Recent high-resolution seismic reflection studies of active faults in the Puget Lowland

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Puget Lowland Magnetic map

From Blakely et al., 1999
Seismic Reflection

Time (depth)
Olympia fault Lidar

from Clement et al. (in prep)
Seismic Profiles, Budd Inlet

from Clement et al. (in prep)
LIDAR/Seismic Line Locations

from Clement et al. (in prep)
Case Inlet Sparker from Clement et al. (in prep)

- **a**: Image of a case inlet sparker.
- **Image**: Geophysical survey showing onlap, uplift of water bottom, and dipping reflector. Approximate depth scale is provided with a length of ~100 m.
from Clement et al. (in prep)
Tacoma Fault magnetic data from Johnson et al. (2004)
Tacoma Fault magnetic data

from Johnson et al. (2004)
Hypothetical cross section, Green Mtn to Carr Inlet
Lake Washington Profile
(Harding and others, 1988)
Where next?
a) (4x depth scale)

- Elevation
- Distance (m)

- Depth (m)
- No Velocity control from velocity analysis

b)

- Depth (m)
- Layer 1
- Layer 2
- Layer 3
- Seattle fault?

- Velocity (m/s)
- 430 m/s
- 487 m/s
- 726 m/s
- 1200 m/s