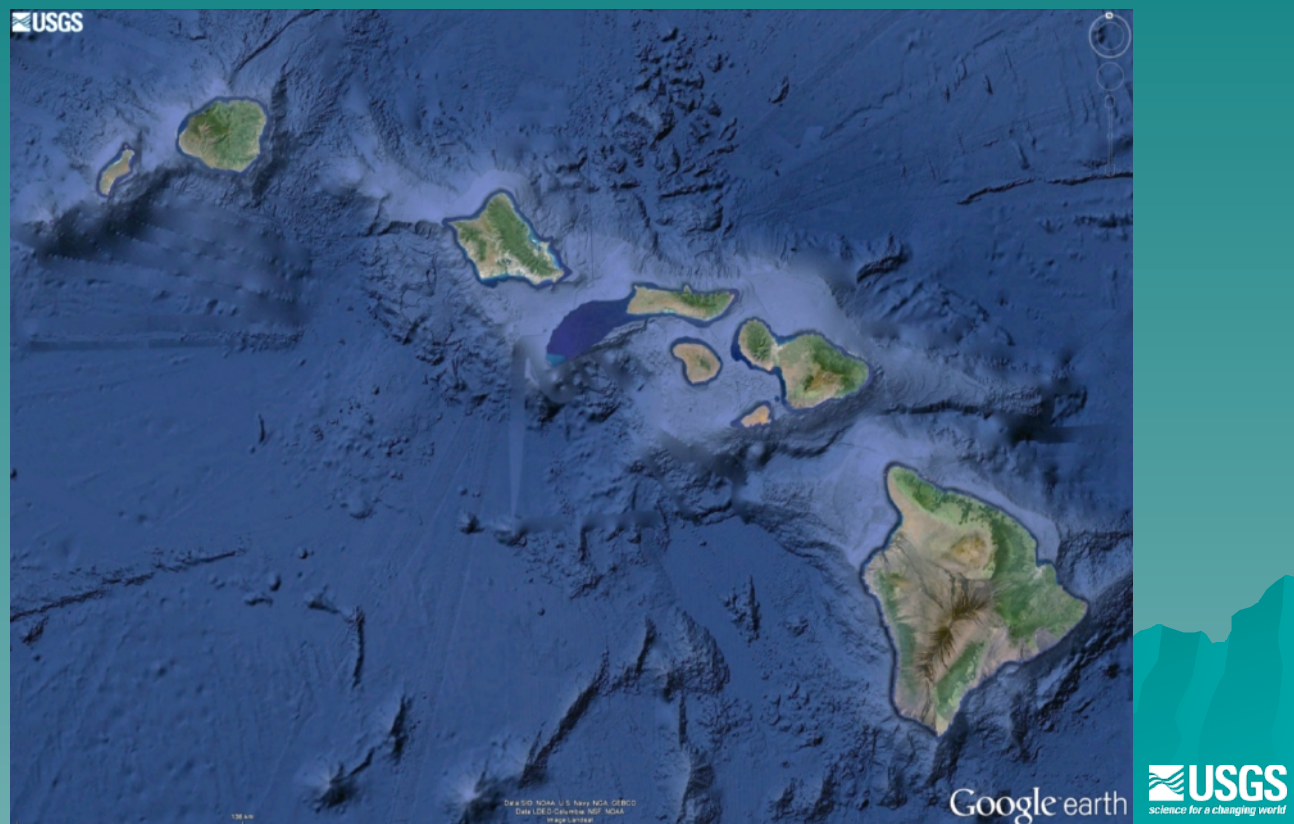


Tsunami Hazards, Modeling, and the Sedimentary Record Project
USGS Pacific Coastal and Marine Science Center, Santa Cruz, CA

**Tsunami Hazards in the Hawaiian Islands: Triple Threat from Local
and Distant-Source Tsunamis and Catastrophic Submarine
Landslides**

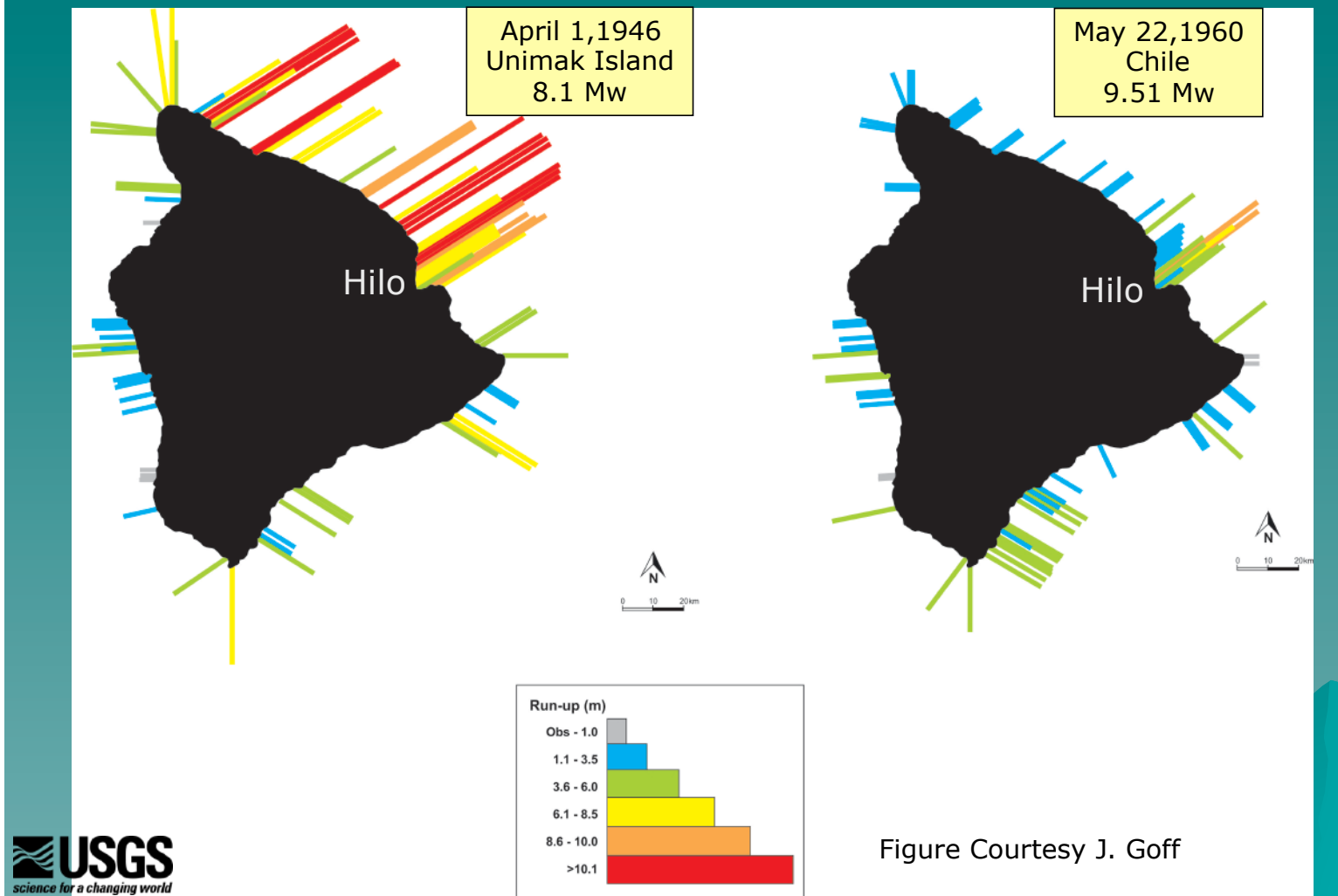


