPOT GROUP NEAR S22E68 MEASURES D/270 AND THE H-PLAGE IS MODERATELY BRIGHT.

B. MAJOR FLARES ARE POSSIBLE FROM THE N18W74 REGION UNTIL IT COMPLETES WEST LIMB PASSAGE LATE DEC. 24 OR 25. THE N22W19 REGION STILL APPEARS CAPABLE OF PRODUCING MAJOR FLARES HOWEVER THE REGION MAY NOW BE DECLINING. FLARES LARGER THAN IMPORTANCE ONE ARE NOT ANTICIPATED FROM THE S22E68 REGION AT THIS TIME.

FORECASTS FOR DEC 23-25

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 50/40/25

IMPORTANCE THREE OR GREATER 10/5/5

PROTON EVENTS 5/5/5

D. OTTAWA 10.7 CM FLUX TODAY 188. PREDICTED 184/178/165.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 14. TODAY ABOUT 9.

PREDICTED AP 15-20/12-15/8-12

BT