## Test configuration for the Canterbury region

Locations of sources and stations in a 2D grid. The depths of sources are not mentioned.



The 3D geological velocity model of Canterbury region



Geometrical correlation among 312 seismogram channels for 4 sources and 78 stations. This value can be used as weight function for measuring the redundancy of data usage.





The true, initial and inverted models involved in the inversion process using 4 given sources and 78 stations. The adjoint-wavefield method uses reversedin-time displacement residual as adjoint source.





Misfit function and step length:



Waveform comparison between observed and simulated seismograms after one iteration for source 4 (event 3550173m4pt7) at station DFHS



Inversion starting with a smooth model from true model using 4 given sources and 78 stations.



Misfit function and step length:



Cross-session comparison at z=2km

