

ESSA/SPACE DISTURBANCE  
FORECAST CENTER

JAN 5 04 51 Z68

UUV  
PP KGFF  
DE BOU 050500Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 765C ISSUED 0500Z 05 JANUARY 1968  
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS  
BT

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UUU  
PP KGFF  
DE BOU 051100Z  
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF NUMBER 765D ISSUED AT 1100Z JAN 5 1967<sup>8</sup>  
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS  
BT

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NNNNVUICNNNNVUUV  
PP KGFF  
DE BOU 051800Z  
THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO  
SDF 766D ISSUED 1800Z JANUARY 5 1967<sup>8</sup>  
MAJOR FLARES ARE EXPECTED DURING THE NEXT 12 HOURS

HIGHLIGHTS FOR THE WEEK DECEMBER 29 CMMA 1967 - JANUARY 5  
CMMA 1968 CLN AN IMPORTANCE TWO OR THREE FLARE OCCURRED AT  
S22 E LIMB AT 02/0521Z JAN. IT PRODUCED A 10 CM RADIO NOISE  
OUTBURST WHICH WAS 1460 PERCENT OF THE PREBURST LEVEL CMMA AND  
VERY LARGE SOLAR X-RAY/IONOSPHERIC EFFECTS. THE REGION WHICH  
PRODUCED THIS FLARE IS NEAR S22 E40 TODAY. YESTERDAY IT WAS  
MEASURED AS D/670 AND WAS CLASSED MAGNETICALLY AS GAMMA  
CONTAINING TWO DELTA CONFIGURATIONS. NO ADDITIONAL MAJOR FLARE  
ACTIVITY HAS BEEN OBSERVED THERE BUT THE REGION APPEARS TO BE  
CONTINUING TO GROW. A SMALLER 10 CM RADIO NOISE OUTBURST  
REPORTED AS 225 PERCENT OF PREBURST LEVEL OCCURRED AT 0456Z  
TODAY. IT WAS ASSOCIATED WITH A BRIGHT IMPORTANCE ONE FLARE  
IN THE REGION NEAR N22 E72. A SPOT GROUP NOW NEAR N21 E38 WAS  
BORN ON THE DISK JAN. 3 AND DEVELOPED TO D/110 JAN. 4 WHEN IT  
WAS REPORTED TO BE BETA-GAMMA CLASS WITH A POSSIBLE DELTA  
CONFIGURATION. ONLY SMALL FLARES HAVE OCCURRED THERE SO FAR  
BUT THE H-PLAGE IS BRIGHT AND GROWTH IS CONTINUING IN BOTH  
THE PLAGE AND SPOT GROUP. A REGION AT S16 W29 ON DEC. 29  
CONTAINED A MAGNETIC DELTA WITH AN E/900 SPOT GROUP BUT PRODUCED  
ONLY MINOR FLARES WHILE IT REMAINED ON THE DISK. OTHER REGIONS  
OF INTEREST BUT WHICH HAVE PRODUCED ONLY MINOR FLARES ARE  
LOCATED NEAR S26 W60 AND S17 E20 TODAY. A MINOR MAGNETIC STORM  
BEGAN AT 31/0500Z DEC. AND LASTED ABOUT 74 HOURS.

FORECAST FOR THE WEEK JANUARY 6-12 CMMA 1968 CLN MAJOR FLARES  
ARE EXPECTED DURING THIS WEEK PARTICULARLY FROM THE REGION  
AT ABOUT S22 E40 TODAY. OTHER REGIONS LIKELY TO PRODUCE MAJOR  
FLARE ACTIVITY ARE THESE NEAR N21 E38 AND N11 E72 TODAY.  
SUCH FLARES OCCURRING WITHIN THESE REGIONS ARE EXPECTED TO  
PRODUCE MAJOR IONOSPHERIC AND RADIO EMISSION EVENTS CMMA AND  
POSSIBLY PROTON EVENTS. GEOMAGNETIC DISTURBANCES ARE ALSO LIKELY  
ABOUT 48 HOURS FOLLOWING SUCH FLARES. ADDITIONAL ACTIVE CENTERS  
ARE DUE TO RETURN TO THE NE LIMB WITHIN THE NEXT 24 HOURS.

28 DAY FORECAST FOR JANUARY 7 - FEBRUARY 2 CMMA 1968 CLN SOLAR  
ACTIVITY IS EXPECTED TO BE HIGHER THAN NORMAL THROUGHOUT  
THIS PERIOD AND GREATEST BETWEEN JAN. 6 AND 15.

FORECAST FOR JANUARY 6-8 AND EXPECTED MEAN VALUES FOR JANUARY  
9-12 CMMA 1968 CLN  
THE DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS  
IMPORTANCE TWO OR GREATER 65-65-65 /60/  
IMPORTANCE THREE OR GREATER 10-10-10 /10/  
PROTON EVENTS 7-10-10 /10/  
OTTAWA 10.7 CM FLUX TODAY IS 198. PREDICTED 202-206-208 /195/

NOTE CLN BEGINNING WITH THIS FORECAST THE SPACE DISTURBANCE  
FORECAST CENTER WILL ISSUE SDF A-B-C AND D AT 0000Z-0600Z-  
1200Z AND 1800Z RESPECTIVELY. SDF D WILL INCLUDE A DETAILED  
REVIEW OF THE PREVIOUS 24 HOURS. A-B AND C WILL BE BRIEF  
UPDATES OF THAT FORECAST.

BT