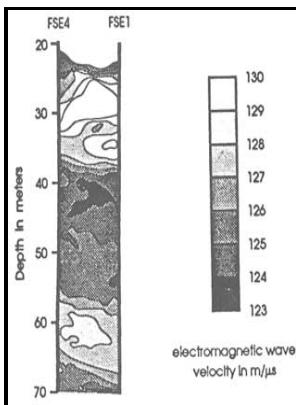


Predicted and measured seismic velocities and densities in rock samples from Chalk River, Ontario. by C. Wright and D.C. Kamineni

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Description: -

- Radioactive waste disposal
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Predicted and measured seismic velocities and densities in rock samples from Chalk River, Ontario

The detection and accurate location of small earthquakes, as well as moderate magnitude shocks, will aid in mapping active seismic zones and in compiling frequency of occurrence statistics which ultimately will be useful in seismic risk-zoning of the island.

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Geodetic observations over longer times following an earthquake will reduce these trade-offs, while simultaneous modelling of interseismic and post-seismic observations provide the strongest constraints on fault rheologies. This direct model can be used to search for missing noise sources, such as wave scattering in the marginal ice zone, find events relevant for solid earth studies etc.

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However, in landforms such as rock glaciers and moraines active-layer and permafrost can be distinguished based on seismic velocities alone while p-wave velocity differences of these layers in talus slopes and debris-covered slopes decrease and, therefore, require additional geophysical techniques or boreholes for layer differentiation Draebig, 2016. In addition, the wider the frequency bandwidth, the sharper the wavelet. In this paper, we present four examples of seismic model visualization using an open-source Python package Bokeh.

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The GEO model is based on active fault database that provides information on fault location and its geometric and kinematic parameters together with estimations on its slip rate.

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The seismic microzonation map of level 1 for Gori was carried out using: 1 Already available data i. For automatic and precise position control of an ultrasonic transducer source and receiver in the directions of the three axes x, y, and z , a motor was mounted on each of the three axes. From this model we can generate slip histories and seismicity catalogues covering 100's of years for predefined fault networks near fluid injection sites.

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The tool box has been extended to draw on the map line segments, multiple straight lines horizontally and vertically as well as multiple circles, including geodesic lines. One reason for this finding is given by the rate of observed induced events which is not constant over time. The problem of a continuously variable velocity-depth function has been partly solved by a technique using two-dimensional plate models constructed by laminating plastic to aluminum, so that the ratio of plastic to aluminum controls the velocity-depth function Healy and Press, 1960.

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Inaccurate estimates of seismic reflection amplitudes may result in misleading interpretations because of these problems in application to turbidite reservoirs.

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