

# in three-dimensional (3D) wave propagation modelling and wave conversion at the ocean, land, and atmosphere interfaces, for infrasound and hydro-acoustic signals

*Tuesday, 20 June 2023 14:00 (1 hour)*

The CTBT-IMS global sensor network comprises three waveform technologies: Seismic, hydroacoustic, and infrasound, designed to monitor the world continuously for any nuclear explosions on the ground, in the ocean, and the atmosphere. Waveform signals at CTBT-IMS stations can present complex arrival characteristics caused by 3D features along their long-range propagation paths. This panel will debate the challenges in 3D modelling of long-range sound propagation in the ocean and the atmosphere. The panelists will discuss recent advances in 3D modelling of seismic-to-acoustic and acoustic-to-seismic energy conversion at the ocean, land, and atmosphere interfaces.

## Oral preference format

## Promotional text

## E-mail

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**Session Classification:** Panel discussion on 3D wave propagation modelling

**Track Classification:** Panel discussion