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Observed Run-up on the Island of Hawai'i for 2 Different Tsunamis



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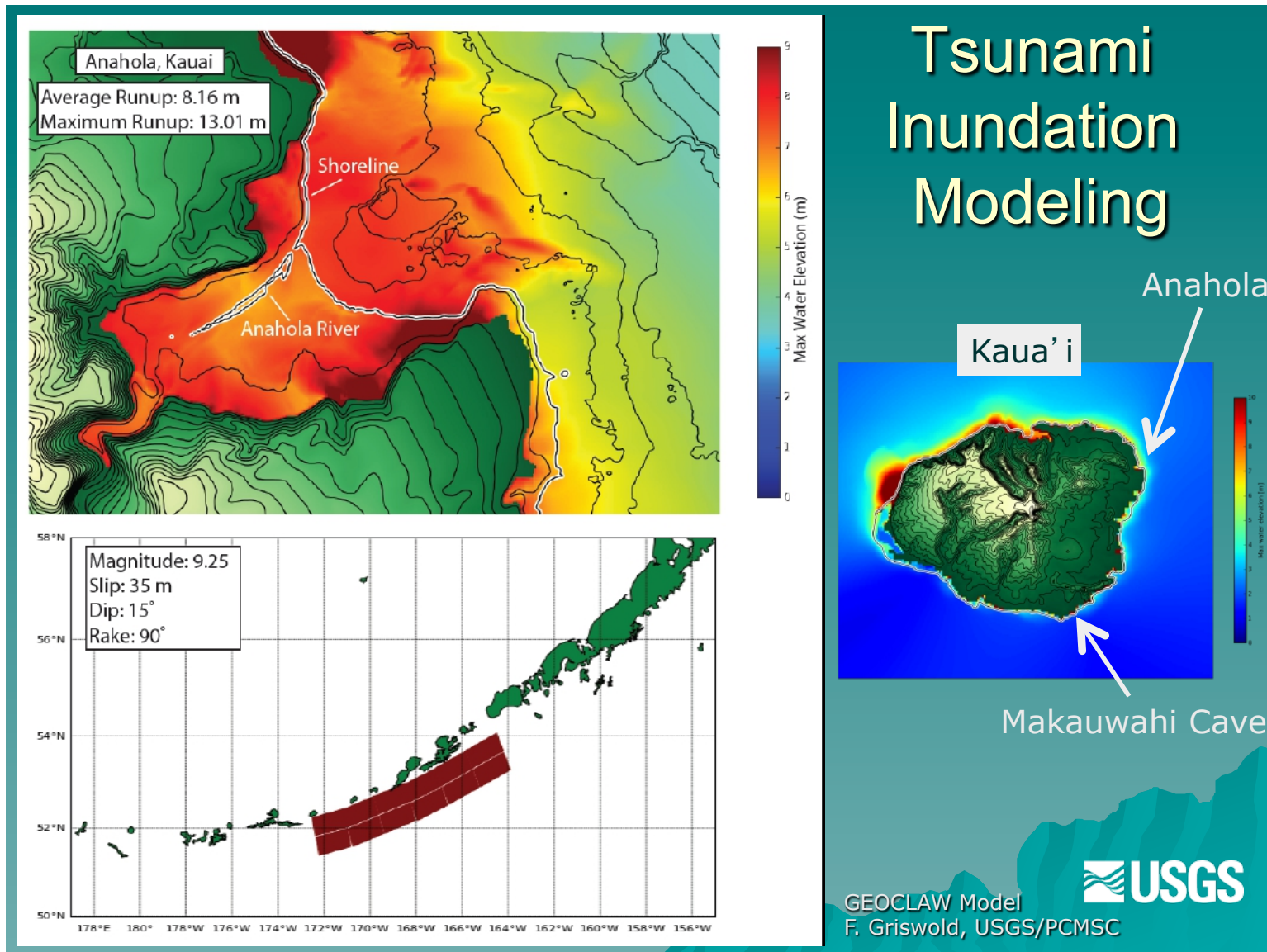
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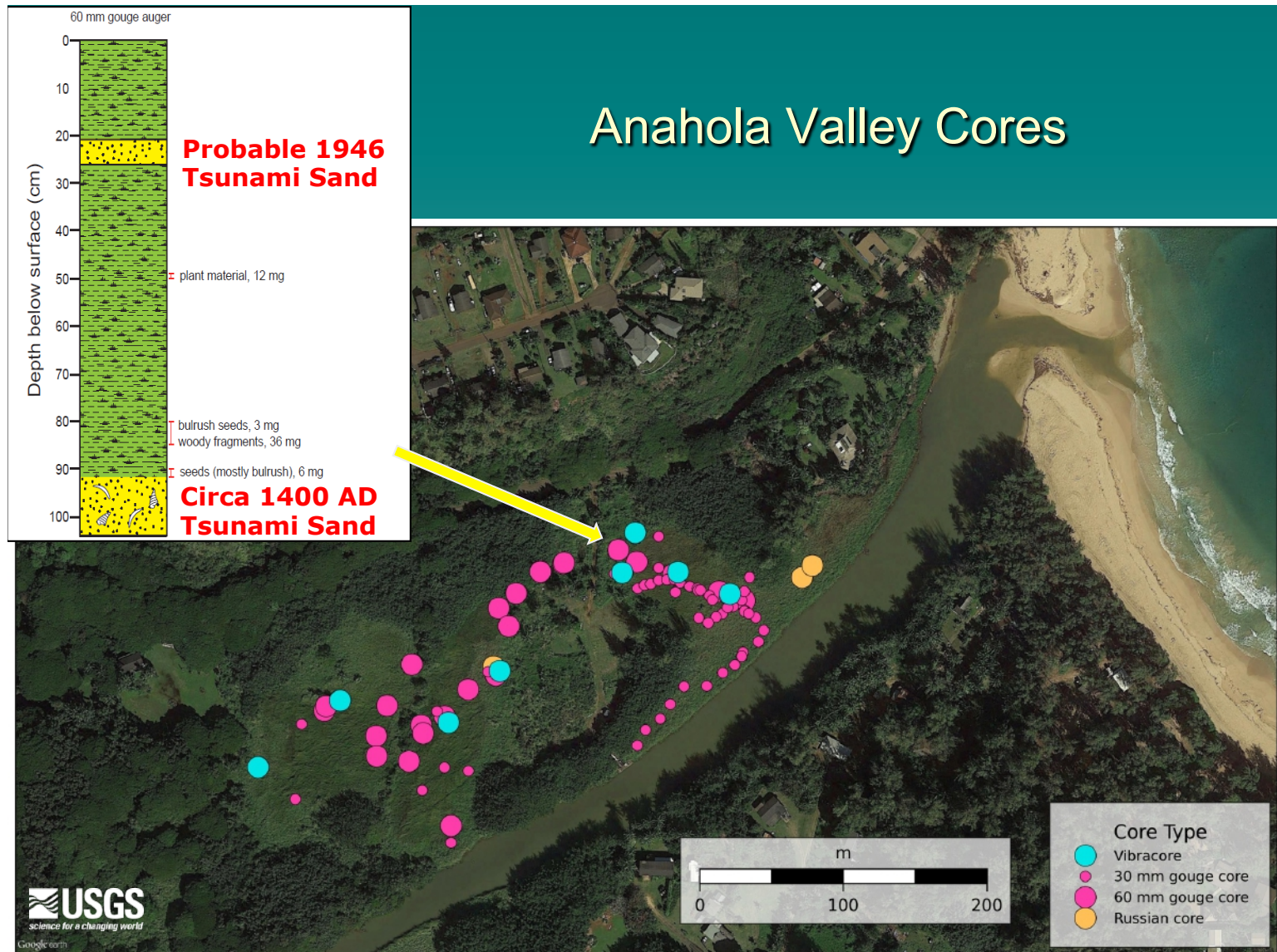
