



ID: P2.3-292

Type: e-Poster

## Infrasound Records And Data Analysis For The South Indian Ocean Fireball On March 4, 2020

*Wednesday 30 June 2021 10:00 (1 minute)*

On March 4, 2020 the Infrasound Stations I03AU, I05AU and I47ZA detected the South Indian Ocean event at 20:26:40 UTC. This detection belonged to a fireball that had a TNT yield equivalent of 1 kiloton (Kt). The infrasonic signals were observed by the three infrasound arrays that are part of the International Monitoring System (IMS) located in Australia and South Africa. The PMCC method was used to estimate the wave parameters at the three infrasound arrays, and the source location (52.11S, 91.15E) was determined by the back azimuth intersection, which is only 100 kilometers away from NASA's location (53.3S, 90.8E).

### Promotional text

The poster is contributes to learn about how we used the IMS data and IDC products for estimated the wave parameters and bolide event location.

**Primary author:** Mr ALHOMAIMAT, Murad (Jordan Seismological Observatory (JSO), Jordan)

**Presenter:** Mr ALHOMAIMAT, Murad (Jordan Seismological Observatory (JSO), Jordan)

**Session Classification:** T2.3 e-poster session

**Track Classification:** Theme 2. Events and Nuclear Test Sites: T2.3 - Seismoacoustic Sources in Theory and Practice