

ESSA/SPACE DISTURBANCE
FORECAST CENTER

JAN 5 04 51 68

UVV

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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UVV
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 1967⁸
MAJOR FLARES ARE POSSIBLE DURING THE NEXT 12 HOURS
BT

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NNNNVUICNNNVUUUV
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 1968
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