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Global hydroacoustic simulations on high-performance computers

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The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO) is operating and maintaining the international monitoring system of seismic, infrasound, hydroacoustic and airborne radionuclide facilities to detect a nuclear explosion over the globe. The monitoring network of CTBTO, especially with regard to infrasound and hydroacoustic, is quite unique because the network covers the globe, and the data is open to scientific use. On the other hand, global scale computer modelling of acoustic signal transmission has not been well established. In this presentation, improvements on such global acoustic transmission models will be presented with particular focus on high-performance computing.

Promotional text

Global acoustic computer simulation programs have been developed on cutting-edge computers to assist analysis of complex hydroacoustic signals.

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