Slab2 - Providing Updated Subduction Zone Geometries and Modeling Tools to the Community

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Geometry of a Subduction Zone

**Slab1.0:** covers ~ 90% of global subduction zones.

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Efforts Underway for Slab2

- More regional datasets.
- More active source seismic data.
- Alternative data sets that image the slab (e.g., receiver functions)
- **Incorporation of tomographic images of slabs**
- Improved geometry modeling algorithm
- **Distributable coding infrastructure**
- **More data layers**: moment release, coupling, EQ seismotectonics (inter-, intra-, upper plate), etc.

=> Better slab models, covering more of the globe, including more information
A Slab model is only as good as the input data...

- our model still lacks resolution in areas where the slab is relatively aseismic, and where other data sets are not available to image the slab surface.

=> Share your slab-related data with us!
ANYTHING that images the slab/slab surface

=> The “Slab2” code infrastructure will also be made available to the community

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