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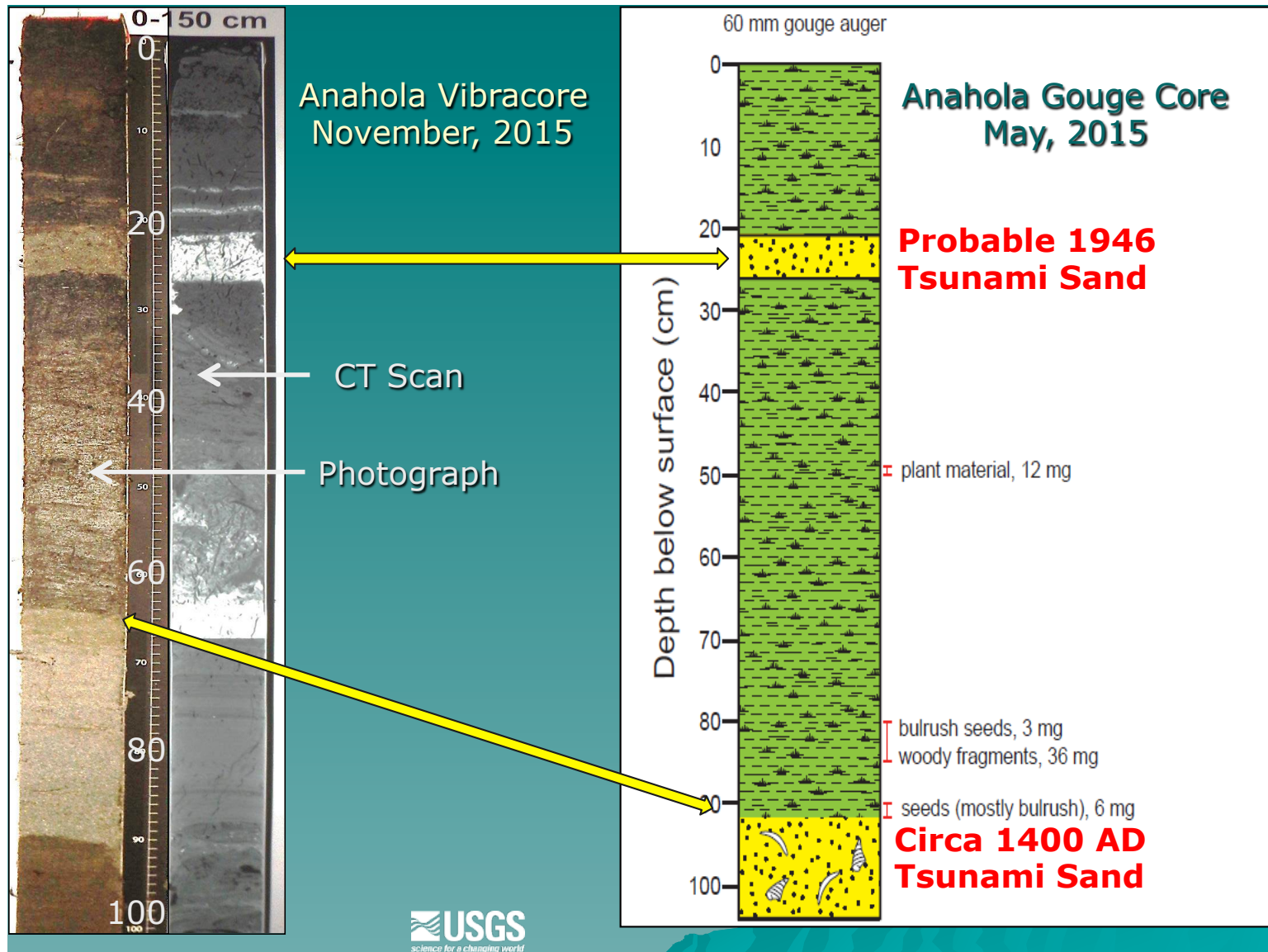
Insular Record of Extreme Events



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Paleotsunami Investigations

- ◆ Goals: Improve public safety and community resiliency through scientific research to better understand past tsunami frequency, magnitude, and location.
- ◆ Site Selection: Use combination tsunami inundation modeling results, historical tsunami records, and logistic considerations.
- ◆ Field Studies: Use a variety of trenching, coring, and sampling techniques to map and sample prospective tsunami deposits with a focus on identifying extreme events.
- ◆ Laboratory Analysis: Determine the age, sediment source, and deposit origin through age dating, grain-size distribution, and geochemical, lithologic, and microfossil composition.
- ◆ Regional Characterization: Correlate deposits from a number of sites to develop a history of past tsunamis with an emphasis on identifying the largest events.



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