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ESSA/SPACE DISTURBANCE
FORECAST CENTER

DEC 0 04 59 z67

UUU

PP KGFF

DE BOU 080500Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 737C ISSUED 0500Z DECEMBER 08 1967
ONLY MINOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS
BT

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PP KGFF
DE BCU 081100Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 737D ISSUED AT 1100Z DECEMBER 8, 19 7
ONLY MINOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS
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PP KGFF
DE BOU 081700Z
THIS IS THE FORECAST FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF 738A ISSUED 1700Z DECEMBER 8 1967
HIGHLIGHTS FOR THE WEEK DECEMBER 1-8 CMMA 1967 CLN
THREE POSSIBLE IMPORTANCE TWO FLARES WERE REPORTED ON DEC. 1
OCCURRING AT 01/0254Z AND 01/1243Z WITHIN THE REGION AT ABOUT
S29 W78 AND AT 01/0746Z WITHIN THE REGION AT ABOUT N29 W LIMB.
MODERATE TO STRONG S-RAY AND RADIO EMISSION WAS ASSOCIATED
WITH FLARES OCCURRING WITHIN THE SOUTHERN REGION. ACTIVITY
LEVELS DECLINED WITH THE WEST LIMB PASSAGE OF THESE TWO
REGIONS AND NO FURTHER MAJOR FLARE ACTIVITY WAS CONFIRMED
DURING THE WEEK. A LOW ENERGY PROTON EVENT BEGINNING AT
03/0915Z AND CONTINUING THROUGH 04/2100Z WAS CONFIRMED BY
BOTH SATELLITE AND GROUND-BASED OBSERVATIONS. THE EVENT WAS
ATTRIBUTED TO THE WEST LIMB ACTIVITY OF DEC. 1. GEOMAGNETIC
CONDITIONS WERE DISTURBED DEC. 1 WITH AN A-FREDERICKSBURG
OF 27 AND WERE ENHANCED DEC. 6-8.

FORECAST FOR DECEMBER 9-15 CMMA 1967 CLN
A PREVIOUSLY ACTIVE LARGE REGION IS DUE TO RETURN TO THE
EAST LIMB AT ABOUT N10 ON DEC 8-9. PLAGE NOW VISIBLE NEAR THE
NORTHEAST LIMB MAY BE ASSOCIATED WITH THIS REGION. THIS
REGION PRODUCED A FEW MAJOR FLARES ON ITS LAST DISK PASSAGE
BUT WAS DECLINING AS IT APPROACHED WEST LIMB. PRESENT LIMB
OBSERVATIONS DO NOT INDICATE THAT THE REGION IS ACTIVE. AN
INCREASE IN SOLAR ACTIVITY SHOULD BEGIN DEC. 14-15 WITH THE
RETURN OF PREVIOUSLY GROWING REGIONS TO EAST LIMB IN BOTH THE
NORTH AND SOUTH. REGIONS PRESENTLY ON THE DISK NEAR N22 E10
AND S18 E23 MAY BECOME LARGE ENOUGH TO PRODUCE OCCASIONAL
IMPORTANCE TWO FLARES DURING THEIR TRANSIT.

28 DAY FORECAST FOR DECEMBER 9 CMMA 1967 - JANUARY 5 CMMA 1968
HIGHER THAN NORMAL SOLAR ACTIVITY IS EXPECTED DEC. 14-28.

FORECASTS FOR DEC. 9-11 AND EXPECTED MEAN VALUES FOR DEC. 12-15
THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 5-10-10 /10/
IMPORTANCE THREE OR GREATER 1-1-1 /1/
PROTON EVENT 1-1-1 /1/
OTTAWA 10.7 CM FLUX TODAY IS 134. PREDICTED 137-143-146 /152/
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PP KGFF

DE BOU 082325Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 738B ISSUED 2300Z DEC 8 1967

ONLY MINOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

A. NO SIGNIFICANT SOLAR ACTIVITY HAS BEEN REPORTED TODAY. SOLAR
FLARES HAVE BEEN IMPORTANCE ONE OR SMALLER. ALL THE VISIBLE REGIONS
ARE RELATIVELY STABLE WITH THE REGION NEAR N24E06 STILL THE MOST
INTERESTING SINCE ITS SPOT GROUP POSSESSES TWO MAGNETIC DELTA
CONFIGURATIONS. A REPORT HAS BEEN RECEIVED OF POSSIBLE GROUND
DETECTION OF PROTONS BUT OTHER EVIDENCE INDICATES THE EFFECTS ARE
MORE LIKELY DUE TO MAGNETIC ACTIVITY OR RELATIVISTIC ELECTRON
PRECIPITATION. THE PREVAILING MINOR MAGNETIC DISTURBANCE INCREASED
SOMEWHAT AFTER 1900Z.

B. MAJOR FLARES ARE NOT EXPECTED. THE MAGNETIC DISTURBANCE SHOULD
CONTINUE FOR ANOTHER 24 HOURS.

FORECASTS FOR DEC 9-11

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
IMPORTANCE TWO OR GREATER 5/5/10

IMPORTANCE THREE OR GREATER 1/1/1

PROTON EVENTS 1/1/1

D. OTTAWA 10.7 CM FLUX TODAY 135. PREDICTED 137/143/146.

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 17. TODAY ABOUT 18.

PREDICTED AP 12-16/8-12/UNDER 10.

BT