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Wide Angle Time Domain Parabolic Equation Code to Modelling of Acoustic Signals Propagation in Different Media

Super wide angle time domain parabolic equation code to modelling of acoustic signals propagation in different media: sea water, bottom sediments and atmosphere and their combinations are proposed. The new super wide angle version of the TDPECode based on the pseudodifferential parabolic equation technique. The numerical calculations are made for sound rays with grazing angles till to 87 degrees. The presented results include practically interesting cases of calculation fields and signals forms for infrasound propagation from atmosphere to the ocean water and bottom sediments and vice versa.

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