ID: Type: **Poster**

Analysis of Kosti Meteorite using Infrasound Data: A case Study In Sudan

Analysis of Kosti Meteorite using Infrasound data: A case study in Sudan 1Naila M.O.Babiker; 2Madu Uchenna Onwuhaka 1Sudan National Data Center, Remote Sensing and Seismology Authority, National Center for Research, Khartoum, Sudan Email Address nailamoh @ yahoo.com. 2Nigeria National Data Centre, Nigeria Atomic Energy Commission, Abuja, Nigeria ABSTRACT A meteorite fell in Kosti city located at the White Nile State of Sudan on June 20, 2017. The meteor entered the Earth's atmosphere 12.03 midnight local time. The meteor's light was so intense and the images of the explosion were captured by mobile devices as lighting fallen balls. Data from sound wave of the meteorite was detected by IMS infrasound stations in Kenya (1S32KE) and Tunisia (1S48TN) and reported in SEL3 event bulletin. Data obtained from these IMS stations were analysed using GPMCC. The results from the analysis of the infrasound data agreed with the known back azimuth of the event. The result of the study is presented in this paper.

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Track Classification: Theme 2. Events and Nuclear Test Sites