

Investigating slow slip earthquakes and underplating mechanisms in subduction zones from the exhumed rock record

Two projects:

1. Investigation of the lithologies that host slow slip and tremor on the subduction interface. A field-based approach coupled with geochemistry, structural geology, geochronology, and rheology in three localities that cover a large range of Pressure/Temperature conditions in exhumed subduction complexes

2. Constrain the controls of underplating during early (hot) subduction and older (cold) subduction. This work includes geochronology/geochemistry, rheology/microstructures, and structural geology.

