Hi Aurelien,

I sent you two sets of seismograms, they have  basically the same set up but the second set has attenuation.

The seismograms were computed for one of the Sohl&Spohn’s 1D model where crust has 110 km thickness. For numerical reasons, there is also a very small inner core in simulations about 60 km which does not exist in the original 1D profile.

The source should be located at lat=0 and lon=0 degrees. The stations should be located at the equator with 20 degrees increment in longitude. You can double-check this information from SAC headers as well.

The marsquake used here is actually 2011 Virginia earthquake (Mw=5.8) which is shifted to equator.

We are also working on 3D seismograms after implementing 3D crustal thickness variations. However things are going a bit slow especially after the suspension of the project. However, when we have some robust 3D seismograms I would be happy to give them as well.

I don’t know if your students would be interested in this but just for your information, these seismograms were computed on Princeton University cluster using 150 processors and simulations took about 10 h.

Please let me know if you need further information and thanks very much for your patience:)

Best regards,

Ebru

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