



- Improve tsunami hazard assessment in the US and Territories using geologic evidence (tsunami deposits) to extend the historical record of tsunami inundation
- Develop paleotsunami record in Hawaii, Aleutians, Caribbean and Cascadia
- Develop inverse and forward models of tsunami inundation and sediment transport to improve tsunami hazard assessment

This information is preliminary, is subject to revision, and it is not for citation or further distribution.

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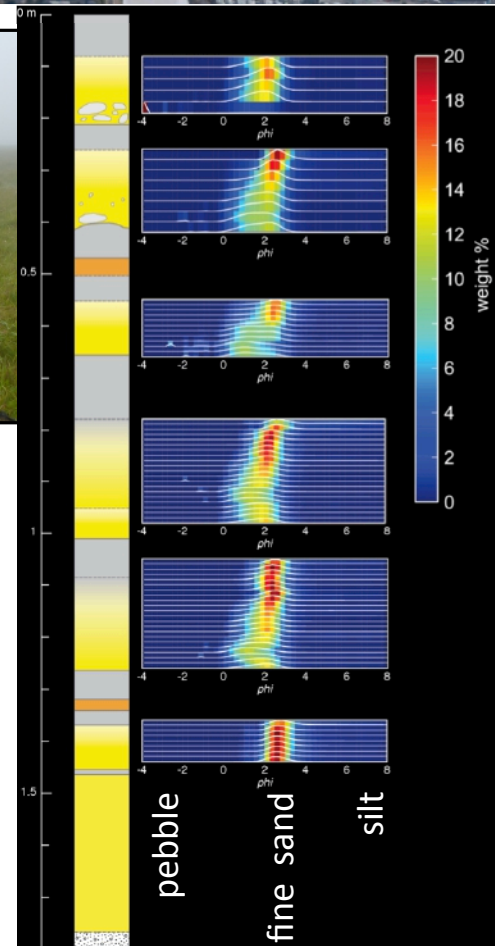
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What we do: Paleotsunami studies



- Find and map paleotsunami deposits
- Sample layers to determine inundation source and frequency
- Model sediment deposits to constrain size and speed of tsunami and location and magnitude of seafloor rupture



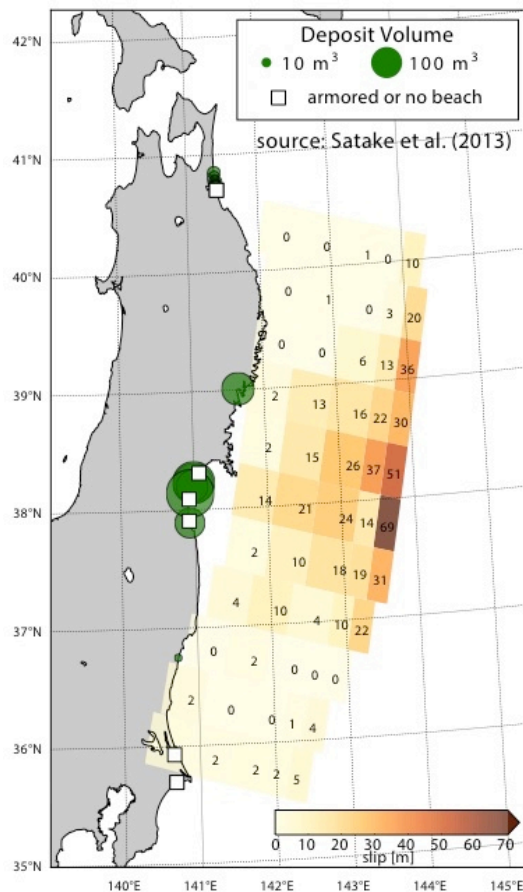
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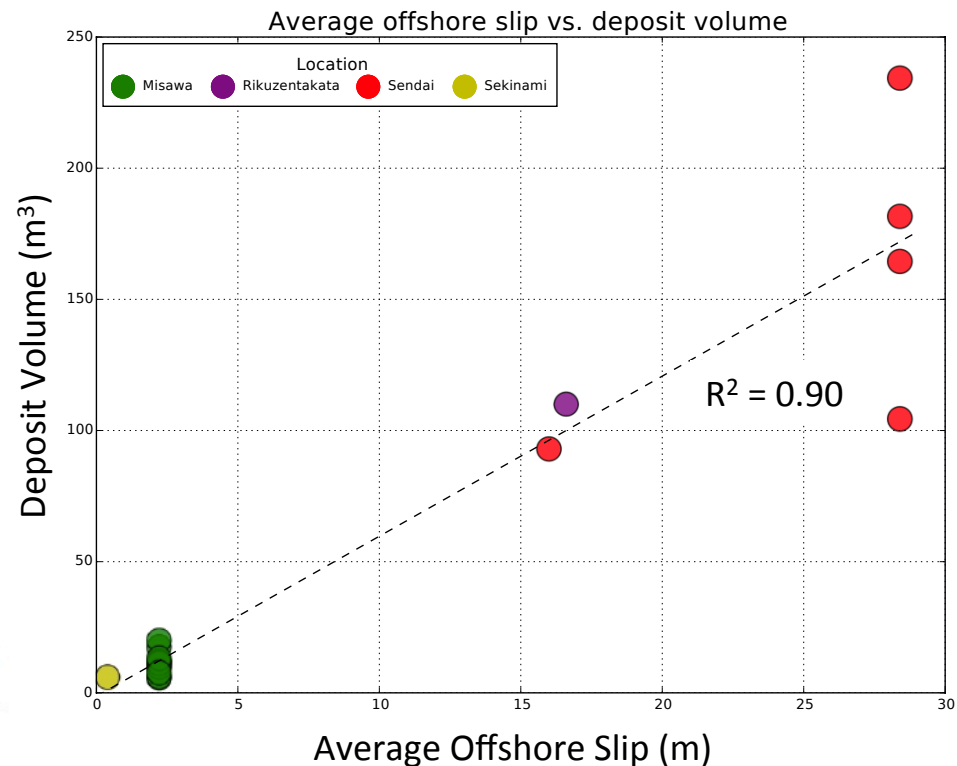
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Interpreting offshore slip from tsunami deposits



