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UUV  
PP KGFF  
DE BOU 190500Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 718C ISSUED 0500Z NOV 19 1967  
MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.  
BT

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DE BOU 191100Z  
HERE IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 718D ISSUED 1100Z NOV 19 1967  
MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.  
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ESSA/SPACE DISTURBANCE  
FORECAST CENTER

Nov 19 17 15z67

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THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 719A ISSUED 1700Z NOVEMBER 19 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

A. IMPORTANCE ONE FLARES WERE REPORTED AT 0515Z CMMA 0703Z  
AND 1213Z FROM THE REGION AT N10 W04. THIS REGION REMAINS  
LARGE AND COMPLEX. THE PLAGE AT N22 E80 IS MODERATELY  
BRIGHT AND THE ASSOCIATED SPOT GROUP IS CLASS/AREA D/430. IT  
HAS PRODUCED AN IMPORTANCE ONE FLARE AT 0010Z AND MINOR  
LIMB ACTIVITY. IMPORTANCE ONE FLARES WERE ALSO REPORTED AT  
1025Z AND 1107Z AT N11 W41. THE ASSOCIATED PLAGE IS BRIGHT AND  
FLUCTUATING. THE REGION AT S22 W57 CONTINUES TO PRODUCE  
SUBFLARE ACTIVITY.

B. MAJOR FLARES ARE EXPECTED FROM THE REGIONS AT N10W04 AND  
N20 E80 DURING THE FORECAST PERIOD. FLARES AS LARGE AS  
IMPORTANCE ONE ARE EXPECTED TO CONTINUE FROM THE REGIONS  
AT N11 W41 AND S22 W57.

FORECASTS FOR NOVEMBER 20-22

C. THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS  
IMPORTANCE TWO OR GREATER 80/80/80  
IMPORTANCE THREE OR GREATER 30/30/30  
PROTON EVENTS 30/30/30

D. OTTAWA 10.7 CM FLUX TODAY ESTIMATED 164. PREDICTED 168/171/173.  
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PP KGFF  
DE BOU 192310Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CNTR ESSA BOULDER COLO  
SDF NUMBER 719B ISSUED 2300Z NOV 19 1967

MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

A. THE LARGE SUNSPOT GROUP AT N09W09 IS BEGINNING TO DECAY AND ITS DELTA CONFIGURATION IS MUCH WEAKER THAN YESTERDAY. ONLY SUBFLARES HAVE OCCURRED THERE IN RECENT HOURS. THE SUNSPOT GROUP AT N19E69 IS MOST RECENTLY REPORTED AS CLASS E/AREA 600. IT WAS ASSOCIATED WITH A POSSIBLE IMPORTANCE 1 FLARE AT 1517Z BUT THE REGION HAS BEEN RELATIVELY INACTIVE SINCE THEN. IMPORTANCE ONE FLARES OCCURRED AT 1621Z AND 2212Z IN A DEVELOPING REGION AT N09W45. THIS REGION EXHIBITS BRIGHT COMPLEX PLAGE STRUCTURE AND A SUNSPOT GROUP WHICH APPEARS TO BE TWO GROUPS SUPERPOSED. ALMOST CONTINUAL SUBFLARE AND SURGE ACTIVITY HAS BEEN REPORTED IN ANOTHER DEVELOPING REGION AT N16W71. THE SUNSPOTS THERE ARE STILL VERY SMALL.

B. MAJOR FLARE POTENTIAL IS SLIGHTLY REDUCED IN THE REGIONS AT N09W09 AND N19E69 BUT THE REGION AT N09W45 IS EXPECTED TO BE A MAJOR REGION BY THE END OF THE FORECAST PERIOD. A SERIES OF REGIONS RETURNING TO SE LIMB BEGINNING 21 NOV ARE LIKELY TO BE ACTIVE.

FORECASTS FOR NOV 20-22

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

IMPORTANCE THREE OR GREATER 20/20/20

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX TODAY 171. PREDICTED 175/170/175

E. MAGNETIC A-FREDERICKSBURG YESTERDAY 2. TODAY ABOUT 2.

PREDICTED AP ALL UNDER 10.

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