

OF BOLIDE INFRASONIC OBSERVATION, on June, 2nd, 2018 in BOTSWANA

On June 2nd, 2018, around 16h44 UT, Bolide impacted the Earth atmosphere over Botswana, near South Africa border. This event was recorded at some IMS infrasound arrays in Southern Africa. Data analysis were performed using WinPMCC software (CEA/DASE) based on PMCC method (Y. Cansi, 1995). A pass-band frequency between 0.1 Hz and 4 Hz is applied to detect the source. Results using I47ZA station show the azimuth is around 357.5° for the coming infrasound signals. Infrasound processing gave an estimated energy of 3.09 kT. Acoustic simulation of propagation using Raytracing technique (Virieux, 2004 Hamiltonian method ; Bass & Sutherland, 2003 absorption model) shows dominant stratospheric phases.

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Track Classification: Poster session