Total onshore tsunami deposit volume increases with offshore slip



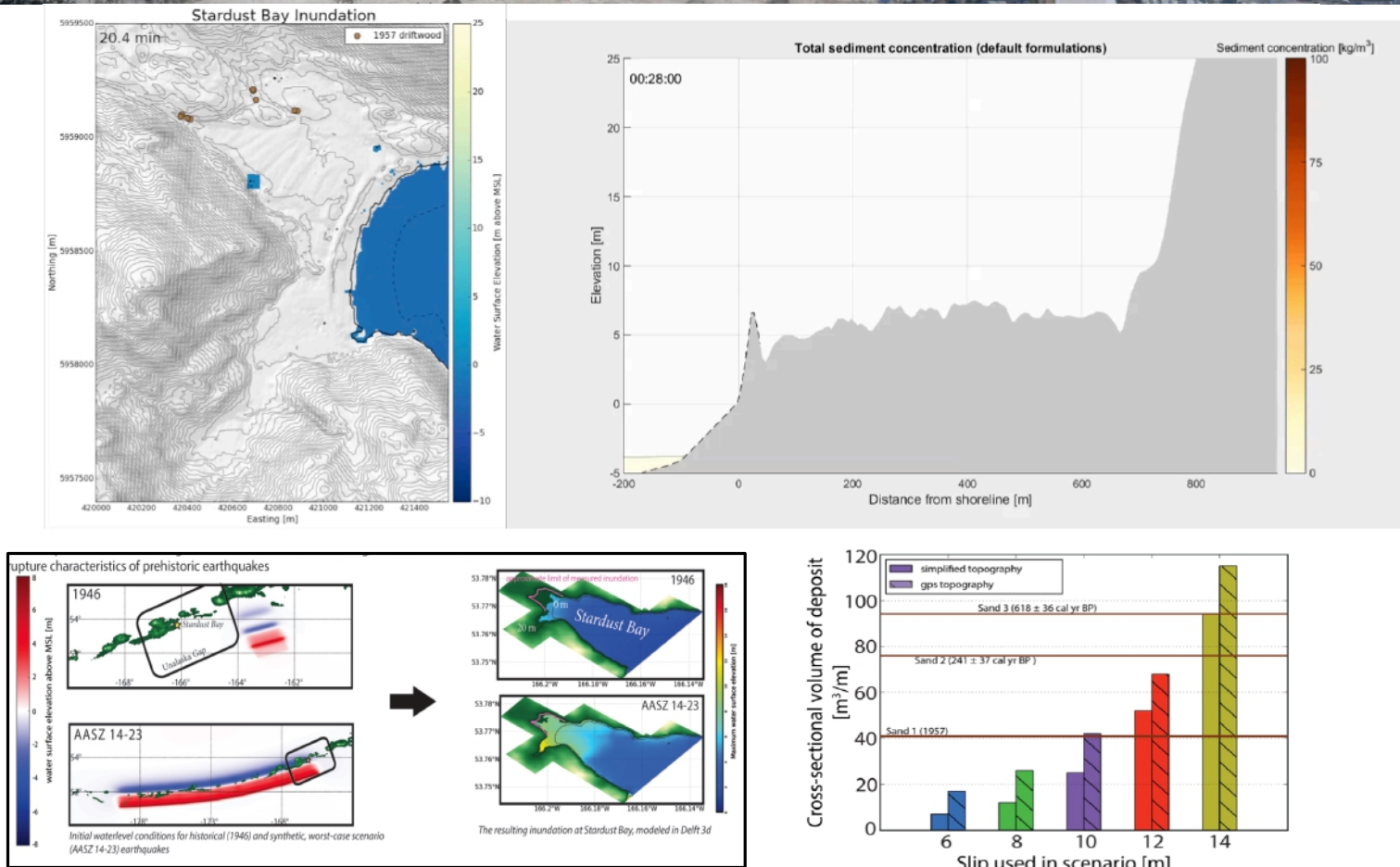
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USGS Modeling tsunami inundation and sediment transport

science for a changing world

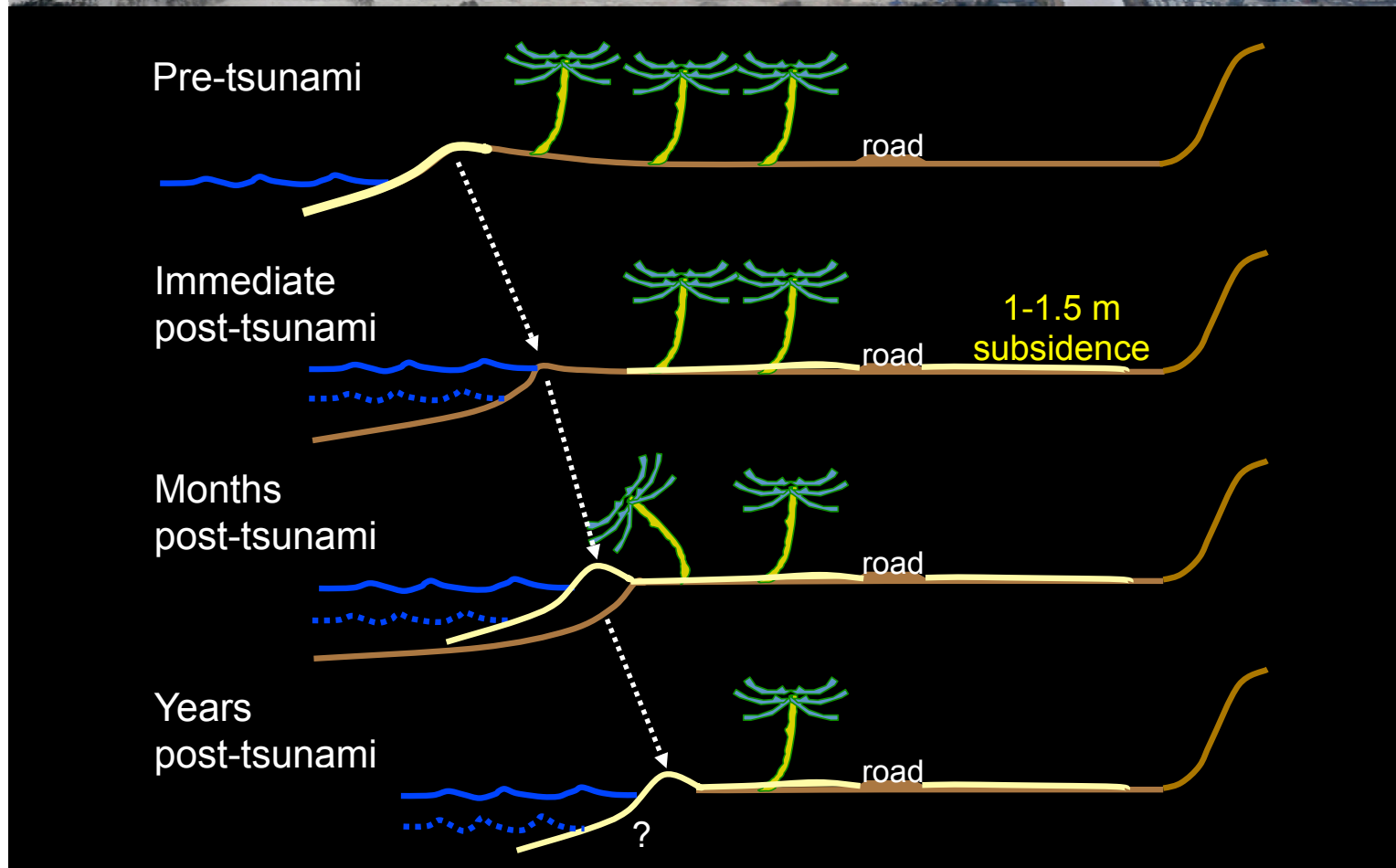


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Coastal response to tsunami and subsidence



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